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

Minor Planet Center, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.
IAUSUBS@CFA.HARVARD.EDU or FAX 617-495-7231 (subscriptions)
BMARSDEN@CFA.HARVARD.EDU or GWILLIAMS@CFA.HARVARD.EDU (science)
Phone 617-495-7244/7444/7440 (for emergency use only).

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

Brian G. Marsden, Director

Gareth V. Williams, Associate Director

© Copyright 2000 Minor Planet Center

Syuichi Nakano, Liaison in Japan

Prepared using the Tamkin Foundation Computer Network

EDITORIAL NOTICE

Discoverers of numbered minor planets, as well as others suggesting names for them, are reminded that the citations accompanying the names are now restricted to a maximum of four printed lines in the *Minor Planet Circulars* (excluding the line giving the discovery information), or about 50 words. For a few months after this change was made last July (see *MPC* 35155), it seemed that many of the citations being submitted complied with this requirement, but the lengths are now creeping up again. A short citation that restricts its content to the actual name itself, rather than covers matters only indirectly associated with the name, is preferred. It should be written in good English, including sufficient information to explain the meaning of the name, but excluding details that cause it to read like a potted biography or travelogue. In the case of a name honoring a person, years of birth (and death) should be provided, and some explicit geographical information (e.g., the city in which the person lives or worked, rather than nationality) can be useful. It would also be very helpful to the Minor Planet Center if contributors submitted their name proposals by e-mail, in straight ASCII and *not* in any packed form or as the coded output of a word processor, using the format shown—with examples—at <http://cfa-www.harvard.edu/iau/info/Astrometry.html#cit>; diacritical marks should be indicated using the TeX convention. All names submitted will require the approval of the IAU Small Bodies Names Committee before they can be published. Names may be subject to further modification, generally for the purpose of making them more distinct from existing names, and citations are subject to further editing.

For the first time, this batch of *MPCs* contains observations and orbital elements of some natural satellites. Since they can be quite routinely observed in the course of survey observations for minor planets, the Minor Planet Center quite frequently receives reports of observations of the outer satellites of the giant planets. Although such observations are usually quickly recognized by the MPC, it does sometimes happen that they accidentally receive preliminary minor-planet designations (cf. *MPC* 38243). In any case, it seems desirable to make these observations available to the community. Furthermore, there is a particular need for the systematic publication of absolute astrometric observations of newly discovered satellites, such as the three outer satellites of Uranus reported in 1999, given that there has been room on the *IAU Circulars* only for a few representative data. For convenience, the corresponding orbital elements are given here in “comet” form, in the same units of AU, degrees and degrees per day (though with the period P in years), except that T and q of course refer to the planetocenter, rather than to the heliocenter.

Quite apart from this addition, however, it has been apparent recently that the *MPCs* are nowadays becoming almost unreasonably large, with three mailings sometimes necessary to accommodate a monthly batch, and the actual observations of the minor planets contained in a *Supplement* series that is being disseminated only electronically. The volume of data is typically now ten times what it was only three years ago, and more new minor planets can be numbered in a single month than were numbered during the entire 31 years the Minor Planet Center was located in Cincinnati! For example, there were 868 pages of *MPCs*, 1464 pages of *MPSs* and 501 new numberings in the 2000 Jan. 24 batch. While there does seem to be value in continuing to have some kind of printed publication, the monthly postage bill is increasing (almost exponentially, it seems), and the necessary increase in subscription rates to keep up with this would probably be prohibitive for the majority of our subscribers. Donations are, of course, very welcome! Given that the summary of the observations contained in the *MPCs* is proving to be quite popular, the obvious next step is to summarize there the orbital calculations in some fashion, with the detailed results, including residuals, also included in a *Supplement*. Suggestions from interested subscribers are also welcome.

ERRATA

<i>MPC</i>	Line
38194	– 9
38194	– 8
38200	–48
38200	–46
38268	21

For Unusual *read* Usual
For family *read* main character
For (11050) Messiaën *read* (11050) Messiaën
For Oliver Messiaën *read* Olivier Messiaen
The header should read

615 St. Věran

L. Šarounová, Astronomical Institute, Czech Academy
of Sciences, CZ-25165 Ondřejov, Czech Republic
[lenka@asu.cas.cz]
Observers L. Šarounová, A. Paschke, L. Vašta
0.62-m $f/3$ reflector + CCD

NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 38241. The longitudes λ are measured in degrees eastward from Greenwich, and the parallax constants $\rho \cos \phi'$ and $\rho \sin \phi'$ are the product of the geocentric distance (in earth equatorial radii) and the cosine and sine, respectively, of the geocentric latitude.

Obs.	λ	$\rho \cos \phi'$	$\rho \sin \phi'$	
177	3.9414	0.72477	+0.68669	Le Cres
178	6.1344	0.69423	+0.71745	Collonges
179	9.0175	0.69694	+0.71507	Monte Generoso
180	3.9519	0.72571	+0.68570	Mauguio
300	133.5444	0.82337	+0.56572	Bisei Spaceguard Center-BATTeRS
345	128.4575	0.80046	+0.59773	Sobaeksan Optical Astronomy Observatory
866	283.5100	0.7784	+0.6257	U.S. Naval Academy, Michelson

DELETED OBSERVATIONS

The following observations are to be deleted.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	N Obs.
1978 CL	1978 02 03.26113	09 04 48.48	+15 22 28.8	<i>MPC</i> 5769		675
2000 AX ₉₀	2000 02 10.17174	08 11 41.45	+20 27 00.7	<i>MPS</i> 10165		691
2000 AX ₉₀	2000 02 10.17631	08 11 41.17	+20 27 02.4	<i>MPS</i> 10165		691
2000 AX ₉₀	2000 02 10.18060	08 11 40.91	+20 27 03.9	<i>MPS</i> 10165		691
2000 BR ₂₀	2000 02 01.39835	09 17 30.68	+15 37 10.5	<i>MPS</i> 10290		691
2000 BR ₂₀	2000 02 01.42151	09 17 29.07	+15 37 14.3	<i>MPS</i> 10290		691
2000 BR ₂₀	2000 02 01.44419	09 17 27.46	+15 37 18.0	<i>MPS</i> 10290		691
2000 CQ ₆₈	* 2000 02 01.32757	09 16 50.47	+15 27 11.3	<i>MPS</i> 10405		691
2000 CQ ₆₈	2000 02 01.35055	09 16 49.06	+15 27 14.2	<i>MPS</i> 10405		691
2000 CQ ₆₈	2000 02 01.37374	09 16 47.68	+15 27 17.1	<i>MPS</i> 10405		691
2000 CT ₆₉	* 2000 02 01.39777	09 16 40.77	+15 30 24.6	<i>MPS</i> 10406		691
2000 CT ₆₉	2000 02 01.42093	09 16 39.28	+15 30 28.2	<i>MPS</i> 10406		691
2000 CT ₆₉	2000 02 01.44362	09 16 37.78	+15 30 31.8	<i>MPS</i> 10406		691
2000 CV ₇₁	* 2000 02 01.39304	09 09 50.63	+15 51 08.3	<i>MPS</i> 10408		691
2000 CV ₇₁	2000 02 01.41620	09 09 49.15	+15 51 19.8	<i>MPS</i> 10408		691
2000 CV ₇₁	2000 02 01.43888	09 09 47.68	+15 51 31.0	<i>MPS</i> 10408		691
2000 CP ₇₈	2000 02 11.12822	08 14 37.60	+20 00 53.1	<i>MPS</i> 10415		691
2000 CP ₇₈	2000 02 11.15038	08 14 36.29	+20 00 51.9	<i>MPS</i> 10415		691
2000 CP ₇₈	2000 02 11.17266	08 14 34.96	+20 00 52.0	<i>MPS</i> 10415		691

IDENTIFICATION CHANGES

Continuation to *MPC* 38241.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	Obs.
1955 SE ₃	* 1955 09	21.18327	22 54 39.27	−15 40 02.8	1955 RN	17.5	760
1976 QS ₂	* 1976 08	19.13023	20 47 54.10	−28 58 26.4	1976 NC		809
1976 QS ₂	1976 08	19.17178	20 47 51.93	−28 58 29.0	1976 NC		809
1989 AJ ₁₀	* 1989 01	11.11910	09 50 44.40	+13 49 46.9	1989 AB ₇		033
1989 PB ₂	* 1989 08	01.31406	20 20 06.45	−14 40 16.1	1989 NL ₁	17.2	675
1989 PB ₂	1989 08	01.34478	20 20 04.88	−14 40 22.3	1989 NL ₁		675
1989 SX ₁₄	* 1989 09	28.26111	01 49 59.80	+04 38 26.8	1989 SV ₄	19.7	809
1989 SX ₁₄	1989 09	28.27431	01 49 59.17	+04 38 26.2	1989 SV ₄		809
1989 SX ₁₄	1989 09	28.28750	01 49 58.45	+04 38 26.0	1989 SV ₄		809

1989 TO ₁₈	* 1989 10 01.20625	23 54 28.08	+00 07 06.1	1989 SE ₁₂		809
1989 TO ₁₈	1989 10 01.21875	23 54 27.35	+00 06 57.1	1989 SE ₁₂		809
1989 TO ₁₈	1989 10 01.23125	23 54 26.61	+00 06 47.9	1989 SE ₁₂		809
1989 TP ₁₈	* 1989 10 07.26181	01 44 25.59	+05 47 28.4	1989 SV ₆	19.6	809
1989 TP ₁₈	1989 10 07.27500	01 44 24.64	+05 47 26.3	1989 SV ₆		809
1989 TP ₁₈	1989 10 07.28819	01 44 23.92	+05 47 21.6	1989 SV ₆		809
1990 TN ₁₆	* 1990 10 11.49659	22 31 09.22	+00 46 06.7	1990 TO ₅		413
1990 WG ₁₆	* 1990 11 17.26528	03 35 03.47	+09 01 44.4	1990 VA ₁₆		809
1991 PA ₃₂	* 1991 08 14.20625	22 00 13.56	-17 24 20.8	1991 PF ₇		809
1991 PA ₃₂	1991 08 14.21944	22 00 12.90	-17 24 28.4	1991 PF ₇		809
1991 PA ₃₂	1991 08 14.23264	22 00 12.36	-17 24 36.6	1991 PF ₇		809
1991 VF ₁₇	* 1991 11 15.66597	04 42 17.39	+26 16 50.2	1991 VV ₄		402
1991 VF ₁₇	1991 11 15.68264	04 42 16.24	+26 16 49.4	1991 VV ₄		402
1992 GU ₈	* 1992 04 07.10451	10 28 40.44	+06 34 05.6	1992 EF ₁₂	18.8	809
1992 GV ₈	* 1992 04 05.36823	13 13 29.20	-10 37 50.4	2127 T-2		675
1992 GV ₈	1992 04 05.39948	13 13 27.30	-10 37 43.6	2127 T-2		675
1993 HV ₈	* 1993 04 16.48568	12 28 14.60	+03 06 35.7	1993 FF ₁₇	19.8	413
1993 HW ₈	* 1993 04 16.52653	12 04 52.19	+04 18 23.7	1993 FU ₅	19.0	413
1994 GU ₁₁	* 1994 04 15.50069	13 22 59.95	+02 42 06.5	1994 GF ₁	17	400
1994 GU ₁₁	1994 04 15.51701	13 22 59.19	+02 42 10.8	1994 GF ₁		400
1994 JU ₉	* 1994 05 06.49167	13 06 24.90	+03 53 56.5	1994 GF ₁	16.8	400
1994 JU ₉	1994 05 06.50764	13 06 24.58	+03 54 03.8	1994 GF ₁		400
1995 GB ₉	* 1995 04 04.53507	12 16 57.80	-03 03 26.3	1995 FE ₁	17.3	399
1995 GB ₉	1995 04 04.55069	12 16 57.06	-03 03 19.6	1995 FE ₁		399
1995 XG ₅	* 1995 12 14.50104	03 45 05.20	+22 17 12.3	1995 WG ₃	17.3	399
1995 XG ₅	1995 12 14.51529	03 45 04.33	+22 17 13.1	1995 WG ₃		399
1997 CD ₃₀	* 1997 02 14.20918	08 12 45.08	+20 05 30.4	1997 CS ₂₂	20.3 V	691
1997 CD ₃₀	1997 02 14.23160	08 12 44.06	+20 05 33.1	1997 CS ₂₂	19.9 V	691
1997 TC ₃₀	* 1997 10 11.42556	02 20 00.10	+15 00 05.1	1997 TZ ₁₉	19.2 V	691
1997 TC ₃₀	1997 10 11.44762	02 19 59.07	+15 00 00.7	1997 TZ ₁₉	19.0 V	691
1997 TC ₃₀	1997 10 11.47023	02 19 58.04	+14 59 55.8	1997 TZ ₁₉	19.2 V	691
1997 XY ₁₃	* 1997 12 08.52218	02 42 37.91	+16 35 59.6	1997 WG ₅₆		327
1997 XY ₁₃	1997 12 08.54279	02 42 37.34	+16 35 58.1	1997 WG ₅₆	18.3	327
1997 XY ₁₃	1997 12 08.56277	02 42 36.81	+16 35 55.0	1997 WG ₅₆		327
1998 PS ₁	* 1998 08 04.40486	00 26 14.99	-04 16 41.6	1998 SY ₂₃	18.3 R	699
1998 PS ₁	1998 08 04.41976	00 26 15.23	-04 16 44.1	1998 SY ₂₃		699
1998 PS ₁	1998 08 04.43466	00 26 15.51	-04 16 48.6	1998 SY ₂₃		699
1998 SX ₁₆₅	* 1998 09 21.29583	02 29 01.14	+10 18 56.1	1998 SW ₁₄₇		809
1998 SX ₁₆₅	1998 09 21.30903	02 29 00.82	+10 18 54.1	1998 SW ₁₄₇		809
1998 SX ₁₆₅	1998 09 21.32222	02 29 00.46	+10 18 53.0	1998 SW ₁₄₇		809
1998 XL ₉₇	* 1998 12 08.19767	03 35 25.70	+16 45 06.0	1998 WS ₁₄	19.3 V	691
1998 XL ₉₇	1998 12 08.22016	03 35 24.67	+16 45 01.4	1998 WS ₁₄	19.3 V	691
1998 XL ₉₇	1998 12 08.24538	03 35 23.47	+16 44 57.4	1998 WS ₁₄	19.4 V	691
1998 YM ₃₀	* 1998 12 19.19786	05 50 09.56	+24 03 42.6	1981 EB ₁₁	19.9	704
1998 YM ₃₀	1998 12 19.22083	05 50 08.09	+24 03 42.9	1981 EB ₁₁	19.7	704
1999 RD ₂₁₆	* 1999 09 13.23189	22 58 23.01	-09 52 03.0	1999 RZ ₁₅₈	19.2	704
1999 RD ₂₁₆	1999 09 13.24331	22 58 22.53	-09 52 11.9	1999 RZ ₁₅₈	19.3	704
1999 RD ₂₁₆	1999 09 13.25539	22 58 22.04	-09 52 19.3	1999 RZ ₁₅₈	19.6	704
1999 RD ₂₁₆	1999 09 13.26686	22 58 21.60	-09 52 25.2	1999 RZ ₁₅₈	19.2	704
1999 RD ₂₁₆	1999 09 13.27834	22 58 21.09	-09 52 33.9	1999 RZ ₁₅₈	19.6	704
1999 VW ₁₇₃	* 1999 11 12.28514	02 03 14.00	+11 29 48.5	1999 VN ₇₅	19.0 V	691
1999 VW ₁₇₃	1999 11 12.30701	02 03 12.88	+11 29 41.5	1999 VN ₇₅	19.0 V	691
1999 VW ₁₇₃	1999 11 12.34159	02 03 11.11	+11 29 30.3	1999 VN ₇₅	19.1 V	691

1999 VX ₁₇₃	*	1999 11 15.28912	03 35 37.98	+16 58 37.4	1999 VV ₁₄₆	19.5	704
1999 VX ₁₇₃		1999 11 15.30346	03 35 37.21	+16 58 35.3	1999 VV ₁₄₆	19.4	704
1999 VX ₁₇₃		1999 11 15.31778	03 35 36.41	+16 58 33.8	1999 VV ₁₄₆	19.5	704
1999 VX ₁₇₃		1999 11 15.33258	03 35 35.61	+16 58 31.3	1999 VV ₁₄₆	19.6	704
1999 VX ₁₇₃		1999 11 15.34689	03 35 34.81	+16 58 29.6	1999 VV ₁₄₆	19.7	704
1999 VX ₁₇₃		1999 11 16.37913	03 34 39.34	+16 56 21.4	1999 VV ₁₄₆	19.3 V	691
1999 VX ₁₇₃		1999 11 16.40423	03 34 37.95	+16 56 18.3	1999 VV ₁₄₆	19.7 V	691
1999 VX ₁₇₃		1999 11 16.42808	03 34 36.62	+16 56 15.4	1999 VV ₁₄₆	19.4 V	691
1999 XC ₂₃₂	*	1999 12 05.15311	02 33 20.54	+14 23 19.8	1999 WX ₁₃	20.7 V	691
1999 XC ₂₃₂		1999 12 05.17963	02 33 19.60	+14 23 19.0	1999 WX ₁₃	20.4 V	691
1999 XC ₂₃₂		1999 12 05.20679	02 33 18.60	+14 23 18.6	1999 WX ₁₃	20.5 V	691
1999 XD ₂₃₂	*	1999 12 12.20061	02 36 08.22	+18 19 57.8	1999 XV ₁₀₈	18.7 R	703
1999 XD ₂₃₂		1999 12 12.21282	02 36 07.79	+18 19 56.0	1999 XV ₁₀₈	18.6 R	703
1999 XD ₂₃₂		1999 12 12.22504	02 36 07.45	+18 19 54.1	1999 XV ₁₀₈	18.5 R	703
1999 XD ₂₃₂		1999 12 12.23722	02 36 07.17	+18 19 52.1	1999 XV ₁₀₈	18.6 R	703
2000 AD ₂₄₆	*	2000 01 04.07399	01 48 07.18	+12 09 14.0	1999 VB ₁₂₀	18.7	704
2000 AD ₂₄₆		2000 01 04.08906	01 48 07.85	+12 09 15.7	1999 VB ₁₂₀	19.2	704
2000 AD ₂₄₆		2000 01 04.10408	01 48 08.44	+12 09 18.2	1999 VB ₁₂₀	19.1	704
2000 AD ₂₄₆		2000 01 04.11908	01 48 09.09	+12 09 20.3	1999 VB ₁₂₀	19.4	704
2000 AD ₂₄₆		2000 01 04.13408	01 48 09.65	+12 09 22.0	1999 VB ₁₂₀	19.4	704
2000 AE ₂₄₆	*	2000 01 05.29250	07 14 18.28	+21 52 07.5	1999 XO ₉₀	18.3	704
2000 AE ₂₄₆		2000 01 05.30721	07 14 17.28	+21 52 10.0	1999 XO ₉₀	18.9	704
2000 AE ₂₄₆		2000 01 05.32180	07 14 16.32	+21 52 13.2	1999 XO ₉₀	19.0	704
2000 AE ₂₄₆		2000 01 05.33636	07 14 15.33	+21 52 16.9	1999 XO ₉₀	19.0	704
2000 AE ₂₄₆		2000 01 05.35096	07 14 14.25	+21 52 18.9	1999 XO ₉₀	18.8	704
2000 BS ₃₀	*	2000 01 31.23683	07 44 01.61	+22 43 43.7	2000 AQ ₂₁₉	19.3	704
2000 BS ₃₀		2000 01 31.25178	07 44 00.76	+22 43 43.1	2000 AQ ₂₁₉	19.4	704
2000 BS ₃₀		2000 01 31.26664	07 43 59.78	+22 43 41.7	2000 AQ ₂₁₉	18.9	704
2000 CV ₁₀₁	*	2000 02 07.29517	09 10 55.13	+15 40 07.3	2000 CQ ₆₈	19.5 V	691
2000 CV ₁₀₁		2000 02 07.31868	09 10 53.68	+15 40 10.5	2000 CQ ₆₈	19.5 V	691
2000 CV ₁₀₁		2000 02 07.34087	09 10 52.32	+15 40 11.9	2000 CQ ₆₈	19.0 V	691
2000 CY ₁₀₃	*	2000 02 08.37553	09 02 58.11	+16 52 32.6	2000 CV ₇₁	18.9 V	691
2000 CY ₁₀₃		2000 02 08.37961	09 02 57.86	+16 52 34.0	2000 CV ₇₁	18.8 V	691
2000 CY ₁₀₃		2000 02 08.38413	09 02 57.58	+16 52 35.7	2000 CV ₇₁	18.7 V	691
2000 CG ₁₀₄	*	2000 02 04.22711	06 57 17.93	+10 37 34.6	2000 AC ₁₇₉	17.3	704
2000 CG ₁₀₄		2000 02 04.24125	06 57 17.48	+10 37 38.1	2000 AC ₁₇₉	17.2	704
2000 CG ₁₀₄		2000 02 04.25541	06 57 16.98	+10 37 41.1	2000 AC ₁₇₉	17.3	704
2000 CG ₁₀₄		2000 02 04.26957	06 57 16.52	+10 37 44.5	2000 AC ₁₇₉	17.9	704
2000 CG ₁₀₄		2000 02 04.28380	06 57 15.99	+10 37 47.9	2000 AC ₁₇₉	18.7	704
2000 CH ₁₀₄	*	2000 02 11.34519	10 36 46.82	+08 44 27.9	2000 CY ₈₇	18.6	704
2000 CH ₁₀₄		2000 02 11.35959	10 36 46.08	+08 44 32.7	2000 CY ₈₇	18.5	704
2000 CH ₁₀₄		2000 02 11.37402	10 36 45.37	+08 44 37.9	2000 CY ₈₇	18.6	704
2000 CV ₁₀₅	*	2000 02 07.29489	09 10 30.67	+15 46 23.9	2000 CT ₆₉	20.0 V	691
2000 CV ₁₀₅		2000 02 07.31840	09 10 29.16	+15 46 27.8	2000 CT ₆₉	20.0 V	691
2000 CV ₁₀₅		2000 02 07.34059	09 10 27.73	+15 46 31.6	2000 CT ₆₉	19.8 V	691
2000 CW ₁₀₅	*	2000 02 06.38724	10 49 17.72	+06 34 47.9	2000 CK ₅₄	19.2	704
2000 CW ₁₀₅		2000 02 06.40209	10 49 17.09	+06 34 54.7	2000 CK ₅₄	19.2	704
2000 CW ₁₀₅		2000 02 06.41681	10 49 16.41	+06 35 01.2	2000 CK ₅₄	19.3	704

OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

- 046 Kleť. 0.57-m $f/5.2$ reflector + CCD. Observers J. Tichá, M. Tichý and Z. Moravec.
- 049 Kvistaberg. 1.0-m Schmidt + CCD. Observers T. Oja, O. Karlsson, C.-I. Lagerkvist and J. Warell. Measurers J. Warell, C.-I. Lagerkvist, A. Erikson, G. Hahn and S. Mottola.
- 118 Modra. 0.6-m $f/5.5$ reflector + CCD. Observers L. Kornoš, Š. Gajdoš, A. Galád and J. Tóth.
- 170 Begues. 0.26-m Schmidt-Cassegrain + CCD. Observer J. Manteca. Measured by S. Alonso.
- 249 SOHO. SOHO-LASCO coronagraphs C2 and C3. Observers D. A. Biesecker, T. Lovejoy, A. Vourlidas, K. Schenk, D. Lewis, M. Meyer, M. Boschat, T. Harincar and D. Lewis. Measured by D. A. Biesecker and D. Hamner. Reduction by G. V. Williams and B. G. Marsden.
- 322 Perth Observatory Mike Candy Telescope. 0.25-m $f/4.5$ reflector + CCD. Observers G. Lowe, T. Smith and J. Biggs.
- 348 Ayabe. 0.28-m $f/5.5$ Schmidt-Cassegrain + CCD. Observer N. Otuki.
- 349 Ageo. 0.18-m $f/5.5$ reflector + CCD. Observer K. Kadota.
- 355 Hadano. 0.28-m $f/5.0$ reflector + CCD. Observer A. Asami.
- 360 Kuma Kogen. 0.60-m $f/5.8$ Ritchey-Chrétien + CCD. Observer A. Nakamura.
- 372 Geisei. 0.60-m $f/3.5$ reflector. Observer T. Seki.
- 402 Dynic Astronomical Observatory. 0.60-m $f/3.7$ reflector + CCD. Observer A. Sugie.
- 413 Siding Spring. 1.0-m $f/8$ reflector + CCD. Observer R. H. McNaught.
- 422 Loomberah. 0.25-m $f/4.1$ reflector + CCD. Observer G. J. Garradd.
- 474 Mount John. 1.0-m $f/6.7$ McClellan reflector + CCD. Observers I. P. Griffin and N. Brady.
- 504 Le Creusot. 0.40-m $f/5$ reflector + CCD. Observer J. C. Merlin.
- 557 Ondřejov. 0.65-m $f/3.6$ reflector + CCD. Observers P. Pravec, L. Šarounová and P. Kušnirák.
- 565 Bassano Bresciano. 0.40-m $f/2.5$ Schmidt + CCD. Observers U. Quadri, L. Strabla and R. Girelli.
- 589 Santa Lucia Stroncone. 0.50-m $f/2.8$ Ritchey-Chrétien + CCD. Observers A. Vagnozzi, G. Bernabei, V. Risoldi and V. Scirri.
- 610 Pianoro. 0.25-m $f/4$ Schmidt-Cassegrain. Observer V. Goretta.
- 611 Starkenburg. 0.45-m $f/4.4$ reflector + CCD. Observers M. Busch, R. Kresken, S. Kluegl, A. Seib and R. Stoss. Measured by M. Busch, R. Stoss and L. Kurtze.
- 651 Grasslands Observatory, Tucson. 0.62-m $f/5.1$ Newtonian + CCD. Observer J. E. McGaha.
- 658 Dominion Astrophysical Observatory. 1.82-m Plaskett telescope + CCD. Observer D. D. Balam.
- 691 Kitt Peak. 0.91-m Spacewatch telescope. Observers T. Gehrels, R. S. McMillan, J. Scotti, J. Larsen, J. L. Montani, A. E. Gleason and M. T. Read.
- 693 University of Arizona, Catalina Station. 1.5-m reflector + CCD. Observer C. W. Hergenrother.
- 697 Kitt Peak, McGraw-Hill Observatory. 2.4-m Hiltner Telescope + CCD. Observers J. W. Parker and R. L. Allen. Measured by J. W. Parker.
- 699 LONEOS. 0.59-m Schmidt + CCD. Observers B. A. Skiff and W. Ferris. Measured by B. W. Koehn.
- 703 Catalina Sky Survey. 0.41-m $f/3$ Schmidt + CCD. Observer C. W. Hergenrother.

704	LINEAR. 1.0-m $f/2.15$ reflector + CCD. Observers M. Blythe, F. Shelly, M. Bezpalko, M. Elowitz and R. Huber. Measured by J. Stuart, H. Viggh, R. Sayer and J. B. Evans.					
706	Salinas. 0.032-m Schmidt-Cassegrain + CCD. Observer J. Hall.					
750	Hobbs Observatory, Fall Creek. 0.6-m $f/5$ telescope + CCD. Observer R. Elliott.					
858	Tebbutt Observatory, Edgewood. 0.3-m $f/3.3$ Schmidt-Cassegrain + CCD. Observer F. B. Zoltowski.					
903	Fukuchiyama. 0.25-m $f/6.3$ Schmidt-Cassegrain + CCD. Observer M. Yoshimi.					
Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N Obs.
C/1995 O1 (Hale-Bopp)						
C/1995 O1	2000 02 01.57556	04 44 10.72	-76 16 39.0			322
C/1995 O1	2000 02 01.60924	04 44 08.54	-76 16 31.9			322
C/1995 O1	2000 03 02.52299	04 31 58.04	-73 51 57.9	13.9 T		474
C/1995 O1	2000 03 02.52899	04 31 57.88	-73 51 57.0	14.0 T		474
C/1995 O1	2000 03 07.34763	04 32 13.24	-73 28 12.6	14.1 T		474
C/1995 O1	2000 03 07.35146	04 32 13.45	-73 28 09.8	13.9 T		474
C/1995 O1	2000 03 07.35461	04 32 13.62	-73 28 09.7	13.7 T		474
C/1997 BA₆ (Spacewatch)						
C/1997 BA ₆	2000 02 28.78213	22 00 01.48	-57 45 35.0	13.9 N		413
C/1997 BA ₆	2000 02 28.78405	22 00 01.67	-57 45 33.6	14.7 N		413
C/1997 BA ₆	2000 03 04.69562	22 06 54.27	-56 50 47.1	13.1 N		474
C/1997 BA ₆	2000 03 04.69910	22 06 54.49	-56 50 44.7	13.1 N		474
C/1997 BA ₆	2000 03 04.70098	22 06 54.64	-56 50 43.5	12.9 N		474
C/1998 K2 (LINEAR)						
C/1998 K2	2000 02 27.43038	03 11 25.85	-14 00 55.2	17.2 T		360
C/1998 K2	2000 02 27.43802	03 11 25.98	-14 00 51.9			360
C/1998 K2	2000 02 27.44219	03 11 26.05	-14 00 48.6			360
C/1998 M5 (LINEAR)						
C/1998 M5	2000 03 02.59167	09 39 41.02	-22 15 27.3	15.6 T		360
C/1998 M5	2000 03 02.59410	09 39 40.85	-22 15 27.1			360
C/1998 M5	2000 03 05.39670	09 36 50.19	-22 09 44.8	15.9 T		474
C/1998 M5	2000 03 05.39983	09 36 50.00	-22 09 44.8	16.0 T		474
C/1998 M5	2000 03 05.40167	09 36 49.91	-22 09 44.7	16.0 T		474
P/1998 S1 (LINEAR-Mueller)						
P/1998 S1	2000 03 01.59653	08 01 57.09	+31 09 06.7	18.3 T		360
P/1998 S1	2000 03 01.60208	08 01 56.92	+31 09 05.5			360
P/1998 S1	2000 03 01.60764	08 01 56.77	+31 09 04.9			360
P/1998 S1	2000 03 09.61302	07 59 48.83	+30 47 58.5	18.6 T		360
P/1998 S1	2000 03 09.61788	07 59 48.70	+30 47 58.1			360
P/1998 S1	2000 03 09.62205	07 59 48.74	+30 47 57.7			360
C/1998 T1 (LINEAR)						
C/1998 T1	2000 02 11.76821	13 24 54.62	-16 37 37.5			349
C/1998 T1	2000 02 11.77010	13 24 54.40	-16 37 35.2			349
C/1998 T1	2000 02 11.77509	13 24 53.98	-16 37 33.2	16.0 T		349
C/1998 T1	2000 03 03.37299	12 47 53.29	-13 06 56.2	15.3 T		703
C/1998 T1	2000 03 03.38866	12 47 51.46	-13 06 45.3	15.3 T		703
C/1998 T1	2000 03 03.40434	12 47 49.52	-13 06 33.1	15.6 T		703

C/1998 T1	2000 03 03.42005	12 47 47.67	-13 06 21.6	15.6 T		703
C/1998 T1	2000 03 06.67656	12 41 17.64	-12 24 42.7	15.4 N		474
C/1998 T1	2000 03 06.67815	12 41 17.43	-12 24 41.2	15.5 N		474
C/1998 T1	2000 03 06.67917	12 41 17.30	-12 24 40.4	15.5 N		474
C/1998 T1	2000 03 06.68014	12 41 17.20	-12 24 39.4	15.4 N		474
C/1998 T1	2000 03 09.42891	12 35 44.83	-11 48 15.9	17.3 T		704
C/1998 T1	2000 03 09.44173	12 35 43.18	-11 48 06.7	18.5 T		704
C/1998 T1	2000 03 09.45457	12 35 41.68	-11 47 55.0	18.1 T		704
C/1998 T1	2000 03 10.04931	12 34 29.41	-11 39 53.3	16.7 N		170
C/1998 T1	2000 03 10.07721	12 34 26.07	-11 39 30.8	16.2 N		170
C/1998 T1	2000 03 12.39530	12 29 45.04	-11 07 44.8	17.1 T		704
C/1998 T1	2000 03 12.40789	12 29 43.47	-11 07 34.4	17.2 T		704
C/1998 T1	2000 03 12.40802	12 29 43.45	-11 07 34.5	17.1 T		704
C/1998 T1	2000 03 12.42059	12 29 41.84	-11 07 24.5	17.2 T		704
C/1998 T1	2000 03 12.42073	12 29 41.64	-11 07 25.2	17.3 T		704
C/1998 T1	2000 03 12.43330	12 29 40.34	-11 07 12.9	17.1 T		704
C/1998 T1	2000 03 12.43343	12 29 40.20	-11 07 13.1	17.3 T		704
C/1998 T1	2000 03 12.44637	12 29 38.77	-11 07 02.6	17.0 T		704
C/1998 T1	2000 03 12.44650	12 29 38.75	-11 07 02.0	17.0 T		704
C/1998 T1	2000 03 13.36924	12 27 46.95	-10 54 14.2	17.0 T		704
C/1998 T1	2000 03 13.36937	12 27 46.88	-10 54 13.8	17.4 T		704
C/1998 T1	2000 03 13.38167	12 27 45.37	-10 54 03.5	17.3 T		704
C/1998 T1	2000 03 13.38197	12 27 45.41	-10 54 03.5	17.1 T		704
C/1998 T1	2000 03 13.38211	12 27 45.34	-10 54 02.9	17.0 T		704
C/1998 T1	2000 03 13.39469	12 27 43.91	-10 53 51.6	17.1 T		704
C/1998 T1	2000 03 13.39482	12 27 43.82	-10 53 52.7	17.1 T		704
C/1998 T1	2000 03 13.40714	12 27 42.36	-10 53 42.7	17.5 T		704
C/1998 T1	2000 03 13.40743	12 27 42.33	-10 53 41.2	17.0 T		704
C/1998 T1	2000 03 13.40757	12 27 42.26	-10 53 41.6	17.3 T		704
C/1998 T1	2000 03 13.42000	12 27 40.76	-10 53 29.9	17.4 T		704
C/1998 T1	2000 03 13.42029	12 27 40.71	-10 53 30.4	17.1 T		704
C/1998 T1	2000 03 13.42042	12 27 40.70	-10 53 30.4	17.0 T		704
C/1998 T1	2000 03 13.43273	12 27 39.17	-10 53 20.6	17.1 T		704
C/1998 T1	2000 03 13.69028	12 27 07.99	-10 49 46.4	15.8 T		360
C/1998 T1	2000 03 13.69288	12 27 07.66	-10 49 44.0			360
C/1998 T1	2000 03 14.69913	12 25 06.06	-10 35 37.5			903
C/1998 T1	2000 03 14.71413	12 25 04.15	-10 35 24.3	16.5 T		903
C/1998 T1	2000 03 17.32443	12 19 50.01	-09 58 28.2	17.1 T		704
C/1998 T1	2000 03 17.33768	12 19 48.43	-09 58 17.0	17.1 T		704
C/1998 T1	2000 03 17.35069	12 19 46.85	-09 58 05.6	17.1 T		704
C/1998 T1	2000 03 17.37717	12 19 43.59	-09 57 42.9	17.1 T		704
C/1998 T1	2000 03 18.34305	12 17 48.19	-09 43 57.6	17.1 T		704
C/1998 T1	2000 03 18.35971	12 17 46.13	-09 43 41.9	17.2 T		704
C/1998 T1	2000 03 18.38441	12 17 43.15	-09 43 16.3	17.7 T		704
C/1999 E1 (Li)						
C/1999 E1	2000 02 27.28832	10 20 41.62	+35 38 56.3	16.7 T		704
C/1999 E1	2000 02 27.30288	10 20 41.15	+35 39 02.9	17.4 T		704
C/1999 E1	2000 02 27.31647	10 20 40.68	+35 39 09.6	17.4 T		704
C/1999 E1	2000 02 27.33049	10 20 40.27	+35 39 15.8	16.8 T		704
C/1999 E1	2000 02 27.34407	10 20 39.71	+35 39 21.3	16.6 T		704
C/1999 E1	2000 03 02.60122	10 18 25.86	+36 08 02.0	16.5 T		360
C/1999 E1	2000 03 02.60503	10 18 25.74	+36 08 03.5			360

C/1999 E1	2000 03 07.93048	10 15 44.89	+36 39 47.1	16.7 T	049
C/1999 E1	2000 03 07.93445	10 15 44.78	+36 39 48.3	16.7 T	049
C/1999 E1	2000 03 07.93849	10 15 44.67	+36 39 49.7	16.8 T	049
C/1999 E1	2000 03 11.18529	10 14 12.01	+36 56 53.9	16.2 T	703
C/1999 E1	2000 03 11.20101	10 14 11.51	+36 56 59.3	16.2 T	703
C/1999 E1	2000 03 11.21669	10 14 11.10	+36 57 03.7	16.2 T	703
C/1999 E1	2000 03 11.23236	10 14 10.64	+36 57 08.2	16.3 T	703
C/1999 E1	2000 03 11.91010	10 13 52.06	+37 00 28.5	17.6 T	1 049
C/1999 E1	2000 03 11.91608	10 13 51.87	+37 00 30.3	17.2 T	1 049
C/1999 E1	2000 03 11.92159	10 13 51.74	+37 00 31.4	16.9 T	049
C/1999 E1	2000 03 13.63542	10 13 05.43	+37 08 39.3	16.6 T	360
C/1999 E1	2000 03 13.63924	10 13 05.33	+37 08 40.3		360
C/1999 E1	2000 03 14.52905	10 12 42.06	+37 12 40.5		355
C/1999 E1	2000 03 14.53362	10 12 41.95	+37 12 42.2		355
C/1999 E1	2000 03 14.53561	10 12 41.88	+37 12 41.9		355

C/1999 E2 (SOHO)

C/1999 E2	1999 03 02.51256	23 19 04.6	-08 35 10		249
Geocentric position (AU)	+0.00867872	-0.00060029	+0.00036958		
C/1999 E2	1999 03 02.52923	23 18 57.0	-08 34 08		249
Geocentric position (AU)	+0.00867976	-0.00059600	+0.00037113		
C/1999 E2	1999 03 02.57090	23 18 22.3	-08 31 10		249
Geocentric position (AU)	+0.00868238	-0.00058527	+0.00037498		
C/1999 E2	1999 03 02.61257	23 17 49.5	-08 28 05		249
Geocentric position (AU)	+0.00868498	-0.00057454	+0.00037882		
C/1999 E2	1999 03 02.63756	23 17 30.0	-08 25 32		249
Geocentric position (AU)	+0.00868654	-0.00056811	+0.00038113		
C/1999 E2	1999 03 02.65423	23 17 18.5	-08 24 34		249
Geocentric position (AU)	+0.00868757	-0.00056382	+0.00038267		
C/1999 E2	1999 03 02.67923	23 16 57.6	-08 22 35		249
Geocentric position (AU)	+0.00868912	-0.00055738	+0.00038497		
C/1999 E2	1999 03 02.69590	23 16 44.6	-08 21 21		249
Geocentric position (AU)	+0.00869016	-0.00055309	+0.00038651		
C/1999 E2	1999 03 02.72090	23 16 25.3	-08 19 32		249
Geocentric position (AU)	+0.00869170	-0.00054666	+0.00038881		
C/1999 E2	1999 03 02.76258	23 15 51.0	-08 16 06		249
Geocentric position (AU)	+0.00869427	-0.00053594	+0.00039265		
C/1999 E2	1999 03 02.77923	23 15 36.9	-08 14 45		249
Geocentric position (AU)	+0.00869529	-0.00053166	+0.00039418		
C/1999 E2	1999 03 02.82090	23 15 02.7	-08 10 52		249
Geocentric position (AU)	+0.00869785	-0.00052095	+0.00039801		

C/1999 F1 (Catalina)

C/1999 F1	2000 02 29.76493	13 03 12.83	-26 14 09.7	17.4 T	360
C/1999 F1	2000 02 29.76944	13 03 12.66	-26 14 10.0		360
C/1999 F1	2000 03 01.72398	13 02 39.51	-26 16 53.3	17.8 T	402
C/1999 F1	2000 03 01.72627	13 02 39.41	-26 16 53.5		402
C/1999 F1	2000 03 01.72858	13 02 39.34	-26 16 54.0		402
C/1999 F1	2000 03 06.65936	12 59 40.09	-26 29 55.5	16.7 N	474
C/1999 F1	2000 03 06.66213	12 59 39.99	-26 29 56.1	16.9 N	474
C/1999 F1	2000 03 06.66484	12 59 39.90	-26 29 56.3	16.7 N	474
C/1999 F1	2000 03 13.70087	12 55 03.80	-26 45 33.1	17.3 T	360
C/1999 F1	2000 03 13.70486	12 55 03.61	-26 45 33.5		360

C/1999 F2 (Dalcanton)

C/1999 F2	2000 03 01.77227	17 25 46.05	+18 46 42.0	17.6 T	402
C/1999 F2	2000 03 01.77686	17 25 46.21	+18 46 44.4		402
C/1999 F2	2000 03 01.78147	17 25 46.41	+18 46 47.2		402
C/1999 F2	2000 03 13.77726	17 29 31.77	+20 29 00.8	17.8 T	360
C/1999 F2	2000 03 13.78212	17 29 31.84	+20 29 03.0		360
C/1999 F2	2000 03 13.78594	17 29 31.92	+20 29 05.2		360
C/1999 F2	2000 03 14.78729	17 29 46.66	+20 37 46.8	17.7 T	402
C/1999 F2	2000 03 14.78951	17 29 46.70	+20 37 48.4		402
C/1999 F2	2000 03 14.79177	17 29 46.74	+20 37 49.3		402

C/1999 H3 (LINEAR)

C/1999 H3	2000 02 17.70199	13 43 58.80	+39 22 10.6		349
C/1999 H3	2000 02 17.70590	13 43 58.38	+39 22 12.5		349
C/1999 H3	2000 02 17.71676	13 43 57.21	+39 22 19.6	14.5 T	349
C/1999 H3	2000 02 19.08325	13 41 27.38	+39 36 09.9	14.3 N	170
C/1999 H3	2000 02 19.09255	13 41 26.31	+39 36 15.8	14.4 N	170
C/1999 H3	2000 02 19.10323	13 41 25.09	+39 36 22.2	14.1 N	170
C/1999 H3	2000 02 26.02899	13 27 43.48	+40 41 40.7	14.5 T	610
C/1999 H3	2000 02 26.03245	13 27 43.09	+40 41 42.1		610
C/1999 H3	2000 02 26.03591	13 27 42.69	+40 41 43.5		610
C/1999 H3	2000 02 26.03938	13 27 42.30	+40 41 44.9		610
C/1999 H3	2000 02 26.04284	13 27 41.90	+40 41 46.3		610
C/1999 H3	2000 02 27.65955	13 24 15.90	+40 55 34.5		349
C/1999 H3	2000 02 27.66102	13 24 15.65	+40 55 35.1		349
C/1999 H3	2000 02 27.66515	13 24 15.14	+40 55 37.6	14.5 T	349
C/1999 H3	2000 02 28.07326	13 23 22.30	+40 59 00.1		611
C/1999 H3	2000 02 28.08397	13 23 20.90	+40 59 05.4		611
C/1999 H3	2000 02 28.65235	13 22 07.00	+41 03 42.1	14.2 T	355
C/1999 H3	2000 02 28.65755	13 22 06.34	+41 03 44.7		355
C/1999 H3	2000 02 28.66006	13 22 06.02	+41 03 45.6		355
C/1999 H3	2000 02 29.72726	13 19 45.34	+41 12 14.0	14.5 T	360
C/1999 H3	2000 02 29.72969	13 19 45.00	+41 12 15.1		360
C/1999 H3	2000 02 29.74787	13 19 42.64	+41 12 23.1		349
C/1999 H3	2000 02 29.75127	13 19 42.16	+41 12 24.3		349
C/1999 H3	2000 02 29.75406	13 19 41.76	+41 12 26.0	14.5 T	349
C/1999 H3	2000 03 02.21577	13 16 26.24	+41 23 28.0	17.5 T	750
C/1999 H3	2000 03 02.22769	13 16 24.64	+41 23 32.4	17.5 T	750
C/1999 H3	2000 03 04.04494	13 12 16.36	+41 36 23.4	14.9 N	170
C/1999 H3	2000 03 07.21695	13 04 51.88	+41 56 11.7	18.7 T	750
C/1999 H3	2000 03 07.22219	13 04 51.22	+41 56 13.9	16.5 T	750
C/1999 H3	2000 03 07.59211	13 03 58.58	+41 58 18.5		903
C/1999 H3	2000 03 07.59545	13 03 58.00	+41 58 19.6		903
C/1999 H3	2000 03 07.59859	13 03 57.58	+41 58 20.0	14.2 T	903
C/1999 H3	2000 03 08.65480	13 01 26.25	+42 04 02.7	15.2 T	355
C/1999 H3	2000 03 08.65605	13 01 26.06	+42 04 03.5		355
C/1999 H3	2000 03 08.65735	13 01 25.87	+42 04 03.8		355
C/1999 H3	2000 03 10.09242	12 57 58.42	+42 11 07.6	15.2 N	170
C/1999 H3	2000 03 14.61072	12 46 55.01	+42 28 16.2		355
C/1999 H3	2000 03 14.61233	12 46 54.79	+42 28 16.9		355
C/1999 H3	2000 03 14.61399	12 46 54.50	+42 28 17.0		355
C/1999 H3	2000 03 14.67529	12 46 45.36	+42 28 27.4	13.9 T	402
C/1999 H3	2000 03 14.67648	12 46 45.18	+42 28 27.7		402

C/1999 H3	2000 03 14.67766	12 46 45.02	+42 28 27.7		402
C/1999 H3	2000 03 14.77431	12 46 30.57	+42 28 44.5	14.7 T	360
C/1999 H3	2000 03 14.77708	12 46 30.17	+42 28 44.9		360
C/1999 H3	2000 03 17.26335	12 40 21.04	+42 34 33.4	17.9 T	750
C/1999 H3	2000 03 17.26799	12 40 20.31	+42 34 33.9	17.0 T	750
C/1999 H3	2000 03 17.27661	12 40 19.10	+42 34 34.5	17.0 T	750
C/1999 H3	2000 03 17.31897	12 40 12.85	+42 34 39.5	16.2 T	704
C/1999 H3	2000 03 17.33215	12 40 10.80	+42 34 41.3	15.9 T	704
C/1999 H3	2000 03 17.34534	12 40 08.84	+42 34 42.2	16.1 T	704
C/1999 H3	2000 03 17.35826	12 40 06.90	+42 34 43.6	16.4 T	704
C/1999 H3	2000 03 17.37121	12 40 04.89	+42 34 44.7	15.7 T	704

C/1999 J2 (Skiff)

C/1999 J2	1999 05 23.39163	16 44 33.13	+63 32 09.0	15.2 T	697
C/1999 J2	1999 05 23.39709	16 44 32.66	+63 32 08.3	15.2 T	697
C/1999 J2	1999 05 23.40322	16 44 32.12	+63 32 07.6	15.2 T	697
C/1999 J2	1999 05 23.40757	16 44 31.75	+63 32 06.9		697
C/1999 J2	1999 05 23.41117	16 44 31.44	+63 32 06.5		697
C/1999 J2	1999 05 23.41451	16 44 31.17	+63 32 06.1		697
C/1999 J2	1999 05 23.41735	16 44 30.89	+63 32 05.7	15.2 T	697
C/1999 J2	2000 02 11.81207	16 39 03.51	+35 27 03.9		349
C/1999 J2	2000 02 11.81371	16 39 03.49	+35 27 04.0	15.9 T	349
C/1999 J2	2000 02 27.69926	16 39 17.63	+36 10 17.7		349
C/1999 J2	2000 02 27.70475	16 39 17.62	+36 10 18.3	15.4 T	349
C/1999 J2	2000 02 29.77693	16 39 06.14	+36 16 36.6	15.4 T	349
C/1999 J2	2000 02 29.77809	16 39 06.10	+36 16 37.4		349
C/1999 J2	2000 02 29.78610	16 39 06.01	+36 16 38.5		349
C/1999 J2	2000 03 05.12570	16 38 31.16	+36 30 06.5	15.3 T	049
C/1999 J2	2000 03 05.13575	16 38 31.07	+36 30 08.3	15.1 T	049
C/1999 J2	2000 03 05.14086	16 38 31.00	+36 30 08.1	15.7 T	049
C/1999 J2	2000 03 08.82325	16 37 49.83	+36 41 45.4		903
C/1999 J2	2000 03 08.83601	16 37 49.63	+36 41 46.8	15.6 T	903
C/1999 J2	2000 03 10.15101	16 37 32.37	+36 45 54.5	14.6 N	170
C/1999 J2	2000 03 13.76701	16 36 37.86	+36 57 16.7	15.7 T	360
C/1999 J2	2000 03 13.76944	16 36 37.80	+36 57 17.0		360
C/1999 J2	2000 03 14.77376	16 36 20.77	+37 00 25.2	15.6 T	402
C/1999 J2	2000 03 14.77493	16 36 20.74	+37 00 25.5		402
C/1999 J2	2000 03 14.77729	16 36 20.70	+37 00 25.8		402
C/1999 J2	2000 03 17.33332	16 35 33.79	+37 08 19.7	16.5 T	750
C/1999 J2	2000 03 17.35090	16 35 33.50	+37 08 23.1	16.9 T	750

C/1999 J3 (LINEAR)

C/1999 J3	2000 02 28.45065	01 14 35.80	-59 56 58.5	17.7 N	413
C/1999 J3	2000 02 28.45959	01 14 36.64	-59 56 57.6	18.1 N	413
C/1999 J3	2000 02 28.46351	01 14 36.99	-59 56 56.9	17.4 N	413

C/1999 K5 (LINEAR)

C/1999 K5	2000 02 26.78655	20 35 01.85	-46 36 29.2	14.7 N	413
C/1999 K5	2000 02 26.79038	20 35 02.23	-46 36 31.8	14.3 N	413
C/1999 K5	2000 02 26.79203	20 35 02.38	-46 36 32.5	14.8 N	413

C/1999 L3 (LINEAR)

C/1999 L3	2000 02 11.72545	07 59 45.45	+25 49 36.2		349
C/1999 L3	2000 02 11.72646	07 59 45.00	+25 49 37.8		349
C/1999 L3	2000 02 11.73032	07 59 43.40	+25 49 43.8	12.6 T	349

C/1999 L3	2000 02 12.50501	07 54 25.93	+26 10 52.0		349
C/1999 L3	2000 02 12.51171	07 54 23.20	+26 11 02.5		349
C/1999 L3	2000 02 12.51611	07 54 21.37	+26 11 10.0	13.0 T	349
C/1999 L3	2000 02 17.68689	07 21 30.94	+28 02 29.9		349
C/1999 L3	2000 02 17.68854	07 21 30.35	+28 02 31.7	13.4 T	349
C/1999 L3	2000 02 17.69312	07 21 28.75	+28 02 36.3		349
C/1999 L3	2000 02 20.43550	07 06 06.04	+28 43 29.1	13.7 T	349
C/1999 L3	2000 02 20.43795	07 06 05.19	+28 43 31.1		349
C/1999 L3	2000 02 20.45353	07 06 00.18	+28 43 43.4		349
C/1999 L3	2000 02 21.43490	07 00 51.47	+28 55 47.3	14.5 T	372
C/1999 L3	2000 02 21.85399	06 58 43.06	+29 00 31.5		565
C/1999 L3	2000 02 21.86845	06 58 38.64	+29 00 41.0		565
C/1999 L3	2000 02 21.89402	06 58 30.86	+29 00 58.2		565
C/1999 L3	2000 02 23.91779	06 48 40.65	+29 21 09.1		170
C/1999 L3	2000 02 23.93044	06 48 37.21	+29 21 13.3	13.9 N	170
C/1999 L3	2000 02 23.94515	06 48 33.26	+29 21 21.5	13.9 N	170
C/1999 L3	2000 02 25.81103	06 40 11.45	+29 36 11.7	13.8 T	610
C/1999 L3	2000 02 25.81519	06 40 10.39	+29 36 13.4		610
C/1999 L3	2000 02 25.81934	06 40 09.32	+29 36 15.2		610
C/1999 L3	2000 02 25.82350	06 40 08.26	+29 36 16.9		610
C/1999 L3	2000 02 25.82765	06 40 07.20	+29 36 18.6		610
C/1999 L3	2000 02 26.90699	06 35 34.73	+29 43 29.8	13.2 N	170
C/1999 L3	2000 02 26.91360	06 35 33.09	+29 43 31.1	13.5 N	170
C/1999 L3	2000 02 27.42591	06 33 28.47	+29 46 39.4	14.4 T	349
C/1999 L3	2000 02 27.43080	06 33 27.32	+29 46 40.3		349
C/1999 L3	2000 02 27.43465	06 33 26.36	+29 46 41.7		349
C/1999 L3	2000 02 27.50712	06 33 08.73	+29 47 06.9	14.6 T	360
C/1999 L3	2000 02 27.50955	06 33 08.14	+29 47 07.8		360
C/1999 L3	2000 02 27.78889	06 32 01.67	+29 48 40.8	14.9 T	610
C/1999 L3	2000 02 27.79513	06 32 00.15	+29 48 43.4		610
C/1999 L3	2000 02 27.80137	06 31 58.63	+29 48 46.0		610
C/1999 L3	2000 02 27.80760	06 31 57.11	+29 48 48.6		610
C/1999 L3	2000 02 27.81384	06 31 55.59	+29 48 51.2		610
C/1999 L3	2000 03 01.54031	06 21 47.53	+30 01 36.3	14.6 T	348
C/1999 L3	2000 03 01.54610	06 21 46.25	+30 01 38.2		348
C/1999 L3	2000 03 02.55311	06 18 20.22	+30 05 16.8	14.8 T	348
C/1999 L3	2000 03 02.55977	06 18 18.95	+30 05 18.2		348
C/1999 L3	2000 03 03.79132	06 14 20.05	+30 09 05.4	14.5 N	170
C/1999 L3	2000 03 03.79988	06 14 18.42	+30 09 06.8	14.2 N	170
C/1999 L3	2000 03 03.85247	06 14 08.39	+30 09 15.5	14.4 N	170
C/1999 L3	2000 03 06.19626	06 07 11.05	+30 14 46.7	16.8 T	750
C/1999 L3	2000 03 06.20303	06 07 09.90	+30 14 47.1	16.7 T	750
C/1999 L3	2000 03 06.21330	06 07 08.21	+30 14 49.1	17.0 T	750
C/1999 L3	2000 03 07.08362	06 04 45.07	+30 16 23.5	16.6 T	750
C/1999 L3	2000 03 07.09454	06 04 43.30	+30 16 24.5	17.2 T	750
C/1999 L3	2000 03 07.09827	06 04 42.77	+30 16 25.1	16.4 T	750
C/1999 L3	2000 03 07.10598	06 04 41.52	+30 16 25.8	16.6 T	750
C/1999 L3	2000 03 08.78759	06 00 21.77	+30 18 53.4	14.4 N	170
C/1999 L3	2000 03 08.80976	06 00 18.34	+30 18 55.1	14.5 N	170
C/1999 L3	2000 03 08.84855	06 00 12.68	+30 18 57.5	14.6 N	170
C/1999 L3	2000 03 09.54583	05 58 31.09	+30 19 46.1	14.8 T	360
C/1999 L3	2000 03 09.54826	05 58 30.72	+30 19 46.1		360
C/1999 L3	2000 03 12.10829	05 52 47.72	+30 21 57.2	16.8 T	704

C/1999 L3	2000 03 12.12188	05 52 45.95	+30 21 58.4	17.8 T	704
C/1999 L3	2000 03 12.13484	05 52 44.14	+30 21 58.1	18.3 T	704
C/1999 L3	2000 03 12.14794	05 52 42.61	+30 21 58.4	18.8 T	704
C/1999 L3	2000 03 12.16114	05 52 40.84	+30 21 58.1	18.9 T	704

C/1999 L5 (SOHO)

C/1999 L5	1999 06 10.61256	05 10 07.5	+20 13 08		249
Geocentric position (AU)	+0.00539140	+0.00922654	+0.00330070		
C/1999 L5	1999 06 10.63756	05 10 13.2	+20 17 05		249
Geocentric position (AU)	+0.00538934	+0.00922707	+0.00330146		
C/1999 L5	1999 06 10.65423	05 10 16.4	+20 18 35		249
Geocentric position (AU)	+0.00538797	+0.00922742	+0.00330198		
C/1999 L5	1999 06 10.67923	05 10 17.2	+20 22 21		249
Geocentric position (AU)	+0.00538591	+0.00922794	+0.00330274		
C/1999 L5	1999 06 10.69590	05 10 19.9	+20 24 22		249
Geocentric position (AU)	+0.00538453	+0.00922829	+0.00330325		
C/1999 L5	1999 06 10.72090	05 10 20.2	+20 27 58		249
Geocentric position (AU)	+0.00538246	+0.00922881	+0.00330402		
C/1999 L5	1999 06 10.73756	05 10 23.3	+20 29 54		249
Geocentric position (AU)	+0.00538108	+0.00922916	+0.00330453		
C/1999 L5	1999 06 10.77923	05 10 29.6	+20 35 40		249
Geocentric position (AU)	+0.00537762	+0.00923003	+0.00330581		
C/1999 L5	1999 06 10.82090	05 10 36.7	+20 41 40		249
Geocentric position (AU)	+0.00537415	+0.00923090	+0.00330709		
C/1999 L5	1999 06 10.84590	05 10 38.8	+20 45 29		249
Geocentric position (AU)	+0.00537206	+0.00923141	+0.00330786		
C/1999 L5	1999 06 10.86257	05 10 41.2	+20 48 16		249
Geocentric position (AU)	+0.00537067	+0.00923176	+0.00330837		
C/1999 L5	1999 06 10.88756	05 10 44.6	+20 51 37		249
Geocentric position (AU)	+0.00536858	+0.00923228	+0.00330914		
C/1999 L5	1999 06 10.90423	05 10 45.8	+20 54 33		249
Geocentric position (AU)	+0.00536719	+0.00923262	+0.00330965		
C/1999 L5	1999 06 10.92923	05 10 50.1	+20 58 21		249
Geocentric position (AU)	+0.00536509	+0.00923314	+0.00331042		
C/1999 L5	1999 06 10.97099	05 10 56.2	+21 04 49		249
Geocentric position (AU)	+0.00536159	+0.00923399	+0.00331171		
C/1999 L5	1999 06 10.98756	05 11 00.1	+21 07 47		249
Geocentric position (AU)	+0.00536019	+0.00923433	+0.00331222		
C/1999 L5	1999 06 11.01256	05 11 03.8	+21 11 28		249
Geocentric position (AU)	+0.00535809	+0.00923485	+0.00331298		
C/1999 L5	1999 06 11.02923	05 11 09.3	+21 14 48		249
Geocentric position (AU)	+0.00535668	+0.00923519	+0.00331350		
C/1999 L5	1999 06 11.03478	05 11 08.4	+21 15 13		249
Geocentric position (AU)	+0.00535621	+0.00923530	+0.00331367		
C/1999 L5	1999 06 11.06029	05 11 11.9	+21 19 32		249
Geocentric position (AU)	+0.00535406	+0.00923582	+0.00331445		
C/1999 L5	1999 06 11.07090	05 11 14.0	+21 21 25		249
Geocentric position (AU)	+0.00535317	+0.00923604	+0.00331478		
C/1999 L5	1999 06 11.07645	05 11 15.2	+21 22 16		249
Geocentric position (AU)	+0.00535269	+0.00923615	+0.00331495		
C/1999 L5	1999 06 11.08757	05 11 17.0	+21 24 20		249
Geocentric position (AU)	+0.00535175	+0.00923638	+0.00331529		

C/1999 L5	1999 06 11.09590	05 11 18.3	+21 25 29		249
Geocentric position (AU)	+0.00535105	+0.00923654	+0.00331555		
C/1999 L5	1999 06 11.10145	05 11 20.0	+21 26 40		249
Geocentric position (AU)	+0.00535058	+0.00923666	+0.00331572		
C/1999 L5	1999 06 11.11257	05 11 23.2	+21 28 43		249
Geocentric position (AU)	+0.00534964	+0.00923688	+0.00331606		
C/1999 L5	1999 06 11.13757	05 11 28.5	+21 33 16		249
Geocentric position (AU)	+0.00534752	+0.00923739	+0.00331683		
C/1999 L5	1999 06 11.14312	05 11 28.9	+21 34 24		249
Geocentric position (AU)	+0.00534705	+0.00923750	+0.00331700		
C/1999 L5	1999 06 11.15423	05 11 32.2	+21 36 06		249
Geocentric position (AU)	+0.00534610	+0.00923773	+0.00331734		
C/1999 L5	1999 06 11.15979	05 11 32.6	+21 37 16		249
Geocentric position (AU)	+0.00534563	+0.00923784	+0.00331751		
C/1999 L5	1999 06 11.17923	05 11 37.3	+21 40 48		249
Geocentric position (AU)	+0.00534398	+0.00923823	+0.00331811		
C/1999 L5	1999 06 11.18478	05 11 36.7	+21 42 39		249
Geocentric position (AU)	+0.00534350	+0.00923835	+0.00331828		
C/1999 L5	1999 06 11.19590	05 11 42.5	+21 44 08		249
Geocentric position (AU)	+0.00534256	+0.00923857	+0.00331862		
C/1999 L5	1999 06 11.20166	05 11 43.0	+21 45 13		249
Geocentric position (AU)	+0.00534207	+0.00923869	+0.00331880		
C/1999 L5	1999 06 11.21256	05 11 45.9	+21 47 22		249
Geocentric position (AU)	+0.00534114	+0.00923891	+0.00331914		
C/1999 L5	1999 06 11.22090	05 11 47.3	+21 49 39		249
Geocentric position (AU)	+0.00534043	+0.00923907	+0.00331939		
C/1999 L5	1999 06 11.22645	05 11 49.5	+21 50 09		249
Geocentric position (AU)	+0.00533996	+0.00923918	+0.00331957		
C/1999 L5	1999 06 11.23756	05 11 53.3	+21 51 57		249
Geocentric position (AU)	+0.00533901	+0.00923941	+0.00331991		
C/1999 L5	1999 06 11.24312	05 11 54.2	+21 53 28		249
Geocentric position (AU)	+0.00533853	+0.00923952	+0.00332008		
C/1999 L5	1999 06 11.25423	05 11 57.5	+21 55 44		249
Geocentric position (AU)	+0.00533758	+0.00923974	+0.00332042		
C/1999 L5	1999 06 11.26812	05 12 01.4	+21 58 35		249
Geocentric position (AU)	+0.00533640	+0.00924002	+0.00332085		
C/1999 L5	1999 06 11.28501	05 12 07.1	+22 02 09		249
Geocentric position (AU)	+0.00533495	+0.00924036	+0.00332137		
C/1999 L5	1999 06 11.31029	05 12 15.8	+22 07 36		249
Geocentric position (AU)	+0.00533279	+0.00924086	+0.00332215		

C/1999 N4 (LINEAR)

C/1999 N4	2000 03 13.79583	18 17 38.20	-00 52 42.3	17.2 T	360
C/1999 N4	2000 03 13.80104	18 17 38.11	-00 52 40.5		360
C/1999 N4	2000 03 13.80694	18 17 37.99	-00 52 39.1		360
C/1999 N4	2000 03 14.80367	18 17 21.54	-00 48 01.5	18.7 T	402
C/1999 N4	2000 03 14.80589	18 17 21.49	-00 48 01.5		402
C/1999 N4	2000 03 14.80811	18 17 21.47	-00 48 00.4		402
C/1999 N4	2000 03 14.83403	18 17 21.00	-00 47 53.1	17.1 T	360
C/1999 N4	2000 03 14.83889	18 17 20.90	-00 47 51.9		360

C/1999 O2 (SOHO)

C/1999 O2	1999 07 21.88757	07 49 30.1	+18 12 43		249
Geocentric position (AU)	-0.00126751	+0.00834685	+0.00408840		

C/1999 O2	1999 07 21.90425	07 49 43.2	+18 14 56	249
Geocentric position (AU)	-0.00127135	+0.00834522	+0.00408812	
C/1999 O2	1999 07 21.92923	07 50 07.8	+18 18 28	249
Geocentric position (AU)	-0.00127710	+0.00834278	+0.00408771	
C/1999 O2	1999 07 21.97100	07 50 45.3	+18 24 18	249
Geocentric position (AU)	-0.00128672	+0.00833870	+0.00408702	
C/1999 O2	1999 07 21.98756	07 51 01.6	+18 26 39	249
Geocentric position (AU)	-0.00129054	+0.00833708	+0.00408674	
C/1999 O2	1999 07 22.02923	07 51 41.9	+18 33 05	249
Geocentric position (AU)	-0.00130013	+0.00833300	+0.00408604	
C/1999 O2	1999 07 22.07091	07 52 26.1	+18 39 53	249
Geocentric position (AU)	-0.00130973	+0.00832891	+0.00408534	
C/1999 O2	1999 07 22.09590	07 52 52.5	+18 43 50	249
Geocentric position (AU)	-0.00131549	+0.00832645	+0.00408491	
C/1999 O2	1999 07 22.11256	07 53 13.0	+18 47 02	249
Geocentric position (AU)	-0.00131933	+0.00832481	+0.00408463	
C/1999 O2	1999 07 22.13756	07 53 39.4	+18 51 01	249
Geocentric position (AU)	-0.00132509	+0.00832235	+0.00408420	
C/1999 O2	1999 07 22.15423	07 53 58.3	+18 53 32	249
Geocentric position (AU)	-0.00132893	+0.00832070	+0.00408392	
C/1999 O2	1999 07 22.22090	07 55 15.8	+19 05 58	249
Geocentric position (AU)	-0.00134430	+0.00831412	+0.00408277	
C/1999 O2	1999 07 22.23756	07 55 38.4	+19 08 35	249
Geocentric position (AU)	-0.00134814	+0.00831247	+0.00408248	
C/1999 O2	1999 07 22.26256	07 56 10.7	+19 13 40	249
Geocentric position (AU)	-0.00135390	+0.00830999	+0.00408204	

C/1999 O3 (SOHO)

C/1999 O3	1999 07 31.44590	08 22 25.2	+16 25 01	249
Geocentric position (AU)	-0.00350719	+0.00721204	+0.00380255	
C/1999 O3	1999 07 31.47090	08 22 46.7	+16 27 21	249
Geocentric position (AU)	-0.00351315	+0.00720849	+0.00380144	
C/1999 O3	1999 07 31.48757	08 23 00.2	+16 29 24	249
Geocentric position (AU)	-0.00351712	+0.00720613	+0.00380070	
C/1999 O3	1999 07 31.51257	08 23 25.6	+16 31 14	249
Geocentric position (AU)	-0.00352308	+0.00720257	+0.00379958	
C/1999 O3	1999 07 31.52923	08 23 38.3	+16 32 32	249
Geocentric position (AU)	-0.00352705	+0.00720020	+0.00379883	
C/1999 O3	1999 07 31.57090	08 24 19.8	+16 36 56	249
Geocentric position (AU)	-0.00353698	+0.00719427	+0.00379697	
C/1999 O3	1999 07 31.59590	08 24 43.5	+16 39 00	249
Geocentric position (AU)	-0.00354294	+0.00719070	+0.00379584	
C/1999 O3	1999 07 31.61256	08 24 58.4	+16 40 52	249
Geocentric position (AU)	-0.00354692	+0.00718832	+0.00379509	
C/1999 O3	1999 07 31.63756	08 25 22.7	+16 42 58	249
Geocentric position (AU)	-0.00355288	+0.00718475	+0.00379397	
C/1999 O3	1999 07 31.65423	08 25 39.0	+16 44 45	249
Geocentric position (AU)	-0.00355685	+0.00718237	+0.00379321	
C/1999 O3	1999 07 31.67923	08 26 04.5	+16 47 12	249
Geocentric position (AU)	-0.00356281	+0.00717879	+0.00379208	
C/1999 O3	1999 07 31.69590	08 26 20.5	+16 49 07	249
Geocentric position (AU)	-0.00356678	+0.00717641	+0.00379133	

C/1999 O3	1999 07 31.72090	08 26 45.9	+16 51 32	249
Geocentric position (AU)	-0.00357275	+0.00717282	+0.00379020	
C/1999 O3	1999 07 31.73758	08 27 04.2	+16 53 26	249
Geocentric position (AU)	-0.00357672	+0.00717043	+0.00378944	
C/1999 O3	1999 07 31.76256	08 27 29.7	+16 55 54	249
Geocentric position (AU)	-0.00358268	+0.00716685	+0.00378830	
C/1999 O3	1999 07 31.77923	08 27 48.5	+16 57 47	249
Geocentric position (AU)	-0.00358666	+0.00716445	+0.00378754	
C/1999 O3	1999 07 31.82090	08 28 33.0	+17 02 04	249
Geocentric position (AU)	-0.00359659	+0.00715846	+0.00378564	
C/1999 O3	1999 07 31.84590	08 29 01.5	+17 05 01	249
Geocentric position (AU)	-0.00360256	+0.00715486	+0.00378449	
C/1999 O3	1999 07 31.86256	08 29 21.5	+17 07 03	249
Geocentric position (AU)	-0.00360653	+0.00715246	+0.00378373	
C/1999 O3	1999 07 31.88756	08 29 50.9	+17 09 35	249
Geocentric position (AU)	-0.00361249	+0.00714885	+0.00378258	
C/1999 O3	1999 07 31.90423	08 30 11.4	+17 11 34	249
Geocentric position (AU)	-0.00361647	+0.00714644	+0.00378182	
C/1999 O3	1999 07 31.92924	08 30 40.6	+17 14 33	249
Geocentric position (AU)	-0.00362244	+0.00714283	+0.00378066	
C/1999 O3	1999 07 31.97099	08 31 33.9	+17 20 03	249
Geocentric position (AU)	-0.00363240	+0.00713679	+0.00377873	
C/1999 O3	1999 07 31.98757	08 31 56.2	+17 21 45	249
Geocentric position (AU)	-0.00363635	+0.00713439	+0.00377797	
C/1999 O3	1999 08 01.01258	08 32 30.9	+17 24 51	249
Geocentric position (AU)	-0.00364232	+0.00713076	+0.00377681	
C/1999 O3	1999 08 01.02923	08 32 51.6	+17 26 52	249
Geocentric position (AU)	-0.00364629	+0.00712835	+0.00377603	
C/1999 O3	1999 08 01.07090	08 33 52.0	+17 32 06	249
Geocentric position (AU)	-0.00365624	+0.00712229	+0.00377410	
C/1999 O3	1999 08 01.09590	08 34 29.9	+17 35 22	249
Geocentric position (AU)	-0.00366220	+0.00711866	+0.00377293	

C/1999 P4 (SOHO)

C/1999 P4	1999 08 09.42927	08 58 11.6	+14 39 01	249
Geocentric position (AU)	-0.00562007	+0.00567997	+0.00324989	
C/1999 P4	1999 08 09.44591	08 58 27.2	+14 39 53	249
Geocentric position (AU)	-0.00562379	+0.00567663	+0.00324856	
C/1999 P4	1999 08 09.47090	08 58 54.3	+14 42 32	249
Geocentric position (AU)	-0.00562938	+0.00567159	+0.00324656	
C/1999 P4	1999 08 09.48756	08 59 16.0	+14 43 50	249
Geocentric position (AU)	-0.00563310	+0.00566824	+0.00324523	
C/1999 P4	1999 08 09.52923	09 00 04.9	+14 46 59	249
Geocentric position (AU)	-0.00564240	+0.00565983	+0.00324189	
C/1999 P4	1999 08 09.57090	09 00 51.0	+14 51 25	249
Geocentric position (AU)	-0.00565169	+0.00565142	+0.00323854	
C/1999 P4	1999 08 09.59590	09 01 21.8	+14 53 07	249
Geocentric position (AU)	-0.00565726	+0.00564637	+0.00323653	
C/1999 P4	1999 08 09.61256	09 01 42.9	+14 55 10	249
Geocentric position (AU)	-0.00566098	+0.00564299	+0.00323518	
C/1999 P4	1999 08 09.63787	09 02 11.5	+14 57 21	249
Geocentric position (AU)	-0.00566661	+0.00563787	+0.00323314	

C/1999 P4	1999 08 09.65424	09 02 32.5	+14 58 43	249
Geocentric position (AU)	-0.00567026	+0.00563456	+0.00323182	
C/1999 P4	1999 08 09.67923	09 03 03.3	+15 00 24	249
Geocentric position (AU)	-0.00567581	+0.00562949	+0.00322980	
C/1999 P4	1999 08 09.72090	09 03 59.2	+15 05 22	249
Geocentric position (AU)	-0.00568508	+0.00562104	+0.00322643	
C/1999 P4	1999 08 09.76257	09 04 56.3	+15 08 48	249
Geocentric position (AU)	-0.00569433	+0.00561257	+0.00322305	
C/1999 P4	1999 08 09.77924	09 05 21.5	+15 10 56	249
Geocentric position (AU)	-0.00569803	+0.00560918	+0.00322169	

C/1999 P5 (SOHO)

C/1999 P5	1999 08 12.13757	09 06 19.2	+13 30 14	249
Geocentric position (AU)	-0.00620549	+0.00511234	+0.00301879	
C/1999 P5	1999 08 12.15425	09 06 38.2	+13 32 01	249
Geocentric position (AU)	-0.00620896	+0.00510871	+0.00301728	
C/1999 P5	1999 08 12.17923	09 07 03.1	+13 33 32	249
Geocentric position (AU)	-0.00621415	+0.00510328	+0.00301501	
C/1999 P5	1999 08 12.19590	09 07 19.2	+13 34 36	249
Geocentric position (AU)	-0.00621761	+0.00509966	+0.00301350	
C/1999 P5	1999 08 12.22090	09 07 47.4	+13 36 54	249
Geocentric position (AU)	-0.00622280	+0.00509422	+0.00301123	
C/1999 P5	1999 08 12.23756	09 08 02.0	+13 37 51	249
Geocentric position (AU)	-0.00622625	+0.00509059	+0.00300972	
C/1999 P5	1999 08 12.26256	09 08 31.9	+13 40 09	249
Geocentric position (AU)	-0.00623143	+0.00508514	+0.00300744	
C/1999 P5	1999 08 12.27923	09 08 51.6	+13 41 38	249
Geocentric position (AU)	-0.00623488	+0.00508151	+0.00300593	
C/1999 P5	1999 08 12.32091	09 09 36.1	+13 44 57	249
Geocentric position (AU)	-0.00624351	+0.00507242	+0.00300213	
C/1999 P5	1999 08 12.34590	09 10 03.6	+13 47 11	249
Geocentric position (AU)	-0.00624867	+0.00506696	+0.00299985	
C/1999 P5	1999 08 12.36256	09 10 23.1	+13 48 46	249
Geocentric position (AU)	-0.00625211	+0.00506332	+0.00299833	
C/1999 P5	1999 08 12.38756	09 10 51.9	+13 50 44	249
Geocentric position (AU)	-0.00625727	+0.00505786	+0.00299604	
C/1999 P5	1999 08 12.40423	09 11 12.7	+13 52 22	249
Geocentric position (AU)	-0.00626071	+0.00505422	+0.00299452	
C/1999 P5	1999 08 12.43028	09 11 43.1	+13 54 42	249
Geocentric position (AU)	-0.00626608	+0.00504852	+0.00299213	
C/1999 P5	1999 08 12.44590	09 12 01.4	+13 56 16	249
Geocentric position (AU)	-0.00626929	+0.00504510	+0.00299070	
C/1999 P5	1999 08 12.47090	09 12 34.0	+13 57 59	249
Geocentric position (AU)	-0.00627444	+0.00503963	+0.00298841	
C/1999 P5	1999 08 12.48756	09 12 54.7	+14 00 04	249
Geocentric position (AU)	-0.00627787	+0.00503598	+0.00298688	
C/1999 P5	1999 08 12.51257	09 13 25.0	+14 02 17	249
Geocentric position (AU)	-0.00628301	+0.00503050	+0.00298458	
C/1999 P5	1999 08 12.52925	09 13 48.6	+14 03 46	249
Geocentric position (AU)	-0.00628643	+0.00502685	+0.00298305	
C/1999 P5	1999 08 12.57090	09 14 44.1	+14 07 44	249
Geocentric position (AU)	-0.00629498	+0.00501771	+0.00297921	

C/1999 P5	1999 08 12.59590	09 15 18.8	+14 10 22	249
Geocentric position (AU)	-0.00630010	+0.00501222	+0.00297691	
C/1999 P5	1999 08 12.61256	09 15 43.5	+14 12 11	249
Geocentric position (AU)	-0.00630352	+0.00500856	+0.00297537	

C/1999 Q1 (SOHO)

C/1999 Q1	1999 08 23.82090	09 51 08.8	+10 39 27	249
Geocentric position (AU)	-0.00813570	+0.00237900	+0.00177426	
C/1999 Q1	1999 08 23.88759	09 52 36.6	+10 43 31	249
Geocentric position (AU)	-0.00814388	+0.00236308	+0.00176645	
C/1999 Q1	1999 08 23.90423	09 52 59.0	+10 43 59	249
Geocentric position (AU)	-0.00814592	+0.00235911	+0.00176450	
C/1999 Q1	1999 08 23.92923	09 53 35.9	+10 46 49	249
Geocentric position (AU)	-0.00814898	+0.00235314	+0.00176157	
C/1999 Q1	1999 08 23.97098	09 54 34.3	+10 49 13	249
Geocentric position (AU)	-0.00815407	+0.00234317	+0.00175668	
C/1999 Q1	1999 08 23.98757	09 54 57.7	+10 50 13	249
Geocentric position (AU)	-0.00815609	+0.00233922	+0.00175474	
C/1999 Q1	1999 08 24.01256	09 55 34.0	+10 52 01	249
Geocentric position (AU)	-0.00815914	+0.00233325	+0.00175181	
C/1999 Q1	1999 08 24.02925	09 55 59.9	+10 52 50	249
Geocentric position (AU)	-0.00816116	+0.00232927	+0.00174985	
C/1999 Q1	1999 08 24.07090	09 57 04.6	+10 55 50	249
Geocentric position (AU)	-0.00816622	+0.00231933	+0.00174496	
C/1999 Q1	1999 08 24.09590	09 57 43.6	+10 57 17	249
Geocentric position (AU)	-0.00816925	+0.00231337	+0.00174203	
C/1999 Q1	1999 08 24.11256	09 58 08.7	+10 58 46	249
Geocentric position (AU)	-0.00817127	+0.00230940	+0.00174008	
C/1999 Q1	1999 08 24.13756	09 58 50.4	+11 00 13	249
Geocentric position (AU)	-0.00817429	+0.00230343	+0.00173714	
C/1999 Q1	1999 08 24.15423	09 59 21.1	+11 01 37	249
Geocentric position (AU)	-0.00817630	+0.00229946	+0.00173519	

C/1999 Q2 (SOHO)

C/1999 Q2	1999 08 24.47098	09 54 11.4	+10 10 53	249
Geocentric position (AU)	-0.00821422	+0.00222395	+0.00169797	
C/1999 Q2	1999 08 24.48756	09 54 32.4	+10 12 15	249
Geocentric position (AU)	-0.00821619	+0.00222001	+0.00169602	
C/1999 Q2	1999 08 24.51256	09 55 04.8	+10 14 01	249
Geocentric position (AU)	-0.00821914	+0.00221407	+0.00169308	
C/1999 Q2	1999 08 24.52925	09 55 26.5	+10 14 38	249
Geocentric position (AU)	-0.00822113	+0.00221008	+0.00169111	
C/1999 Q2	1999 08 24.61256	09 57 19.9	+10 20 53	249
Geocentric position (AU)	-0.00823096	+0.00219023	+0.00168130	
C/1999 Q2	1999 08 24.63756	09 57 55.1	+10 22 18	249
Geocentric position (AU)	-0.00823391	+0.00218428	+0.00167836	
C/1999 Q2	1999 08 24.65423	09 58 18.5	+10 23 43	249
Geocentric position (AU)	-0.00823587	+0.00218031	+0.00167639	
C/1999 Q2	1999 08 24.67923	09 58 54.8	+10 25 40	249
Geocentric position (AU)	-0.00823879	+0.00217438	+0.00167346	
C/1999 Q2	1999 08 24.69591	09 59 20.7	+10 27 03	249
Geocentric position (AU)	-0.00824076	+0.00217039	+0.00167148	
C/1999 Q2	1999 08 24.73756	10 00 23.8	+10 30 04	249
Geocentric position (AU)	-0.00824564	+0.00216048	+0.00166657	

C/1999 Q3 (SOHO)

C/1999 Q3	1999 08 30.73757	10 10 21.3	+07 48 58	249
Geocentric position (AU)	-0.00884357	+0.00075084	+0.00094766	
C/1999 Q3	1999 08 30.77923	10 11 09.4	+07 50 49	249
Geocentric position (AU)	-0.00884704	+0.00074117	+0.00094260	
C/1999 Q3	1999 08 30.82090	10 11 57.9	+07 52 41	249
Geocentric position (AU)	-0.00885051	+0.00073151	+0.00093754	
C/1999 Q3	1999 08 30.86256	10 12 45.4	+07 54 38	249
Geocentric position (AU)	-0.00885396	+0.00072184	+0.00093248	
C/1999 Q3	1999 08 30.88757	10 13 17.4	+07 55 44	249
Geocentric position (AU)	-0.00885603	+0.00071604	+0.00092945	
C/1999 Q3	1999 08 30.90424	10 13 36.0	+07 56 59	249
Geocentric position (AU)	-0.00885740	+0.00071218	+0.00092742	
C/1999 Q3	1999 08 30.92923	10 14 07.3	+07 57 53	249
Geocentric position (AU)	-0.00885946	+0.00070640	+0.00092440	
C/1999 Q3	1999 08 30.97098	10 14 57.3	+07 59 41	249
Geocentric position (AU)	-0.00886290	+0.00069670	+0.00091931	
C/1999 Q3	1999 08 30.98756	10 15 18.7	+08 00 32	249
Geocentric position (AU)	-0.00886426	+0.00069286	+0.00091730	
C/1999 Q3	1999 08 31.01257	10 15 50.0	+08 01 49	249
Geocentric position (AU)	-0.00886631	+0.00068708	+0.00091427	
C/1999 Q3	1999 08 31.02715	10 16 09.7	+08 02 34	249
Geocentric position (AU)	-0.00886751	+0.00068368	+0.00091249	
C/1999 Q3	1999 08 31.07090	10 17 06.6	+08 04 49	249
Geocentric position (AU)	-0.00887109	+0.00067354	+0.00090717	
C/1999 Q3	1999 08 31.09590	10 17 37.8	+08 06 10	249
Geocentric position (AU)	-0.00887312	+0.00066776	+0.00090414	
C/1999 Q3	1999 08 31.11257	10 18 00.6	+08 07 01	249
Geocentric position (AU)	-0.00887448	+0.00066388	+0.00090211	
C/1999 Q3	1999 08 31.13756	10 18 36.5	+08 08 31	249
Geocentric position (AU)	-0.00887652	+0.00065809	+0.00089907	
C/1999 Q3	1999 08 31.15423	10 18 57.6	+08 09 23	249
Geocentric position (AU)	-0.00887787	+0.00065423	+0.00089704	
C/1999 Q3	1999 08 31.17948	10 19 32.8	+08 10 42	249
Geocentric position (AU)	-0.00887992	+0.00064839	+0.00089398	
C/1999 Q3	1999 08 31.19594	10 19 56.2	+08 11 30	249
Geocentric position (AU)	-0.00888126	+0.00064456	+0.00089197	
C/1999 Q3	1999 08 31.22090	10 20 32.2	+08 12 53	249
Geocentric position (AU)	-0.00888328	+0.00063878	+0.00088894	
C/1999 Q3	1999 08 31.23756	10 20 55.8	+08 14 03	249
Geocentric position (AU)	-0.00888462	+0.00063492	+0.00088691	
C/1999 Q3	1999 08 31.26256	10 21 33.1	+08 15 21	249
Geocentric position (AU)	-0.00888663	+0.00062915	+0.00088388	
C/1999 Q3	1999 08 31.27715	10 21 54.1	+08 16 14	249
Geocentric position (AU)	-0.00888782	+0.00062575	+0.00088210	
C/1999 Q3	1999 08 31.32090	10 23 00.6	+08 18 42	249
Geocentric position (AU)	-0.00889134	+0.00061562	+0.00087678	
C/1999 Q3	1999 08 31.34590	10 23 40.3	+08 20 13	249
Geocentric position (AU)	-0.00889334	+0.00060985	+0.00087374	
C/1999 Q3	1999 08 31.36256	10 24 07.4	+08 21 26	249
Geocentric position (AU)	-0.00889468	+0.00060597	+0.00087171	
C/1999 Q3	1999 08 31.38757	10 24 47.6	+08 22 53	249
Geocentric position (AU)	-0.00889668	+0.00060018	+0.00086866	

C/1999 Q3	1999 08 31.40423	10 25 14.9	+08 24 11	249
Geocentric position (AU)	-0.00889801	+0.00059632	+0.00086664	
C/1999 Q3	1999 08 31.42928	10 25 58.7	+08 25 21	249
Geocentric position (AU)	-0.00890001	+0.00059054	+0.00086360	
C/1999 Q3	1999 08 31.44590	10 26 29.4	+08 26 45	249
Geocentric position (AU)	-0.00890134	+0.00058667	+0.00086157	

C/1999 R3 (SOHO)

C/1999 R3	1999 09 04.86257	10 25 29.2	+05 39 46	249
Geocentric position (AU)	-0.00919891	-0.00042840	+0.00032041	
C/1999 R3	1999 09 04.88757	10 26 00.5	+05 40 47	249
Geocentric position (AU)	-0.00920026	-0.00043410	+0.00031733	
C/1999 R3	1999 09 04.92923	10 26 42.1	+05 42 23	249
Geocentric position (AU)	-0.00920252	-0.00044359	+0.00031220	
C/1999 R3	1999 09 04.97099	10 27 30.4	+05 44 24	249
Geocentric position (AU)	-0.00920476	-0.00045310	+0.00030706	
C/1999 R3	1999 09 04.98756	10 27 50.4	+05 44 52	249
Geocentric position (AU)	-0.00920565	-0.00045687	+0.00030502	
C/1999 R3	1999 09 05.01257	10 28 15.8	+05 46 00	249
Geocentric position (AU)	-0.00920699	-0.00046257	+0.00030194	
C/1999 R3	1999 09 05.02924	10 28 35.5	+05 46 42	249
Geocentric position (AU)	-0.00920787	-0.00046636	+0.00029989	
C/1999 R3	1999 09 05.07090	10 29 23.6	+05 48 20	249
Geocentric position (AU)	-0.00921009	-0.00047585	+0.00029476	
C/1999 R3	1999 09 05.09590	10 29 52.2	+05 49 21	249
Geocentric position (AU)	-0.00921141	-0.00048154	+0.00029168	
C/1999 R3	1999 09 05.11258	10 30 11.8	+05 49 54	249
Geocentric position (AU)	-0.00921229	-0.00048533	+0.00028963	
C/1999 R3	1999 09 05.13789	10 30 40.7	+05 51 07	249
Geocentric position (AU)	-0.00921363	-0.00049109	+0.00028651	
C/1999 R3	1999 09 05.15457	10 31 01.0	+05 51 46	249
Geocentric position (AU)	-0.00921450	-0.00049489	+0.00028445	
C/1999 R3	1999 09 05.17923	10 31 29.3	+05 52 44	249
Geocentric position (AU)	-0.00921579	-0.00050050	+0.00028142	
C/1999 R3	1999 09 05.22100	10 32 20.8	+05 54 49	249
Geocentric position (AU)	-0.00921797	-0.00051000	+0.00027627	
C/1999 R3	1999 09 05.26261	10 33 10.4	+05 56 34	249
Geocentric position (AU)	-0.00922014	-0.00051946	+0.00027115	
C/1999 R3	1999 09 05.27923	10 33 31.8	+05 57 23	249
Geocentric position (AU)	-0.00922100	-0.00052324	+0.00026910	
C/1999 R3	1999 09 05.32090	10 34 24.3	+05 59 11	249
Geocentric position (AU)	-0.00922314	-0.00053271	+0.00026397	
C/1999 R3	1999 09 05.34590	10 34 56.3	+06 00 26	249
Geocentric position (AU)	-0.00922443	-0.00053839	+0.00026089	
C/1999 R3	1999 09 05.36256	10 35 18.0	+06 01 14	249
Geocentric position (AU)	-0.00922528	-0.00054218	+0.00025884	
C/1999 R3	1999 09 05.38756	10 35 50.6	+06 02 29	249
Geocentric position (AU)	-0.00922656	-0.00054786	+0.00025576	
C/1999 R3	1999 09 05.40423	10 36 12.2	+06 03 12	249
Geocentric position (AU)	-0.00922741	-0.00055165	+0.00025370	
C/1999 R3	1999 09 05.42927	10 36 44.8	+06 04 30	249
Geocentric position (AU)	-0.00922868	-0.00055733	+0.00025062	

C/1999 R3	1999 09 05.47098	10 37 42.8	+06 06 34	249
Geocentric position (AU)	-0.00923079	-0.00056681	+0.00024548	
C/1999 R3	1999 09 05.48789	10 38 06.1	+06 07 20	249
Geocentric position (AU)	-0.00923164	-0.00057064	+0.00024340	
C/1999 R3	1999 09 05.51257	10 38 40.4	+06 08 42	249
Geocentric position (AU)	-0.00923288	-0.00057625	+0.00024036	
C/1999 R3	1999 09 05.52923	10 39 03.3	+06 09 36	249
Geocentric position (AU)	-0.00923372	-0.00058003	+0.00023831	
C/1999 R3	1999 09 05.57090	10 40 03.2	+06 11 46	249
Geocentric position (AU)	-0.00923580	-0.00058949	+0.00023318	
C/1999 R3	1999 09 05.59591	10 40 40.1	+06 13 13	249
Geocentric position (AU)	-0.00923704	-0.00059516	+0.00023010	
C/1999 R3	1999 09 05.61256	10 41 05.2	+06 14 18	249
Geocentric position (AU)	-0.00923787	-0.00059894	+0.00022804	
C/1999 R3	1999 09 05.63756	10 41 42.9	+06 15 40	249
Geocentric position (AU)	-0.00923911	-0.00060462	+0.00022496	
C/1999 R3	1999 09 05.67924	10 42 48.5	+06 18 13	249
Geocentric position (AU)	-0.00924116	-0.00061407	+0.00021983	
C/1999 R3	1999 09 05.69590	10 43 14.9	+06 19 12	249
Geocentric position (AU)	-0.00924198	-0.00061785	+0.00021778	
C/1999 R3	1999 09 05.72090	10 43 56.2	+06 20 45	249
Geocentric position (AU)	-0.00924320	-0.00062352	+0.00021470	
C/1999 R3	1999 09 05.76261	10 45 07.0	+06 23 31	249
Geocentric position (AU)	-0.00924523	-0.00063297	+0.00020956	
C/1999 R3	1999 09 05.77923	10 45 35.5	+06 24 32	249
Geocentric position (AU)	-0.00924604	-0.00063674	+0.00020751	

C/1999 R4 (SOHO)

C/1999 R4	1999 09 05.84590	10 36 01.6	+05 48 04	249
Geocentric position (AU)	-0.00924925	-0.00065185	+0.00019930	
C/1999 R4	1999 09 05.86256	10 36 24.0	+05 48 34	249
Geocentric position (AU)	-0.00925005	-0.00065562	+0.00019725	
C/1999 R4	1999 09 05.88757	10 36 56.8	+05 49 46	249
Geocentric position (AU)	-0.00925125	-0.00066128	+0.00019417	
C/1999 R4	1999 09 05.92923	10 37 50.6	+05 52 06	249
Geocentric position (AU)	-0.00925323	-0.00067072	+0.00018904	
C/1999 R4	1999 09 05.97099	10 38 47.4	+05 53 55	249
Geocentric position (AU)	-0.00925521	-0.00068017	+0.00018389	
C/1999 R4	1999 09 05.98756	10 39 08.0	+05 54 53	249
Geocentric position (AU)	-0.00925599	-0.00068393	+0.00018185	
C/1999 R4	1999 09 06.01257	10 39 43.8	+05 55 49	249
Geocentric position (AU)	-0.00925717	-0.00068959	+0.00017877	
C/1999 R4	1999 09 06.02923	10 40 06.6	+05 56 28	249
Geocentric position (AU)	-0.00925795	-0.00069335	+0.00017672	
C/1999 R4	1999 09 06.07091	10 41 07.4	+05 59 01	249
Geocentric position (AU)	-0.00925990	-0.00070278	+0.00017159	
C/1999 R4	1999 09 06.09591	10 41 42.5	+06 00 17	249
Geocentric position (AU)	-0.00926106	-0.00070844	+0.00016851	
C/1999 R4	1999 09 06.11256	10 42 08.2	+06 01 03	249
Geocentric position (AU)	-0.00926183	-0.00071220	+0.00016646	
C/1999 R4	1999 09 06.13758	10 42 44.4	+06 02 47	249
Geocentric position (AU)	-0.00926299	-0.00071786	+0.00016338	

C/1999 R4	1999 09 06.15423	10 43 10.7	+06 03 27	249
Geocentric position (AU)	-0.00926375	-0.00072163	+0.00016132	
C/1999 R4	1999 09 06.17923	10 43 47.4	+06 05 08	249
Geocentric position (AU)	-0.00926490	-0.00072728	+0.00015825	
C/1999 R4	1999 09 06.19590	10 44 14.7	+06 05 55	249
Geocentric position (AU)	-0.00926567	-0.00073104	+0.00015619	
C/1999 R4	1999 09 06.22090	10 44 54.1	+06 07 45	249
Geocentric position (AU)	-0.00926681	-0.00073669	+0.00015311	
C/1999 R4	1999 09 06.26262	10 46 03.2	+06 10 27	249
Geocentric position (AU)	-0.00926870	-0.00074612	+0.00014798	
C/1999 R4	1999 09 06.27923	10 46 30.2	+06 11 40	249
Geocentric position (AU)	-0.00926945	-0.00074987	+0.00014593	

C/1999 S2 (McNaught-Watson)

C/1999 S2	2000 02 28.46747	02 23 11.25	-49 48 11.2	17.7 N	413
C/1999 S2	2000 02 28.47052	02 23 11.32	-49 48 10.2	18.0 N	413
C/1999 S2	2000 02 28.48346	02 23 11.77	-49 48 03.9	18.2 N	413
C/1999 S2	2000 03 05.38078	02 26 17.12	-49 01 47.2	17.0 T	474
C/1999 S2	2000 03 05.38191	02 26 17.27	-49 01 46.7	17.0 T	474
C/1999 S2	2000 03 05.38583	02 26 17.37	-49 01 45.6	17.1 T	474

C/1999 S3 (LINEAR)

C/1999 S3	2000 02 11.84881	20 54 37.66	+63 13 46.0		349
C/1999 S3	2000 02 11.85098	20 54 37.84	+63 13 49.0	16.3 T	349
C/1999 S3	2000 02 29.79089	21 09 31.81	+70 12 45.2	16.0 T	349
C/1999 S3	2000 02 29.80729	21 09 32.78	+70 13 10.0		349

C/1999 S4 (LINEAR)

C/1999 S4	2000 01 04.51458	02 08 58.77	+31 46 27.5	15.2 T	372
C/1999 S4	2000 01 11.51285	01 58 56.05	+30 38 54.2	15.3 T	372
C/1999 S4	2000 02 10.40667	01 34 54.80	+27 00 05.2	14.7 T	402
C/1999 S4	2000 02 10.40793	01 34 54.77	+27 00 04.6		402
C/1999 S4	2000 02 10.41045	01 34 54.72	+27 00 04.2		402
C/1999 S4	2000 02 12.42174	01 34 12.41	+26 50 34.0		349
C/1999 S4	2000 02 12.42608	01 34 12.36	+26 50 32.9		349
C/1999 S4	2000 02 12.42841	01 34 12.34	+26 50 32.0	14.8 T	349
C/1999 S4	2000 02 20.42038	01 32 16.82	+26 19 24.4	15.0 T	349
C/1999 S4	2000 02 20.42564	01 32 16.69	+26 19 22.9		349
C/1999 S4	2000 02 20.43081	01 32 16.72	+26 19 22.0		349
C/1999 S4	2000 02 22.44444	01 31 59.68	+26 13 08.7	14.7 T	372
C/1999 S4	2000 02 27.45104	01 31 36.38	+26 00 26.5	14.5 T	360
C/1999 S4	2000 02 27.45382	01 31 36.36	+26 00 26.1		360
C/1999 S4	2000 02 27.78244	01 31 35.77	+25 59 44.0		046
C/1999 S4	2000 02 27.78549	01 31 35.77	+25 59 43.4	15.8 N	046
C/1999 S4	2000 02 27.78764	01 31 35.76	+25 59 43.3		046
C/1999 S4	2000 02 27.79084	01 31 35.76	+25 59 42.8		046
C/1999 S4	2000 02 28.77322	01 31 34.51	+25 57 43.2		046
C/1999 S4	2000 02 28.77458	01 31 34.50	+25 57 43.0		046
C/1999 S4	2000 02 28.77679	01 31 34.51	+25 57 42.7		046
C/1999 S4	2000 02 29.42014	01 31 34.17	+25 56 30.7	14.9 T	372
C/1999 S4	2000 02 29.42934	01 31 34.15	+25 56 28.9	14.7 T	360
C/1999 S4	2000 02 29.43160	01 31 34.17	+25 56 28.6		360
C/1999 S4	2000 03 02.42698	01 31 35.73	+25 53 04.0	14.6 T	402
C/1999 S4	2000 03 02.42950	01 31 35.73	+25 53 03.4		402

C/1999 S4	2000 03 02.43329	01 31 35.74	+25 53 03.3		402
C/1999 S4	2000 03 02.45727	01 31 35.84	+25 53 01.7	14.6 T	348
C/1999 S4	2000 03 02.46181	01 31 35.85	+25 53 01.1		348
C/1999 S4	2000 03 09.42917	01 32 08.40	+25 45 39.6	14.6 T	360
C/1999 S4	2000 03 09.43160	01 32 08.42	+25 45 39.2		360

C/1999 S5 (SOHO)

C/1999 S5	1999 09 20.63756	11 29 37.0	+00 13 29		249
Geocentric position (AU)	-0.00929273	-0.00360451	-0.00150933		
C/1999 S5	1999 09 20.65423	11 29 59.4	+00 13 33		249
Geocentric position (AU)	-0.00929223	-0.00360719	-0.00151102		
C/1999 S5	1999 09 20.67923	11 30 33.8	+00 14 48		249
Geocentric position (AU)	-0.00929148	-0.00361121	-0.00151356		
C/1999 S5	1999 09 20.72090	11 31 34.4	+00 16 43		249
Geocentric position (AU)	-0.00929022	-0.00361790	-0.00151778		
C/1999 S5	1999 09 20.73756	11 31 57.0	+00 17 16		249
Geocentric position (AU)	-0.00928972	-0.00362057	-0.00151946		
C/1999 S5	1999 09 20.76256	11 32 31.4	+00 18 08		249
Geocentric position (AU)	-0.00928897	-0.00362458	-0.00152199		
C/1999 S5	1999 09 20.77923	11 32 56.0	+00 19 11		249
Geocentric position (AU)	-0.00928846	-0.00362725	-0.00152368		
C/1999 S5	1999 09 20.82121	11 33 57.9	+00 20 52		249
Geocentric position (AU)	-0.00928719	-0.00363397	-0.00152792		
C/1999 S5	1999 09 20.84590	11 34 33.5	+00 22 15		249
Geocentric position (AU)	-0.00928644	-0.00363791	-0.00153041		
C/1999 S5	1999 09 20.86256	11 34 59.6	+00 23 19		249
Geocentric position (AU)	-0.00928593	-0.00364057	-0.00153210		
C/1999 S5	1999 09 20.88756	11 35 37.7	+00 23 50		249
Geocentric position (AU)	-0.00928517	-0.00364456	-0.00153462		

C/1999 S6 (SOHO)

C/1999 S6	1999 09 21.17924	11 34 34.0	+00 19 46		249
Geocentric position (AU)	-0.00927621	-0.00369082	-0.00156392		
C/1999 S6	1999 09 21.19591	11 35 00.4	+00 19 55		249
Geocentric position (AU)	-0.00927569	-0.00369345	-0.00156559		
C/1999 S6	1999 09 21.22090	11 35 32.7	+00 20 57		249
Geocentric position (AU)	-0.00927491	-0.00369739	-0.00156809		
C/1999 S6	1999 09 21.23756	11 36 00.9	+00 21 11		249
Geocentric position (AU)	-0.00927439	-0.00370001	-0.00156976		
C/1999 S6	1999 09 21.27923	11 37 02.2	+00 23 18		249
Geocentric position (AU)	-0.00927309	-0.00370657	-0.00157392		
C/1999 S6	1999 09 21.34591	11 38 44.6	+00 26 03		249
Geocentric position (AU)	-0.00927101	-0.00371704	-0.00158058		
C/1999 S6	1999 09 21.36257	11 39 10.2	+00 26 29		249
Geocentric position (AU)	-0.00927049	-0.00371965	-0.00158224		
C/1999 S6	1999 09 21.38756	11 39 51.7	+00 27 27		249
Geocentric position (AU)	-0.00926970	-0.00372356	-0.00158473		
C/1999 S6	1999 09 21.40423	11 40 20.1	+00 28 26		249
Geocentric position (AU)	-0.00926918	-0.00372617	-0.00158639		
C/1999 S6	1999 09 21.42927	11 41 01.9	+00 29 42		249
Geocentric position (AU)	-0.00926839	-0.00373009	-0.00158888		
C/1999 S6	1999 09 21.47090	11 42 11.5	+00 32 12		249
Geocentric position (AU)	-0.00926708	-0.00373659	-0.00159302		

C/1999 S6	1999 09 21.48756	11 42 38.6	+00 32 27		249
Geocentric position (AU)	-0.00926656	-0.00373919	-0.00159468		

C/1999 S7 (SOHO)

C/1999 S7	1999 09 24.19590	11 42 36.0	-01 11 44		249
Geocentric position (AU)	-0.00917643	-0.00414135	-0.00185490		
C/1999 S7	1999 09 24.26256	11 44 08.0	-01 08 28		249
Geocentric position (AU)	-0.00917413	-0.00415076	-0.00186108		
C/1999 S7	1999 09 24.27923	11 44 30.7	-01 08 44		249
Geocentric position (AU)	-0.00917356	-0.00415311	-0.00186262		
C/1999 S7	1999 09 24.32090	11 45 32.5	-01 05 53		249
Geocentric position (AU)	-0.00917212	-0.00415897	-0.00186648		
C/1999 S7	1999 09 24.34590	11 46 05.5	-01 06 06		249
Geocentric position (AU)	-0.00917126	-0.00416249	-0.00186880		
C/1999 S7	1999 09 24.36257	11 46 33.8	-01 05 07		249
Geocentric position (AU)	-0.00917068	-0.00416483	-0.00187034		
C/1999 S7	1999 09 24.38756	11 47 09.8	-01 03 45		249
Geocentric position (AU)	-0.00916982	-0.00416834	-0.00187265		
C/1999 S7	1999 09 24.40423	11 47 34.1	-01 02 32		249
Geocentric position (AU)	-0.00916924	-0.00417068	-0.00187419		
C/1999 S7	1999 09 24.43063	11 48 13.5	-01 01 26		249
Geocentric position (AU)	-0.00916833	-0.00417438	-0.00187663		
C/1999 S7	1999 09 24.44590	11 48 35.5	-01 00 23		249
Geocentric position (AU)	-0.00916780	-0.00417652	-0.00187804		
C/1999 S7	1999 09 24.47091	11 49 13.1	-00 59 43		249
Geocentric position (AU)	-0.00916693	-0.00418003	-0.00188034		
C/1999 S7	1999 09 24.48757	11 49 41.0	-00 58 48		249
Geocentric position (AU)	-0.00916636	-0.00418236	-0.00188188		
C/1999 S7	1999 09 24.51257	11 50 21.0	-00 57 09		249
Geocentric position (AU)	-0.00916549	-0.00418585	-0.00188418		
C/1999 S7	1999 09 24.52923	11 50 47.7	-00 56 28		249
Geocentric position (AU)	-0.00916492	-0.00418818	-0.00188572		
C/1999 S7	1999 09 24.57090	11 51 56.8	-00 54 34		249
Geocentric position (AU)	-0.00916347	-0.00419400	-0.00188955		
C/1999 S7	1999 09 24.59591	11 52 36.5	-00 53 15		249
Geocentric position (AU)	-0.00916261	-0.00419748	-0.00189185		
C/1999 S7	1999 09 24.61256	11 53 09.0	-00 52 16		249
Geocentric position (AU)	-0.00916203	-0.00419981	-0.00189338		

C/1999 T1 (McNaught-Hartley)

C/1999 T1	2000 02 28.44587	01 32 52.91	-35 30 45.9	14.9 N	413
C/1999 T1	2000 02 28.44763	01 32 52.99	-35 30 45.1	15.2 N	413

P/1999 U3 (LINEAR)

P/1999 U3	2000 02 28.82679	05 05 28.80	+32 03 52.5		118
P/1999 U3	2000 02 28.83768	05 05 29.99	+32 03 45.5	16.5 T	118
P/1999 U3	2000 02 29.44514	05 06 38.49	+31 57 21.0	17.1 T	360
P/1999 U3	2000 02 29.44896	05 06 38.94	+31 57 18.6		360

C/1999 U4 (Catalina-Skiff)

C/1999 U4	2000 03 01.43472	01 54 15.89	+23 30 57.2	17.4 T	360
C/1999 U4	2000 03 01.43906	01 54 15.96	+23 30 57.8		360

2000 MAR. 20

M.P.C. 38961

P/1999 V1 (Catalina)

P/1999 V1	1999 11 12.81250	09 43 53.00	+10 21 30.3	17.5 T	372	
P/1999 V1	1999 12 07.74340	09 59 49.60	+06 34 22.8	18.0 T	372	
P/1999 V1	1999 12 11.78056	10 01 17.84	+06 00 23.1	17.4 T	372	
P/1999 V1	1999 12 15.76806	10 02 25.08	+05 27 51.3		372	
P/1999 V1	2000 01 28.63701	09 52 39.37	+01 12 51.0	17.5 T	372	
P/1999 V1	2000 01 30.65451	09 51 23.80	+01 06 46.6	18.0 T	372	
P/1999 V1	2000 02 09.61085	09 44 43.71	+00 44 18.7	18.1 T	372	
P/1999 V1	2000 02 11.63542	09 43 19.36	+00 41 12.5		372	
P/1999 V1	2000 02 24.17536	09 34 51.96	+00 31 32.1	18.2 T	706	
P/1999 V1	2000 02 24.19550	09 34 51.18	+00 31 31.6	17.8 T	706	
P/1999 V1	2000 02 29.57153	09 31 35.66	+00 31 25.8	18.5 T	372	
P/1999 V1	2000 03 01.18199	09 31 14.86	+00 31 31.2	17.5 T	703	
P/1999 V1	2000 03 01.19792	09 31 14.38	+00 31 32.1	17.4 T	703	
P/1999 V1	2000 03 01.21379	09 31 13.67	+00 31 32.0	17.4 T	703	
P/1999 V1	2000 03 01.22963	09 31 13.13	+00 31 33.1	16.8 T	703	
P/1999 V1	2000 03 02.58056	09 30 28.03	+00 31 49.8	17.4 T	360	
P/1999 V1	2000 03 02.58472	09 30 27.92	+00 31 49.8		360	
P/1999 V1	2000 03 02.89105	09 30 17.98	+00 31 54.5		2 118	
P/1999 V1	2000 03 04.86153	09 29 15.44	+00 32 33.4	17.3 T	118	
P/1999 V1	2000 03 04.86605	09 29 15.30	+00 32 34.7		118	
P/1999 V1	2000 03 04.86844	09 29 15.26	+00 32 33.4		118	

P/1999 WJ₇ (Korlević)

P/1999 WJ ₇	2000 02 22.82451	04 25 34.77	+22 59 52.5	18.6 N	589	
P/1999 WJ ₇	2000 02 22.83798	04 25 35.30	+22 59 52.9		589	
P/1999 WJ ₇	2000 02 22.84839	04 25 35.81	+22 59 53.2		589	
P/1999 WJ ₇	2000 02 22.85881	04 25 36.30	+22 59 53.2		589	
P/1999 WJ ₇	2000 02 24.80868	04 27 06.67	+23 01 16.9	18.6 N	589	
P/1999 WJ ₇	2000 02 24.82146	04 27 07.24	+23 01 17.8		589	
P/1999 WJ ₇	2000 02 24.83188	04 27 07.79	+23 01 17.7		589	
P/1999 WJ ₇	2000 02 24.84229	04 27 08.22	+23 01 18.4		589	
P/1999 WJ ₇	2000 02 27.48872	04 29 17.11	+23 03 23.2	17.0 T	360	
P/1999 WJ ₇	2000 02 27.49826	04 29 17.58	+23 03 23.7		360	
P/1999 WJ ₇	2000 03 01.44447	04 31 49.25	+23 05 55.5	17.4 T	402	
P/1999 WJ ₇	2000 03 01.44677	04 31 49.39	+23 05 55.8		402	
P/1999 WJ ₇	2000 03 01.44907	04 31 49.51	+23 05 56.2		402	
P/1999 W7	2000 03 03.18649	04 33 22.79	+23 07 31.0	17.0 T	703	
P/1999 W7	2000 03 03.19819	04 33 23.40	+23 07 31.8	17.0 T	703	
P/1999 W7	2000 03 03.20991	04 33 24.05	+23 07 32.6	17.0 T	703	
P/1999 W7	2000 03 03.22156	04 33 24.67	+23 07 32.8	17.4 T	703	
P/1999 WJ ₇	2000 03 04.10804	04 34 13.48	+23 08 22.2	18.6 T	704	
P/1999 WJ ₇	2000 03 04.12121	04 34 14.14	+23 08 24.3	18.7 T	704	
P/1999 WJ ₇	2000 03 04.13439	04 34 14.88	+23 08 25.5	18.5 T	704	
P/1999 WJ ₇	2000 03 04.14756	04 34 15.63	+23 08 25.8	18.7 T	704	
P/1999 WJ ₇	2000 03 04.16075	04 34 16.35	+23 08 26.6	18.5 T	704	

P/1999 XB₆₉ (LINEAR)

P/1999 XB ₆₉	1999 11 14.42506	05 13 26.49	+27 07 56.1	19.1 N	3 704	
P/1999 XB ₆₉	1999 11 14.43933	05 13 26.41	+27 07 49.2	19.1 N	3 704	
P/1999 XB ₆₉	1999 11 14.46787	05 13 26.23	+27 07 34.9	19.7 N	3 704	
P/1999 XB ₆₉	1999 11 14.48214	05 13 26.22	+27 07 27.2	19.5 N	3 704	
P/1999 XB ₆₉	1999 11 16.28874	05 13 22.36	+26 52 06.3	19.3 N	3 704	
P/1999 XB ₆₉	1999 11 16.30297	05 13 22.23	+26 51 58.6	19.7 N	3 704	

P/1999 XB ₆₉	1999 11 16.31749	05 13 22.10	+26 51 51.8	19.5 N	3 704	
P/1999 XB ₆₉	1999 11 16.34609	05 13 21.90	+26 51 35.4	19.8 N	3 704	
P/1999 XB ₆₉	1999 12 07.29234	05 06 13.11	+22 55 00.3	17.9 N	704	
P/1999 XB ₆₉	1999 12 07.30695	05 06 12.54	+22 54 48.9	17.9 N	704	
P/1999 XB ₆₉	1999 12 07.32150	05 06 12.04	+22 54 36.4	17.4 N	704	
P/1999 XB ₆₉	1999 12 07.33615	05 06 11.53	+22 54 25.1	17.5 N	704	
P/1999 XB ₆₉	1999 12 07.35077	05 06 11.00	+22 54 12.4	17.4 N	704	
P/1999 XB ₆₉	1999 12 08.32069	05 05 39.77	+22 40 57.8	17.5 N	704	
P/1999 XB ₆₉	1999 12 08.33316	05 05 39.30	+22 40 47.9	18.5 N	704	
P/1999 XB ₆₉	1999 12 08.34563	05 05 38.87	+22 40 37.3	18.7 N	704	
P/1999 XB ₆₉	1999 12 08.35808	05 05 38.41	+22 40 27.2	18.2 N	704	
P/1999 XB ₆₉	1999 12 08.37055	05 05 37.96	+22 40 16.9	18.1 N	704	
P/1999 XB ₆₉	2000 01 05.15780	04 54 36.12	+16 07 57.4	18.6 N	704	
P/1999 XB ₆₉	2000 01 05.17241	04 54 36.00	+16 07 46.6	19.2 N	704	
P/1999 XB ₆₉	2000 01 05.18692	04 54 35.91	+16 07 34.5	18.9 N	704	
P/1999 XB ₆₉	2000 01 05.20144	04 54 35.78	+16 07 24.2	19.1 N	704	
P/1999 XB ₆₉	2000 01 05.21595	04 54 35.65	+16 07 12.7	18.8 N	704	
P/1999 XB ₆₉	2000 01 06.15472	04 54 34.23	+15 55 24.6	18.9 N	704	
P/1999 XB ₆₉	2000 01 06.16938	04 54 34.16	+15 55 13.3	19.1 N	704	
P/1999 XB ₆₉	2000 01 06.18398	04 54 34.08	+15 55 02.4	18.9 N	704	
P/1999 XB ₆₉	2000 01 06.19855	04 54 34.00	+15 54 51.6	19.0 N	704	
P/1999 XB ₆₉	2000 01 06.21318	04 54 33.96	+15 54 40.3	18.7 N	704	
P/1999 XB ₆₉	2000 01 13.07716	04 55 25.15	+14 34 39.3	17.7 N	046	
P/1999 XB ₆₉	2000 01 13.07822	04 55 25.10	+14 34 38.4		046	
P/1999 XB ₆₉	2000 01 13.08079	04 55 25.11	+14 34 37.3		046	
P/1999 XB ₆₉	2000 01 13.08175	04 55 25.25	+14 34 37.3		046	
P/1999 XB ₆₉	2000 01 13.08291	04 55 25.20	+14 34 36.0		046	
P/1999 XB ₆₉	2000 01 13.08392	04 55 25.15	+14 34 35.5		046	
P/1999 XB ₆₉	2000 01 13.83209	04 55 38.36	+14 26 37.5	18.1 N	046	
P/1999 XB ₆₉	2000 01 13.83388	04 55 38.39	+14 26 35.7		046	
P/1999 XB ₆₉	2000 01 13.83534	04 55 38.42	+14 26 35.0		046	
P/1999 XB ₆₉	2000 01 13.83676	04 55 38.46	+14 26 34.5		046	
P/1999 XB ₆₉	2000 01 13.83824	04 55 38.48	+14 26 33.3		046	
P/1999 XB ₆₉	2000 02 03.46013	05 10 33.35	+11 44 20.5	18.6 N	402	
P/1999 XB ₆₉	2000 02 03.46390	05 10 33.59	+11 44 24.3		402	
P/1999 XB ₆₉	2000 02 26.45871	05 45 22.43	+10 25 24.5	18.6 T	413	
P/1999 XB ₆₉	2000 02 26.46051	05 45 22.62	+10 25 24.4	18.6 T	413	
P/1999 XB ₆₉	2000 02 27.15523	05 46 39.80	+10 23 48.6		4 693	
P/1999 XB ₆₉	2000 02 27.15955	05 46 40.27	+10 23 48.1		4 693	
P/1999 XB ₆₉	2000 03 01.45483	05 52 55.30	+10 17 19.4	18.6 T	402	
P/1999 XB ₆₉	2000 03 01.45713	05 52 55.49	+10 17 18.7		402	
P/1999 XB ₆₉	2000 03 01.45943	05 52 55.72	+10 17 16.7		402	
P/1999 XB ₆₉	2000 03 01.49618	05 52 59.94	+10 17 14.9	18.4 T	360	
P/1999 XB ₆₉	2000 03 01.50000	05 53 00.36	+10 17 14.5		360	
P/1999 XB ₆₉	2000 03 01.50417	05 53 00.82	+10 17 14.1		360	

C/1999 XS₈₇ (LINEAR)

C/1999 XS ₈₇	2000 02 29.53021	06 16 37.90	+16 23 12.9	17.9 T	360	
C/1999 XS ₈₇	2000 02 29.53542	06 16 38.01	+16 23 12.4		360	
C/1999 XS ₈₇	2000 03 01.57163	06 17 03.66	+16 21 41.3	18.0 T	402	
C/1999 XS ₈₇	2000 03 01.57394	06 17 03.68	+16 21 40.2		402	
C/1999 XS ₈₇	2000 03 01.57624	06 17 03.70	+16 21 39.5		402	
C/1999 XS ₈₇	2000 03 02.80528	06 17 35.76	+16 19 54.2		118	

C/1999 XS ₈₇	2000 03 02.81109	06 17 35.89	+16 19 53.8	17.9 T	118
C/1999 XS ₈₇	2000 03 05.11601	06 18 39.68	+16 16 36.5	19.2 T	704
C/1999 XS ₈₇	2000 03 05.12951	06 18 40.15	+16 16 36.5	19.4 T	704
C/1999 XS ₈₇	2000 03 05.14304	06 18 40.59	+16 16 36.1	19.5 T	704
C/1999 XS ₈₇	2000 03 05.15666	06 18 40.93	+16 16 33.8	19.6 T	704
C/1999 XS ₈₇	2000 03 05.17044	06 18 41.31	+16 16 32.6	19.2 T	704

P/1999 XN₁₂₀ (Catalina)

P/1999 XN ₁₂₀	1999 11 03.32844	03 50 58.26	+25 38 24.8	18.6 N	3 704
P/1999 XN ₁₂₀	1999 11 03.34454	03 50 57.67	+25 38 22.3	18.7 N	3 704
P/1999 XN ₁₂₀	1999 11 03.36064	03 50 57.00	+25 38 20.4	18.1 N	3 704
P/1999 XN ₁₂₀	1999 11 03.37672	03 50 56.39	+25 38 19.0	18.4 N	3 704
P/1999 XN ₁₂₀	1999 11 09.30722	03 47 02.89	+25 25 09.5	18.2 N	3 703
P/1999 XN ₁₂₀	1999 11 09.31946	03 47 02.38	+25 25 07.8	18.4 N	3 703
P/1999 XN ₁₂₀	1999 11 09.33164	03 47 01.86	+25 25 04.8	18.2 N	3 703
P/1999 XN ₁₂₀	1999 11 09.34382	03 47 01.24	+25 25 03.9	18.7 N	3 703
P/1999 XN ₁₂₀	1999 11 12.22358	03 45 01.04	+25 17 36.0	18.1 N	3 699
P/1999 XN ₁₂₀	1999 11 12.25412	03 44 59.79	+25 17 31.8		3 699
P/1999 XN ₁₂₀	1999 11 12.28470	03 44 58.48	+25 17 27.4		3 699
P/1999 XN ₁₂₀	1999 11 16.22159	03 42 09.05	+25 06 17.3	18.3 N	3 704
P/1999 XN ₁₂₀	1999 11 16.23585	03 42 08.42	+25 06 14.1	18.3 N	3 704
P/1999 XN ₁₂₀	1999 11 16.25010	03 42 07.84	+25 06 10.9	18.3 N	3 704
P/1999 XN ₁₂₀	1999 11 16.26434	03 42 07.23	+25 06 09.0	18.3 N	3 704
P/1999 XN ₁₂₀	1999 11 16.27862	03 42 06.53	+25 06 07.3	18.2 N	3 704
P/1999 XN ₁₂₀	1999 12 05.19023	03 28 46.75	+24 01 26.8	16.9 N	703
P/1999 XN ₁₂₀	1999 12 05.20255	03 28 46.25	+24 01 23.3	17.1 N	703
P/1999 XN ₁₂₀	1999 12 05.21488	03 28 45.87	+24 01 20.5	17.4 N	703
P/1999 XN ₁₂₀	1999 12 05.22722	03 28 45.33	+24 01 17.8	17.4 N	703
P/1999 XN ₁₂₀	1999 12 10.19233	03 25 44.90	+23 43 05.2	17.9 N	704
P/1999 XN ₁₂₀	1999 12 10.20703	03 25 44.26	+23 43 01.8	17.8 N	704
P/1999 XN ₁₂₀	1999 12 10.23658	03 25 43.23	+23 42 56.0	17.7 N	704
P/1999 XN ₁₂₀	1999 12 13.23270	03 24 04.82	+23 32 05.7	17.2 N	703
P/1999 XN ₁₂₀	1999 12 13.24488	03 24 04.32	+23 32 01.6	16.9 N	703
P/1999 XN ₁₂₀	1999 12 13.25706	03 24 04.01	+23 31 59.4	17.0 N	703
P/1999 XN ₁₂₀	1999 12 13.26924	03 24 03.71	+23 31 58.3	16.9 N	703
P/1999 XN ₁₂₀	1999 12 15.07670	03 23 08.93	+23 25 31.8	17.9 N	704
P/1999 XN ₁₂₀	1999 12 15.09189	03 23 08.42	+23 25 28.4	18.2 N	704
P/1999 XN ₁₂₀	1999 12 15.10688	03 23 07.85	+23 25 26.8	18.9 N	704
P/1999 XN ₁₂₀	1999 12 15.13709	03 23 07.05	+23 25 18.9	18.4 N	704
P/1999 XN ₁₂₀	2000 01 30.08481	03 22 22.49	+21 53 12.9	18.2 N	704
P/1999 XN ₁₂₀	2000 01 30.09960	03 22 22.92	+21 53 12.2	19.0 N	704
P/1999 XN ₁₂₀	2000 01 30.11436	03 22 23.36	+21 53 12.1	18.4 N	704
P/1999 XN ₁₂₀	2000 01 30.12913	03 22 23.75	+21 53 11.6	18.4 N	704
P/1999 XN ₁₂₀	2000 01 30.14390	03 22 24.20	+21 53 12.0	18.4 N	704
P/1999 XN ₁₂₀	2000 02 03.08481	03 24 23.41	+21 53 06.2	18.8 N	704
P/1999 XN ₁₂₀	2000 02 03.09905	03 24 24.02	+21 53 06.7	19.3 N	704
P/1999 XN ₁₂₀	2000 02 03.11331	03 24 24.45	+21 53 07.4	19.4 N	704
P/1999 XN ₁₂₀	2000 02 03.14186	03 24 25.42	+21 53 06.4	18.9 N	704
P/1999 XN ₁₂₀	2000 02 04.72678	03 25 18.41	+21 53 27.1		118
P/1999 XN ₁₂₀	2000 02 04.73103	03 25 18.52	+21 53 27.7	17.3 N	118
P/1999 XN ₁₂₀	2000 02 04.73769	03 25 18.70	+21 53 27.3		118
P/1999 XN ₁₂₀	2000 02 27.11409	03 42 17.72	+22 14 15.8		693
P/1999 XN ₁₂₀	2000 02 27.11818	03 42 17.93	+22 14 16.2		693

P/1999 XN ₁₂₀	2000 02 27.12209	03 42 18.15	+22 14 16.5	17.2 T	693
P/1999 XN ₁₂₀	2000 02 28.74731	03 43 49.78	+22 16 43.6		118
P/1999 XN ₁₂₀	2000 02 28.76120	03 43 50.56	+22 16 44.8	18.0 N	118
P/1999 XN ₁₂₀	2000 03 01.43258	03 45 27.00	+22 19 23.2	17.4 T	402
P/1999 XN ₁₂₀	2000 03 01.43490	03 45 27.16	+22 19 22.3		402
P/1999 XN ₁₂₀	2000 03 01.43719	03 45 27.32	+22 19 22.6		402
P/1999 XN ₁₂₀	2000 03 01.46042	03 45 28.57	+22 19 24.6	17.6 T	360
P/1999 XN ₁₂₀	2000 03 01.46424	03 45 28.79	+22 19 25.2		360
P/1999 XN ₁₂₀	2000 03 02.77306	03 46 45.92	+22 21 32.0		118
P/1999 XN ₁₂₀	2000 03 02.78697	03 46 46.75	+22 21 33.6	17 T	118
P/1999 XN ₁₂₀	2000 03 04.10452	03 48 05.71	+22 23 44.9	18.3 T	704
P/1999 XN ₁₂₀	2000 03 04.11769	03 48 06.50	+22 23 45.5	18.6 T	704
P/1999 XN ₁₂₀	2000 03 04.13086	03 48 07.32	+22 23 47.2	18.4 T	704
P/1999 XN ₁₂₀	2000 03 04.13492	03 48 07.57	+22 23 49.4	17.2 T	703
P/1999 XN ₁₂₀	2000 03 04.14404	03 48 08.15	+22 23 48.0	18.7 T	704
P/1999 XN ₁₂₀	2000 03 04.14655	03 48 08.23	+22 23 49.9	17.0 T	703
P/1999 XN ₁₂₀	2000 03 04.15818	03 48 08.94	+22 23 50.4	17.3 T	703
P/1999 XN ₁₂₀	2000 03 04.16984	03 48 09.67	+22 23 51.1	17.0 T	703
P/1999 XN ₁₂₀	2000 03 09.44462	03 53 39.01	+22 33 04.5	17.4 T	360
P/1999 XN ₁₂₀	2000 03 09.44844	03 53 39.24	+22 33 05.0		360
P/1999 XN ₁₂₀	2000 03 09.45278	03 53 39.51	+22 33 05.5		360
P/1999 XN ₁₂₀	2000 03 17.75433	04 02 56.85	+22 48 41.0		118
P/1999 XN ₁₂₀	2000 03 17.75884	04 02 57.14	+22 48 41.1		118
P/1999 XN ₁₂₀	2000 03 18.76010	04 04 07.33	+22 50 35.6		118
P/1999 XN ₁₂₀	2000 03 18.76434	04 04 07.62	+22 50 36.1		118

C/1999 Y1 (LINEAR)

C/1999 Y1	2000 02 10.41473	02 19 08.31	+61 00 58.1	16.4 T	402
C/1999 Y1	2000 02 10.41598	02 19 08.26	+61 00 57.2		402
C/1999 Y1	2000 02 10.41724	02 19 08.24	+61 00 56.5		402
C/1999 Y1	2000 02 11.51934	02 18 54.83	+60 45 35.6	16.0 T	372
C/1999 Y1	2000 02 22.45521	02 18 32.16	+58 22 16.8	16.5 T	372
C/1999 Y1	2000 02 27.45643	02 19 16.95	+57 22 38.9		349
C/1999 Y1	2000 02 27.46865	02 19 17.09	+57 22 30.4		349
C/1999 Y1	2000 02 27.47079	02 19 17.22	+57 22 29.3	16.1 T	349
C/1999 Y1	2000 02 29.43611	02 19 42.62	+57 00 06.0	16.1 T	360
C/1999 Y1	2000 02 29.43872	02 19 42.64	+57 00 04.3		360
C/1999 Y1	2000 02 29.44097	02 19 42.58	+57 00 03.9	17.0 T	372
C/1999 Y1	2000 03 02.43751	02 20 12.68	+56 37 56.1	15.9 T	402
C/1999 Y1	2000 03 02.43877	02 20 12.74	+56 37 55.2		402
C/1999 Y1	2000 03 02.44130	02 20 12.77	+56 37 53.8		402
C/1999 Y1	2000 03 02.46708	02 20 13.11	+56 37 37.2	15.4 T	348
C/1999 Y1	2000 03 02.47522	02 20 13.23	+56 37 31.2		348
C/1999 Y1	2000 03 09.43681	02 22 27.29	+55 25 19.2	16.2 T	360
C/1999 Y1	2000 03 09.43924	02 22 27.36	+55 25 17.9		360

C/2000 A1 (Montani)

C/2000 A1	2000 02 27.13016	07 51 20.32	+24 37 31.1	18.5 T	691
C/2000 A1	2000 02 27.16118	07 51 20.05	+24 37 33.7	18.8 T	691
C/2000 A1	2000 02 27.19217	07 51 19.76	+24 37 36.4	18.8 T	691
C/2000 A1	2000 02 29.46111	07 51 00.33	+24 40 36.1	19.1 T	372
C/2000 A1	2000 02 29.48264	07 51 00.09	+24 40 38.5		372
C/2000 A1	2000 03 02.48442	07 50 44.69	+24 43 12.8	18.6 T	402
C/2000 A1	2000 03 02.48903	07 50 44.67	+24 43 13.4		402

2000 MAR. 20

M.P.C. 38963

C/2000 A1	2000 03 02.49133	07 50 44.70	+24 43 14.4		402
C/2000 A1	2000 03 09.59757	07 50 02.02	+24 51 33.0	19.2 T	360
C/2000 A1	2000 03 09.60174	07 50 01.94	+24 51 33.2		360
C/2000 A1	2000 03 09.60556	07 50 01.95	+24 51 33.7		360

C/2000 B2 (LINEAR)

C/2000 B2	2000 02 09.55417	06 23 33.26	+33 37 41.8	18.9 T	372
C/2000 B2	2000 02 09.65035	06 23 26.48	+33 36 13.1		372
C/2000 B2	2000 02 22.49653	06 11 25.20	+30 24 04.6	18.9 T	372
C/2000 B2	2000 02 29.54410	06 07 05.20	+28 45 34.0	18.4 T	360
C/2000 B2	2000 02 29.55451	06 07 04.86	+28 45 25.8		360
C/2000 B2	2000 02 29.55868	06 07 04.76	+28 45 21.8		360
C/2000 B2	2000 03 01.56064	06 06 34.95	+28 31 51.1	18.5 T	402
C/2000 B2	2000 03 01.56294	06 06 34.87	+28 31 49.6		402
C/2000 B2	2000 03 01.56755	06 06 34.77	+28 31 46.8		402
C/2000 B2	2000 03 09.53090	06 03 36.34	+26 48 50.7	18.5 T	360
C/2000 B2	2000 03 09.53542	06 03 36.28	+26 48 47.2		360
C/2000 B2	2000 03 09.53993	06 03 36.16	+26 48 43.6		360

P/2000 B3 (LINEAR)

P/2000 B3	2000 02 28.87375	06 56 09.94	+35 50 27.6		118
P/2000 B3	2000 02 28.88506	06 56 10.87	+35 50 16.8	17.2 T	118
P/2000 B3	2000 02 29.56528	06 57 09.59	+35 39 39.2	17.3 T	360
P/2000 B3	2000 02 29.56910	06 57 09.92	+35 39 35.7		360
P/2000 B3	2000 03 01.58193	06 58 39.05	+35 23 41.7	17.1 T	402
P/2000 B3	2000 03 01.58422	06 58 39.23	+35 23 39.3		402
P/2000 B3	2000 03 01.58653	06 58 39.46	+35 23 36.9		402
P/2000 B3	2000 03 04.77466	07 03 31.45	+34 33 29.8	16.8 T	118
P/2000 B3	2000 03 04.78319	07 03 32.19	+34 33 21.6		118
P/2000 B3	2000 03 04.78528	07 03 32.36	+34 33 19.7		118
P/2000 B3	2000 03 09.56007	07 11 16.95	+33 18 10.4	16.9 T	360
P/2000 B3	2000 03 09.56389	07 11 17.30	+33 18 06.7		360
P/2000 B3	2000 03 12.18254	07 15 45.28	+32 36 51.0	18.2 T	704
P/2000 B3	2000 03 12.19556	07 15 46.48	+32 36 40.0	17.5 T	704
P/2000 B3	2000 03 12.20849	07 15 48.04	+32 36 26.9	17.5 T	704
P/2000 B3	2000 03 12.22170	07 15 49.30	+32 36 14.4	17.0 T	704

C/2000 B4 (LINEAR)

C/2000 B4	2000 02 29.59688	07 57 18.49	+36 33 10.1	19.9 N	360
C/2000 B4	2000 02 29.60278	07 57 18.42	+36 33 09.2		360
C/2000 B4	2000 02 29.60764	07 57 18.37	+36 33 08.3		360
C/2000 B4	2000 03 01.59223	07 57 05.56	+36 31 17.2	19.4 T	402
C/2000 B4	2000 03 01.60159	07 57 05.46	+36 31 17.4		402
C/2000 B4	2000 03 01.60850	07 57 05.21	+36 31 14.4		402
C/2000 B4	2000 03 02.55139	07 56 53.89	+36 29 27.6	20.2 N	360
C/2000 B4	2000 03 02.55833	07 56 53.78	+36 29 26.8		360
C/2000 B4	2000 03 02.56424	07 56 53.74	+36 29 25.5		360

P/2000 C1 (Hergenrother)

P/2000 C1	2000 02 11.75568	12 12 33.06	+05 23 29.7	17.1 T	349
P/2000 C1	2000 02 11.75845	12 12 33.05	+05 23 29.1		349
P/2000 C1	2000 02 15.77413	12 12 57.50	+05 44 33.7	17.5 T	372
P/2000 C1	2000 02 15.78507	12 12 57.48	+05 44 37.5		372
P/2000 C1	2000 02 28.68068	12 11 21.32	+07 08 42.6	16.2 T	355
P/2000 C1	2000 02 28.69108	12 11 21.12	+07 08 47.3		355

P/2000 C1	2000 02 28.69801	12 11 21.01	+07 08 50.2		355
P/2000 C1	2000 02 29.34119	12 11 09.93	+07 13 29.9	17.7 T	704
P/2000 C1	2000 02 29.35455	12 11 09.57	+07 13 38.9	19.1 T	704
P/2000 C1	2000 02 29.38203	12 11 09.06	+07 13 47.7	18.3 T	704
P/2000 C1	2000 02 29.39540	12 11 08.68	+07 13 57.5	18.3 T	704
P/2000 C1	2000 02 29.61545	12 11 05.04	+07 15 31.6	16.7 T	372
P/2000 C1	2000 02 29.75122	12 11 02.16	+07 16 30.2	16.6 T	360
P/2000 C1	2000 02 29.75677	12 11 02.03	+07 16 32.5		360
P/2000 C1	2000 03 01.71175	12 10 43.83	+07 23 33.4	16.0 T	402
P/2000 C1	2000 03 01.71300	12 10 43.81	+07 23 33.9		402
P/2000 C1	2000 03 01.71426	12 10 43.75	+07 23 34.5		402
P/2000 C1	2000 03 02.68715	12 10 24.02	+07 30 48.5	16.9 T	372
P/2000 C1	2000 03 04.96183	12 09 33.28	+07 47 45.8		118
P/2000 C1	2000 03 04.96486	12 09 33.21	+07 47 47.4	16.2 T	118
P/2000 C1	2000 03 08.62307	12 07 59.90	+08 15 19.3		355
P/2000 C1	2000 03 08.62650	12 07 59.83	+08 15 20.5		355
P/2000 C1	2000 03 08.63362	12 07 59.60	+08 15 24.4	15.7 T	355
P/2000 C1	2000 03 08.66707	12 07 58.71	+08 15 38.0		903
P/2000 C1	2000 03 08.69466	12 07 57.87	+08 15 52.5	15.9 T	903
P/2000 C1	2000 03 10.01281	12 07 21.28	+08 25 43.0	16.0 T	170
P/2000 C1	2000 03 12.40473	12 06 11.34	+08 43 27.4	17.6 T	704
P/2000 C1	2000 03 12.41745	12 06 10.91	+08 43 33.7	18.0 T	704
P/2000 C1	2000 03 12.44323	12 06 10.11	+08 43 44.9	18.1 T	704
P/2000 C1	2000 03 12.45591	12 06 09.66	+08 43 50.7	17.8 T	704
P/2000 C1	2000 03 12.59603	12 06 05.84	+08 44 50.3		903
P/2000 C1	2000 03 12.61481	12 06 05.28	+08 44 59.2	16.0 T	903
P/2000 C1	2000 03 13.67708	12 05 32.94	+08 52 45.1	16.4 T	360
P/2000 C1	2000 03 13.68160	12 05 32.79	+08 52 46.9		360
P/2000 C1	2000 03 14.70819	12 05 01.00	+09 00 08.5		903
P/2000 C1	2000 03 14.72410	12 05 00.47	+09 00 16.6		903

C/2000 CT₅₄ (LINEAR)

C/2000 CT ₅₄	2000 03 01.73456	14 00 05.43	-23 58 44.5	17.8 T	402
C/2000 CT ₅₄	2000 03 01.73916	14 00 05.34	-23 58 46.0		402
C/2000 CT ₅₄	2000 03 01.74146	14 00 05.25	-23 58 46.5		402
C/2000 CT ₅₄	2000 03 13.74063	13 55 05.79	-24 56 24.7	17.2 T	360
C/2000 CT ₅₄	2000 03 13.74479	13 55 05.67	-24 56 25.6		360
C/2000 CT ₅₄	2000 03 14.38056	13 54 46.31	-24 59 15.7	17.4 T	704
C/2000 CT ₅₄	2000 03 14.39359	13 54 45.93	-24 59 18.7	17.9 T	704
C/2000 CT ₅₄	2000 03 14.40731	13 54 45.45	-24 59 23.1	17.8 T	704
C/2000 CT ₅₄	2000 03 14.42101	13 54 45.05	-24 59 25.7	17.6 T	704
C/2000 CT ₅₄	2000 03 14.43394	13 54 44.60	-24 59 30.8	17.3 T	704

C/2000 D1 (SOHO)

C/2000 D1	2000 02 28.57090	23 14 57.2	-09 56 45		249
Geocentric position (AU)	+0.00911117	-0.00015738	+0.00039450		
C/2000 D1	2000 02 28.59590	23 14 44.9	-09 54 42		249
Geocentric position (AU)	+0.00911287	-0.00015135	+0.00039645		
C/2000 D1	2000 02 28.61256	23 14 32.4	-09 53 01		249
Geocentric position (AU)	+0.00911400	-0.00014734	+0.00039774		
C/2000 D1	2000 02 28.63756	23 14 15.8	-09 51 13		249
Geocentric position (AU)	+0.00911569	-0.00014131	+0.00039969		
C/2000 D1	2000 02 28.65423	23 14 04.6	-09 49 17		249
Geocentric position (AU)	+0.00911681	-0.00013730	+0.00040098		

C/2000 D1	2000 02 28.67923	23 13 46.4	-09 47 51	249
Geocentric position (AU)	+0.00911850	-0.00013127	+0.00040292	
C/2000 D1	2000 02 28.69590	23 13 35.4	-09 46 22	249
Geocentric position (AU)	+0.00911962	-0.00012726	+0.00040421	
C/2000 D1	2000 02 28.72090	23 13 17.0	-09 44 36	249
Geocentric position (AU)	+0.00912130	-0.00012123	+0.00040615	
C/2000 D1	2000 02 28.73756	23 13 05.3	-09 43 05	249
Geocentric position (AU)	+0.00912242	-0.00011722	+0.00040745	
C/2000 D1	2000 02 28.77924	23 12 37.3	-09 39 35	249
Geocentric position (AU)	+0.00912520	-0.00010718	+0.00041068	
C/2000 D1	2000 02 28.82090	23 12 06.7	-09 36 12	249
Geocentric position (AU)	+0.00912798	-0.00009715	+0.00041391	
C/2000 D1	2000 02 28.84590	23 11 47.8	-09 34 06	249
Geocentric position (AU)	+0.00912963	-0.00009113	+0.00041584	
C/2000 D1	2000 02 28.86256	23 11 35.5	-09 32 38	249
Geocentric position (AU)	+0.00913074	-0.00008712	+0.00041713	
C/2000 D1	2000 02 28.90423	23 11 05.9	-09 29 15	249
Geocentric position (AU)	+0.00913349	-0.00007708	+0.00042036	
C/2000 D1	2000 02 28.92923	23 10 46.5	-09 27 14	249
Geocentric position (AU)	+0.00913514	-0.00007107	+0.00042229	
C/2000 D1	2000 02 28.97099	23 10 16.1	-09 23 25	249
Geocentric position (AU)	+0.00913788	-0.00006102	+0.00042552	
C/2000 D1	2000 02 28.98757	23 10 03.7	-09 22 14	249
Geocentric position (AU)	+0.00913897	-0.00005703	+0.00042680	
C/2000 D1	2000 02 29.01256	23 09 42.9	-09 19 58	249
Geocentric position (AU)	+0.00914060	-0.00005101	+0.00042873	
C/2000 D1	2000 02 29.02923	23 09 31.6	-09 18 50	249
Geocentric position (AU)	+0.00914169	-0.00004700	+0.00043002	
C/2000 D1	2000 02 29.07090	23 08 57.8	-09 15 06	249
Geocentric position (AU)	+0.00914440	-0.00003698	+0.00043324	
C/2000 D1	2000 02 29.19590	23 07 14.5	-09 04 14	249
Geocentric position (AU)	+0.00915247	-0.00000692	+0.00044287	
C/2000 D1	2000 02 29.22090	23 06 54.4	-09 01 52	249
Geocentric position (AU)	+0.00915407	-0.00000091	+0.00044480	
C/2000 D1	2000 02 29.23756	23 06 39.3	-09 00 26	249
Geocentric position (AU)	+0.00915514	+0.00000309	+0.00044608	
C/2000 D1	2000 02 29.26256	23 06 17.2	-08 58 16	249
Geocentric position (AU)	+0.00915673	+0.00000910	+0.00044800	
C/2000 D1	2000 02 29.27923	23 06 02.9	-08 56 37	249
Geocentric position (AU)	+0.00915779	+0.00001311	+0.00044928	
C/2000 D1	2000 02 29.32090	23 05 26.8	-08 52 46	249
Geocentric position (AU)	+0.00916044	+0.00002312	+0.00045249	
C/2000 D1	2000 02 29.34590	23 05 03.7	-08 50 32	249
Geocentric position (AU)	+0.00916202	+0.00002912	+0.00045441	
C/2000 D1	2000 02 29.38756	23 04 24.3	-08 46 50	249
Geocentric position (AU)	+0.00916465	+0.00003913	+0.00045761	
C/2000 D1	2000 02 29.40423	23 04 08.6	-08 45 05	249
Geocentric position (AU)	+0.00916570	+0.00004314	+0.00045889	

C/2000 D2 (LINEAR)

C/2000 D2	2000 02 25.19852	06 48 19.35	+52 53 53.6	18.1 N	704
C/2000 D2	2000 02 25.21172	06 48 14.84	+52 53 36.6	17.6 N	704
C/2000 D2	2000 02 25.22492	06 48 10.43	+52 53 19.3	17.8 N	704

C/2000 D2	2000 02 26.25954	06 42 31.32	+52 31 02.8		651
C/2000 D2	2000 02 26.26116	06 42 30.90	+52 31 00.8		651
C/2000 D2	2000 02 26.26360	06 42 30.11	+52 30 57.5		651
C/2000 D2	2000 02 26.26528	06 42 29.57	+52 30 55.0	18.8 N	651
C/2000 D2	2000 02 26.74538	06 39 58.30	+52 20 19.6		118
C/2000 D2	2000 02 26.75079	06 39 56.57	+52 20 12.2		118
C/2000 D2	2000 02 26.75619	06 39 54.92	+52 20 04.2		118
C/2000 D2	2000 02 26.93079	06 38 59.90	+52 16 08.0		611
C/2000 D2	2000 02 26.93440	06 38 59.23	+52 16 06.2		611
C/2000 D2	2000 02 26.93757	06 38 58.16	+52 16 02.6		611
C/2000 D2	2000 02 26.94262	06 38 56.70	+52 15 55.5		611
C/2000 D2	2000 02 26.94356	06 38 56.16	+52 15 53.7	18.4 N	046
C/2000 D2	2000 02 26.94479	06 38 55.87	+52 15 52.2		046
C/2000 D2	2000 02 26.94593	06 38 55.40	+52 15 50.9		046
C/2000 D2	2000 02 26.94714	06 38 55.01	+52 15 49.1		046
C/2000 D2	2000 02 26.94815	06 38 54.73	+52 15 47.8	18.5 N	046
C/2000 D2	2000 02 27.13557	06 37 57.28	+52 11 38.3	19.0 N	858
C/2000 D2	2000 02 27.13900	06 37 56.18	+52 11 34.1	19.0 N	1 858
C/2000 D2	2000 02 27.14413	06 37 54.54	+52 11 26.5	18.9 N	858
C/2000 D2	2000 02 27.14778	06 37 53.50	+52 11 21.6	19.1 N	858
C/2000 D2	2000 02 27.24184	06 37 24.40	+52 09 15.5	18.8 N	651
C/2000 D2	2000 02 27.24344	06 37 23.97	+52 09 13.6	18.9 N	651
C/2000 D2	2000 02 27.24498	06 37 23.47	+52 09 11.5	19.0 N	651
C/2000 D2	2000 02 27.91487	06 34 02.39	+51 54 00.6		557
C/2000 D2	2000 02 27.91650	06 34 01.85	+51 53 58.3		557
C/2000 D2	2000 02 27.91814	06 34 01.34	+51 53 55.8	19.0 N	557
C/2000 D2	2000 02 28.02934	06 33 28.50	+51 51 23.3		046
C/2000 D2	2000 02 28.03046	06 33 28.14	+51 51 21.5	18.4 N	046
C/2000 D2	2000 02 28.03150	06 33 27.86	+51 51 20.7		046
C/2000 D2	2000 02 28.03251	06 33 27.61	+51 51 17.4		046
C/2000 D2	2000 02 28.03384	06 33 27.16	+51 51 15.7		046
C/2000 D2	2000 02 28.03559	06 33 26.73	+51 51 14.0	18.3 N	046
C/2000 D2	2000 02 28.03747	06 33 26.08	+51 51 11.5	18.5 N	046
C/2000 D2	2000 02 28.09406	06 33 10.07	+51 49 56.6	18.8 N	858
C/2000 D2	2000 02 28.09780	06 33 08.98	+51 49 52.4	18.9 N	858
C/2000 D2	2000 02 28.10156	06 33 07.87	+51 49 46.6	18.7 N	1 858
C/2000 D2	2000 02 28.31991	06 32 03.83	+51 44 44.2		658
C/2000 D2	2000 02 28.32213	06 32 03.14	+51 44 41.2		658
C/2000 D2	2000 02 28.32505	06 32 02.34	+51 44 38.1		658
C/2000 D2	2000 02 28.81565	06 29 42.19	+51 33 20.1	18.4 N	046
C/2000 D2	2000 02 28.81686	06 29 41.86	+51 33 18.6		046
C/2000 D2	2000 02 28.81833	06 29 41.39	+51 33 16.1		046
C/2000 D2	2000 02 28.81934	06 29 41.10	+51 33 15.3		046
C/2000 D2	2000 02 28.82130	06 29 40.53	+51 33 12.8		046
C/2000 D2	2000 02 28.82204	06 29 40.30	+51 33 12.2		046
C/2000 D2	2000 02 28.82476	06 29 39.60	+51 33 07.7	18.6 N	046
C/2000 D2	2000 02 28.84984	06 29 32.49	+51 32 33.5		118
C/2000 D2	2000 02 28.85503	06 29 30.95	+51 32 24.5		1 118
C/2000 D2	2000 02 28.86194	06 29 29.09	+51 32 16.0	18.7 N	118
C/2000 D2	2000 02 28.87454	06 29 25.48	+51 31 58.2		557
C/2000 D2	2000 02 28.87600	06 29 25.05	+51 31 56.1		557
C/2000 D2	2000 02 28.87746	06 29 24.68	+51 31 53.5		557
C/2000 D2	2000 02 28.87892	06 29 24.20	+51 31 51.4	19.3 N	557

C/2000 D2	2000 02 29.10230	06 28 21.88	+51 26 42.9	18.9 N	704
C/2000 D2	2000 02 29.11574	06 28 18.03	+51 26 23.6	19.1 N	704
C/2000 D2	2000 02 29.12919	06 28 14.30	+51 26 04.7	19.2 N	704
C/2000 D2	2000 02 29.14263	06 28 10.56	+51 25 46.7	19.3 N	704
C/2000 D2	2000 02 29.15610	06 28 06.74	+51 25 27.2	19.3 N	704
C/2000 D2	2000 03 01.08934	06 23 53.55	+51 03 38.1	19.4 N	858
C/2000 D2	2000 03 01.09553	06 23 51.92	+51 03 29.3	19.5 N	858
C/2000 D2	2000 03 01.10061	06 23 50.48	+51 03 21.9	19.5 N	858
C/2000 D2	2000 03 01.30963	06 22 54.80	+50 58 24.6		693
C/2000 D2	2000 03 01.31135	06 22 54.32	+50 58 22.1		693
C/2000 D2	2000 03 01.31190	06 22 54.18	+50 58 21.7		693
C/2000 D2	2000 03 02.46130	06 18 01.57	+50 31 09.9	19.1 T	402
C/2000 D2	2000 03 02.46360	06 18 01.08	+50 31 06.8		402
C/2000 D2	2000 03 02.46590	06 18 00.51	+50 31 02.9		402
C/2000 D2	2000 03 02.53056	06 17 44.40	+50 29 31.0	19.2 N	360
C/2000 D2	2000 03 02.53438	06 17 43.49	+50 29 25.3		360
C/2000 D2	2000 03 02.53854	06 17 42.43	+50 29 19.6		360

C/2000 E1 (SOHO)

C/2000 E1	2000 03 04.40423	23 27 23.1	-07 26 33		249
Geocentric position (AU)	+0.00936676	+0.00099107	+0.00075548		
C/2000 E1	2000 03 04.43066	23 27 04.7	-07 24 43		249
Geocentric position (AU)	+0.00936775	+0.00099722	+0.00075736		
C/2000 E1	2000 03 04.44590	23 26 50.8	-07 23 33		249
Geocentric position (AU)	+0.00936831	+0.00100077	+0.00075845		
C/2000 E1	2000 03 04.47090	23 26 32.7	-07 21 38		249
Geocentric position (AU)	+0.00936924	+0.00100659	+0.00076023		
C/2000 E1	2000 03 04.48758	23 26 20.0	-07 20 29		249
Geocentric position (AU)	+0.00936986	+0.00101047	+0.00076142		
C/2000 E1	2000 03 04.51257	23 26 01.0	-07 18 23		249
Geocentric position (AU)	+0.00937078	+0.00101628	+0.00076320		
C/2000 E1	2000 03 04.52923	23 25 47.0	-07 17 16		249
Geocentric position (AU)	+0.00937139	+0.00102016	+0.00076438		
C/2000 E1	2000 03 04.57091	23 25 13.5	-07 13 55		249
Geocentric position (AU)	+0.00937291	+0.00102985	+0.00076735		
C/2000 E1	2000 03 04.59590	23 24 53.0	-07 12 11		249
Geocentric position (AU)	+0.00937382	+0.00103566	+0.00076912		
C/2000 E1	2000 03 04.61256	23 24 39.0	-07 10 40		249
Geocentric position (AU)	+0.00937442	+0.00103953	+0.00077031		
C/2000 E1	2000 03 04.63756	23 24 18.8	-07 08 44		249
Geocentric position (AU)	+0.00937532	+0.00104534	+0.00077208		
C/2000 E1	2000 03 04.65423	23 24 04.6	-07 07 22		249
Geocentric position (AU)	+0.00937592	+0.00104921	+0.00077327		
C/2000 E1	2000 03 04.67925	23 23 44.1	-07 05 29		249
Geocentric position (AU)	+0.00937681	+0.00105502	+0.00077504		
C/2000 E1	2000 03 04.69590	23 23 29.2	-07 04 05		249
Geocentric position (AU)	+0.00937741	+0.00105888	+0.00077622		
C/2000 E1	2000 03 04.72090	23 23 08.1	-07 02 07		249
Geocentric position (AU)	+0.00937829	+0.00106468	+0.00077799		
C/2000 E1	2000 03 04.73757	23 22 53.3	-07 00 48		249
Geocentric position (AU)	+0.00937888	+0.00106855	+0.00077918		
C/2000 E1	2000 03 04.76256	23 22 31.4	-06 58 40		249
Geocentric position (AU)	+0.00937976	+0.00107435	+0.00078095		

C/2000 E1	2000 03 04.77923	23 22 17.3	-06 57 30		249
Geocentric position (AU)	+0.00938035	+0.00107821	+0.00078213		
C/2000 E1	2000 03 04.82090	23 21 39.2	-06 53 55		249
Geocentric position (AU)	+0.00938180	+0.00108788	+0.00078507		
C/2000 E1	2000 03 04.84590	23 21 16.1	-06 51 57		249
Geocentric position (AU)	+0.00938267	+0.00109367	+0.00078684		
C/2000 E1	2000 03 04.86256	23 21 00.5	-06 50 39		249
Geocentric position (AU)	+0.00938324	+0.00109753	+0.00078802		
C/2000 E1	2000 03 04.88784	23 20 35.9	-06 48 36		249
Geocentric position (AU)	+0.00938411	+0.00110338	+0.00078980		
C/2000 E1	2000 03 04.90423	23 20 20.1	-06 47 06		249
Geocentric position (AU)	+0.00938467	+0.00110718	+0.00079096		
C/2000 E1	2000 03 04.92923	23 19 56.3	-06 44 58		249
Geocentric position (AU)	+0.00938553	+0.00111297	+0.00079272		
C/2000 E1	2000 03 04.97100	23 19 14.4	-06 41 26		249
Geocentric position (AU)	+0.00938694	+0.00112263	+0.00079567		
C/2000 E1	2000 03 04.98756	23 18 57.1	-06 39 59		249
Geocentric position (AU)	+0.00938750	+0.00112646	+0.00079684		
C/2000 E1	2000 03 05.01257	23 18 32.1	-06 37 48		249
Geocentric position (AU)	+0.00938834	+0.00113225	+0.00079860		
C/2000 E1	2000 03 05.02923	23 18 13.9	-06 36 22		249
Geocentric position (AU)	+0.00938890	+0.00113610	+0.00079977		
C/2000 E1	2000 03 05.07123	23 17 28.5	-06 32 44		249
Geocentric position (AU)	+0.00939029	+0.00114581	+0.00080273		
C/2000 E1	2000 03 05.09590	23 17 01.5	-06 30 17		249
Geocentric position (AU)	+0.00939111	+0.00115151	+0.00080446		
C/2000 E1	2000 03 05.11257	23 16 42.5	-06 29 01		249
Geocentric position (AU)	+0.00939166	+0.00115536	+0.00080563		
C/2000 E1	2000 03 05.15425	23 15 53.6	-06 25 09		249
Geocentric position (AU)	+0.00939302	+0.00116498	+0.00080856		
C/2000 E1	2000 03 05.17923	23 15 23.2	-06 22 49		249
Geocentric position (AU)	+0.00939383	+0.00117075	+0.00081031		
C/2000 E1	2000 03 05.22098	23 14 28.4	-06 18 43		249
Geocentric position (AU)	+0.00939518	+0.00118038	+0.00081324		
C/2000 E1	2000 03 05.23757	23 14 08.3	-06 18 24		249
Geocentric position (AU)	+0.00939571	+0.00118420	+0.00081440		
C/2000 E1	2000 03 05.26256	23 13 37.7	-06 15 15		249
Geocentric position (AU)	+0.00939651	+0.00118997	+0.00081615		
C/2000 E1	2000 03 05.27923	23 13 12.6	-06 14 14		249
Geocentric position (AU)	+0.00939704	+0.00119381	+0.00081732		
C/2000 E1	2000 03 05.32090	23 12 11.5	-06 09 26		249
Geocentric position (AU)	+0.00939836	+0.00120341	+0.00082023		
C/2000 E1	2000 03 05.33757	23 11 46.8	-06 07 51		249
Geocentric position (AU)	+0.00939889	+0.00120726	+0.00082140		
C/2000 E1	2000 03 05.35423	23 11 20.5	-06 06 08		249
Geocentric position (AU)	+0.00939941	+0.00121109	+0.00082256		

4P/Faye

4P	2000 03 02.61823	09 39 21.06	+03 38 13.9	16.4 T	360
4P	2000 03 02.62205	09 39 20.90	+03 38 15.4		360
4P	2000 03 02.64253	09 39 20.04	+03 38 23.8		360
4P	2000 03 06.24052	09 37 01.34	+04 02 25.1	18.3 T	704
4P	2000 03 06.25381	09 37 00.89	+04 02 32.1		704

9P/Tempel 1						71P	2000 03 14.59149	10 55 42.78	+22 20 08.4	18.7 T	402
9P	2000 02 28.76305	20 31 14.13	-23 13 18.5		413	71P	2000 03 14.59372	10 55 42.63	+22 20 09.2		402
9P	2000 02 28.76917	20 31 15.23	-23 13 16.4		413	71P	2000 03 14.59594	10 55 42.49	+22 20 09.6		402
9P	2000 02 28.77009	20 31 15.39	-23 13 16.0	17.1 N	422		73P/Schwassmann-Wachmann 3				
9P	2000 02 28.77274	20 31 15.89	-23 13 15.4	17.1 N	422		2000 03 01.57378	07 58 56.43	+33 14 50.8	19.5 T	360
9P	2000 02 28.77308	20 31 15.94	-23 13 15.2		413	73P	2000 03 01.57899	07 58 56.24	+33 14 50.3		360
9P	2000 02 28.77541	20 31 16.36	-23 13 14.1		413	73P	2000 03 01.59097	07 58 55.62	+33 14 49.8		360
9P	2000 02 28.77909	20 31 17.04	-23 13 12.8		413		74P/Smirnova-Chernykh				
50P/Arend						74P	2000 03 01.55243	06 50 10.69	+27 46 44.1	15.8 T	348
50P	2000 02 26.19843	07 10 12.06	+44 00 59.3	17.8 T	704	74P	2000 03 01.55940	06 50 10.66	+27 46 44.0		348
50P	2000 02 26.21193	07 10 12.17	+44 00 50.3	17.3 T	704	74P	2000 03 02.52014	06 50 11.06	+27 46 31.0	16.2 T	360
50P	2000 02 26.22765	07 10 12.27	+44 00 40.1	17.6 T	704	74P	2000 03 02.52292	06 50 11.07	+27 46 30.9		360
50P	2000 03 09.57396	07 14 26.60	+41 37 25.4	17.5 T	360	74P	2000 03 02.56915	06 50 11.11	+27 46 29.2	16.0 T	348
50P	2000 03 09.57813	07 14 26.78	+41 37 22.8		360	74P	2000 03 02.57860	06 50 11.08	+27 46 29.3		348
59P/Kearns-Kwee						84P/Giclas					
59P	2000 02 26.94172	07 54 47.52	+21 22 07.3	16.0 N	170		2000 03 01.48299	05 15 42.62	+21 42 07.3	17.5 T	360
59P	2000 03 04.92602	07 54 16.63	+20 57 08.3	18.1 T	504	84P	2000 03 01.48698	05 15 42.84	+21 42 07.4		360
59P	2000 03 04.92976	07 54 16.51	+20 57 07.3	18.5 T	504	84P	2000 03 04.12473	05 18 47.24	+21 52 53.0	19.6 T	704
59P	2000 03 04.93539	07 54 16.64	+20 57 06.4	18.3 T	504	84P	2000 03 04.13791	05 18 48.05	+21 52 54.6	19.3 T	704
59P	2000 03 09.58472	07 54 39.41	+20 39 49.4	17.2 T	360	84P	2000 03 04.15109	05 18 49.06	+21 52 58.2	19.0 T	704
59P	2000 03 09.59063	07 54 39.49	+20 39 47.7		360	84P	2000 03 04.16428	05 18 49.96	+21 53 00.8	19.6 T	704
63P/Wild 1						106P/Schuster					
63P	2000 02 11.78359	14 05 12.75	-17 09 54.4		349	106P	2000 03 01.44705	03 18 35.30	+32 04 54.1	16.7 T	360
63P	2000 02 11.79451	14 05 13.23	-17 10 07.2		349	106P	2000 03 01.45156	03 18 36.05	+32 04 58.3		360
63P	2000 02 11.79728	14 05 13.32	-17 10 10.6	15.8 T	349	114P/Wiseman-Skiff					
63P	2000 02 29.74410	14 13 00.26	-22 28 15.5	16.0 T	372	114P	2000 02 12.52225	04 20 04.76	+15 32 06.9		349
63P	2000 03 02.64051	14 13 11.08	-23 00 24.5	15.1 T	474	114P	2000 02 12.52535	04 20 05.16	+15 32 05.1	15.4 T	349
63P	2000 03 02.64377	14 13 11.16	-23 00 28.3	14.8 T	474	114P	2000 02 21.07479	04 40 04.08	+14 25 11.6	16.7 T	750
63P	2000 03 02.64578	14 13 11.15	-23 00 30.3	14.8 T	474	114P	2000 02 21.08465	04 40 05.52	+14 25 08.5	16.7 T	750
63P	2000 03 02.75417	14 13 11.37	-23 02 26.7	15.6 T	372	114P	2000 02 27.44707	04 55 09.38	+13 42 27.1		349
63P	2000 03 02.76181	14 13 11.37	-23 02 35.1		372	114P	2000 02 27.44948	04 55 09.71	+13 42 24.9	16.2 T	349
63P	2000 03 13.75833	14 11 33.49	-26 00 37.8	14.8 T	360	114P	2000 02 27.48021	04 55 13.96	+13 42 13.1	15.9 T	360
63P	2000 03 13.76076	14 11 33.44	-26 00 40.2		360	114P	2000 02 27.48281	04 55 14.32	+13 42 12.2		360
63P	2000 03 14.38354	14 11 20.01	-26 10 12.1	16.7 T	704	114P	2000 03 05.12231	05 11 04.43	+13 02 20.7	18.1 T	704
63P	2000 03 14.39654	14 11 19.90	-26 10 25.6	17.3 T	704	114P	2000 03 05.13560	05 11 06.34	+13 02 14.6	18.3 T	704
63P	2000 03 14.41026	14 11 19.42	-26 10 36.4	17.1 T	704	114P	2000 03 05.14888	05 11 07.62	+13 02 14.0	19.9 T	704
63P	2000 03 14.42398	14 11 18.98	-26 10 48.2	17.2 T	704	114P	2000 03 05.16229	05 11 10.14	+13 02 04.5	18.3 T	704
63P	2000 03 14.43688	14 11 18.75	-26 11 02.5	16.9 T	704	114P	2000 03 07.14388	05 15 54.39	+12 50 53.8	17.4 T	750
71P/Clark						114P	2000 03 07.14676	05 15 54.74	+12 50 52.7		750
71P	2000 03 02.62882	11 07 53.84	+21 16 49.4	19.1 T	360	114P	2000 03 07.14820	05 15 54.97	+12 50 51.8	17.1 T	750
71P	2000 03 02.63438	11 07 53.47	+21 16 51.3		360	114P	2000 03 08.19102	05 18 24.74	+12 45 04.7	18.6 T	704
71P	2000 03 04.30952	11 06 13.13	+21 27 05.4	19.0 T	704	114P	2000 03 08.20514	05 18 26.53	+12 44 59.1	19.0 T	704
71P	2000 03 04.32276	11 06 12.31	+21 27 09.4	19.1 T	704	114P	2000 03 08.21875	05 18 28.66	+12 44 55.4	18.5 T	704
71P	2000 03 04.33600	11 06 11.44	+21 27 14.0	19.2 T	704	114P	2000 03 08.23233	05 18 30.56	+12 44 51.8	18.2 T	704
71P	2000 03 04.34925	11 06 10.68	+21 27 19.1	19.0 T	704	114P	2000 03 09.10210	05 20 35.67	+12 40 11.2	18.7 T	704
71P	2000 03 04.36249	11 06 09.87	+21 27 24.1	18.8 T	704	114P	2000 03 09.11487	05 20 37.53	+12 40 08.5	20.1 T	704
71P	2000 03 12.33407	10 58 01.11	+22 10 08.1	18.9 T	704	114P	2000 03 09.12763	05 20 39.48	+12 39 57.6	18.3 T	704
71P	2000 03 12.34680	10 58 00.33	+22 10 11.4	19.5 T	704	114P	2000 03 09.14041	05 20 41.28	+12 39 52.9	17.9 T	704
71P	2000 03 12.35953	10 57 59.53	+22 10 14.9	19.5 T	704	114P	2000 03 09.15342	05 20 43.10	+12 39 49.0	18.0 T	704
71P	2000 03 12.37225	10 57 58.75	+22 10 18.6	19.5 T	704						
71P	2000 03 12.38498	10 57 57.92	+22 10 22.4	19.6 T	704						

Note 1: involved with star. 2: unconformed image. 3: prediscovery observation.
4: trailed image.

OBSERVATIONS OF NATURAL SATELLITES

Observations are published here for the following observatory codes:

- 568 Mauna Kea. 3.6-m Canada-France-Hawaii telescope + CCD. Observers J. J. Kavelaars, B. Gladman, J.-M. Petit and H. Scholl.
675 Palomar. 5-m Hale reflector + CCD. Observers P. Nicholson, B. Gladman, J. Burns. Measured by B. Gladman and M. Holman.
695 Kitt Peak. 3.8-m Mayall reflector + CCD. Observers D. Davis, B. Gladman, C. Neese, M. Holman, J. Kavelaars. Measured by B. Gladman.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N Obs.
Saturn IX	1999 08 08.48648	02 58 14.64	+14 22 58.0			675
Saturn IX	1999 08 08.48787	02 58 14.65	+14 22 58.0			675
Saturn IX	1999 08 08.48930	02 58 14.67	+14 22 58.0			675
Saturn IX	1999 08 08.49092	02 58 14.68	+14 22 58.1			675
Saturn IX	1999 08 08.49530	02 58 14.71	+14 22 58.2			675
Saturn IX	1999 08 08.49790	02 58 14.73	+14 22 58.3			675
Saturn IX	1999 08 08.50172	02 58 14.76	+14 22 58.3			675
Saturn IX	1999 08 08.50447	02 58 14.78	+14 22 58.3			675
S/1999 U 1	1999 07 18.51250	21 14 55.58	-16 39 31.9	23.4 R		568
S/1999 U 1	1999 07 18.53981	21 14 55.34	-16 39 32.9			568
S/1999 U 1	1999 07 18.56707	21 14 55.09	-16 39 33.9			568
S/1999 U 1	1999 07 18.59355	21 14 54.87	-16 39 35.1			568
S/1999 U 1	1999 07 19.50227	21 14 47.10	-16 40 12.5			568
S/1999 U 1	1999 07 19.53627	21 14 46.78	-16 40 13.9			568
S/1999 U 1	1999 07 19.57032	21 14 46.47	-16 40 15.3			568
S/1999 U 1	1999 07 21.46464	21 14 29.75	-16 41 35.2	23.1 R		568
S/1999 U 1	1999 07 21.49222	21 14 29.51	-16 41 36.3			568
S/1999 U 1	1999 07 21.51919	21 14 29.26	-16 41 37.5			568
S/1999 U 1	1999 08 08.34182	21 11 43.76	-16 54 26.2	23.2 R		675
S/1999 U 1	1999 08 08.39988	21 11 43.20	-16 54 28.9	23.4 R		675
S/1999 U 1	1999 08 09.29252	21 11 34.74	-16 55 07.7			675
S/1999 U 1	1999 08 09.32396	21 11 34.45	-16 55 09.2	23.1 R		675
S/1999 U 1	1999 09 02.14727	21 07 57.55	-17 11 21.8			695
S/1999 U 1	1999 09 02.16706	21 07 57.42	-17 11 22.7			695
S/1999 U 1	1999 09 02.20248	21 07 57.11	-17 11 24.3			695
S/1999 U 1	1999 10 14.10431	21 04 08.23	-17 27 40.8			695
S/1999 U 1	1999 10 14.13724	21 04 08.16	-17 27 40.8			695
S/1999 U 1	1999 10 14.17006	21 04 08.09	-17 27 41.0			695
S/1999 U 2	1999 07 18.51250	21 13 38.33	-16 49 57.1	24.3 R		568
S/1999 U 2	1999 07 18.53981	21 13 38.09	-16 49 58.3			568
S/1999 U 2	1999 07 18.56707	21 13 37.83	-16 49 59.6			568
S/1999 U 2	1999 07 18.59355	21 13 37.61	-16 50 00.6			568
S/1999 U 2	1999 07 19.50227	21 13 29.54	-16 50 39.5			568
S/1999 U 2	1999 07 19.53627	21 13 29.22	-16 50 41.0			568
S/1999 U 2	1999 07 19.57032	21 13 28.89	-16 50 42.4			568
S/1999 U 2	1999 07 19.61147	21 13 28.52	-16 50 44.7			568
S/1999 U 2	1999 07 21.46464	21 13 11.76	-16 52 06.7	24.3 R		568
S/1999 U 2	1999 07 21.49222	21 13 11.49	-16 52 08.1			568

S/1999 U 2	1999 07 21.51919	21 13 11.26	-16 52 09.3			568
S/1999 U 2	1999 08 09.27571	21 10 12.46	-17 06 25.9	24.2 R		675
S/1999 U 2	1999 08 09.28309	21 10 12.40	-17 06 26.1	23.7 R		675
S/1999 U 2	1999 08 09.30884	21 10 12.16	-17 06 27.3	24.1 R		675
S/1999 U 2	1999 08 09.31626	21 10 12.07	-17 06 27.4	24.2 R		675
S/1999 U 2	1999 08 09.33984	21 10 11.82	-17 06 28.8	23.8 R		675
S/1999 U 2	1999 08 09.34726	21 10 11.76	-17 06 28.9	23.9 R		675
S/1999 U 2	1999 09 02.14727	21 06 29.50	-17 23 30.9			695
S/1999 U 2	1999 09 02.16706	21 06 29.32	-17 23 31.1			695
S/1999 U 2	1999 09 02.20248	21 06 29.01	-17 23 32.7			695
S/1999 U 3	1999 07 18.52608	21 12 55.18	-16 47 38.0			675
S/1999 U 3	1999 07 18.55337	21 12 54.93	-16 47 39.1			675
S/1999 U 3	1999 07 18.58036	21 12 54.68	-16 47 40.2			675
S/1999 U 3	1999 08 08.35032	21 09 39.01	-17 01 47.8			675
S/1999 U 3	1999 08 08.45389	21 09 38.00	-17 01 52.8			675
S/1999 U 3	1999 08 08.45897	21 09 37.92	-17 01 53.1			675
S/1999 U 3	1999 08 09.30043	21 09 29.88	-17 02 28.0	23.0 R		675
S/1999 U 3	1999 08 09.33244	21 09 29.55	-17 02 29.2	23.3 R		675
S/1999 U 3	1999 09 02.15840	21 05 48.91	-17 17 49.5			695
S/1999 U 3	1999 09 02.17566	21 05 48.77	-17 17 50.1			695
S/1999 U 3	1999 09 02.18331	21 05 48.71	-17 17 50.3			695
S/1999 U 3	1999 09 03.13313	21 05 40.71	-17 18 23.0			695
S/1999 U 3	1999 09 03.15951	21 05 40.44	-17 18 24.0			695
S/1999 U 3	1999 09 03.17465	21 05 40.32	-17 18 24.2			695
S/1999 U 3	1999 10 15.08167	21 01 52.36	-17 32 48.5			695
S/1999 U 3	1999 10 15.11494	21 01 52.27	-17 32 48.4			695
S/1999 U 3	1999 10 15.14692	21 01 52.21	-17 32 48.5			695
Neptune II	1999 07 18.42194	20 21 59.58	-19 08 43.3	19.1 R		568
Neptune II	1999 07 18.44904	20 21 59.41	-19 08 44.1			568
Neptune II	1999 07 18.47602	20 21 59.23	-19 08 44.5			568
Neptune II	1999 08 10.20691	20 19 32.00	-19 17 05.2			675
Neptune II	1999 08 10.21178	20 19 31.97	-19 17 05.3			675
Neptune II	1999 08 10.21667	20 19 31.94	-19 17 05.4			675

OBSERVATIONS OF MINOR PLANETS

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

010 Caussols

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

Observers C. Pollas, D. Albanese

Measurer E. W. Elst

0.9-m Schmidt telescope

1993 BG₄, 3, 1, 0; 1993 QN₁, 3, 1, 0; 1993 QK₅, 3, 1, 0; 1998 XU₂, 6, 1, 0; 1999 VX₇₃, 3, 1, 0; 2000 BE₂₈, 3, 1, 0; 2000 CB₃₅, 3, 1, 0; 2000 CG₃₆, 2, 1, 0; 2000 DV₅₉, 3, 1, 0; 2000 DG₇₅, 3, 1, 0; 3447 T-3, 3, 1, 0; [35, 11, 0*, 1993/02/20-1996/02/17]

012 Uccle

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

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

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

Measurers E. W. Elst, T. Pauwels

0.85-m $f/2.5$ Schmidt + CCD

GSC-1.2

{1} 1990 UC₁, 4, 2, 1; 1992 BP₂, 2, 1, 0; 1992 ET₃₂, 2, 1, 0; 1994 PD₈, 2, 1, 0; 1994 PW₂₇, 2, 1, 0; 1998 WY₁₈, 2, 1, 0; 1999 VQ₄₉, 2, 1, 0; 1999 VC₁₅₁, 2, 1, 0; 1999 XN₄₃, 4, 2, 14; 1999 XJ₁₁₈, 2, 1, 0; 1999 XE₁₁₉, 2, 1, 0; 1999 XV₁₁₉, 2, 1, 0; 2000 DG₇₁, 2, 1, 0; 2000 DH₇₄, 2, 1, 0; 2000 DL₇₈, 2, 1, 0; 2000 DM₇₈, 2, 1, 0; 2000 DN₇₈, 2, 1, 0; 2000 EW₇, 2, 1, 0; 2000 EN₂₆ *, 4, 2, 1; 2000 EO₂₆ *, 4, 2, 1; (2142), 2, 1, 0; [50, 21, 2*, 1999/10/18–2000/03/06]

{2} 1978 VW₉, 5, 1, 0; 1990 OX₁, 5, 1, 0; 1990 OK₃, 5, 1, 0; 1990 SC₃, 5, 1, 0; 1992 GV₃, 5, 1, 0; 1992 RM₇, 3, 1, 0; 1994 PU₃₇, 3, 1, 0; 1995 AE₄, 5, 1, 0; 1998 QQ₃₅, 5, 1, 0; 1998 RN₅₆, 5, 1, 0; 1998 SH₄₉, 1, 1, 0; 1998 SC₁₃₂, 5, 1, 0; 1998 WY₅, 3, 1, 0; 1999 RR₈₇, 5, 1, 0; 1999 XB₁₀₈, 5, 1, 0; 2000 AS₄₂, 3, 1, 0; 2000 AV₆₁, 8, 2, 3; 2000 AW₆₁, 8, 2, 3; 2000 AU₁₆₂, 21, 4, 17; 2000 AL₂₀₅, 5, 1, 0; 2000 AA₂₂₇, 2, 1, 0; 2000 CX₁, 16, 3, 5; 2000 CH₂₀, 6, 2, 3; 2000 CS₃₄, 5, 1, 0; 2000 CN₆₇, 3, 1, 0; 2000 CW₁₀₁ *, 25, 5, 28; 2000 CX₁₀₁ *, 15, 3, 15; 2000 DJ₁₁₀ *, 9, 2, 5; 2000 DK₁₁₀ *, 10, 2, 5; 2000 DL₁₁₀ *, 15, 3, 28; 2000 DM₁₁₀ *, 10, 2, 5; 2000 DN₁₁₀ *, 10, 2, 5; 2000 DO₁₁₀ *, 10, 2, 5; 2000 DP₁₁₀ *, 8, 2, 5; 2000 EB₁₉, 5, 1, 0; (4610), 13, 3, 5; (5899), 5, 1, 0; (9693), 5, 1, 0; (11291), 5, 1, 0; (13069), 8, 2, 2; (13646), 8, 2, 3; [303, 41, 9*, 1999/10/13–2000/03/02]

017 Hoher List

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

Observer H. Boffin

Measurers T. Pauwels, H. Boffin

1-m reflector + CCD

GSC 1.2

1999 XW₁₆₂, 5, 1, 0; [5, 1, 0*, 2000/02/13]

033 Tautenburg

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

1.3-m Schmidt telescope

PPM

1986 AB, 2, 1, 0; 1987 DL₆, 3, 2, 2; 1993 TM₃₉, 2, 1, 0; 1995 AW₄, 2, 1, 0; 2000 CV₄₀, 2, 1, 0; 2000 DW₉₇, 2, 1, 0; 4239 P-L, 2, 1, 0; [15, 7, 0*, 1992/09/06–1995/03/23]

046 Kleť

J. Tichá, Hvězdárna Kleť, Zátokovo nábreží 4, CZ-37001 České Budějovice, Czech

Republic [klet@klet.cz]

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

Measurers M. Tichý, Z. Moravec

0.57-m $f/5.2$ reflector + CCD

USNO-A2.0

1996 AO₁, 6, 2, 1; 1997 GY, 3, 1, 0; 1997 QK, 6, 2, 1; 1998 VV₁₅, 4, 1, 0; 1998 XS₁₅, 7, 2, 7; 1998 XN₁₇, 8, 1, 0; 1998 YK₁, 4, 1, 0; 1998 YC₈, 3, 1, 0; 1999 CL₁₀, 3, 1, 0; 2000 AU₄₉, 5, 1, 0; 2000 AJ₂₀₄, 5, 1, 0; 2000 AH₂₄₆, 3, 1, 0; 2000 BE₁₉, 5, 1, 0; 2000 BJ₁₉, 7, 2, 7; 2000 CK₃₃, 3, 1, 0; 2000 CN₃₃, 4, 1, 0; 2000 CC₃₄, 4, 1, 0; 2000 CO₃₉, 8, 2, 2; 2000 CE₅₉, 4, 1, 0; 2000 CF₅₉, 7, 2, 7; 2000 CG₅₉, 5, 1, 0; 2000 CB₈₅, 16, 2, 1; 2000 CT₁₀₁, 5, 1, 0; 2000 DL₁, 9, 2, 1; 2000 DM₁, 14, 3, 14; 2000 DN₁, 11, 3, 9; 2000 DO₁, 13, 3, 8; 2000 DQ₁ *, 13, 2, 1; 2000 DF₈, 12, 2, 1; 2000 DG₈, 5, 1, 0; 2000 DH₈, 15, 3, 2; 2000 DJ₈, 11, 2, 1; 2000 DK₈, 11, 2, 16; 2000 DL₈, 9, 2, 1; 2000 DM₈, 14, 3, 4; 2000 DN₈, 6, 1, 0; 2000 DO₈, 4, 1, 0; 2000 DP₁₀₇, 22, 4, 4; 2000 DQ₁₁₀, 13, 3, 6; 2000 EZ₁₃, 5, 1, 0; 2000 EA₁₄, 7, 3, 2; 2000 EB₁₄, 3, 1, 0; 2000 EC₁₄, 4, 1, 0; 2000 ED₁₄, 9, 2, 7; 2000 EE₁₄, 5, 1, 0; 2000 EK₂₆, 9, 2, 7; 2000 EM₂₆, 4, 1, 0; 2000 ES₇₀, 11, 2, 2; 2000 ET₇₀, 11, 2, 2; 2000 EU₇₀, 5, 1, 0; 2000 EV₇₀, 6, 1, 0; 2000 EW₇₀, 10, 2, 7; 2000 EC₁₀₄, 5, 1, 0; 2000 ED₁₀₄,

6, 1, 0; 2000 EE₁₀₄, 14, 2, 2; 2000 EF₁₀₄, 6, 1, 0; 2000 EG₁₀₄, 6, 1, 0; (9999), 4, 1, 0; [437, 58, 1*, 1997/06/10–2000/03/18]

049 Kvistaberg

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

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

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

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

1.0m Schmidt + CCD

USNO-SA2.0

1977 RS₁₇, 3, 1, 0; 1979 QX₂, 6, 2, 4; 1985 UO₃, 3, 1, 0; 1990 OK₃, 3, 1, 0; 1992 RM₇, 3, 1, 0; 1992 SY₂₄, 6, 2, 6; 1994 QC, 6, 2, 2; 1997 ER₅, 3, 1, 0; 1997 LY₂, 6, 2, 7; 1998 QQ₃₅, 3, 1, 0; 1998 SG₆₅, 9, 2, 6; 1998 WY₅, 3, 1, 0; 1998 YC₁, 3, 1, 0; 1999 VQ₇₇, 3, 1, 0; 1999 VH₉₂, 3, 1, 0; 1999 XQ₃₅, 3, 1, 0; 1999 XG₆₂, 3, 1, 0; 1999 XN₉₁, 3, 1, 0; 1999 XQ₉₆, 3, 1, 0; 1999 XT₁₅₂, 3, 1, 0; 1999 XE₁₆₇, 3, 1, 0; 1999 XR₁₇₃, 3, 1, 0; 1999 XB₂₁₁, 3, 1, 0; 1999 XU₂₂₃, 3, 1, 0; 1999 YS₁₅, 3, 1, 0; 2000 AX₆₇, 3, 1, 0; 2000 AQ₈₄, 3, 1, 0; 2000 AH₉₈, 3, 1, 0; 2000 AV₂₄₃, 3, 1, 0; 2000 BG₁₉, 6, 2, 1; 2000 CX₁, 3, 1, 0; 2000 CO₅₃, 12, 4, 14; 2000 CM₆₀, 4, 1, 0; 2000 CF₆₄, 3, 1, 0; 2000 CL₉₁, 6, 2, 6; 2000 CB₉₃, 3, 1, 0; 2000 CL₉₃, 3, 1, 0; 2000 CW₁₀₁, 3, 1, 0; 2000 DR, 3, 1, 0; 2000 DD₅₂, 3, 1, 0; 2000 DZ₅₄, 3, 1, 0; 2000 DK₅₅, 3, 1, 0; 2000 DQ₅₅, 3, 1, 0; 2000 DF₅₆, 6, 1, 0; 2000 DG₅₆, 3, 1, 0; 2000 DH₅₆, 3, 1, 0; 2000 DS₆₀, 6, 2, 6; 2000 DA₆₁, 3, 1, 0; 2000 DE₆₁, 6, 2, 6; 2000 DN₆₆, 9, 3, 12; 2000 DU₆₆, 9, 3, 8; 2000 DE₆₇, 6, 2, 3; 2000 DE₈₈, 3, 1, 0; 2000 DF₈₈, 3, 1, 0; 2000 DK₁₁₀, 6, 1, 0; 2000 DL₁₁₀, 3, 1, 0; 2000 EB₅₇, 3, 1, 0; 2000 EC₅₇, 3, 1, 0; 2000 ED₅₇, 6, 1, 0; 2000 EE₅₇, 3, 1, 0; 2000 EF₅₇, 3, 1, 0; 2000 EH₅₇, 3, 1, 0; 2000 ES₇₀, 3, 1, 0; 2000 EW₇₀, 3, 1, 0; 2000 ES₇₁, 3, 1, 0; 2000 EC₇₅, 3, 1, 0; 2000 EF₇₅ *, 6, 2, 7; 2000 EN₁₀₆ *, 6, 2, 6; 2000 EO₁₀₆ *, 6, 2, 6; 2000 EP₁₀₆ *, 6, 2, 4; 2000 EQ₁₀₆ *, 6, 2, 4; 2000 ER₁₀₆ *, 6, 2, 5; (246), 3, 1, 0; (1557), 6, 2, 1; (2438), 3, 1, 0; (2466), 3, 1, 0; (3733), 3, 1, 0; (4188), 3, 1, 0; (4862), 4, 1, 0; (4968), 6, 2, 1; (5886), 3, 1, 0; (6629), 3, 1, 0; (9031), 3, 1, 0; (9206), 3, 1, 0; (11378), 9, 3, 7; (11382), 3, 1, 0; (13042), 3, 1, 0; (13069), 3, 1, 0; (13382), 9, 3, 7; (13556), 4, 1, 0; (13610), 3, 1, 0; [375, 91, 6*, 1999/11/03–2000/03/17]

057 Belgrade

V. Protitch-Benishek, Astronomical Observatory, Volgina 7, YG-11050 Belgrade, Yugoslavia [vprotic@aob.aob.bg.ac.yu]

Observers V. Protitch-Benishek, Vl. Benishek, I. Graovac

0.14-m $f/10$ Askania astrograph + CCD

GSC

2000 DO₁, 4, 1, 0; [4, 1, 0*, 2000/03/07]

098 Asiago Observatory, Cima Ekar

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

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

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

0.67-m $f/3.2$ Schmidt

1998 WJ₂₂, 2, 1, 0; 1998 XR₉₄, 2, 1, 0; [4, 2, 0*, 1997/09/24–1998/10/26]

104 San Marcello Pistoiese

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

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

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

0.40-m $f/5$ reflector + CCD

GSC

1990 OK₃, 2, 1, 0; 1992 UZ₃, 2, 1, 0; 1993 OX₂, 4, 1, 0; 1994 QC, 2, 1, 0; 1995 DG₁₃, 3, 2, 2; 1996 CX₈, 2, 1, 0; 1997 TA₂₆, 4, 1, 0; 1998 SS₁₃₂, 6, 2, 2; 1998 WQ₁, 3, 1, 0; 1998 XA₃, 6, 2, 2; 1998 XB₅, 2, 1, 0; 1998 XV₃₅, 3, 1, 0; 1998 YD₁₀, 2, 1, 0; 1999 AF₂₄, 3, 1, 0; 1999 VN₆, 3, 1, 0; 2000 AX₄, 4, 1, 0; 2000 AZ₄, 1, 1, 0; 2000 AH₆, 2, 1, 0; 2000 AU₄₉, 3, 1, 0; 2000 BE₁₉, 2, 1, 0; 2000 BJ₁₉, 3, 1, 0; 2000 BM₁₉, 4, 1, 0; 2000 CQ₁, 3, 1, 0; 2000 CT₁, 10, 3, 2; 2000 CU₁, 3, 1, 0;

2000 CV₁, 3, 1, 0; 2000 CS₃₄, 3, 1, 0; 2000 CA₅₁, 6, 2, 4; 2000 CE₅₉, 6, 2, 17; 2000 CF₅₉, 2, 1, 0; 2000 CG₅₉, 2, 1, 0; 2000 CH₅₉, 3, 1, 0; 2000 CZ₉₃, 4, 1, 0; 2000 CR₉₄, 7, 3, 4; 2000 CL₉₇, 7, 2, 2; 2000 CP₁₀₁, 3, 1, 0; 2000 CC₁₀₄, 2, 1, 0; 2000 DG *, 18, 6, 19; 2000 DL₁, 4, 1, 0; 2000 DM₁, 3, 1, 0; 2000 DN₁, 11, 3, 8; 2000 DM₂, 3, 1, 0; 2000 DR₃ *, 12, 4, 17; 2000 DG₈, 3, 1, 0; 2000 DH₈, 2, 1, 0; 2000 DL₈, 2, 1, 0; 2000 DM₈, 2, 13; 2000 DO₈, 4, 1, 0; 2000 DP₁₀₇, 7, 2, 4; 2000 DQ₁₁₀, 3, 1, 0; 2000 EA₁₄, 3, 1, 0; 2000 ED₁₄, 8, 1, 0; 2000 EE₁₄, 4, 1, 0; 2000 EF₁₄ *, 10, 4, 10; 2000 EG₁₄ *, 5, 2, 2; 2000 EH₁₄ *, 4, 2, 2; 2000 EJ₁₄ *, 7, 3, 4; 2000 EF₁₅ *, 8, 3, 10; 2000 EH₂₆, 2, 1, 0; 2000 EJ₂₆, 2, 1, 0; 2000 EK₂₆, 3, 1, 0; 2000 EM₂₆, 3, 1, 0; 2000 ES₇₀, 3, 1, 0; 2000 ET₇₀, 3, 1, 0; 2000 EV₇₀, 3, 1, 0; 2777 P-L, 5, 2, 7; (9952), 10, 3, 6; (12812), 2, 1, 0; [294, 68, 7*, 1998/12/18–2000/03/13]

106 Črni vrh

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

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

0.36-m $f/6.7$ Schmidt-Cassegrain + CCD, 0.19-m $f/4$ Schmidt-Cassegrain + CCD
USNO-A2.0

1993 FS₁₁, 3, 1, 0; 1993 FZ₅₅, 3, 1, 0; 1996 BM₅, 2, 1, 0; 1998 RH₆₃, 3, 1, 0; 1998 RL₈₀, 3, 1, 0; 1998 SA₂₅, 3, 1, 0; 1998 SU₃₇, 3, 1, 0; 1998 SF₆₁, 3, 1, 0; 1998 SN₁₃₅, 3, 1, 0; 1998 SE₁₄₄, 3, 1, 0; 1998 UL₈, 3, 1, 0; 1998 VO₆, 3, 1, 0; 1998 VN₁₁, 3, 1, 0; 1998 VQ₂₅, 3, 1, 0; 1998 VN₃₂, 9, 2, 3; 1998 VV₃₄, 2, 1, 0; 1998 VO₃₈, 3, 1, 0; 1998 VQ₃₈, 3, 1, 0; 1998 WE, 3, 1, 0; 1998 WH₄, 3, 1, 0; 1998 WD₁₂, 3, 1, 0; 1998 WA₁₈, 3, 1, 0; 1998 WJ₁₈, 3, 1, 0; 1998 XP₂, 3, 1, 0; 1998 XS₉, 3, 1, 0; 1998 XV₁₂, 5, 2, 4; 1998 XP₂₇, 3, 1, 0; 1998 XA₃₃, 3, 1, 0; 1998 XV₄₉, 3, 1, 0; 1998 XS₇₃, 3, 1, 0; 1998 XR₉₂, 2, 1, 0; 1998 YB₇, 2, 1, 0; 1998 YV₁₁, 3, 1, 0; 1999 AM₂₀, 3, 1, 0; 1999 XF₁₄, 3, 1, 0; 1999 XL₁₄, 3, 1, 0; 1999 XW₂₁, 3, 1, 0; 1999 XM₃₂, 3, 1, 0; 1999 XG₃₄, 3, 1, 0; 1999 XB₃₅, 3, 1, 0; 1999 XV₉₄, 3, 1, 0; 1999 XR₁₃₆, 3, 1, 0; 1999 XS₁₃₆, 3, 1, 0; 1999 XO₁₄₃, 3, 1, 0; 1999 XX₁₆₄, 3, 1, 0; 1999 XD₂₂₁, 3, 1, 0; 1999 YV₁₃, 3, 1, 0; 1999 YJ₁₆, 3, 1, 0; 1999 YK₁₆, 3, 1, 0; 2000 AO₅, 3, 1, 0; 2000 AP₅₀, 3, 1, 0; 2000 AT₅₀, 3, 1, 0; 2000 AW₅₇, 3, 1, 0; 2000 AA₆₀, 3, 1, 0; 2000 AU₆₁, 3, 1, 0; 2000 AE₆₂, 3, 1, 0; 2000 AF₆₂, 3, 1, 0; 2000 AK₆₂, 3, 1, 0; 2000 AJ₆₅, 3, 1, 0; 2000 AD₆₈, 3, 1, 0; 2000 AE₆₈, 3, 1, 0; 2000 AS₉₅, 3, 1, 0; 2000 AM₉₆, 3, 1, 0; 2000 AN₉₆, 3, 1, 0; 2000 AO₉₆, 3, 1, 0; 2000 AP₉₆, 3, 1, 0; 2000 AT₉₆, 3, 1, 0; 2000 AW₉₆, 3, 1, 0; 2000 AY₉₆, 8, 3, 5; 2000 AZ₉₆, 3, 1, 0; 2000 AA₉₇, 3, 1, 0; 2000 AC₉₇, 3, 1, 0; 2000 AH₉₇, 2, 1, 0; 2000 AJ₉₇, 3, 1, 0; 2000 AY₉₇, 3, 1, 0; 2000 AB₉₈, 3, 1, 0; 2000 AF₉₈, 3, 1, 0; 2000 AB₁₂₇, 3, 1, 0; 2000 AM₁₂₇, 3, 1, 0; 2000 AY₁₂₇, 3, 1, 0; 2000 AS₁₂₈, 3, 1, 0; 2000 AW₁₂₈, 3, 1, 0; 2000 AG₁₃₃, 3, 1, 0; 2000 AE₁₃₇, 3, 1, 0; 2000 AN₁₄₁, 3, 1, 0; 2000 AD₁₄₂, 3, 1, 0; 2000 AL₁₄₂, 3, 1, 0; 2000 AX₁₄₂, 3, 1, 0; 2000 AU₁₄₃, 3, 1, 0; 2000 AL₁₄₄, 3, 1, 0; 2000 AT₁₄₄, 3, 1, 0; 2000 AS₁₆₂, 3, 1, 0; 2000 AF₁₆₄, 3, 1, 0; 2000 AG₁₆₄, 6, 2, 9; 2000 AQ₁₆₄, 3, 1, 0; 2000 AU₁₉₅, 3, 1, 0; 2000 AS₁₉₇, 3, 1, 0; 2000 AZ₁₉₇, 3, 1, 0; 2000 AE₁₉₈, 3, 1, 0; 2000 AR₁₉₈, 3, 1, 0; 2000 AJ₂₀₃, 3, 1, 0; 2000 AK₂₀₃, 3, 1, 0; 2000 AZ₂₀₃, 3, 1, 0; 2000 AF₂₂₂, 3, 1, 0; 2000 AO₂₃₇, 3, 1, 0; 2000 AS₂₄₂, 3, 1, 0; 2000 AU₂₄₂, 3, 1, 0; 2000 BP₃, 3, 1, 0; 2000 CR₅₃, 6, 2, 3; 2000 CH₅₆, 3, 1, 0; 2000 CC₆₃, 5, 2, 5; 2000 CR₉₁, 3, 1, 0; 2000 CU₁₀₁ *, 9, 3, 10; 2000 DO₆, 6, 2, 2; 2000 DY, 3, 1, 0; 2000 DO₁, 3, 1, 0; 2000 DX₆, 3, 1, 0; 2000 DH₈, 2, 1, 0; 2000 DM₈, 4, 1, 0; 2000 DX₁₇ *, 6, 2, 3; 2000 DP₁₀₇, 3, 1, 0; 2000 DQ₁₁₀, 6, 2, 4; 2000 EF₈, 3, 1, 0; 2000 ED₁₄, 3, 1, 0; 2000 EL₁₆, 3, 1, 0; 2000 EY₃₁, 3, 1, 0; 2777 P-L, 3, 1, 0; 3005 P-L, 3, 1, 0; 4161 T-1, 3, 1, 0; 2266 T-2, 3, 1, 0; 4310 T-3, 3, 1, 0; 4327 T-3, 3, 1, 0; (294), 3, 1, 0; (1317), 3, 1, 0; (1550), 3, 1, 0; (3713), 3, 1, 0; (3883), 3, 1, 0; (4537), 3, 1, 0; (5006), 3, 1, 0; (6737), 3, 1, 0; (7779), 3, 1, 0; (9369), 2, 1, 0; (9753), 3, 1, 0; (10030), 3, 1, 0; (13124), 3, 1, 0; (13351), 3, 1, 0; (13624), 3, 1, 0; (13764), 3, 1, 0; (13779), 3, 1, 0; (13794), 3, 1, 0; (13801), 3, 1, 0; (13811), 3, 1, 0; (13814), 3, 1, 0; (13879), 3, 1, 0; (13900), 3, 1, 0; [495, 155, 2*, 2000/01/25–2000/03/08]

108 Montelupo

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

[iau@arcetri.astro.it]

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

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

0.30-m $f/5.7$ Schmidt-Cassegrain + CCD

GSC

1999 XE₁₆₇, 3, 1, 0; [3, 1, 0*, 1999/12/13]

113 Volkssternwarte Drebach, Schönbrunn

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

[g.lehmann@abo.freiepresse.de]

Observers G. Lehmann, J. Kandler, A. Knoefel

Measurer J. Kandler, A. Knoefel

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

USNO-A2.0

1987 QT, 3, 1, 0; 1988 VN₇, 2, 1, 0; 1990 TF₈, 2, 1, 0; 1991 RU₂, 2, 1, 0; 1991 RJ₄₁, 2, 1, 0; 1992 ST₁₃, 5, 2, 1; 1998 VY₃₃, 2, 1, 0; 2000 DL₁, 7, 1, 0; 2000 DP₁ *, 8, 3, 9; [33, 9, 1*, 2000/02/26–2000/03/07]

117 Sendling

H. Beuchat, European Patent Office, Erhardstrasse 27, D-80331 Munich, Germany

[100341.75@compuserve.com]

0.20-m $f/10$ reflector + CCD

GSC

1991 DB, 3, 2, 13; (5), 13, 4, 14; (98), 16, 5, 14; (129), 17, 5, 14; (674), 14, 5, 14; (1036), 14, 5, 14; (1627), 13, 5, 14; [90, 7, 0*, 2000/02/27–2000/03/13]

118 Modra

A. Galád, AGO MFF UK, P.O. Box 4, SK-90001 Modra, Slovakia

[ago@fmph.uniba.sk]

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

0.6-m $f/5.5$ reflector + CCD

USNO-A2.0, USNO-A1.0

1982 QA₂, 2, 1, 0; 1994 QC, 2, 1, 0; 1995 QD₂, 2, 1, 0; 1996 DH, 2, 1, 0; 1997 PZ₁, 2, 1, 0; 1997 QS, 2, 1, 0; 1997 TR, 3, 1, 0; 1997 WU₂₂, 4, 2, 9; 1998 QE₁₇, 3, 1, 0; 1999 NC₄₃, 9, 4, 19; 1999 RH₂₇, 2, 1, 0; 1999 US₃, 2, 1, 0; 1999 YN₄, 3, 1, 0; 1999 YK₅, 2, 1, 0; 2000 AC₄₈, 2, 1, 0; 2000 AB₂₂₉, 3, 1, 0; 2000 AU₂₄₂, 2, 1, 0; 2000 BM₁₉, 2, 1, 0; 2000 CQ, 3, 1, 0; 2000 CX₂, 5, 2, 6; 2000 CN₃₃, 2, 1, 0; 2000 CX₄₀, 3, 1, 0; 2000 CE₅₉, 3, 1, 0; 2000 CF₅₉, 2, 1, 0; 2000 CO₁₀₁, 5, 2, 1; 2000 CP₁₀₁, 3, 1, 0; 2000 CQ₁₀₁, 2, 1, 0; 2000 CR₁₀₁, 3, 1, 0; 2000 DM₁, 6, 2, 12; 2000 DN₁, 12, 4, 5; 2000 DO₁, 3, 1, 0; 2000 DG₈, 6, 2, 1; 2000 DH₈, 9, 3, 7; 2000 DK₈, 9, 3, 2; 2000 DL₈, 3, 1, 0; 2000 DM₈, 14, 5, 14; 2000 DN₈, 6, 2, 1; 2000 DP₁₀₇, 3, 1, 0; 2000 DQ₁₁₀, 6, 2, 5; 2000 ES₇₀, 3, 1, 0; 2000 ET₇₀, 6, 2, 6; (269), 3, 1, 0; (1025), 2, 1, 0; (1685), 4, 2, 5; (3934), 2, 1, 0; (4055), 2, 1, 0; (4486), 2, 1, 0; (4996), 8, 4, 6; (5186), 2, 1, 0; (5604), 9, 4, 14; (7092), 2, 1, 0; (7570), 2, 1, 0; (11739), 2, 1, 0; [206, 53, 0*, 2000/02/22–2000/03/18]

120 Višnjan

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

Observers K. Korlević, M. Jurić, P. Korlević, P. Radovan, M. Dusic, A. Ritosa

Measurers K. Korlević, M. Jurić

0.41-m $f/4.3$ reflector + CCD

USNO-SA1.0

1978 RH₉, 2, 1, 0; 1981 EU₂₅, 3, 1, 0; 1981 EH₂₈, 9, 4, 7; 1981 EQ₄₇, 6, 2, 3; 1981 RR₃, 12, 4, 11; 1985 RM₃, 2, 1, 0; 1991 PO₄, 3, 1, 0; 1991 RJ₄₁, 3, 1, 0; 1991 VM₁₂, 5, 2, 13; 1992 EK₁₂, 3, 1, 0; 1992 EN₁₂, 4, 2, 1; 1993 FX₁₆, 2, 1, 0; 1993 FW₄₁, 6, 3, 4; 1993 FA₄₅, 2, 1, 0; 1993 SG₁, 3, 1, 0; 1994 CX₁₀, 2, 1, 0; 1994 PF₁₁, 5, 2, 1; 1995 WB₂₂, 2, 1, 0; 1996 CR₈, 7, 2, 9; 1996 HM₁₁, 12, 5, 15; 1996 NG, 2, 1, 0; 1996 TR₁₄, 9, 3, 5; 1997 SG₂₅, 2, 1, 0; 1997 SK₂₅, 5, 2, 11; 1997 UX₂₀, 6, 2, 13; 1997 WV₁₃, 6, 2, 3; 1998 QZ₂₅, 8, 4, 7; 1998 QV₅₀, 5, 2, 25; 1998 QL₉₂, 2, 1, 0; 1998 RX₁₇, 3, 1, 0; 1998 RB₇₅, 8, 3, 6; 1998 RN₈₀, 3, 1, 0; 1998 SG₃₀, 3, 1, 0; 1998 SP₄₂, 5, 2, 1; 1998 SF₅₇, 3, 1, 0; 1998 SD₁₁₂, 2, 1, 0; 1998 SW₁₄₅, 3, 1, 0; 1998 SZ₁₅₅, 3, 1, 0; 1998 TC₆, 5, 2, 17; 1998 UD₂₉, 4, 1, 0; 1998 VX₅, 2, 1, 0; 1998 VN₁₁, 8, 3, 6; 1998 VN₂₈, 3, 1, 0; 1998 VX₄₅, 2, 1, 0; 1998 WG₂, 7, 3, 6; 1998 WL₅, 12, 5, 8; 1998 YV₁₆, 3, 1, 0; 1999 CR₆₄, 2, 1, 0; 1999 XM₃₃, 3, 1, 0; 1999 XU₁₆₅, 2, 1, 0; 2000 AC₄₈, 2, 1, 0; 2000 AA₆₄, 5, 2, 4; 2000 AT₆₄, 4, 1, 0; 2000 AA₆₅, 9, 3, 4; 2000 AL₉₁, 3, 1, 0; 2000 AH₉₂, 3, 1, 0; 2000 AD₉₇, 2, 1, 0; 2000 AF₉₇, 4, 2, 1; 2000 AX₁₂₉, 2, 1, 0; 2000 AW₁₄₄, 3, 1, 0; 2000 AT₂₃₇, 8, 3, 6; 2000 AJ₂₄₆, 6, 2, 2; 2000 BG₂, 3, 1, 0; 2000 BC₃, 4, 2, 1; 2000 BD₃, 5, 2, 4; 2000 BQ₃, 3, 1, 0; 2000 BC₁₄, 6, 2, 1; 2000 BP₂₂, 3, 1, 0; 2000 BW₂₆, 3, 1, 0; 2000 CF, 3, 1, 0; 2000 CX, 2, 1, 0; 2000 CF₁, 3, 1, 0; 2000 CK₁, 3, 1, 0; 2000 CM₁, 3, 1, 0; 2000 CR₃₁, 3, 1, 0; 2000 CA₃₄, 3, 1, 0; 2000 CE₃₄, 3, 1, 0; 2000 CF₃₄, 7, 3, 4; 2000 CJ₃₄, 3, 1, 0; 2000 CK₃₄, 5, 2, 1; 2000 CL₃₄, 5, 2, 1; 2000 CS₃₄, 13, 5, 12; 2000 CC₃₇, 3, 1, 0; 2000 CD₃₇, 3, 1, 0; 2000 CQ₃₉, 8, 3, 4; 2000 CN₄₀, 2, 1, 0; 2000 CB₅₃, 3, 1, 0; 2000 CS₅₄, 3, 1, 0; 2000 CS₆₅, 2, 1, 0; 2000 CK₇₂, 3, 1, 0; 2000 CE₇₆, 3, 1, 0; 2000 CF₇₆, 2, 1, 0; 2000 CL₇₆, 3, 1, 0; 2000 CO₇₆, 5, 2, 1; 2000 CP₇₆, 6, 3, 7; 2000 CQ₇₆, 13, 4, 7; 2000 CR₇₆, 11, 5, 8; 2000 CS₇₆, 3, 1, 0; 2000 CT₇₆, 15, 5, 19; 2000 CU₇₆, 14, 6, 12; 2000 CV₇₆, 7, 3, 5; 2000 CX₇₆, 9, 4, 8; 2000 CG₇₇, 6, 2, 3; 2000 CH₇₇, 3, 1, 0; 2000 CX₈₃, 3, 1, 0; 2000 CT₉₁, 3, 1, 0; 2000 CV₉₁, 3, 1, 0; 2000 CB₉₃, 3, 1, 0; 2000 CG₉₄, 9, 3, 6; 2000 CH₉₄, 4, 2, 2; 2000 CL₉₄, 9, 4, 6; 2000 CE₉₇, 3, 1, 0; 2000 CN₉₇, 6, 3, 4; 2000 CE₉₉, 2, 1, 0; 2000 CF₁₀₄ *, 10, 4, 22; 2000 DM *, 8, 3, 4; 2000 DN *, 9, 4, 8;

2000 DO *, 11, 5, 8; 2000 DP *, 11, 5, 8; 2000 DK₂ *, 11, 5, 15; 2000 DL₂ *, 11, 5, 8; 2000 DH₃ *, 14, 6, 12; 2000 DJ₃ *, 20, 7, 15; 2000 DK₃ *, 12, 5, 8; 2000 DL₃ *, 5, 2, 1; 2000 DM₃ *, 7, 3, 8; 2000 DN₃ *, 9, 4, 8; 2000 DO₃ *, 9, 4, 8; 2000 DT₈ *, 7, 3, 6; 2000 DB₁₆ *, 11, 5, 7; 2000 DC₁₆ *, 7, 3, 6; 2000 DD₁₆ *, 6, 3, 4; 2000 DE₁₆ *, 11, 3, 7; 2000 DF₁₆ *, 6, 3, 7; 2000 DG₁₆ *, 12, 4, 16; 2000 DH₁₆ *, 10, 4, 11; 2000 DJ₁₆ *, 12, 5, 9; 2000 DK₁₆ *, 15, 6, 18; 2000 DL₁₆ *, 9, 3, 5; 2000 DM₁₆ *, 7, 2, 3; 2000 DN₁₆ *, 11, 4, 16; 2000 DZ₁₆ *, 4, 2, 1; 2000 DG₂₁ *, 2, 1, 0; 2000 DS₂₉ *, 8, 3, 11; 2000 DF₃₅ *, 2, 1, 0; 2000 DO₅₅ *, 7, 3, 4; 2000 DP₅₅ *, 8, 3, 4; 2000 DH₆₈ *, 3, 1, 0; 2000 DJ₆₈ *, 6, 2, 4; 2000 DL₆₈ *, 6, 2, 4; 2000 DW₇₈ *, 2, 1, 0; 2000 DU₇₉ *, 6, 2, 1; 2000 DG₈₈ *, 8, 3, 4; 2000 DH₈₈ *, 8, 3, 4; 2000 DH₉₄ *, 6, 2, 4; 2000 DD₁₀₅ *, 4, 2, 1; 2000 DE₁₀₅ *, 12, 4, 11; 2000 DZ₁₀₉ *, 3, 1, 0; 2000 EA *, 2, 1, 0; 2000 EU *, 8, 4, 13; 2000 EV *, 5, 2, 2; 2000 EW *, 7, 3, 8; 2000 EX *, 8, 3, 4; 2000 EY *, 7, 3, 4; 2000 ES₇ *, 11, 4, 10; 2000 ET₇ *, 12, 5, 8; 2000 EU₇ *, 9, 4, 12; 2000 EV₇ *, 12, 5, 16; 2000 EW₇ *, 10, 5, 11; 2000 EK₁₄ *, 10, 4, 11; 2000 EL₁₄ *, 9, 3, 4; 2000 EM₁₄ *, 5, 2, 1; 2000 EN₁₄ *, 12, 4, 12; 2000 EO₁₄ *, 5, 2, 1; 2000 EP₁₄ *, 8, 3, 5; 2000 EQ₁₄ *, 11, 4, 8; 2000 EZ₁₄ *, 4, 2, 4; 2000 EA₁₅ *, 10, 3, 13; 2000 EB₁₅ *, 6, 2, 1; 2000 EF₁₇ *, 3, 1, 0; 2000 EB₂₀ *, 10, 3, 4; 2000 EC₂₀ *, 11, 4, 15; 2000 ED₂₀ *, 11, 3, 9; 2000 EE₂₀ *, 7, 2, 2; 2000 EO₃₆ *, 11, 4, 6; 2000 EP₃₆ *, 5, 2, 3; 2000 EQ₃₆ *, 2, 1, 0; 2000 ES₃₆ *, 5, 2, 3; 2000 ET₃₆ *, 3, 1, 0; 2000 EB₄₁ *, 2, 1, 0; 2000 EQ₄₃ *, 5, 2, 3; 2000 EV₄₉ *, 5, 2, 4; 2000 EW₄₉ *, 9, 3, 7; 2000 EX₄₉ *, 6, 2, 4; 2000 EY₄₉ *, 13, 4, 9; 2000 EZ₄₉ *, 7, 2, 4; 2000 EA₅₀ *, 11, 4, 9; 2000 EB₅₀ *, 9, 3, 7; 2000 EC₅₀ *, 9, 3, 4; 2000 ED₅₀ *, 8, 3, 7; 2000 EL₆₂ *, 2, 1, 0; 2000 EW₇₀ *, 11, 1, 0; 2000 EL₇₅ *, 4, 2, 7; 2000 EM₇₅ *, 8, 3, 5; 2000 EJ₁₀₄ *, 8, 3, 4; 2000 EK₁₀₄ *, 6, 2, 2; 2000 FB *, 16, 2, 1; 2777 P-L, 3, 1, 0; 1139 T-2, 2, 1, 0; 1259 T-2, 3, 1, 0; (676), 5, 2, 8; (1183), 8, 3, 5; (1225), 7, 3, 5; (1335), 4, 1, 0; (1462), 2, 1, 0; (2066), 5, 2, 4; (2142), 5, 2, 17; (2327), 2, 1, 0; (2370), 3, 1, 0; (2429), 3, 1, 0; (2516), 10, 4, 6; (2585), 9, 4, 8; (2859), 7, 3, 4; (2883), 3, 1, 0; (2963), 2, 1, 0; (2998), 7, 2, 3; (3179), 2, 1, 0; (3586), 3, 1, 0; (3785), 9, 4, 6; (4268), 9, 3, 5; (4406), 2, 1, 0; (4591), 4, 2, 6; (4941), 3, 1, 0; (5428), 2, 1, 0; (5568), 3, 1, 0; (5605), 3, 1, 0; (5640), 3, 1, 0; (5920), 4, 1, 0; (6167), 3, 1, 0; (6309), 3, 1, 0; (6492), 3, 1, 0; (7344), 4, 1, 0; (7585), 3, 1, 0; (7671), 5, 2, 2; (7702), 6, 2, 4; (7714), 9, 3, 11; (7805), 4, 2, 1; (7966), 3, 1, 0; (8017), 2, 1, 0; (8061), 3, 1, 0; (8096), 3, 1, 0; (9147), 3, 1, 0; (9538), 11, 5, 13; (9547), 3, 1, 0; (9602), 3, 1, 0; (9637), 3, 1, 0; (9663), 5, 2, 4; (9932), 18, 7, 16; (9990), 7, 3, 5; (10023), 3, 1, 0; (10053), 15, 5, 13; (10077), 2, 1, 0; (10190), 3, 1, 0; (10252), 11, 4, 11; (10342), 3, 1, 0; (11391), 14, 5, 15; (12702), 3, 1, 0; (13031), 2, 1, 0; (13115), 3, 1, 0; (13316), 5, 2, 8; (13503), 3, 1, 0; (13512), 2, 1, 0; (13533), 3, 1, 0; (13617), 2, 1, 0; [1589, 274, 66*, 1998/08/17–2000/03/18]

121 Kharkov University, Chuguevskaya Station

V. G. Shevchenko, Astronomical Observatory, Kharkov State University, Sumska Street 35, Kharkov 310022, Ukraine [shevchenko@astron.kharkov.ua]

0.70-m $f/4$ reflector + CCD

USNO-A, GSC

2000 AU₂₄₂, 3, 1, 0; (670), 5, 1, 0; (1025), 3, 1, 0; [11, 3, 0*, 2000/02/24–2000/02/26]

127 Bornheim

N. Ehring, Stationenweg 54, D-53332 Bornheim, Germany [norbert.ehring@t-online.de]

0.30-m $f/3.2$ FFC + CCD

USNO-A2.0

1994 VR₂, 2, 1, 0; 1998 SK₁₁₅, 2, 1, 0; 1999 GJ₄, 7, 3, 6; [11, 3, 0*, 2000/02/26–2000/03/03]

130 Lumezzane

S. Foglia, F. Bisleri 11, I-20418 Milan, Italy [s.foglia@libero.it]

Observers G. Pizzetti, W. Marinello, J. Abdalla, S. Foglia, L. Cocca, C. Cremaschini

Measurers G. Pizzetti, W. Marinello

0.40-m $f/4$ reflector + CCD

USNO-A1.0

1999 XE₁₆₇, 3, 1, 0; 2000 DO₁, 3, 1, 0; (1237), 3, 1, 0; [9, 3, 0*, 1999/12/13–2000/03/04]

138 Village-Neuf

C. Demeautis, 9 rue de Huningue, F-68300 Saint-Louis, France

[Sky.walker@wanadoo.fr]

0.20-m $f/3.8$ reflector + CCD

USNO

1999 XT₃₂, 2, 1, 0; (881), 2, 1, 0; (1444), 2, 1, 0; (1692), 2, 1, 0; (2585), 3, 1, 0; (2963), 3, 1, 0; (10046), 2, 1, 0; (13593), 3, 1, 0; [19, 8, 0*, 2000/02/27–2000/03/06]

143 Gnosca

S. Sposetti, CH-6525 Gnosca, Switzerland [spo@bluewin.ch]

0.40-m $f/4$ reflector + CCD

GSC

1998 YA₃, 8, 3, 2; 2000 EE₁₄, 4, 1, 0; 2000 EH₁₅ *, 5, 2, 2; 2000 EJ₁₅ *, 5, 2, 2; 2000 EK₁₅ *, 8, 3, 2; (3179), 9, 2, 1; [39, 6, 3*, 2000/03/05–2000/03/07]

145 's-Gravenwezel Observatory

T. Alderweireldt, Rozenlaan 14, B-2970 's-Gravenwezel, Belgium

[Tom.Alderweireldt@ping.be]

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

USNO-SA2.0

1998 RO₈₀, 4, 1, 0; 1999 YS₉, 3, 1, 0; (10199), 2, 1, 0; [9, 3, 0*, 2000/02/26]

151 Eschenberg Observatory, Winterthur

M. Griesser, Breitenstrasse 2, CH-8542 Wiesendangen, Switzerland

[griesser@spectraweb.ch]

0.25-m $f/8.0$ reflector + CCD

GSC

1991 DB, 11, 3, 14; 1991 RU₂, 5, 1, 0; 1994 AL₁₆, 4, 1, 0; 1999 GJ₄, 8, 2, 13; 1999 NC₄₃, 13, 3, 13; 1999 VM₄₀, 16, 3, 13; 2000 CO₁₀₁, 5, 1, 0; 2000 DL₁, 12, 2, 1; 2000 DO₁, 18, 3, 8; 2000 EE₁₄, 12, 2, 5; 2000 ES₇₀, 11, 2, 2; 2000 ET₇₀, 6, 1, 0; 2000 EV₇₀, 6, 1, 0; (1017), 3, 1, 0; (1627), 4, 1, 0; (1685), 14, 4, 14; (3800), 4, 1, 0; [152, 17, 0*, 2000/02/22–2000/03/13]

153 Stuttgart–Hoffeld

R. Stuber, Hoffeldstrasse 121, D-70597 Stuttgart, Germany [mail@rolfstuber.de]

0.25-m $f/7.2$ reflector + CCD

GSC, USNO-A2.0

1999 NC₄₃, 9, 2, 1; [9, 1, 0*, 2000/03/05–2000/03/06]

159 Monte Agliale

M. M. M. Santangelo, Monte Agliale Astronomical Observatory, Borgo a Mozzano, Lucca, Italy [ilra@comune.lucca.it]

Observers S. Donati, E. Mazzoni, M. M. M. Santangelo

Measurers S. Donati, M. M. M. Santangelo

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

USNO-A1.0, USNO-A2.0

1998 QC₅₈, 7, 2, 3; 1999 YY₁₄, 5, 1, 0; 2000 CE₈₆, 13, 2, 3; 2000 DN₂₄, 4, 1, 0; 2000 DP₄₁, 14, 2, 3; 2000 DC₇₉ *, 19, 3, 7; 2000 EU₃₇, 6, 2, 4; 2000 EL₆₆, 4, 1, 0; 2000 EN₆₆, 3, 1, 0; (4198), 6, 2, 3; (9915), 2, 1, 0; [83, 11, 1*, 2000/02/03–2000/03/13]

161 Cerrini Tololo Observatory

P. Camaiti, via Maria Vittoria 35, I-10123 Torino, Italy [P.Camaiti@flashnet.it]

0.28-m Schmidt-Cassegrain + CCD

GSC

(1517), 1, 1, 0; (3904), 1, 1, 0; (4505), 1, 1, 0; (4719), 1, 1, 0; [4, 4, 0*, 2000/02/18]

162 Potenza

A. M. Giambersio, 22 R. Scotellaro Street, I-85100 Potenza, Italy

[agiamber@tin.it]

0.20-m $f/6.3$ reflector + CCD

GSC

(434), 3, 2, 3; (482), 3, 2, 1; (1520), 3, 2, 1; [9, 3, 0*, 2000/02/26–2000/03/07]

2000 MAR. 20

M.P.C. 38971

163 Roeser Observatory, Luxembourg

M. Dawson, 66 rue JF Boch, L-1244 Luxembourg, Luxembourg [dawson@pt.lu]

0.46-m $f/4.5$ reflector + CCD

GSC-ACT

1994 PX₃₁, 4, 2, 8; 1997 TS₁₇, 4, 2, 8; 1998 SM₆₄, 5, 2, 8; 2000 CD₃₇, 5, 1, 0; 2000 DL₁, 13, 2, 2; 2000 DO₁, 3, 1, 0; 2000 DP₁₀₇, 4, 1, 0; 2000 EE₁₀₄, 4, 1, 0; [42, 8, 0*, 2000/02/26–2000/03/13]

169 Rosignano

S. Puccini, Airali Observatory, Via Montegrappa 16, I-15030 Rosignano, Italy

[starfield@tin.it]

0.25-m $f/5.1$ Schmidt-Cassegrain + CCD

GSC

1994 PL₁₂, 2, 1, 0; 1998 SC₁₁₂, 6, 2, 1; 1999 XG₁₇₆, 11, 3, 2; (5403), 4, 1, 0; [23, 4, 0*, 2000/02/21–2000/03/07]

170 Observatorio de Begues

J. Manteca, c/Santpere, no. Casa 22, E-08859 Begues, Barcelona, Spain

[jmantecav@nexo.es]

Observer J. Manteca

Measurer S. Alonso

0.26-m $f/6.9$ Schmidt-Cassegrain + CCD

GSC-1.1

1991 DB, 14, 3, 3; 1995 WE₅, 4, 2, 2; (13488), 6, 2, 2; (13727), 4, 2, 2; [28, 4, 0*, 2000/02/24–2000/03/12]

171 Flarestar Observatory, San Gwann

S. M. Brincat, Fl. 5 Ent. B, Silver Jubilee Apt., Ta' Zwejt, San Gwann SGN 09,

Malta [sbrincat@orbit.net.mt]

0.25-m $f/2.6$ Schmidt-Cassegrain + CCD

GSC-ACT

2000 DL₁, 8, 3, 6; [8, 1, 0*, 2000/02/26–2000/03/03]

176 Observatori Astronomic de Consell

À. López, Apartado de correos 122, E-07320 Santa Maria, Mallorca, Spain

[obsconsell@wanadoo.es]

Observers À. López, R. Pacheco

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

GSC

2000 DO₁, 5, 1, 0; (13727), 3, 1, 0; [8, 2, 0*, 2000/03/02–2000/03/08]

177 Le Cres

R. Poncy, Rue des Ecoles, F-34920 Le Cres, France [ray.poncy@wanadoo.fr]

0.20-m $f/3.3$ reflector + CCD

GSC

(5317), 8, 2, 1; [8, 1, 0*, 2000/02/22–2000/02/23]

178 Collonges

J. G. Bosch, 90 residences du Saleve, F-74160 Collonges, France

[Bosch@sc2a.unige.ch]

0.20-m $f/5$ reflector + CCD

USNO

2000 CT₇₂, 1, 1, 0; (532), 4, 2, 1; (627), 4, 2, 1; [9, 3, 0*, 2000/03/05–2000/03/10]

179 Monte Generoso

S. Sposetti, CH-6525 Gnosca, Switzerland [spo@bluewin.ch]

0.61-m $f/8$ reflector + CCD

USNO

(799), 6, 2, 1; (1394), 6, 2, 1; (2110), 6, 2, 1; (2498), 3, 1, 0; (2915), 6, 2, 1; (3006), 6, 2, 1; (3662), 6, 2, 1; (6238), 8, 2, 1; [47, 8, 0*, 2000/03/09–2000/03/12]

180 Mauguio

C. Leyrat, 49 avenue de la mer, F-34130 Mauguio, France

[astro.mauguio@wanadoo.fr]

0.30-m $f/6.3$ reflector + CCD

GSC

(2330), 6, 2, 3; (2335), 5, 2, 3; [11, 2, 0*, 2000/03/11–2000/03/14]

294 Astrophysical Observatory, College of Staten Island

I. Robbins, The College of Staten Island, 2800 Victory Boulevard, Staten Island,

NY 10314, U.S.A. [robbins@postbox.csi.cuny.edu]

Observer I. Robbins

Measurers I. Robbins, S. Parello

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

GSC

1991 DB, 4, 2, 3; 1998 QZ₁₁, 2, 1, 0; 1998 QN₈₆, 3, 2, 3; 2000 AC₉₈, 2, 1, 0; 2000 AW₁₂₄, 5, 2, 3; (46), 2, 1, 0; (3090), 3, 2, 3; (3776), 6, 2, 1; (5250), 2, 1, 0; (6374), 4, 2, 3; (6435), 2, 1, 0; (7063), 3, 1, 0; (10500), 4, 2, 1; (12740), 5, 2, 3; (13576), 4, 2, 3; (13605), 4, 2, 3; (13889), 4, 2, 3; [59, 17, 0*, 2000/03/01–2000/03/16]

300 Bisei Spaceguard Center–BATTeRS

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

[isobesz@cc.ao.ac.jp]

Observers A. Asami, D. J. Asher, S. Hashimoto, S. Isobe, S. Nakano, Y. Oshima,

J. Terazono, T. Urata, M. Yoshikawa

0.50-m $f/2.0$ reflector + CCD

GSC, USNO-A2.0

2000 CM₃₃, 6, 1, 0; (181), 6, 1, 0; (245), 6, 1, 0; (301), 6, 1, 0; (933), 6, 1, 0; (1305), 6, 1, 0; (1451), 6, 1, 0; (1769), 5, 1, 0; (2785), 5, 1, 0; (2892), 6, 1, 0; [58, 10, 0*, 2000/02/07–2000/02/11]

322 Perth Observatory, Bickley-MCT

J. Biggs, Perth Observatory, Bickley, WA 6076, Australia

[jamieb@calm.wa.gov.au]

0.25-m $f/4.5$ reflector + CCD

GSC

1999 US₃, 3, 1, 0; [3, 1, 0*, 2000/02/01]

327 Peking Observatory, Xinglong Station

J. Zhu, Peking Astronomical Observatory, Chinese Academy of Sciences,

Zhongguancun, Peking 100101, Peoples Republic of China

[zj@bac.pku.edu.cn]

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

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

0.60-m Schmidt + CCD

1977 RM, 9, 3, 2; 1981 EB₈, 10, 2, 1; 1990 OX₁, 11, 3, 7; 1991 XE, 3, 1, 0; 1992 EA₂₆, 9, 2, 2; 1994 TO₁₅, 6, 2, 1; 1995 YY₁, 6, 2, 3; 1996 SW, 3, 1, 0; 1997 ED₃, 3, 1, 0; 1997 EH₃₇, 3, 1, 0; 1997 NK₁₁, 3, 1, 0; 1997 TH₂₅, 3, 1, 0; 1998 FB₃₁, 3, 1, 0; 1998 HE₈₇, 3, 1, 0; 1998 HE₁₄₈, 4, 1, 0; 1998 QR₁₀₂, 6, 2, 5; 1998 RJ₂₀, 3, 1, 0; 1998 RJ₄₉, 14, 3, 4; 1998 RX₅₅, 3, 1, 0; 1998 RV₅₉, 3, 1, 0; 1998 RU₆₇, 3, 1, 0; 1998 RN₇₀, 5, 1, 0; 1998 WJ₈, 6, 2, 5; 1998 XT₂, 3, 1, 0; 1998 YM₃, 3, 1, 0; 1999 GA₅, 3, 1, 0; 1999 JU₆₀, 3, 1, 0; 1999 MO, 3, 1, 0; 1999 RW₁₆₂, 10, 2, 13; 1999 XZ₇₂, 6, 2, 2; 1999 XV₁₀₀, 6, 2, 2; 1999 XJ₁₅₉, 6, 2, 1; 1999 XZ₁₆₇, 6, 2, 24; 1999 XY₁₇₂, 3, 1, 0; 1999 XU₁₇₄, 6, 2, 5; 1999 XS₁₇₇, 6, 2, 13; 1999 XQ₂₀₅, 6, 2, 1; 1999 XT₂₀₅, 6, 2, 1; 1999 XE₂₂₁, 6, 2, 5; 1999 YG, 6, 2, 2; 2000 AU₁, 7, 2, 4; 2000 AW₂₂, 3, 1, 0; 2000 AH₆₂, 10, 2, 1; 2000 AX₆₅, 6, 2, 5; 2000 AP₇₀, 6, 2, 2; 2000 AS₇₀, 9, 3, 4; 2000 AX₁₀₁, 6, 2, 4; 2000 AV₂₀₀, 6, 2, 1; 2000 AD₂₄₁, 6, 2, 1; 2000 AM₂₄₅, 6, 2, 1; 2000 AG₂₄₆ *, 9, 3, 4; 2000 AH₂₄₆ *, 6, 2, 1; 2000 AJ₂₄₆ *, 9, 3, 6; 2000 AK₂₄₆ *, 13, 4, 5; 2000 CF₂, 6, 2, 5; 2000 CG₂, 6, 2, 5; 2000 CJ₃₄, 3, 1, 0; 2000 CH₅₁, 3, 1, 0; 2000 CZ₉₄, 6, 2, 4; 2000 CJ₁₀₄ *, 7, 2, 3; 2000 CK₁₀₄ *, 8, 2, 1; 2000 DZ₅₅, 3, 1, 0; 6595 P-L,

4, 1, 0; 1173 T-3, 3, 1, 0; (317), 6, 2, 3; (891), 7, 2, 2; (1163), 6, 2, 2; (1821), 6, 2, 5; (2478), 6, 2, 2; (2685), 6, 2, 1; (4489), 6, 2, 12; (4833), 6, 2, 2; (6300), 9, 2, 1; (6527), 6, 2, 2; (6918), 6, 2, 6; (9051), 10, 2, 4; (9855), 9, 3, 3; (13552), 7, 2, 4; [457, 78, 6*, 1995/09/21–2000/02/19]

344 Bohyunsan Optical Astronomy Observatory

M.-Y. Chun, Korea Astronomy Observatory, San 36-1, Wha-am Dong, Yu-sung

Gu, Daejon 305-348, Korea [mychun@boao.re.kr]

Observers E. O. Jeong, H. Lee, S.-L. Kim, E.W. Jeong, H.-K. Moon, Y.-H. Park, B.-G. Park

Measurer M.-Y. Chun

1.8-m $f/8$ reflector + CCD, 0.30-m $f/3.3$ Schmidt-Cassegrain + CCD

GSC, USNO-A2.0

1994 TQ₃, 4, 1, 0; 2000 AU₄₉, 4, 1, 0; 2000 DL₁, 3, 1, 0; 2000 DO₁, 3, 1, 0; 2000 DF₈, 6, 2, 3; 2000 DG₈, 3, 1, 0; 2000 DH₈, 11, 4, 3; 2000 DK₈, 6, 2, 3; 2000 DM₈, 9, 3, 2; 2000 DN₈, 8, 2, 3; 2000 DP₁₀₇, 6, 2, 1; 2000 DQ₁₁₀, 6, 2, 1; (2364), 4, 1, 0; [73, 13, 0*, 2000/02/21–2000/03/02]

345 Sobaeksan Optical Astronomy Observatory

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

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

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

0.61-m reflector + CCD

USNO-A2.0

2000 DK₇₉, 2, 1, 0; 2000 DQ₁₁₀, 4, 1, 0; 2000 EK₂₆, 4, 1, 0; 2000 EL₂₆, 2, 1, 0; 2000 EU₇₀, 3, 1, 0; 2000 EV₇₀, 6, 1, 0; 2000 EE₁₀₄, 2, 1, 0; 2000 EF₁₀₄, 6, 1, 0; 2000 EG₁₀₄, 6, 1, 0; [35, 9, 0*, 2000/03/09–2000/03/14]

348 Ayabe

N. Otuki, 21-8 Kyuta, Sato-Cho, Ayabe, Kyoto-fu, 623-0005 Japan

[loomoon@crocus.ocn.ne.jp]

0.28-m $f/5.5$ Schmidt-Cassegrain + CCD

GSC

2000 DO₁, 2, 1, 0; 2000 DM₈, 2, 1, 0; 2000 DP₁₀₇, 3, 1, 0; [7, 3, 0*, 2000/03/02]

349 Ageo

K. Kadota, 77-1-3-12-204, Koshikiya, Ageo, Saitama-ken, 362-0064 Japan [kenic-

k@astroarts.co.jp]

Observer K. Kadota

Measurers S. Yoshida, K. Kadota

0.18-m $f/5.5$ reflector + CCD

USNO-A1.0

1991 DB, 4, 1, 0; 2000 DO₁, 4, 1, 0; (1685), 3, 1, 0; [11, 3, 0*, 2000/02/27–2000/03/08]

355 Hadano

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

[asami@st.rim.or.jp]

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

GSC

2000 EE₁₄, 3, 1, 0; 2000 EV₇₀, 3, 1, 0; 2000 EW₇₀, 3, 1, 0; [9, 3, 0*, 2000/03/08–2000/03/14]

360 Kuma Kogen Astronomical Observatory

A. Nakamura, Shimo-Hatanokawa, Kuma, Kamiukena-Gun, Ehime-Ken, 791-1212

Japan [a-nakamu@mx2.nisiq.net]

0.60-m $f/5.8$ Ritchey-Chrétien + CCD

GSC-ACT, USNO-A2.0

1991 DB, 3, 1, 0; 1993 FP₁₃, 3, 1, 0; 1993 OM₇, 3, 1, 0; 1994 CN₂, 3, 1, 0; 1994 QC, 3, 1, 0; 1997 WU₂₂, 3, 1, 0; 1998 YC₁, 2, 1, 0; 1998 YP₅, 6, 2, 1; 1999 GJ₄, 3, 1, 0; 1999 LD₃₁, 3, 1, 0; 1999 NC₄₃, 3, 1, 0; 1999 RH₂₇, 3, 1, 0; 1999 RC₃₂, 3, 1, 0; 1999 TC₅, 3, 1, 0; 1999 VM₄₀, 3, 1, 0; 1999 WA₂, 3, 1, 0; 1999 YK₅, 3, 1, 0; 2000 AC₁₄₃, 3, 1, 0; 2000 AB₂₂₉, 3, 1, 0; 2000 AU₂₄₂, 3, 1,

0; 2000 BE₁₉, 6, 2, 8; 2000 BG₁₉, 4, 1, 0; 2000 BH₁₉, 6, 2, 15; 2000 BJ₁₉, 3, 1, 0; 2000 BM₁₉, 3, 1, 0; 2000 CN₃₃, 3, 1, 0; 2000 CE₅₉, 3, 1, 0; 2000 CF₅₉, 3, 1, 0; 2000 CG₅₉, 3, 1, 0; 2000 CH₅₉, 3, 1, 0; 2000 CN₁₀₁, 3, 1, 0; 2000 CO₁₀₁, 6, 2, 7; 2000 CP₁₀₁, 3, 1, 0; 2000 CQ₁₀₁, 3, 1, 0; 2000 CR₁₀₁, 6, 2, 15; 2000 DM₁, 7, 2, 8; 2000 DO₁, 9, 3, 6; 2000 DG₈, 3, 1, 0; 2000 DH₈, 3, 1, 0; 2000 DJ₈, 3, 1, 0; 2000 DK₈, 3, 1, 0; 2000 DM₈, 3, 1, 0; 2000 DN₈, 3, 1, 0; 2000 EO₁₅ *, 13, 4, 7; 2000 EP₁₅ *, 12, 4, 7; 2000 EE₁₀₁ *, 7, 2, 1; (4642), 2, 1, 0; (6437), 3, 1, 0; (8061), 3, 1, 0; (9190), 2, 1, 0; (9418), 3, 1, 0; (10045), 2, 1, 0; (11798), 2, 1, 0; (12674), 2, 1, 0; [205, 54, 3*, 2000/02/27–2000/03/14]

365 Kashiwara

F. Uto, 12-1 Shirakashi Cho 7 Chome, Kashiwara, Nara-Ken, 634 Japan

[nag01736@niftyserve.or.jp]

0.28-m $f/6.3$ refractor + CCD

GSC

2000 DO₁₅, 4, 2, 5; [4, 1, 0*, 2000/03/01–2000/03/06]

376 Uenohara

N. Kawasato, 3-11-10, Hana-Koganei, Kodaira, Tokyo, 187 Japan

0.30-m reflector + CCD

GSC

1995 UA₄₅, 2, 1, 0; 2000 BA₁₄, 3, 1, 0; [5, 2, 0*, 1997/05/04–2000/03/01]

399 Kushiro

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

Observer S. Ueda

Measurer H. Kaneda

0.25-m $f/3.4$ hyperboloid astrocamera

GSC

1998 WA₁₈, 2, 1, 0; 1998 WA₂₀, 2, 1, 0; [4, 2, 0*, 1994/01/05]

402 Dynic Astronomical Observatory

A. Sugie, Dynic Astronomical Observatory, Taga 283-1, Taga, Inukami-Gun, Shiga-Ken, 522-0341 Japan [hfh00201@niftyserve.or.jp]

Observers A. Sugie, Y. Ikari

0.60-m $f/5.0$ reflector + CCD

GSC

1998 XT₁₇, 4, 1, 0; 1999 LE₃₁, 3, 1, 0; 1999 YN₄, 3, 1, 0; 1999 YK₅, 3, 1, 0; 2000 AB₂₂₉, 3, 1, 0; 2000 AU₂₄₂, 3, 1, 0; 2000 BE₁₉, 3, 1, 0; 2000 BH₁₉, 3, 1, 0; 2000 CO₁₀₁, 3, 1, 0; 2000 DF₈, 7, 2, 1; 2000 DG₈, 4, 1, 0; 2000 DH₈, 7, 2, 13; 2000 DJ₈, 4, 1, 0; 2000 DK₈, 4, 1, 0; 2000 DM₈, 4, 1, 0; 2000 DN₈, 7, 2, 13; 2000 DO₈, 4, 1, 0; 2000 DG₇₁, 4, 1, 0; 2000 DP₁₀₇, 4, 1, 0; 2000 DQ₁₁₀, 4, 1, 0; 2000 EU₇₀, 3, 1, 0; 2000 EC₁₀₄, 4, 1, 0; 2000 ED₁₀₄, 4, 1, 0; 2000 EE₁₀₄, 4, 1, 0; 2000 EF₁₀₄, 4, 1, 0; 2000 EG₁₀₄, 3, 1, 0; 2000 EH₁₀₄, 4, 1, 0; [107, 27, 0*, 2000/02/10–2000/03/14]

411 Oizumi

T. Kobayashi, 1717-2 Shimo-Koizumi, Oizumi-machi, Ora-gun, Gunma-ken, 370-

0515 Japan [kobataka@sannet.ne.jp]

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

GSC

1979 MB₃, 4, 2, 1; 1998 RN₇₀, 4, 2, 1; 1999 AA, 4, 2, 18; 1999 VY₁₅₃, 4, 2, 1; 2000 AE₂, 2, 1, 0; 2000 AH₂, 2, 1, 0; 2000 AJ₂, 2, 1, 0; 2000 AL₂, 2, 1, 0; 2000 AM₂, 2, 1, 0; 2000 AN₂, 2, 1, 0; 2000 AO₂, 2, 1, 0; 2000 AP₂, 2, 1, 0; 2000 AQ₂, 2, 1, 0; 2000 AS₉₇, 4, 2, 1; 2000 AA₁₄₇, 2, 1, 0; 2000 BH₃, 4, 2, 6; 2000 BJ₃, 4, 2, 6; 2000 BK₃, 4, 2, 6; 2000 BM₃, 2, 1, 0; 2000 BN₃, 2, 1, 0; 2000 BO₃, 4, 2, 6; 2000 BP₃, 2, 1, 0; 2000 BQ₃, 2, 1, 0; 2000 BR₃, 2, 1, 0; 2000 BS₃, 2, 1, 0; 2000 BT₃, 2, 1, 0; 2000 BU₃, 2, 1, 0; 2000 BV₃, 2, 1, 0; 2000 BW₃, 2, 1, 0; 2000 BX₃, 2, 1, 0; 2000 BZ₁₃, 2, 1, 0; 2000 BE₁₄, 4, 2, 10; 2000 BJ₁₄, 2, 1, 0; 2000 BK₁₄, 4, 2, 10; 2000 BL₁₄, 4, 2, 10; 2000 BN₁₄, 2, 1, 0; 2000 BO₁₄, 2, 1, 0; 2000 BP₁₄, 2, 1, 0; 2000 BQ₁₄, 2, 1, 0; 2000 BR₁₄, 2, 1, 0; 2000 BS₁₄, 2, 1, 0; 2000 BT₁₄, 2, 1, 0; 2000 BV₁₄, 4, 2, 6; 2000 BW₁₄, 4, 2, 10; 2000 BX₁₄, 4, 2, 10; 2000 BY₁₄, 2, 1, 0; 2000 BZ₁₄, 4, 2, 9; 2000 BA₁₅, 4, 2, 10; 2000 BC₁₅, 7, 3, 8; 2000 BD₁₅, 4, 2, 10; 2000 BE₁₅, 4, 2, 10; 2000 BF₁₅, 4, 2, 10; 2000 BH₁₅, 4, 2, 10; 2000 CA, 5, 2, 8; 2000 CB₂, 2, 1, 0; 2000 CC₂, 2, 1, 0; 2000 CD₂, 2, 1, 0; 2000 CE₂, 2, 1, 0; 2000 CF₂, 3, 1, 0; 2000 CG₂, 2,

1, 0; 2000 CJ₂, 2, 1, 0; 2000 CK₂, 2, 1, 0; 2000 CL₂, 4, 2, 1; 2000 CM₂, 2, 1, 0; 2000 CO₂, 2, 1, 0; 2000 CP₂, 3, 1, 0; 2000 CS₂, 2, 1, 0; 2000 CL₃₉, 4, 2, 1; 2000 CM₃₉, 4, 2, 1; 2000 DQ *, 6, 3, 13; 2000 DR *, 6, 3, 13; 2000 DS *, 6, 3, 13; 2000 DT *, 6, 3, 13; 2000 DU *, 6, 3, 13; 2000 DV *, 6, 3, 13; 2000 DW *, 6, 3, 13; 2000 DX *, 6, 3, 13; 2000 DY *, 6, 3, 13; 2000 DZ *, 6, 3, 13; 2000 DY₂ *, 4, 2, 3; 2000 DZ₂ *, 9, 4, 13; 2000 DA₃ *, 6, 3, 10; 2000 DB₃ *, 6, 3, 10; 2000 DC₃ *, 6, 3, 10; 2000 DD₃ *, 6, 3, 10; 2000 DE₃ *, 6, 3, 10; 2000 DF₃ *, 6, 3, 10; 2000 DG₃ *, 6, 3, 10; 2000 DC₇ *, 6, 3, 8; 2000 DD₇ *, 6, 3, 8; 2000 DE₇ *, 6, 3, 8; 2000 DF₇ *, 6, 3, 8; 2000 DG₇ *, 6, 3, 8; 2000 DH₇ *, 6, 3, 8; 2000 DJ₇ *, 6, 3, 8; 2000 DK₇ *, 6, 3, 8; 2000 DL₇ *, 6, 3, 8; 2000 DM₇ *, 6, 3, 8; 2000 DN₇ *, 4, 2, 1; 2000 ED *, 6, 3, 7; 2000 EE *, 6, 3, 7; 2000 EF *, 6, 3, 7; [393, 102, 33*, 2000/02/09–2000/03/08]

413 Siding Spring

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

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

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

Observers R. H. McNaught, R. D. Cannon
Measurers R. H. McNaught, A. Gnädig, A. Knöfel, R. Stoss

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

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

{1} 1989 ST₁₀, 2, 1, 0; 1991 UK₁, 3, 1, 0; 1996 GT, 2, 1, 0; 1998 KU₂, 5, 2, 16; 1998 NA, 3, 1, 0; 1998 RM₃, 6, 2, 3; 1998 UR₈, 3, 2, 1; 1998 XM₂, 6, 2, 16; 1998 XZ₄, 6, 2, 16; 1999 LE₃₁, 4, 2, 1; 1999 NC₅, 4, 2, 1; 1999 RM₂₈, 4, 2, 18; 1999 TN₁₂, 3, 1, 0; 1999 VQ₁₁, 6, 2, 2; 1999 XS₁₆, 3, 1, 0; 1999 XP₃₅, 2, 1, 0; 1999 XO₁₃₅, 2, 1, 0; 1999 XK₁₄₁, 3, 1, 0; 1999 XO₁₄₁, 2, 1, 0; 1999 YD, 3, 1, 0; 1999 YF₃, 2, 1, 0; 1999 YG₃, 2, 1, 0; 2000 AE₆, 3, 1, 0; 2000 AV₄₈, 2, 1, 0; 2000 AU₄₉, 9, 4, 3; 2000 AX₉₃, 2, 1, 0; 2000 AY₉₃, 4, 2, 1; 2000 AZ₉₃, 3, 1, 0; 2000 AD₂₀₅, 2, 1, 0; 2000 AB₂₂₉, 2, 1, 0; 2000 AC₂₂₉, 2, 1, 0; 2000 BK₂, 2, 1, 0; 2000 BR₁₂, 11, 2, 1; 2000 BG₁₄, 3, 1, 0; 2000 BF₁₉, 3, 1, 0; 2000 BG₁₉, 4, 2, 1; 2000 BJ₁₉, 2, 1, 0; 2000 BK₁₉, 5, 2, 4; 2000 BL₁₉, 9, 2, 20; 2000 BM₁₉, 2, 1, 0; 2000 BM₂₂, 9, 2, 1; 2000 BZ₂₇, 9, 3, 2; 2000 BO₂₈, 9, 3, 2; 2000 CA₁₃, 6, 2, 2; 2000 CK₃₃, 3, 2, 2; 2000 CL₃₃, 12, 4, 20; 2000 CN₃₃, 4, 2, 2; 2000 CO₃₃, 9, 3, 18; 2000 CO₃₉, 2, 1, 0; 2000 CE₅₉, 11, 4, 20; 2000 CF₅₉, 4, 2, 2; 2000 CG₅₉, 9, 4, 20; 2000 CH₅₉, 3, 2, 2; 2000 CJ₅₉, 5, 2, 2; 2000 CK₅₉, 10, 3, 18; 2000 CL₅₉, 2, 1, 0; 2000 CH₇₂, 3, 1, 0; 2000 CP₇₇, 5, 2, 1; 2000 CL₉₀, 3, 1, 0; 2000 CT₉₇, 9, 2, 1; 2000 CV₉₇, 6, 2, 1; 2000 CO₁₀₁, 2, 1, 0; 2000 CP₁₀₁, 4, 2, 18; 2000 CR₁₀₁, 6, 2, 1; 2000 DM₁, 2, 1, 0; 2000 DO₁, 7, 2, 1; 2000 DF₈, 7, 3, 2; 2000 DH₈, 5, 2, 1; 2000 DK₈, 2, 1, 0; 2000 DL₈, 4, 2, 14; 2000 DM₈, 3, 1, 0; 2000 DN₈, 3, 1, 0; 2000 DY₁₇ *, 12, 2, 1; 2000 DZ₁₇ *, 9, 2, 1; 2000 DA₁₈ *, 9, 3, 19; 2000 DP₁₀₇, 3, 1, 0; 2000 DQ₁₁₀, 2, 1, 0; 2000 EA₁₄, 7, 3, 2; 2000 EH₂₆, 5, 2, 1; 2000 EJ₂₆, 4, 2, 1; 2000 EK₂₆, 1, 1, 0; 2000 EL₂₆, 3, 1, 0; 2000 ES₇₀, 2, 1, 0; 2000 ET₇₀, 4, 2, 2; 2000 EU₇₀, 2, 1, 0; 2000 EV₇₀, 2, 1, 0; 2000 EW₇₀, 2, 1, 0; 2000 EC₉₈, 2, 1, 0; 2000 EC₁₀₄, 3, 1, 0; 2000 ED₁₀₄, 3, 2, 2; 2000 EE₁₀₄, 3, 2, 2; 2000 EF₁₀₄, 2, 1, 0; 2000 EG₁₀₄, 2, 1, 0; 2000 EH₁₀₄, 2, 1, 0; (12946), 3, 1, 0; (13534), 9, 2, 1; [421, 96, 3*, 1996/02/25–2000/03/15]

{5} 1983 QK₁, 2, 1, 0; 1989 UC₆, 2, 1, 0; 1990 RN₉, 2, 1, 0; 1993 FS₄, 2, 1, 0; 1993 FK₂₀, 2, 1, 0; 1997 AF₇, 4, 2, 442; 1997 GB, 4, 2, 5606; 1997 QY, 6, 3, 2002; 1997 QC₁, 2, 1, 0; 1997 UG₁₅, 6, 3, 3448; 1997 UA₂₂, 3, 2, 24; 1997 VM₆, 2, 1, 0; 1997 VA₈, 4, 2, 526; 1997 XY₃, 5, 2, 2387; 1998 FO₇₃, 5, 3, 4642; 1998 HH₄₃, 2, 1, 0; 1998 OU₁₂, 4, 2, 28; 1998 QL₁, 2, 1, 0; 1998 QO₆, 4, 2, 416; 1998 QC₂₀, 5, 3, 1843; 1998 QE₂₉, 6, 3, 6621; 1998 QF₄₅, 2, 1, 0; 1998 QU₄₆, 4, 2, 5571; 1998 QF₅₄, 2, 1, 0; 1998 QT₆₂, 4, 2, 870; 1998 QE₈₆, 1, 1, 0; 1998 QF₉₁, 2, 1, 0; 1998 QF₉₂, 4, 2, 4; 1998 RM₃, 2, 1, 0; 1998 RC₁₆, 2, 1, 0; 1998 RG₁₆, 4, 2, 2858; 1998 RP₄₂, 2, 1, 0; 1998 RN₆₁, 4, 2, 3877; 1998 SO₂, 4, 2, 28; 1998 SA₂₆, 6, 3, 982; 1998 SS₂₆, 4, 2, 3448; 1998 SR₂₇, 6, 3, 1529; 1998 SR₃₅, 2, 1, 0; 1998 SU₇₃, 6, 3, 1030; 1998 SK₁₁₅, 8, 4, 4308; 1998 SK₁₃₉, 4, 2, 87; 1998 SK₁₄₆, 6, 3, 79; 1998 SP₁₅₆, 4, 2, 2020; 1998 SR₁₆₄, 7, 4, 6526; 1998 TQ₃, 2, 1, 0; 1998 TR₅, 2, 1, 0; 1998 TK₃₀, 8, 4, 3995; 1998 UA₁, 2, 1, 0; 1998 UK₇, 6, 3, 6182; 1998 UW₁₅, 2, 1, 0; 1998 UN₁₈, 4, 2, 1352; 1998 UM₂₃, 2, 1, 0; 1998 UO₂₃, 7, 3, 77; 1998 UD₃₈, 2, 1, 0; 1998 VK, 2, 1, 0; 1998 VO₆, 4, 2, 3269; 1998 VL₉, 8, 4, 1460; 1998 VY₃₄, 2, 1, 0; 1998 VO₃₈, 4, 2, 923; 1998 WG₁, 2, 1, 0; 1998 WF₄, 1, 1, 0; 1998 WB₂₄, 1, 1, 0; 1998 XD, 2, 1, 0; 1998 XG₆₁, 2, 1, 0; 1998 YS₅, 2, 1, 0; 1998 YV₁₅, 2, 1, 0; 1998 YV₁₆, 2, 1, 0; 1998 YM₂₂, 1, 1, 0; 1999 AN₂, 4, 2, 7242; 1999 AY₇, 3, 2, 1090; 1999 BY₂, 3, 2, 5; 1999 BR₆, 6, 3, 5546; 1999 BP₇, 5, 3, 1384; 1999 BK₈, 4, 2, 4; 1999 BF₁₂, 4, 2, 6120; 1999 BJ₁₄, 2, 1, 0; 1999 BR₁₄, 1, 1, 0; 1999 CG₄, 2, 1, 0; 1999 CQ₉, 2, 1, 0; 1999 CF₁₄, 4, 2, 3238; 1999 CM₁₆, 3, 1, 0; 1999 CD₂₁, 5, 3, 1948; 1999 CH₇₂, 2, 1, 0; 1999 CY₇₂, 1, 1, 0; 1999 CO₁₂₇, 2, 1, 0; 1999 DM₁, 2, 1, 0; 1999 DP₆, 4, 2, 4368; 1999 DY₆, 2, 1, 0; 1999 FV₁₉, 3, 2, 1398; 1999 FO₂₁, 5, 3, 3391; 1999 GA₅, 1, 1, 0;

1999 GK₁₇, 2, 1, 0; 1999 JD, 4, 2, 921; 1999 JA₁₂, 4, 2, 3; 1999 JB₂₀, 4, 2, 62; 1999 JQ₃₂, 2, 1, 0; 1999 JS₅₅, 2, 1, 0; 1999 JJ₅₈, 2, 1, 0; 1999 JP₆₁, 5, 3, 934; 1999 JB₆₄, 2, 1, 0; 1999 JK₇₆, 2, 1, 0; 1999 JN₇₈, 4, 2, 3576; 1999 JK₈₀, 4, 2, 1455; 1999 JO₈₀, 4, 2, 941; 1999 JD₈₄, 6, 3, 5167; 1999 NQ₅₉, 2, 1, 0; 1999 UC₄, 2, 1, 0; 1999 XC₁₅, 2, 1, 0; 1999 XQ₉₅, 4, 2, 1; 1999 XJ₉₉, 2, 1, 0; 1999 XZ₁₀₀, 2, 1, 0; 1999 XG₁₃₄, 2, 1, 0; 1999 XG₁₄₄, 2, 1, 0; 1999 XM₁₆₉, 2, 1, 0; 1999 XY₁₇₂, 2, 1, 0; 1999 XR₂₁₇, 2, 1, 0; 2000 AV₃₀, 2, 1, 0; 2000 AX₆₄, 4, 2, 5022; 2000 AO₂₁₄, 6, 3, 2568; [391, 120, 0*, 1974/06/22–1996/11/02]

{6} 1999 VM₄₀, 2, 1, 0; [2, 1, 0*, 1974/08/13]

422 Loomberah

G. J. Garradd, P.O. Box 157, Tamworth, NSW 2340, Australia
[loomberah@ozemail.com.au]

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

GSC-ACT

1999 WC₂, 3, 1, 0; 1999 XP₃₅, 3, 1, 0; 2000 AX₉₃, 3, 1, 0; 2000 BL₁₉, 2, 1, 0; 2000 DM₁, 3, 1, 0; 2000 DO₁, 9, 3, 3; 2000 DF₈, 2, 1, 0; 2000 DH₈, 6, 2, 2; 2000 DM₈, 10, 3, 3; 2000 DO₈, 10, 2, 1; 2000 DP₁₀₇, 9, 3, 2; 2000 DQ₁₁₀, 9, 3, 2; 2000 ED₁₀₄, 2, 1, 0; 2000 EE₁₀₄, 3, 1, 0; 2000 EF₁₀₄, 4, 1, 0; 2000 EG₁₀₄, 3, 1, 0; 2000 EH₁₀₄, 4, 1, 0; [85, 17, 0*, 2000/02/10–2000/03/15]

423 North Ryde

S. G. McAndrew, 2/32 Twin Rd, North Ryde, NSW 2113, Australia
[sgmcandrew@ozemail.com.au]

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

GSC

1989 AA, 2, 1, 0; 1993 KR, 5, 2, 2; 1995 KZ₁, 2, 1, 0; 1998 XS₂₀, 6, 2, 1; 1999 VL₄₀, 15, 6, 44; [30, 5, 0*, 2000/02/02–2000/03/17]

426 Woomera

F. B. Zoltowski, Tebbutt Observatory, 70 Abajo Dr., Edgewood, NM 87015, U.S.A.
[fbzolt@compuserve.com]

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

USNO-A2.0

1997 WA, 3, 1, 0; 1998 KV₁, 3, 1, 0; [6, 2, 0*, 1997/11/27–1998/04/05]

428 Reedy Creek

J. Broughton, 18 Branch Crescent, Reedy Creek, QLD 4228, Australia
[reedycrk@one.net.au]

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

GSC

1995 EZ₇, 2, 1, 0; 1995 YX₁, 2, 1, 0; 1997 TK₁, 4, 2, 1; 1998 TZ₁, 2, 1, 0; 1998 VE₃₃, 2, 1, 0; 1999 US₃, 2, 1, 0; 1999 VA₉, 2, 1, 0; 1999 XP₃₅, 1, 1, 0; 2000 AY₉₃, 3, 2, 16; 2000 AS₁₄₄, 2, 1, 0; 2000 AB₂₂₉, 2, 1, 0; 2000 CT₆₂, 1, 1, 0; 2000 CO₈₀, 4, 2, 1; 2000 EC₄ *, 6, 3, 2; 2000 EC₁₅ *, 4, 2, 1; 2000 ED₁₅ *, 7, 4, 10; 2000 ES₇₀, 3, 1, 0; 2000 ET₇₀, 5, 2, 2; 2000 EW₇₀, 2, 1, 0; 2000 EN₇₅ *, 5, 2, 8; 2000 EL₁₀₄ *, 4, 2, 1; 2000 EO₁₀₄ *, 3, 2, 1; 2000 EP₁₀₄ *, 4, 2, 1; 2000 ET₁₀₆ *, 4, 2, 1; (1036), 2, 1, 0; (1373), 2, 1, 0; (1917), 1, 1, 0; (3090), 1, 1, 0; (3122), 1, 1, 0; (3552), 1, 1, 0; (5207), 2, 1, 0; (6172), 2, 1, 0; (12711), 2, 1, 0; (13343), 5, 2, 1; (13732), 2, 1, 0; [97, 35, 8*, 2000/02/10–2000/03/16]

461 JATE Asteroid Survey, Piskéztető Stn. (Konkoly)

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

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

Measurers K. Sárneczky, K. Sziládi

0.60-m Schmidt + CCD

USNO-A2.0

A908 SA, 3, 1, 0; 1937 UD, 3, 1, 0; 1971 UQ, 3, 1, 0; 1972 TE, 3, 1, 0; 1973 SX₂, 3, 1, 0; 1975 ST, 3, 1, 0; 1975 TJ₃, 3, 1, 0; 1994 VY₂, 3, 1, 0; 1997 UW₁₄, 3, 1, 0; 1999 GJ₄, 3, 1, 0; 1999 XW₁₇₆, 2, 1, 0; 2000 AF₄, 3, 1, 0; 2000 BD₁, 3, 1, 0; 2000 CQ₆₃, 4, 1, 0; 2000 DY₇₄, 4, 1, 0; 2000 ET₇₀, 3, 1, 0; 2000 EU₇₀, 4, 1, 0; 2000 EV₇₀, 3, 1, 0; 2000 EW₇₀, 3, 1, 0; 2000 EL₉₄, 3, 1, 0; 2000 EE₁₀₄, 4, 1, 0; 2000 EL₁₀₆ *, 7, 2, 2; 2000 EM₁₀₆ *, 7, 2, 2; (498), 4, 1, 0; (13882), 4, 1, 0; [88, 25, 2*, 2000/01/01–2000/03/16]

474 Mount John

I. P. Griffin, Auckland Observatory, P.O. Box 24-180, Royal Oak, Auckland, New Zealand [iang@stardome.org.nz]

Observers I. P. Griffin, N. Brady

1.0-m $f/6.7$ McClellan reflector + CCD
USNO-A2.0

1997 XF₁₁, 6, 2, 1; 1998 MQ₄, 4, 1, 0; 1998 UF₁₅, 10, 3, 2; 1998 WK₂, 6, 2, 1; 1999 TB₅, 3, 1, 0; 1999 TY₁₆, 3, 1, 0; 1999 US₃, 3, 1, 0; 1999 WA₂, 5, 1, 0; 1999 XP₃₅, 3, 1, 0; 2000 AC₂₁₂, 3, 1, 0; 2000 CR₅₇, 9, 3, 2; 2000 CE₅₉, 4, 1, 0; 2000 CD₈₅, 3, 1, 0; 2000 DO₁, 4, 1, 0; 2000 DF₈, 5, 1, 0; 2000 DH₈, 5, 1, 0; 2000 DO₈, 6, 1, 0; 2000 DT₅₄, 6, 2, 1; 2000 DA₆₅, 6, 2, 1; 2000 DP₁₀₇, 16, 4, 3; 2000 DQ₁₁₀, 20, 5, 5; 2000 EO *, 15, 5, 5; 2000 EQ₁, 5, 1, 0; 2000 ED₄ *, 10, 3, 3; 2000 EE₄ *, 11, 4, 3; 2000 EZ₇ *, 6, 2, 2; 2000 EB₈ *, 9, 3, 3; 2000 EX₁₃, 10, 3, 2; 2000 EY₁₃, 8, 2, 2; 2000 EZ₁₃, 17, 4, 4; 2000 EA₁₄, 15, 3, 3; 2000 EB₁₄, 2, 1, 0; 2000 EC₁₄, 7, 2, 1; 2000 EE₁₅ *, 6, 2, 1; 2000 EH₂₆, 5, 1, 0; 2000 EJ₂₆, 2, 1, 0; 2000 EM₂₆, 1, 1, 0; (13115), 3, 1, 0; (13376), 3, 1, 0; [265, 39, 6*, 2000/03/02–2000/03/07]

504 Le Creusot

J.-C. Merlin, 18 rue P. Mendès-France, F-71200 Le Creusot, France

[merlin@obsmp.fr]

0.40-m $f/5.1$ reflector + CCD

GSC

1998 XZ₈, 4, 1, 0; 2000 AN₄₈, 7, 2, 13; 2000 AJ₂₀₃, 4, 1, 0; (9190), 3, 1, 0; [18, 4, 0*, 2000/02/23–2000/03/07]

540 Linz

E. Meyer, F. Marklstrasse 1/62, A-4040 Linz, Austria [erich.meyer@ooenet.at]

Observers E. Meyer, E. Obermair

0.60-m $f/3.3$ reflector + CCD

USNO-A2.0, GSC-I.1, USNO-SA2.0

1996 AV₁, 4, 1, 0; 1996 BZ₅, 5, 1, 0; 1997 EJ₁₁, 3, 1, 0; 1998 YL₈, 3, 1, 0; 2000 AD₆, 6, 1, 0; 2000 BE₁₉, 3, 1, 0; 2000 BG₁₉, 4, 1, 0; 2000 CL₃₃, 4, 1, 0; 2000 CE₅₉, 3, 1, 0; 2000 CR₁₀₁, 4, 1, 0; 2000 CT₁₀₁, 6, 2, 7; 2000 DM₁, 3, 1, 0; 2000 DN₁, 4, 1, 0; 2000 ED₁₄, 5, 1, 0; 2000 EE₁₄, 4, 1, 0; 2000 EW₇₀, 3, 1, 0; [64, 16, 0*, 2000/02/14–2000/03/18]

541 Stefanik Observatory, Prague-Petrin

J. Manek, Pruchova 38/583, C-15000 Prague 5-Kosire, Czechoslovakia

0.41-m $f/6.9$ Schmidt-Cassegrain + CCD

GSC-ACT

2000 EE₁₄, 11, 1, 0; [11, 1, 0*, 2000/03/07]

552 San Vittore

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

[ermes.colombini@iol.it]

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

0.45-m $f/3.3$ reflector + CCD

GSC

1989 BH₂, 2, 1, 0; 1995 UM₅, 2, 1, 0; 1996 JJ₁₂, 2, 1, 0; 1997 JR₃, 3, 1, 0; 1998 ST₁₃₂, 3, 1, 0; 2000 CK₉₇, 7, 3, 3; (1956), 3, 1, 0; [22, 7, 0*, 1996/05/24–2000/03/06]

557 Ondřejov

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

Observers P. Pravec, L. Šarounová, P. Kušnirák, L. Vašta

0.65-m $f/3.6$ reflector + CCD

USNO-SA2.0

1991 DB₁₀, 2, 7; 1994 GB₁, 3, 1, 0; 1994 QC₁₁, 3, 15; 1996 HP₂, 2, 1, 0; 1996 HV₆, 6, 2, 2; 1996 LJ₁, 2, 1, 0; 1997 RA₁, 3, 1, 0; 1997 SN₁, 2, 1, 0; 1997 TF₂₉, 2, 1, 0; 1997 UH₂, 2, 1, 0; 1997 UU₇, 2, 1, 0; 1997 US₁₀, 5, 2, 2; 1997 UW₁₄, 5, 2, 1; 1997 WP₂₈, 2, 1, 0; 1998 QE₂₉, 7, 3, 24; 1998 QN₆₀, 2, 1, 0; 1998 SU₂, 3, 1, 0; 1998 UC₁₅, 4, 2, 8; 1998 VW₄, 8, 3, 23; 1998 WH₁₇, 2,

1, 0; 1998 YY₂, 2, 1, 0; 1999 NC₄₃, 11, 3, 6; 1999 RH₂₇, 18, 6, 36; 1999 VA₈₆, 3, 1, 0; 2000 AU₄₉, 6, 2, 1; 2000 AB₂₀₄, 3, 1, 0; 2000 CL₁, 2, 1, 0; 2000 CP₃₄, 3, 1, 0; 2000 CG₄₁, 6, 2, 1; 2000 CV₄₂, 2, 1, 0; 2000 CU₅₃, 3, 1, 0; 2000 CT₁₀₁, 3, 1, 0; 2000 DX₇, 2, 2; 2000 DL₁, 11, 2, 1; 2000 DM₁, 6, 2, 1; 2000 DN₁, 9, 3, 3; 2000 DM₂ *, 5, 2, 1; 2000 DF₈, 8, 3, 2; 2000 DG₈, 8, 3, 3; 2000 DH₈, 4, 1, 0; 2000 DJ₈, 6, 2, 2; 2000 DK₈, 5, 2, 2; 2000 DL₈, 6, 2, 1; 2000 DM₈, 6, 2, 3; 2000 DN₈, 3, 1, 0; 2000 DO₈, 10, 1, 0; 2000 DK₇₉, 3, 1, 0; 2000 DP₁₀₇, 3, 1, 0; 2000 DQ₁₁₀, 3, 1, 0; 2000 EC₁₁, 5, 2, 4; 2000 EX₁₃, 3, 1, 0; 2000 EY₁₃, 2, 1, 0; 2000 EZ₁₃, 2, 1, 0; 2000 EB₁₄, 4, 1, 0; 2000 EC₁₄, 2, 1, 0; 2000 ED₁₄, 3, 1, 0; 2000 EE₁₄, 9, 2, 2; 2000 EJ₂₆, 2, 1, 0; 2000 EK₂₆, 4, 2, 2; 2000 EM₂₆, 2, 1, 0; 2000 EM₄₉, 4, 1, 0; 2000 ET₇₀, 8, 2, 3; 2000 EC₁₀₄, 3, 1, 0; 3178 T-2, 3, 1, 0; (1127), 6, 2, 1; (7773), 3, 1, 0; [313, 66, 1*, 1997/10/28–2000/03/13]

561 Piskésetető Stn. (Konkoly)

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

[kelemen@ogyalla.konkoly.hu]

0.60-m Schmidt telescope + CCD

USNO-A2.0

1998 XH₁, 3, 1, 0; [3, 1, 0*, 1998/11/24]

565 Bassano Bresciano

U. Quadri, Osservatorio di Bassano Bresciano, Via S. Michele 4, I-25020 Bassano Bresciano (BS), Italy [astrofil@astboi.bo.cnr.it]

Observers U. Quadri, L. Strabla, R. Girelli

0.40-m $f/2.5$ Schmidt + CCD

GSC

(6), 2, 1, 0; (7), 4, 2, 1; (18), 2, 1, 0; (265), 2, 1, 0; (532), 2, 1, 0; [12, 5, 0*, 2000/02/09–2000/02/10]

566 Haleakala-NEAT/GEODSS

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

[efh@ipl.jpl.nasa.gov]

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

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

C. Cotton, D. Bascon

1-m $f/2.2$ Ritchey-Chrétien + CCD

1979 MJ₄, 3, 1, 0; 1980 FE₂, 3, 1, 0; 1989 ST₁₀, 12, 4, 613; 1989 TQ₃, 3, 1, 0; 1991 RM₁, 3, 1, 0; 1992 FL₃, 3, 1, 0; 1992 GA₅, 3, 1, 0; 1993 PY₃, 3, 1, 0; 1995 BG₃, 3, 1, 0; 1996 DE₅, 3, 1, 0; 1996 EM₃, 3, 1, 0; 1996 FT₂₀, 3, 1, 0; 1996 GA₂₁, 3, 1, 0; 1996 JA₂, 3, 1, 0; 1996 JU₂, 3, 1, 0; 1996 KD₆, 3, 1, 0; 1996 TR₅₁, 3, 1, 0; 1996 TS₆₂, 3, 1, 0; 1997 CM₁₂, 3, 1, 0; 1997 EJ₃₃, 3, 1, 0; 1997 GO₂₃, 3, 1, 0; 1997 LO₃, 3, 1, 0; 1997 SD₃₄, 6, 2, 89; 1997 TM₂₇, 3, 1, 0; 1997 TF₂₉, 3, 1, 0; 1997 UN₈, 3, 1, 0; 1997 WA₃, 3, 1, 0; 1998 DY₁₉, 3, 1, 0; 1998 DD₃₇, 3, 1, 0; 1998 FF₂₂, 3, 1, 0; 1998 FX₃₀, 3, 1, 0; 1998 FB₃₁, 3, 1, 0; 1998 FR₃₇, 3, 1, 0; 1998 FY₁₀₇, 6, 2, 60; 1998 HN₆₇, 3, 1, 0; 1998 HP₁₀₁, 6, 2, 19; 1998 HS₁₁₂, 3, 1, 0; 1998 HW₁₂₆, 6, 2, 28; 1998 KV₁, 3, 1, 0; 1998 KL₁₃, 3, 1, 0; 1998 MP₃₇, 3, 1, 0; 1998 QJ₁₈, 3, 1, 0; 1998 QL₅₁, 3, 1, 0; 1998 QH₆₃, 3, 1, 0; 1998 QC₇₉, 3, 1, 0; 1998 QX₈₆, 3, 1, 0; 1998 QW₁₀₁, 6, 2, 28; 1998 RC₁₆, 3, 1, 0; 1998 RN₂₅, 3, 1, 0; 1998 RN₇₀, 3, 1, 0; 1998 RL₇₅, 3, 1, 0; 1998 SM₄₁, 3, 1, 0; 1998 SK₄₅, 6, 2, 30; 1998 SA₇₁, 3, 1, 0; 1998 SU₇₃, 3, 1, 0; 1998 SK₁₁₅, 3, 1, 0; 1998 SE₁₄₆, 3, 1, 0; 1998 SU₁₆₂, 3, 1, 0; 1998 UJ₇, 3, 1, 0; 1998 UM₂₁, 3, 1, 0; 1998 UA₂₄, 3, 1, 0; 1998 UH₂₉, 3, 1, 0; 1998 UV₂₉, 3, 1, 0; 1998 UQ₃₄, 3, 1, 0; 1998 US₄₇, 3, 1, 0; 1998 VS₆, 3, 1, 0; 1998 VO₄₅, 3, 1, 0; 1998 VX₈₅, 3, 1, 0; 1998 VA₄₆, 3, 1, 0; 1998 WV₈, 3, 1, 0; 1998 XO₁₁, 3, 1, 0; 1998 XM₂₈, 3, 1, 0; 1998 XO₂₈, 3, 1, 0; 1998 XU₆₅, 3, 1, 0; 1998 XR₇₄, 3, 1, 0; 1998 XM₇₇, 3, 1, 0; 1998 YV₁₆, 3, 1, 0; 1999 BS₉, 3, 1, 0; 1999 BF₁₂, 3, 1, 0; 1999 BV₁₄, 3, 1, 0; 1999 GK₄₀, 3, 1, 0; 1999 JG₅₃, 6, 2, 27; 1999 JS₅₅, 3, 1, 0; 1999 JP₆₁, 3, 1, 0; 1999 JK₈₀, 3, 1, 0; 1999 KP₆, 3, 1, 0; 1999 MO₃, 3, 1, 0; 1999 NQ₅₉, 3, 1, 0; 1999 NP₆₄, 3, 1, 0; 1999 RA₁₀₅, 3, 1, 0; 1999 RL₁₃₃, 3, 1, 0; 1999 TL₁₉, 3, 1, 0; 1999 VX₈₅, 3, 1, 0; 1999 VP₁₀₆, 3, 1, 0; 1999 XP₁₂₈, 6, 2, 501; 1999 XQ₁₆₇, 6, 2, 23; 1999 XM₁₇₂, 3, 1, 0; 2000 AS₆₂, 3, 1, 0; 2000 AV₂₀₃, 3, 1, 0; 2000 AO₂₃₆, 3, 1, 0; 2000 AX₂₄₃, 3, 1, 0; 2000 BX₂₇, 3, 1, 0; 2000 CK₁, 3, 1, 0; 2000 CL₂₄, 3, 1, 0; 2000 CO₂₅, 3, 1, 0; 2000 CV₂₆, 3, 1, 0; 2000 CZ₂₆, 6, 2, 60; 2000 CK₂₉, 3, 1, 0; 2000 CS₃₂, 3, 1, 0; 2000 CE₃₄, 3, 1, 0; 2000 CG₃₆, 3, 1, 0; 2000 CO₃₆, 3, 1, 0; 2000 CJ₅₄, 3, 1, 0; 2000 CS₅₅, 3, 1, 0; 2000 CS₆₃, 3, 1, 0; 2000 CD₇₁, 3, 1, 0; 2000 CO₇₁, 3, 1, 0; 2000 CG₇₇, 3, 1, 0; 2000 CJ₈₂, 3, 1, 0; 2000 CF₈₃, 3, 1, 0; 2000 CB₈₅, 3, 1, 0; 2000 CK₈₆, 3, 1, 0; 2000 CB₉₂, 3, 1, 0; 2000 CC₉₄, 3, 1, 0; 2000 CL₉₄, 3, 1, 0; 2000 CH₁₀₃, 3, 1, 0; 2000 DD₃, 3, 1, 0; 2000 DA₇, 3, 1, 0; 2000 DV₁₄, 3, 1, 0; 2000 DC₇₀, 3, 1, 0; 2000 DT₇₂, 3, 1, 0; 2000 DG₇₅, 3, 1, 0; 2000 DV₁₀₁, 3, 1, 0; 2000 DW₁₀₆, 3, 1, 0; 2002 P-L, 3, 1, 0; 6069 P-L, 3, 1, 0; 3447 T-3, 3, 1, 0; 5038 T-3, 3, 1, 0; [453, 138, 0*, 1995/12/19–1998/11/16]

568 Mauna Kea

D. Jewitt, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822,
U.S.A. [jewitt@galileo.ifa.hawaii.edu] (1)
D. J. Tholen, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822,
U.S.A. [tholen@hale.ifa.hawaii.edu] (2)
C. Veillet, Canada-France-Hawaii Telescope Corporation, P.O. Box 1597, Kamuela,
HI 96743, U.S.A. [veillet@cfht.hawaii.edu] (3)
B. Gladman, Observatoire de Nice, Department Cassini, BP 229, F-06304 Nice
Cedex 4, France [gladman@obs-nice.fr] (6)
D. D. Balam, Dept. of Physics, University of Victoria, P.O. Box 3055, Victoria, BC
V8W 3P6, Canada [balam@beluga.phys.uvic.ca] (9)
Observers C. A. Trujillo, D. C. Jewitt, J. X. Luu, S. S. Sheppard, D. J. Tholen,
R. J. Whiteley, C. Veillet, J. Kavelaars, A. Morbidelli, H. Ebeling, A. Pickles,
Y. Fernandez, C. J. Pritchett
Measurers C. A. Trujillo, D. J. Tholen, R. J. Whiteley, C. Veillet, B. Gladman,
H. Scholl, D. D. Balam
2.24-m reflector + CCD, 3.6-m Canada-France-Hawaii Telescope
USNO-A2.0

{1} 1999 RA₂₁₆ *, 10, 4, 62; 1999 RB₂₁₆ *, 11, 5, 62; 1999 RC₂₁₆ *, 10, 4, 62; [31, 3, 3*,
1999/09/08–1999/11/09]

{2} 2000 AB₂₄₆ *, 2, 1, 0; (981), 1, 1, 0; (3398), 2, 1, 0; [5, 3, 0*, 2000/03/06–2000/03/09]

{3} 1990 SE₅ *, 2, 1, 0; 1998 QM₂₈ *, 2, 1, 0; 1998 QZ₅₅ *, 2, 1, 0; 1998 RV₇₁ *, 2, 1, 0; 1999 OW₃ *, 2, 1, 0;
1999 XG₉₄ *, 2, 1, 0; 1999 YO₁₈ *, 3, 2, 1; 1999 YP₁₈ *, 3, 2, 1; 1999 YQ₁₈ *, 3, 2, 1; 1999 YR₁₈ *,
3, 2, 1; 1999 YS₁₈ *, 3, 2, 1; 1999 YT₁₈ *, 3, 2, 1; 1999 YU₁₈ *, 3, 2, 1; 1999 YV₁₈ *, 3, 2, 1;
1999 YW₁₈ *, 3, 2, 1; 1999 YX₁₈ *, 3, 2, 1; 1999 YY₁₈ *, 3, 2, 1; 1999 YZ₁₈ *, 3, 2, 1; 1999 YA₁₉ *,
3, 2, 1; 1999 YB₁₉ *, 3, 2, 1; 1999 YC₁₉ *, 3, 2, 1; 1999 YD₁₉ *, 3, 2, 1; 1999 YE₁₉ *, 3, 2, 1;
1999 YF₁₉ *, 3, 2, 1; 1999 YG₁₉ *, 3, 2, 1; 1999 YH₁₉ *, 3, 2, 1; 1999 YJ₁₉ *, 3, 2, 1; 1999 YK₁₉ *,
3, 2, 1; 1999 YL₁₉ *, 3, 2, 1; 1999 YM₁₉ *, 3, 2, 1; 1999 YN₁₉ *, 3, 2, 1; 1999 YO₁₉ *, 3, 2, 1;
1999 YP₁₉ *, 3, 2, 1; 1999 YQ₁₉ *, 3, 2, 1; 1999 YR₁₉ *, 3, 2, 1; 1999 YS₁₉ *, 3, 2, 1; 1999 YT₁₉ *,
3, 2, 1; 1999 YU₁₉ *, 3, 2, 1; 1999 YV₁₉ *, 3, 2, 1; 1999 YW₁₉ *, 3, 2, 1; 1999 YX₁₉ *, 3, 2, 1;
1999 YY₁₉ *, 3, 2, 1; 1999 YZ₁₉ *, 3, 2, 1; 1999 YA₂₀ *, 3, 2, 1; 1999 YB₂₀ *, 3, 2, 1; 1999 YC₂₀ *,
3, 2, 1; 1999 YD₂₀ *, 3, 2, 1; 1999 YE₂₀ *, 3, 2, 1; 1999 YF₂₀ *, 3, 2, 1; 1999 YG₂₀ *, 3, 2, 1;
1999 YH₂₀ *, 3, 2, 1; 1999 YJ₂₀ *, 3, 2, 1; 1999 YK₂₀ *, 3, 2, 1; 1999 YL₂₀ *, 3, 2, 1; 1999 YM₂₀ *,
3, 2, 1; 1999 YN₂₀ *, 3, 2, 1; 1999 YO₂₀ *, 3, 2, 1; 1999 YP₂₀ *, 3, 2, 1; 1999 YQ₂₀ *, 3, 2, 1;
1999 YR₂₀ *, 3, 2, 1; 1999 YS₂₀ *, 3, 2, 1; 1999 YT₂₀ *, 3, 2, 1; 1999 YU₂₀ *, 3, 2, 1; 1999 YV₂₀ *,
3, 2, 1; 1999 YW₂₀ *, 3, 2, 1; 1999 YX₂₀ *, 3, 2, 1; 1999 YY₂₀ *, 3, 2, 1; 1999 YZ₂₀ *, 3, 2, 1;
1999 YA₂₁ *, 3, 2, 1; 1999 YB₂₁ *, 3, 2, 1; 1999 YC₂₁ *, 3, 2, 1; 1999 YD₂₁ *, 3, 2, 1; 1999 YE₂₁ *,
3, 2, 1; 1999 YF₂₁ *, 3, 2, 1; 1999 YG₂₁ *, 3, 2, 1; 1999 YH₂₁ *, 3, 2, 1; 1999 YJ₂₁ *, 3, 2, 1;
1999 YK₂₁ *, 3, 2, 1; 1999 YL₂₁ *, 3, 2, 1; 1999 YM₂₁ *, 3, 2, 1; 1999 YN₂₁ *, 3, 2, 1; 1999 YO₂₁ *,
3, 2, 1; 1999 YP₂₁ *, 3, 2, 1; 1999 YQ₂₁ *, 3, 2, 1; 1999 YR₂₁ *, 3, 2, 1; 1999 YS₂₁ *, 3, 2, 1;
1999 YT₂₁ *, 3, 2, 1; 1999 YU₂₁ *, 3, 2, 1; 1999 YV₂₁ *, 3, 2, 1; 1999 YW₂₁ *, 3, 2, 1;
1999 YX₂₁ *, 3, 2, 1; 1999 YY₂₁ *, 3, 2, 1; 2000 AS₁ *, 2, 1, 0; 2000 AX₄ *, 3, 2, 1; 2000 AJ₁₁ *,
2, 1, 0; 2000 AK₄₈ *, 3, 2, 1; 2000 AL₈₇ *, 3, 2, 1; 2000 AP₉₀ *, 2, 1, 0; 2000 BM₁₀ *, 3, 2, 1; 2000 BY₂₅ *,
3, 2, 1; 2000 BT₃₀ *, 4, 2, 1; 2000 BU₃₀ *, 4, 2, 1; 2000 BV₃₀ *, 4, 2, 1; 2000 BW₃₀ *, 4,
2, 1; 2000 BX₃₀ *, 4, 2, 1; 2000 BY₃₀ *, 4, 2, 1; 2000 BZ₃₀ *, 4, 2, 1; 2000 BA₃₁ *, 4, 2, 1;
2000 BB₃₁ *, 4, 2, 1; 2000 BC₃₁ *, 4, 2, 1; 2000 CP₁₉ *, 4, 2, 1; 2000 DO₈ *, 1, 1, 0; [336, 112, 96*,
1999/12/29–2000/03/06]

{6} 2000 AF₂₄₆ *, 6, 2, 1; [6, 1, 1*, 2000/01/01–2000/01/02]

{9} 5366 T-2, 3, 1, 0; [3, 1, 0*, 1999/10/11]

586 Pic du Midi

C. Cavadore, MitterWeg Str 2, Garching bei München, D-85748 Germany
[ccavador@eso.org]
Observers F. Colas, P. Rousselot
1.05 m $f/6$ reflector + CCD
USNO-A2.0
2000 CR₅₇, 16, 2, 2; 2000 CE₉₁, 10, 1, 0; [26, 2, 0*, 2000/03/09–2000/03/12]

587 Sormano

P. Sicoli, Via Valli 9, I-23846 Garbagnate Monastero (Lecco), Italy
[sormano@tin.it]
Observers F. Manca, P. Sicoli, P. Chiavenna, A. Testa, V. Giuliani, G. Ventre,
M. Cavagna
0.5-m reflector + CCD
2000 BG₁₉ *, 2, 1, 0; 2000 CO₁₀₁ *, 1, 1, 0; 2000 DM₁ *, 2, 1, 0; 2000 DN₁ *, 2, 1, 0; 2000 DO₁ *, 3, 1, 0;
2000 DK₈ *, 3, 1, 0; 2000 DM₈ *, 1, 1, 0; 2000 DN₈ *, 3, 1, 0; 2000 DP₁₀₇ *, 2, 1, 0; 2000 DQ₁₁₀ *, 2, 1,
0; 2000 EB₁₄ *, 2, 1, 0; 2000 ED₁₄ *, 5, 2, 7; 2000 EE₁₄ *, 5, 2, 7; 2000 EL₂₆ *, 2, 1, 0; 2000 EM₂₆ *, 2,
1, 0; 2000 ER₇₀ *, 3, 1, 0; 2000 ES₇₀ *, 2, 1, 0; 2000 ET₇₀ *, 2, 1, 0; 2000 EU₇₀ *, 2, 1, 0; 2000 EV₇₀ *,
3, 1, 0; 2000 EW₇₀ *, 2, 1, 0; 2000 EE₁₀₄ *, 3, 1, 0; [54, 22, 0*, 2000/03/06–2000/03/13]

592 Solingen

B. Koch, Fliederweg 10, D-42699 Solingen, Germany [BerndKoch@aol.com]
z0.36-m $f/5$ Schmidt-Cassegrain + CCD
GSC
2000 CZ₆₂, 4, 1, 0; [4, 1, 0*, 1997/11/19]

595 Farra d'Isonzo

L. Bittesini, Via dei Conventi 10, I-34070 Farra D'Isonzo (GO), Italy
[ccaf@tmedia.it]
Observers E. Pettarin, G. Lombardi, A. Toso, L. Bittesini, M. Spolaor, W. Boschin
Measurers G. Lombardi, E. Pettarin, A. Toso
0.4-m $f/4.5$ reflector + CCD
GSC, USNO-SA1.0
1998 UX₆ *, 4, 2, 2; 1999 AQ₅ *, 5, 2, 2; 2000 BU₃ *, 3, 1, 0; 2000 CE₅₉ *, 3, 1, 0; 2000 CF₅₉ *, 4, 1, 0;
2000 DL₁ *, 3, 1, 0; 2000 DO₁ *, 3, 1, 0; 2000 DH₈ *, 4, 1, 0; 2000 DM₈ *, 7, 2, 5; 2000 DP₁₀₇ *, 4, 1, 0;
2000 DQ₁₁₀ *, 3, 1, 0; 2000 EX₇ *, 5, 2, 1; 2000 EY₇ *, 6, 2, 1; 2000 ED₁₄ *, 3, 1, 0; 2000 EL₁₅ *,
6, 2, 1; 2000 EM₁₅ *, 6, 2, 1; 2000 ET₇₀ *, 6, 2, 1; (5495), 2, 1, 0; (11305), 3, 1, 0; [80, 19, 4*,
2000/02/19–2000/03/13]

596 Colleverde di Guidonia

V. S. Casulli, Via M. Rosa 1, I-00010 Colleverde di Guidonia (RM), Italy
[v.casulli@priminet.it]
0.40-m $f/3.2$ reflector + CCD
GSC
1998 QK₅₁ *, 2, 1, 0; 1999 YH₅ *, 3, 1, 0; [5, 2, 0*, 2000/02/24]

599 Campo Imperatore-CINEOS

A. Carusi, Istituto di Astrofisica Spaziale, Via Fosso del Cavaliere, I-00133 Rome,
Italy [carusi@saturn.ias.fra.cnr.it]
Observers A. Boattini, A. Di Clemente
Measurers A. Boattini, G. Forti
0.60-m $f/3$ Schmidt + CCD
GSC
1997 JQ₁₅ *, 2, 1, 0; 1998 SP₁₅₆ *, 2, 1, 0; 2000 CZ₈₈ *, 2, 1, 0; [6, 3, 0*, 1997/05/27–1997/06/10]

608 Haleakala-NEAT/MSSS

P. Kervin, Air Force Maui Optical Station, 535 Lipoa Parkway, Suite 200, Kihei,
Maui, HI 96753, U.S.A. [paul@ulua.mhpcc.af.mil]
E. F. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.
[efh@temblor.jpl.nasa.gov]
Observers E. F. Helin, S. Pravdo, K. Lawrence, P. Kervin, D. Talent, R. Maeda,
P. Tanner
1.2-m reflector + CCD
1975 ST₃ *, 3, 1, 0; 1975 VZ₈ *, 3, 1, 0; 1980 FQ₁ *, 3, 1, 0; 1981 EH₂₈ *, 3, 1, 0; 1981 QW₂ *, 3, 1, 0;
1982 RK₁ *, 3, 1, 0; 1984 SA₃ *, 3, 1, 0; 1985 PE₁ *, 3, 1, 0; 1987 UX₃ *, 3, 1, 0; 1988 PU₃ *, 3, 1, 0; 1988 PL₂ *,

3, 1, 0; 1988 RM₂, 3, 1, 0; 1988 UV, 3, 1, 0; 1989 AD₇, 3, 1, 0; 1989 CC₃, 3, 1, 0; 1989 GN₃, 3, 1, 0; 1990 DZ, 3, 1, 0; 1990 OH₂, 3, 1, 0; 1990 OR₃, 3, 1, 0; 1990 OY₃, 3, 1, 0; 1990 RS₆, 3, 1, 0; 1990 SK₂₈, 3, 1, 0; 1990 UC₁, 3, 1, 0; 1991 AE₂, 3, 1, 0; 1991 DB, 3, 1, 0; 1991 NK₄, 3, 1, 0; 1991 OV, 3, 1, 0; 1991 RR₁, 3, 1, 0; 1991 RL₈, 3, 1, 0; 1991 RO₁₁, 3, 1, 0; 1991 RP₁₂, 3, 1, 0; 1991 UE₁, 3, 1, 0; 1992 BP₂, 3, 1, 0; 1992 BQ₂, 3, 1, 0; 1992 DH₁, 3, 1, 0; 1992 EK₁₄, 3, 1, 0; 1992 EW₁₆, 3, 1, 0; 1992 EZ₂₈, 3, 1, 0; 1992 UJ₂, 3, 1, 0; 1993 FQ₁, 3, 1, 0; 1993 FK₉, 3, 1, 0; 1993 FD₂₅, 6, 2, 4; 1993 HX, 3, 1, 0; 1993 RB₁₁, 3, 1, 0; 1993 TW₃₃, 3, 1, 0; 1993 TQ₃₆, 3, 1, 0; 1993 UK, 3, 1, 0; 1994 PK₁₅, 6, 2, 5; 1994 PP₁₆, 3, 1, 0; 1994 PL₂₀, 3, 1, 0; 1994 ST₇, 3, 1, 0; 1994 TT, 3, 1, 0; 1994 WA₄, 3, 1, 0; 1995 BS₁₁, 3, 1, 0; 1995 HR, 3, 1, 0; 1995 UT₈, 3, 1, 0; 1995 UX₄₈, 3, 1, 0; 1995 XP₁, 3, 1, 0; 1995 YY, 3, 1, 0; 1996 GG₁₈, 3, 1, 0; 1996 GE₂₀, 3, 1, 0; 1996 HP₁, 3, 1, 0; 1996 HC₂₅, 3, 1, 0; 1997 JC₁₄, 3, 1, 0; 1997 MY₄, 3, 1, 0; 1997 NU₁, 3, 1, 0; 1997 NE₃, 3, 1, 0; 1997 PE₃, 3, 1, 0; 1997 PU₄, 3, 1, 0; 1997 RQ₅, 3, 1, 0; 1997 SN₁, 3, 1, 0; 1997 VG₈, 3, 1, 0; 1998 OZ₆, 3, 1, 0; 1998 QC, 3, 1, 0; 1998 QB₂₄, 3, 1, 0; 1998 QW₃₁, 3, 1, 0; 1998 QQ₃₅, 3, 1, 0; 1998 QH₄₀, 3, 1, 0; 1998 QT₄₇, 3, 1, 0; 1998 HQ₄₉, 3, 1, 0; 1998 QN₅₁, 3, 1, 0; 1998 QX₅₇, 3, 1, 0; 1998 QN₆₀, 3, 1, 0; 1998 QP₆₀, 3, 1, 0; 1998 QV₈₈, 3, 1, 0; 1998 QK₉₈, 3, 1, 0; 1998 QP₁₀₅, 3, 1, 0; 1998 RD₂, 3, 1, 0; 1998 RM₃, 3, 1, 0; 1998 RQ₅, 3, 1, 0; 1998 RS₇, 3, 1, 0; 1998 RA₄₅, 3, 1, 0; 1998 RK₄₉, 3, 1, 0; 1998 RM₅₄, 3, 1, 0; 1998 RN₅₆, 3, 1, 0; 1998 RT₅₇, 6, 2, 5; 1998 RS₅₇, 3, 1, 0; 1998 RQ₆₁, 3, 1, 0; 1998 RU₆₁, 6, 2, 5; 1998 RA₆₄, 3, 1, 0; 1998 RQ₆₆, 3, 1, 0; 1998 RS₆₈, 3, 1, 0; 1998 RW₇₀, 3, 1, 0; 1998 RK₇₁, 3, 1, 0; 1998 RL₇₁, 3, 1, 0; 1998 RY₇₁, 3, 1, 0; 1998 RX₇₄, 3, 1, 0; 1998 RA₇₅, 3, 1, 0; 1998 RZ₇₆, 3, 1, 0; 1998 RY₇₇, 3, 1, 0; 1998 SM₄, 3, 1, 0; 1998 SK₈, 3, 1, 0; 1998 SO₉, 3, 1, 0; 1998 SX₁₂, 3, 1, 0; 1998 SU₂₁, 3, 1, 0; 1998 SW₂₂, 3, 1, 0; 1998 SP₄₂, 3, 1, 0; 1998 SO₄₅, 3, 1, 0; 1998 SF₆₁, 3, 1, 0; 1998 SY₇₂, 3, 1, 0; 1998 SJ₇₃, 3, 1, 0; 1998 SR₁₀₇, 6, 2, 2; 1998 SM₁₁₅, 3, 1, 0; 1998 SM₁₁₆, 3, 1, 0; 1998 SF₁₂₁, 3, 1, 0; 1998 SC₁₂₂, 3, 1, 0; 1998 SR₁₂₄, 3, 1, 0; 1998 SN₁₃₁, 3, 1, 0; 1998 SS₁₃₃, 3, 1, 0; 1998 SZ₁₃₃, 3, 1, 0; 1998 SN₁₃₄, 3, 1, 0; 1998 SN₁₃₈, 3, 1, 0; 1998 SV₁₄₁, 3, 1, 0; 1998 SY₁₄₃, 3, 1, 0; 1998 SC₁₆₄, 3, 1, 0; 1998 SK₁₆₄, 3, 1, 0; 1998 TA, 3, 1, 0; 1998 TC₆, 3, 1, 0; 1998 TQ₃₁, 3, 1, 0; 1998 UX₁, 3, 1, 0; 1998 UM₂₄, 3, 1, 0; 1998 UC₄₁, 3, 1, 0; 1998 VN₁₁, 3, 1, 0; 1998 VP₁₅, 3, 1, 0; 1998 VH₂₁, 3, 1, 0; 1998 VG₃₁, 3, 1, 0; 1998 WK₉, 3, 1, 0; 1998 WE₁₂, 3, 1, 0; 1998 WQ₁₄, 3, 1, 0; 1998 WA₃₂, 3, 1, 0; 1998 XL₅, 3, 1, 0; 1998 XA₃₃, 3, 1, 0; 1998 XK₆₃, 3, 1, 0; 1998 XK₇₂, 3, 1, 0; 1998 XZ₇₃, 3, 1, 0; 1998 YA₃, 3, 1, 0; 1998 YC₆, 3, 1, 0; 1999 UG₁₁, 3, 1, 0; 1999 XF₁₅, 3, 1, 0; 1999 XW₂₁, 3, 1, 0; 1999 XA₂₂, 3, 1, 0; 1999 XD₂₂, 3, 1, 0; 1999 XU₃₁, 3, 1, 0; 1999 XC₃₃, 3, 1, 0; 1999 XB₃₄, 3, 1, 0; 1999 XV₉₄, 3, 1, 0; 1999 XS₁₃₆, 3, 1, 0; 1999 XZ₂₂₀, 3, 1, 0; 1999 XE₂₂₁, 3, 1, 0; 1999 AV₄₇, 3, 1, 0; 2000 AW₄₇, 3, 1, 0; 2000 AC₅₀, 3, 1, 0; 2000 AR₅₉, 3, 1, 0; 2000 AZ₆₁, 3, 1, 0; 2000 AE₆₂, 3, 1, 0; 2000 AW₆₅, 3, 1, 0; 2000 AL₆₆, 3, 1, 0; 2000 AE₉₂, 3, 1, 0; 2000 AH₉₂, 3, 1, 0; 2000 AR₉₃, 3, 1, 0; 2000 AW₉₅, 3, 1, 0; 2000 AM₉₆, 3, 1, 0; 2000 AO₉₆, 6, 2, 5; 2000 AA₉₇, 3, 1, 0; 2000 AD₉₇, 3, 1, 0; 2000 AF₉₇, 3, 1, 0; 2000 AJ₉₇, 3, 1, 0; 2000 AO₉₇, 3, 1, 0; 2000 AF₉₈, 3, 1, 0; 2000 AK₉₈, 3, 1, 0; 2000 AR₁₁₈, 3, 1, 0; 2000 AX₁₁₉, 3, 1, 0; 2000 AO₁₂₃, 3, 1, 0; 2000 AX₁₂₄, 3, 1, 0; 2000 AC₁₂₅, 3, 1, 0; 2000 AA₁₂₆, 3, 1, 0; 2000 AD₁₂₆, 3, 1, 0; 2000 AT₁₂₆, 3, 1, 0; 2000 AV₁₂₆, 3, 1, 0; 2000 AF₁₂₈, 3, 1, 0; 2000 AH₁₂₈, 3, 1, 0; 2000 AK₁₂₈, 3, 1, 0; 2000 AM₁₂₈, 3, 1, 0; 2000 AR₁₂₈, 3, 1, 0; 2000 AT₁₂₈, 3, 1, 0; 2000 AY₁₃₆, 3, 1, 0; 2000 AF₁₃₇, 3, 1, 0; 2000 AJ₁₃₇, 3, 1, 0; 2000 AF₁₃₇, 3, 1, 0; 2000 AT₁₃₇, 3, 1, 0; 2000 AB₁₄₁, 3, 1, 0; 2000 AD₁₄₁, 3, 1, 0; 2000 AN₁₄₁, 3, 1, 0; 2000 AW₁₄₁, 3, 1, 0; 2000 AX₁₄₁, 3, 1, 0; 2000 AD₁₄₂, 3, 1, 0; 2000 AH₁₄₂, 3, 1, 0; 2000 AJ₁₄₂, 3, 1, 0; 2000 AL₁₄₂, 3, 1, 0; 2000 AQ₁₄₂, 3, 1, 0; 2000 AS₁₄₂, 3, 1, 0; 2000 AD₁₄₃, 6, 2, 5; 2000 AF₁₄₃, 3, 1, 0; 2000 AK₁₄₃, 3, 1, 0; 2000 AV₁₄₃, 3, 1, 0; 2000 AA₁₄₄, 3, 1, 0; 2000 AD₁₄₄, 3, 1, 0; 2000 AM₁₄₄, 3, 1, 0; 2000 AM₁₄₄, 3, 1, 0; 2000 AH₁₄₈, 3, 1, 0; 2000 AY₁₅₀, 3, 1, 0; 2000 AR₁₆₂, 3, 1, 0; 2000 AS₁₆₂, 3, 1, 0; 2000 AT₁₆₂, 3, 1, 0; 2000 AG₁₆₄, 3, 1, 0; 2000 AN₁₆₄, 3, 1, 0; 2000 AY₁₆₇, 3, 1, 0; 2000 AO₁₉₅, 3, 1, 0; 2000 AL₁₉₇, 3, 1, 0; 2000 AR₁₉₇, 3, 1, 0; 2000 AK₁₉₈, 3, 1, 0; 2000 AF₂₂₂, 3, 1, 0; 2000 AP₂₃₃, 3, 1, 0; 2000 AT₂₃₆, 3, 1, 0; 2000 AZ₂₃₆, 3, 1, 0; 2000 AQ₂₃₇, 3, 1, 0; 2000 AR₂₃₇, 3, 1, 0; 2000 AV₂₃₉, 3, 1, 0; 2000 AZ₂₃₉, 3, 1, 0; 2000 AB₂₄₀, 3, 1, 0; 2000 AD₂₄₀, 3, 1, 0; 2000 AD₂₄₂, 3, 1, 0; 2000 AR₂₄₂, 3, 1, 0; 2000 AS₂₄₂, 3, 1, 0; 2000 AD₂₄₃, 3, 1, 0; 2000 AE₂₄₃, 3, 1, 0; 2000 BP₃, 6, 2, 5; 2000 BT₁₃, 3, 1, 0; 2000 BJ₁₄, 3, 1, 0; 2000 BL₂₆, 3, 1, 0; 2000 BX₂₆, 3, 1, 0; 2000 BB₂₇, 3, 1, 0; 2000 BF₂₇, 3, 1, 0; 2000 BM₂₇, 3, 1, 0; 2000 BN₂₇, 3, 1, 0; 2000 BT₂₈, 3, 1, 0; 2000 BA₃₀, 3, 1, 0; 2000 BK₃₀, 3, 1, 0; 2000 CW, 3, 1, 0; 2000 CB₁, 3, 1, 0; 2000 CE₁, 3, 1, 0; 2000 CR₁, 3, 1, 0; 2000 CU₁, 3, 1, 0; 2000 CK₂, 3, 1, 0; 2000 CF₁₈, 3, 1, 0; 2000 CG₂₀, 3, 1, 0; 2000 CN₂₅, 3, 1, 0; 2000 CZ₂₅, 3, 1, 0; 2000 CF₂₆, 3, 1, 0; 2000 CR₂₆, 3, 1, 0; 2000 CH₂₇, 3, 1, 0; 2000 CL₂₇, 3, 1, 0; 2000 CT₂₇, 3, 1, 0; 2000 CX₂₇, 3, 1, 0; 2000 CO₂₉, 3, 1, 0; 2000 CT₂₉, 3, 1, 0; 2000 CB₃₀, 6, 2, 5; 2000 CD₃₀, 3, 1, 0; 2000 CG₃₀, 3, 1, 0; 2000 CU₃₀, 3, 1, 0; 2000 CS₃₂, 3, 1, 0; 2000 CE₃₄, 3, 1, 0; 2000 CJ₃₄, 3, 1, 0; 2000 CR₃₅, 3, 1, 0; 2000 CX₃₅, 6, 2, 5; 2000 CZ₃₅, 3, 1, 0; 2000 CX₃₆, 3, 1, 0; 2000 CZ₃₆, 3, 1, 0; 2000 CA₃₇, 3, 1, 0; 2000 CY₃₈, 3, 1, 0; 2000 CR₃₉, 3, 1, 0; 2000 CH₄₁, 3, 1, 0; 2000 CX₄₅, 3, 1, 0; 2000 CP₄₇, 3, 1, 0; 2000 CV₄₇, 3, 1, 0; 2000 CB₄₈, 3, 1, 0; 2000 CR₄₈, 3, 1, 0; 2000 CN₄₉, 3, 1, 0; 2000 CX₅₂, 3, 1, 0; 2000 CP₅₃, 3, 1, 0; 2000 CZ₅₅, 3, 1, 0; 2000 CA₅₈, 3, 1, 0; 2000 CM₅₉, 3, 1, 0; 2000 CG₆₃, 3, 1, 0; 2000 CS₆₃, 3, 1, 0; 2000 CA₆₄, 3, 1, 0; 2000 CL₆₅, 3, 1, 0; 2000 CQ₆₅, 3, 1, 0; 2000 CO₇₀, 3, 1, 0; 2000 CM₇₁, 3, 1, 0; 2000 CO₇₁, 3, 1, 0; 2000 CM₇₂, 3, 1, 0; 2000 CN₇₂, 3, 1, 0; 2000 CF₇₇, 3, 1, 0; 2000 CV₇₉, 6, 2, 2; 2000 CN₈₁, 3, 1, 0; 2000 CJ₈₂, 3, 1, 0; 2000 CM₈₂, 6, 2, 5; 2000 CN₈₂, 3, 1, 0; 2000 CP₈₂, 3, 1, 0; 2000 CR₈₂, 3, 1, 0; 2000 CT₈₂, 3, 1, 0; 2000 CB₈₃, 3, 1, 0; 2000 CF₈₃, 3, 1, 0; 2000 CK₈₃, 3, 1, 0; 2000 CN₈₃, 3, 1, 0; 2000 CR₈₃, 3, 1, 0; 2000 CS₈₃, 3, 1, 0; 2000 CX₈₃, 3, 1, 0; 2000 CB₈₄, 3, 1, 0; 2000 CD₈₄, 3, 1, 0; 2000 CF₈₄, 3,

1, 0; 2000 CN₈₄, 3, 1, 0; 2000 CH₈₅, 3, 1, 0; 2000 CR₈₅, 3, 1, 0; 2000 CO₈₇, 3, 1, 0; 2000 CN₈₉, 3, 1, 0; 2000 CJ₉₁, 6, 2, 2; 2000 CU₉₁, 6, 2, 5; 2000 CX₉₁, 3, 1, 0; 2000 CA₉₂, 3, 1, 0; 2000 CB₉₂, 6, 2, 5; 2000 CC₉₂, 3, 1, 0; 2000 CD₉₂, 3, 1, 0; 2000 CU₉₂, 3, 1, 0; 2000 CU₉₃, 3, 1, 0; 2000 CB₉₄, 3, 1, 0; 2000 CC₉₄, 3, 1, 0; 2000 CD₉₄, 3, 1, 0; 2000 CP₉₄, 3, 1, 0; 2000 CR₉₄, 3, 1, 0; 2000 CZ₉₄, 3, 1, 0; 2000 CK₉₇, 3, 1, 0; 2000 CN₉₇, 3, 1, 0; 2000 CR₉₇, 6, 2, 5; 2000 CU₁₀₂, 3, 1, 0; 2000 CG₁₀₃, 3, 1, 0; 2000 CF₁₀₄, 3, 1, 0; 2000 DP, 3, 1, 0; 2000 DV, 3, 1, 0; 2000 DJ₁, 3, 1, 0; 2000 DK₂, 3, 1, 0; 2000 DM₂, 3, 1, 0; 2000 DB₃, 3, 1, 0; 2000 DM₃, 3, 1, 0; 2000 DQ₃, 3, 1, 0; 2000 DR₅, 3, 1, 0; 2000 DF₆, 3, 1, 0; 2000 DF₁₅, 3, 1, 0; 2000 DG₁₅, 3, 1, 0; 2000 DT₁₅, 3, 1, 0; 2000 DV₁₅, 3, 1, 0; 2000 DX₁₅, 3, 1, 0; 2000 DY₁₅, 3, 1, 0; 2000 DG₁₆, 2, 1, 0; 2000 DZ₁₆, 3, 1, 0; 2000 DF₁₇, 6, 2, 2; 2000 DQ₁₇, 3, 1, 0; 2000 DL₁₉, 3, 1, 0; 2000 DY₂₆, 3, 1, 0; 2000 DK₂₇, 3, 1, 0; 2000 DY₂₇, 3, 1, 0; 2000 DK₂₉, 3, 1, 0; 2000 DP₃₄, 3, 1, 0; 2000 DH₃₅, 3, 1, 0; 2000 DO₅₁, 3, 1, 0; 2000 DV₅₃, 3, 1, 0; 2000 DW₅₃, 3, 1, 0; 2000 DM₅₅, 6, 2, 2; 2000 DU₆₁, 3, 1, 0; 2000 DC₆₂, 3, 1, 0; 2000 DH₆₂, 3, 1, 0; 2000 DK₆₂, 3, 1, 0; 2000 DL₆₂, 3, 1, 0; 2000 DQ₆₃, 3, 1, 0; 2000 DT₆₃, 3, 1, 0; 2000 DV₆₃, 3, 1, 0; 2000 DW₆₃, 3, 1, 0; 2000 DX₆₃, 3, 1, 0; 2000 DZ₆₃, 3, 1, 0; 2000 DL₆₄, 6, 2, 5; 2000 DN₆₄, 3, 1, 0; 2000 DO₆₄, 3, 1, 0; 2000 DW₆₄, 6, 2, 5; 2000 DN₆₆, 6, 2, 2; 2000 DC₆₈, 3, 1, 0; 2000 DD₆₈, 3, 1, 0; 2000 DF₇₁, 3, 1, 0; 2000 DT₇₂, 3, 1, 0; 2000 DO₇₃, 3, 1, 0; 2000 DS₇₃, 3, 1, 0; 2000 DX₇₃, 3, 1, 0; 2000 DY₇₃, 3, 1, 0; 2000 DK₇₄, 3, 1, 0; 2000 DL₇₄, 3, 1, 0; 2000 DR₇₄, 3, 1, 0; 2000 DV₇₄, 3, 1, 0; 2000 DY₇₄, 3, 1, 0; 2000 DD₇₅, 3, 1, 0; 2000 DL₇₈, 3, 1, 0; 2000 DW₇₈, 3, 1, 0; 2000 DW₇₉, 3, 1, 0; 2000 DZ₇₉, 3, 1, 0; 2000 DG₈₀, 3, 1, 0; 2000 DH₈₀, 3, 1, 0; 2000 DO₈₀, 3, 1, 0; 2000 DD₈₁, 3, 1, 0; 2000 DH₈₁, 3, 1, 0; 2000 DV₈₁, 3, 1, 0; 2000 DW₈₁, 3, 1, 0; 2000 DG₈₃, 3, 1, 0; 2000 DW₈₅, 3, 1, 0; 2000 DD₈₆, 3, 1, 0; 2000 DJ₈₆, 3, 1, 0; 2000 DL₈₆, 3, 1, 0; 2000 DQ₈₇, 3, 1, 0; 2000 DH₈₈, 3, 1, 0; 2000 DC₉₄, 3, 1, 0; 2000 DQ₉₄, 3, 1, 0; 2000 DO₉₄, 3, 1, 0; 2000 DU₉₄, 3, 1, 0; 2000 DX₉₄, 3, 1, 0; 2000 DO₉₅, 3, 1, 0; 2000 DP₉₅, 3, 1, 0; 2000 DZ₉₅, 3, 1, 0; 2000 DH₉₆, 3, 1, 0; 2000 DJ₉₆, 3, 1, 0; 2000 DO₉₆, 3, 1, 0; 2000 DU₉₆, 3, 1, 0; 2000 DG₉₇, 3, 1, 0; 2000 DA₉₉, 3, 1, 0; 2000 DT₁₀₀, 3, 1, 0; 2000 DV₁₀₀, 3, 1, 0; 2000 DY₁₀₀, 3, 1, 0; 2000 DB₁₀₁, 3, 1, 0; 2000 DP₁₀₁, 3, 1, 0; 2000 DH₁₀₂, 3, 1, 0; 2000 DH₁₀₂, 3, 1, 0; 2000 DE₁₀₄, 3, 1, 0; 2000 DF₁₀₄, 3, 1, 0; 2000 DG₁₀₄, 3, 1, 0; 2000 DX₁₀₄, 2, 1, 0; 2000 DA₁₀₅, 3, 1, 0; 2000 DJ₁₀₅, 3, 1, 0; 2000 DK₁₀₅, 3, 1, 0; 2000 DH₁₀₇, 3, 1, 0; 2000 DZ₁₀₈, 3, 1, 0; 2000 EG, 3, 1, 0; 2000 EL, 3, 1, 0; 2000 ER, 3, 1, 0; 2000 ET₂, 3, 1, 0; 2000 EK₁₀, 3, 1, 0; 2000 EP₁₀, 3, 1, 0; 2000 EE₁₁, 3, 1, 0; 2000 EF₁₄, 3, 1, 0; 2000 EM₁₄, 3, 1, 0; 2000 EX₁₄, 3, 1, 0; 2000 EX₁₆, 3, 1, 0; 2000 EA₁₇, 3, 1, 0; 2000 EC₁₇, 3, 1, 0; 2000 ED₁₇, 3, 1, 0; 2000 EH₁₇, 3, 1, 0; 2000 EP₁₇, 3, 1, 0; 2000 EN₁₉, 3, 1, 0; 2000 ET₂₀, 3, 1, 0; 2000 EY₂₀, 3, 1, 0; 2000 ET₂₁, 3, 1, 0; 2000 EX₂₁, 3, 1, 0; 2000 EY₂₃, 3, 1, 0; 2000 EN₂₆, 3, 1, 0; 2000 EV₂₆, 3, 1, 0; 2000 EG₃₀, 3, 1, 0; 2000 EB₃₄, 3, 1, 0; 2000 EB₃₅, 3, 1, 0; 2000 EV₃₆, 3, 1, 0; 2000 EU₃₇, 3, 1, 0; 2000 EY₃₈, 3, 1, 0; 2000 EZ₃₈, 3, 1, 0; 2000 EL₃₉, 3, 1, 0; 2000 EP₃₉, 3, 1, 0; 2000 ER₃₉, 3, 1, 0; 2000 EW₅₀, 3, 1, 0; 2000 EW₅₀, 3, 1, 0; 2000 EG₅₆, 3, 1, 0; 2000 EK₅₆, 3, 1, 0; 2000 EL₅₆, 3, 1, 0; 2000 EM₅₆, 3, 1, 0; 2000 EY₅₆, 3, 1, 0; 2000 EL₅₇, 3, 1, 0; 2000 EN₅₇, 3, 1, 0; 2000 EV₅₇, 3, 1, 0; 2000 EE₆₆, 3, 1, 0; 2000 EM₆₆, 3, 1, 0; 2000 EO₆₆, 3, 1, 0; 2000 ES₇₀ *, 12, 4, 8; 2000 EY₇₀, 3, 1, 0; 2000 EG₇₅, 3, 1, 0; 2000 ET₈₃, 3, 1, 0; 2000 EK₈₅, 3, 1, 0; 2000 EV₈₆, 3, 1, 0; 2000 EP₈₇, 3, 1, 0; 2000 EL₈₈, 3, 1, 0; 2000 EP₉₀, 3, 1, 0; 2000 EV₉₂, 3, 1, 0; 2000 EV₉₇, 3, 1, 0; 2007 P-L, 6, 2, 5; 2589 P-L, 3, 1, 0; 4201 P-L, 3, 1, 0; 6871 P-L, 3, 1, 0; 1238 T-1, 3, 1, 0; 4195 T-1, 3, 1, 0; 2148 T-2, 3, 1, 0; 3072 T-2, 3, 1, 0; 3162 T-2, 3, 1, 0; 2288 T-3, 3, 1, 0; 3437 T-3, 3, 1, 0; 4336 T-3, 3, 1

2000 MAR. 20

M.P.C. 38977

1, 0; (4850), 3, 1, 0; (4942), 3, 1, 0; (4949), 3, 1, 0; (4994), 3, 1, 0; (4995), 3, 1, 0; (5016), 3, 1, 0; (5030), 3, 1, 0; (5055), 3, 1, 0; (5064), 3, 1, 0; (5215), 3, 1, 0; (5450), 3, 1, 0; (5462), 3, 1, 0; (5510), 3, 1, 0; (5512), 3, 1, 0; (5529), 3, 1, 0; (5543), 3, 1, 0; (5641), 3, 1, 0; (5756), 3, 1, 0; (5806), 3, 1, 0; (5808), 6, 2, 5; (5816), 3, 1, 0; (5920), 3, 1, 0; (6016), 3, 1, 0; (6066), 3, 1, 0; (6074), 3, 1, 0; (6095), 3, 1, 0; (6096), 3, 1, 0; (6155), 3, 1, 0; (6233), 3, 1, 0; (6275), 3, 1, 0; (6299), 3, 1, 0; (6351), 3, 1, 0; (6365), 3, 1, 0; (6390), 3, 1, 0; (6435), 3, 1, 0; (6479), 3, 1, 0; (6506), 3, 1, 0; (6594), 3, 1, 0; (6600), 3, 1, 0; (6707), 3, 1, 0; (6874), 3, 1, 0; (6893), 3, 1, 0; (6895), 3, 1, 0; (6904), 3, 1, 0; (6972), 3, 1, 0; (6979), 3, 1, 0; (6982), 3, 1, 0; (7008), 3, 1, 0; (7176), 3, 1, 0; (7324), 3, 1, 0; (7421), 3, 1, 0; (7560), 3, 1, 0; (7571), 3, 1, 0; (7579), 3, 1, 0; (7643), 3, 1, 0; (7715), 3, 1, 0; (7747), 3, 1, 0; (7752), 3, 1, 0; (7760), 3, 1, 0; (7805), 3, 1, 0; (7817), 3, 1, 0; (7827), 3, 1, 0; (7848), 3, 1, 0; (7856), 3, 1, 0; (7880), 3, 1, 0; (7919), 3, 1, 0; (7972), 3, 1, 0; (8001), 3, 1, 0; (8027), 3, 1, 0; (8066), 3, 1, 0; (8074), 3, 1, 0; (8095), 3, 1, 0; (8104), 6, 2, 5; (9152), 3, 1, 0; (9177), 3, 1, 0; (9197), 3, 1, 0; (9200), 3, 1, 0; (9279), 3, 1, 0; (9281), 3, 1, 0; (9296), 3, 1, 0; (9302), 3, 1, 0; (9407), 3, 1, 0; (9422), 3, 1, 0; (9481), 3, 1, 0; (9492), 3, 1, 0; (9523), 3, 1, 0; (9525), 3, 1, 0; (9532), 3, 1, 0; (9546), 3, 1, 0; (9579), 3, 1, 0; (9581), 3, 1, 0; (9597), 3, 1, 0; (9598), 6, 2, 5; (9602), 3, 1, 0; (9616), 3, 1, 0; (9631), 3, 1, 0; (9669), 3, 1, 0; (9720), 9, 2, 2; (9725), 3, 1, 0; (9738), 3, 1, 0; (9751), 3, 1, 0; (9753), 3, 1, 0; (9756), 3, 1, 0; (9758), 3, 1, 0; (9763), 3, 1, 0; (9822), 3, 1, 0; (9827), 6, 2, 5; (9834), 3, 1, 0; (9840), 3, 1, 0; (9853), 3, 1, 0; (9855), 3, 1, 0; (9864), 3, 1, 0; (9890), 3, 1, 0; (9917), 3, 1, 0; (9936), 3, 1, 0; (9952), 3, 1, 0; (9955), 3, 1, 0; (9991), 3, 1, 0; (9996), 3, 1, 0; (10007), 3, 1, 0; (10030), 3, 1, 0; (10036), 3, 1, 0; (10053), 3, 1, 0; (10068), 3, 1, 0; (10080), 3, 1, 0; (10086), 9, 2, 2; (10116), 3, 1, 0; (10141), 3, 1, 0; (10179), 3, 1, 0; (11619), 3, 1, 0; (12669), 3, 1, 0; (12698), 3, 1, 0; (12740), 3, 1, 0; (12767), 3, 1, 0; (12781), 3, 1, 0; (12812), 3, 1, 0; (12999), 3, 1, 0; (13010), 3, 1, 0; (13012), 3, 1, 0; (13018), 3, 1, 0; (13022), 3, 1, 0; (13037), 3, 1, 0; (13038), 3, 1, 0; (13047), 3, 1, 0; (13049), 3, 1, 0; (13054), 3, 1, 0; (13069), 3, 1, 0; (13098), 3, 1, 0; (13124), 3, 1, 0; (13143), 3, 1, 0; (13171), 3, 1, 0; (13207), 3, 1, 0; (13222), 3, 1, 0; (13225), 3, 1, 0; (13303), 3, 1, 0; (13316), 3, 1, 0; (13320), 3, 1, 0; (13341), 3, 1, 0; (13343), 3, 1, 0; (13354), 3, 1, 0; (13376), 3, 1, 0; (13388), 3, 1, 0; (13453), 3, 1, 0; (13501), 6, 2, 5; (13507), 3, 1, 0; (13532), 3, 1, 0; (13536), 3, 1, 0; (13543), 3, 1, 0; (13544), 3, 1, 0; (13551), 3, 1, 0; (13565), 3, 1, 0; (13572), 3, 1, 0; (13573), 3, 1, 0; (13588), 3, 1, 0; (13608), 3, 1, 0; (13615), 3, 1, 0; (13622), 3, 1, 0; (13626), 3, 1, 0; (13631), 3, 1, 0; (13632), 6, 2, 5; (13640), 3, 1, 0; (13678), 3, 1, 0; (13680), 3, 1, 0; (13699), 3, 1, 0; (13710), 3, 1, 0; (13712), 3, 1, 0; (13714), 6, 2, 5; (13727), 3, 1, 0; (13729), 3, 1, 0; (13762), 3, 1, 0; (13785), 3, 1, 0; (13807), 3, 1, 0; (13811), 6, 2, 5; (13815), 3, 1, 0; (13840), 3, 1, 0; (13874), 3, 1, 0; (13886), 3, 1, 0; [2893, 914, 1*, 1996/01/08–2000/03/14]

609 Osservatorio Polino

G. Iatterì, Via Val Serra 45h, Terni, Italy

Observers G. Iatterì, V. Scirri, G. Bernabei

0.40-m $f/2.9$ reflector + CCD

GSC

2000 CV₁₈, 8, 3, 4; 2000 DD₁ *, 4, 2, 1; [12, 2, 1*, 2000/02/23–2000/02/27]

610 Pianoro

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

[astrofil@astboi.bo.cnr.it]

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

GSC, USNO-A2.0

1991 DB, 20, 4, 8; 1994 GB₁, 5, 1, 0; 1994 QC, 10, 2, 3; 1999 GJ₄, 35, 7, 25; 1999 NC₄₃, 14, 3, 6; 1999 RH₂₇, 15, 3, 13; 1999 VM₄₀, 55, 11, 29; 2000 BY₃, 10, 2, 9; 2000 BG₁₉, 20, 4, 10; 2000 BH₁₉, 24, 5, 23; 2000 CF₅₉, 5, 1, 0; 2000 DO₁, 15, 3, 4; 2000 DH₈, 6, 1, 0; 2000 DM₈, 20, 4, 6; (866), 5, 1, 0; (1036), 26, 5, 25; (1393), 5, 1, 0; (1627), 25, 5, 17; (1679), 5, 1, 0; (1685), 25, 5, 25; (2443), 5, 1, 0; (3800), 30, 6, 17; (4103), 5, 1, 0; (5066), 15, 3, 13; (11066), 20, 4, 8; (12711), 14, 3, 13; [434, 26, 0*, 2000/02/10–2000/03/10]

611 Starkenburg Sternwarte, Heppenheim

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

Observers M. Busch, R. Kresken, S. Kluegl, A. Seib, R. Stoss, F. Mueller,

F. Hormuth, L. Kurtze

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

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

USNO-SA2.0, GSC-ACT

1989 BH, 2, 1, 0; 1991 UK₁, 3, 1, 0; 1998 SY₆₃, 2, 1, 0; 1998 XE₁₇, 3, 1, 0; 1999 NC₄₃, 4, 1, 0; 1999 RH₂₇, 4, 1, 0; 1999 VM₄₀, 2, 1, 0; 2000 AN₉₇, 2, 1, 0; 2000 AR₉₇, 2, 1, 0; 2000 BH₁₉, 3, 1, 0; 2000 DL₁, 8, 2, 1; 2000 DM₁, 2, 1, 0; 2000 DN₁, 3, 1, 0; 2000 DO₁, 3, 1, 0; 2000 DF₈, 3,

1, 0; 2000 DH₈, 5, 1, 0; 2000 DK₈, 5, 1, 0; 2000 DY₁₅, 2, 1, 0; 2000 DP₁₀₇, 3, 1, 0; 2000 EB₁₄, 4, 1, 0; 2000 ED₁₄, 4, 1, 0; 2000 EE₁₄, 5, 1, 0; 2000 EL₂₆, 1, 1, 0; (7126), 3, 1, 0; [78, 24, 0*, 2000/02/20–2000/03/07]

620 Observatorio Astronómico de Mallorca

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

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

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

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

GSC

1996 QT₁, 13, 3, 10; 1997 PU₄, 6, 2, 15; 2000 AU₄₉, 4, 1, 0; 2000 CQ₆₃, 7, 2, 7; 2000 CD₉₂, 5, 1, 0; 2000 CH₁₀₃, 6, 2, 6; 2000 DO₁, 7, 2, 7; 2000 DZ₆₄, 5, 1, 0; 2000 DA₆₅, 5, 1, 0; 2000 DH₁₁₀ *, 10, 3, 10; 2000 EW₅₀ *, 6, 2, 1; 2000 ES₇₀, 3, 1, 0; 2000 ET₇₀, 4, 1, 0; 2000 EU₇₀, 4, 1, 0; 2000 EV₇₀, 4, 1, 0; 2000 EW₇₀, 4, 1, 0; 3152 T-3, 5, 1, 0; (2498), 6, 1, 0; (5688), 4, 1, 0; (6904), 7, 1, 0; [115, 20, 2*, 2000/02/24–2000/03/11]

621 Bergisch Gladbach

W. Bickel, Schau ins Land 21, D-51429 Bergisch Gladbach, Germany [0220455671–

0001@t-online.de]

0.60-m $f/5$ reflector + CCD

USNO-A2.0

1995 YS₂₅, 10, 3, 15; 1997 LT₄, 3, 1, 0; 1997 UO₂₄, 10, 3, 15; 1998 QL₆₃, 3, 1, 0; 1998 RD₆₅, 4, 1, 0; 1998 SM₃₄, 2, 1, 0; 1998 SK₄₅, 6, 1, 0; 1999 XB₁₀₁, 3, 1, 0; 1999 XL₁₆₄, 9, 2, 1; 2000 AP₈₄, 3, 1, 0; 2000 AX₁₀₉, 4, 1, 0; 2000 AO₁₁₆, 4, 1, 0; 2000 CY₁₀₁ *, 13, 3, 15; (2139), 7, 2, 15; (2471), 6, 2, 1; [87, 15, 1*, 1998/12/17–2000/02/27]

627 Blauvac

R. Roy, Le Badassier St Esteve, F-84570 Blauvac, France [Rene.Roy@wanadoo.fr]

0.26-m $f/4.7$ reflector + CCD

USNO-SA1.0, GSC

2000 DO₁, 11, 2, 1; (4719), 3, 1, 0; (5153), 3, 1, 0; (6325), 3, 1, 0; (6823), 3, 1, 0; (7792), 3, 1, 0; (13497), 3, 1, 0; [29, 7, 0*, 2000/02/25–2000/03/05]

628 Mülheim-Ruhr

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

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

Observers A. Boeker, A. Martin

0.2-m Schmidt-Cassegrain + CCD

USNO-A2.0

1989 BH, 4, 1, 0; 1998 SU₆₇, 4, 1, 0; 1998 SK₁₁₅, 6, 2, 1; 1998 XW₃, 5, 1, 0; 2000 AG₁₃₃, 4, 1, 0; 2000 BX₃, 4, 1, 0; (3713), 4, 1, 0; (4075), 4, 1, 0; (4155), 4, 1, 0; (5153), 4, 1, 0; [43, 10, 0*, 2000/02/25–2000/02/27]

636 Essen

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

Observers A. Knöfel, T. Payer

Measurer A. Knöfel

0.318-m $f/5.7$ reflector + CCD

USNO-A2.0

1993 LF, 2, 1, 0; 1996 VS₁, 6, 2, 2; 1998 SK₁₆₄, 3, 1, 0; 2000 AD₉₇, 3, 1, 0; 2000 DL₁, 5, 2, 2; 2000 DD₇, 2, 1, 0; [21, 6, 0*, 2000/02/10–2000/03/15]

639 Dresden

S. Gebhard, Duckwitzstrasse 27d, D-01129 Dresden, Germany [Gebhard@t–

online.de]

0.35-m $f/7.3$ reflector + CCD

USNO-A2.0

2000 DL₁, 2, 1, 0; [2, 1, 0*, 2000/02/27]

642 Oak Bay, Victoria

C. E. Spratt, 1431 St. Patrick Street, Victoria, BC V8S 4Y5, Canada
[cspratt@islandnet.com]

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

GSC

2000 DL₁, 10, 3, 8; [10, 1, 0*, 2000/02/28–2000/03/07]

649 Powell Observatory, Louisburg

L. Robinson, 14680 W 144 St., Olathe, KS 66062, U.S.A.
[lrobinson@ix.netcom.com]

Observers K. Smalley, J. Alburty, R. Alonzi, G. Pittman, T. Martinez, R. Fredrick,
D. Young

Measurers K. Smalley, J. Alburty, R. Frederick, M. Kirk, R. Alonzi

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1

1978 RH₉, 3, 1, 0; 1993 FX₁₆, 4, 1, 0; 1995 YG₃, 3, 1, 0; 2000 AD₉₇, 3, 1, 0; 2000 CT₅₇, 3, 1, 0;
2000 CY₈₀, 3, 1, 0; 2000 CH₉₇, 4, 1, 0; 2000 CU₁₀₁, 3, 1, 0; 2000 DM₇₁, 3, 1, 0; 2000 DC₇₈, 3, 1, 0;
2000 DQ₁₁₀, 2, 1, 0; 2000 EE₁₄, 6, 1, 0; 2000 ET₇₀, 5, 1, 0; 3437 T-3, 4, 1, 0; (571), 2, 1, 0; (1462),
3, 1, 0; (1497), 3, 1, 0; (13217), 2, 1, 0; (13532), 4, 1, 0; [63, 19, 0*, 2000/02/26–2000/03/12]

651 Grasslands Observatory, Tucson

J. E. McGaha, 5100 Sabino Foothills, Tucson, AZ 85750, U.S.A.
[jmcgaha@azstarnet.com]

0.62-m $f/5.1$ Newtonian + CCD

GSC-1.1

2000 AU₄₉, 3, 1, 0; 2000 AN₈₁, 3, 1, 0; 2000 CT₁₀₁, 6, 2, 11; 2000 CQ₁₀₂, 3, 1, 0; 2000 DL₁, 3,
1, 0; 2000 DM₁, 3, 1, 0; 2000 DN₁, 6, 2, 1; 2000 DF₈, 3, 1, 0; 2000 DG₈, 3, 1, 0; 2000 DH₈, 3, 1,
0; 2000 DJ₈, 2, 1, 0; 2000 DK₈, 3, 1, 0; 2000 DL₈, 3, 1, 0; 2000 DM₈, 3, 1, 0; 2000 DN₈, 3, 1, 0;
2000 DO₈, 3, 1, 0; 2000 DP₁₀₇, 3, 1, 0; 2000 DQ₁₁₀, 3, 1, 0; 2000 ED₁₀₄, 3, 1, 0; 2000 EE₁₀₄, 2,
1, 0; 2000 EG₁₀₄, 3, 1, 0; 2000 EH₁₀₄, 3, 1, 0; [70, 22, 0*, 1999/12/18–2000/03/15]

652 Sandringham, Calgary

B. Yeung, 139 Sandringham Place NW, Calgary, Alberta T3K 3V8, Canada
[cyber_bill@sprynet.com]

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

1998 SL₄, 2, 1, 0; 1999 YQ₄, 2, 1, 0; 2000 BZ₃, 2, 1, 0; 2000 BA₄, 4, 2, 1; 2000 BY₁₃, 2, 1, 0;
2000 CU₂, 4, 2, 1; 2000 CG₈₂, 4, 2, 1; 2000 CU₉₀, 5, 2, 1; 2000 DE₁ *, 5, 2, 1; 2000 DF₁ *, 7, 3,
6; 2000 DG₁ *, 4, 2, 1; 2000 DH₁ *, 6, 2, 1; 2000 DO₁, 3, 1, 0; 2000 DQ₈ *, 2, 1, 0; 2000 DR₈ *,
3, 1, 0; [55, 15, 6*, 2000/02/26–2000/03/03]

658 Dominion Astrophysical Observatory, Victoria

D. D. Balam, Dept. of Physics, University of Victoria, P.O. Box 3055, Victoria, BC
V8W 3P6, Canada [balam@beluga.phys.uvic.ca]

Observers D. D. Balam, P. Somers

1.82-m Plaskett telescope + CCD

USNO-A2.0

2000 DO₁, 3, 1, 0; 2000 DF₈, 3, 1, 0; 2000 DG₈, 3, 1, 0; 2000 DL₈, 3, 1, 0; 2000 DM₈, 3, 1, 0;
[15, 5, 0*, 2000/02/28]

670 Camarillo

J. E. Rogers, 441 Rowland Avenue, Camarillo, CA 93010, U.S.A.
[johnrogers@csi.com]

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

GSC-1.1

1991 DB, 2, 1, 0; 1999 NC₄₃, 5, 2, 5; 1999 VM₄₀, 2, 1, 0; 2000 BG₁₉, 6, 3, 12; 2000 BH₁₉, 6, 2, 10;
2000 CO₁₀₁, 3, 2, 10; 2000 DM₁, 6, 3, 12; 2000 DO₁, 5, 2, 9; 2000 DF₈, 2, 1, 0; 2000 DH₈, 4, 2,
10; 2000 DK₈, 2, 1, 0; 2000 DM₈, 5, 2, 10; 2000 DO₈, 3, 1, 0; 2000 DQ₁₁₀, 4, 2, 9; 2000 ED₁₄, 4,
1, 0; 2000 EE₁₄, 4, 2, 1; 2000 ES₇₀, 10, 4, 7; 2000 ET₇₀, 6, 2, 3; 2000 EV₇₀, 7, 3, 7; 2000 EW₇₀,
10, 4, 8; 2000 EE₁₀₄, 5, 2, 6; (1685), 2, 1, 0; [103, 22, 0*, 2000/03/02–2000/03/19]

675 Palomar

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

E. F. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.
[efh@alps.jpl.nasa.gov] (2)

C. S. Shoemaker, P.O. Box 984, Flagstaff, AZ 86002, U.S.A.
[cshoemaker@flagmail.wr.usgs.gov] (3)

C. J. van Houten, Sterrewacht Leiden, Postbus 9513, NL-2300 RA Leiden, The
Netherlands [vanhouten@rnhl1.leidenuniv.nl] (4)

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

E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001,
U.S.A. [elgb@lowell.edu] (6)

9 = 6 + 3

Observers T. Gehrels (4, L), E. F. Helin (2, S), K. Lawrence (2, S),

C. S. Shoemaker (3, S), E. M. Shoemaker (3, S)

Measurers A. Boattini (1), G. Forti (1), M. Tombelli (1), L. Tesi (1),

A. Gnädig (5), K. Lawrence (2), B. A. Skiff (6), C. J. van Houten (4), I. van
Houten-Groeneveld (4), A. Wisse (4), R. Stoss (5), A. Knöfel (5)

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

{1} 1998 QH₂, 2, 1, 0; 1999 WC₂, 2, 1, 0; 2000 AW₂, 2, 1, 0; [6, 3, 0*, 1986/10/09–1996/06/23]

{2} 1998 VD₃₆, 2, 1, 0; [2, 1, 0*, 1994/08/11]

{3} 1997 VM₆, 2, 1, 0; [2, 1, 0*, 1992/09/30]

{4} 2046 P-L *, 8, 8, 32; 2092 P-L *, 6, 6, 30; 2107 P-L *, 6, 6, 32; 2137 P-L *, 6, 3, 4; 2781 P-L *,
6, 6, 30; 3031 P-L *, 8, 4, 4; 3038 P-L *, 16, 7, 23; 3048 P-L *, 14, 6, 5; 3064 P-L *, 4, 4, 4;
3075 P-L *, 13, 8, 28; 3103 P-L *, 3, 3, 5; 3118 P-L *, 5, 3, 4; 3515 P-L *, 6, 3, 8; 3552 P-L *,
3, 3, 4; 4051 P-L *, 9, 8, 32; 4180 P-L *, 12, 8, 32; 4225 P-L *, 5, 5, 23; 4239 P-L *, 4, 4, 4;
5567 P-L *, 4, 4, 9; 6061 P-L *, 8, 8, 32; 6069 P-L *, 8, 8, 32; 6126 P-L *, 8, 8, 32; 6290 P-L *,
8, 4, 4; 6386 P-L *, 3, 3, 2; 6595 P-L *, 8, 8, 32; 6616 P-L *, 7, 32; 6671 P-L *, 4, 4, 4;
6694 P-L *, 8, 4, 4; 6756 P-L *, 8, 4, 4; 6796 P-L *, 6, 3, 4; 6804 P-L *, 4, 4, 4; 7572 P-L *, 5, 5,
29; 9514 P-L *, 3, 3, 4; 9520 P-L *, 3, 3, 9; 9531 P-L *, 4, 4, 9; 1125 T-1 *, 6, 5, 9; 1132 T-1 *,
10, 8, 51; 1150 T-1 *, 10, 8, 51; 1193 T-1 *, 6, 5, 9; 1267 T-1 *, 3, 3, 7; 1273 T-1 *, 4, 3, 8;
2059 T-1 *, 5, 4, 3; 2248 T-1 *, 6, 5, 9; 2253 T-1 *, 5, 4, 8; 3268 T-1 *, 10, 8, 51; 4047 T-1 *, 6,
4, 9; 4288 T-1 *, 5, 4, 9; 4311 T-1 *, 5, 4, 9; 4644 T-1 *, 3, 3, 3; 4845 T-1 *, 5, 4, 30; 1062 T-2 *,
15, 8, 16; 1184 T-2 *, 22, 8, 16; 1189 T-2 *, 15, 8, 16; 1504 T-2 *, 10, 4, 11; 2052 T-2 *, 15,
8, 16; 2130 T-2 *, 28, 8, 16; 2188 T-2 *, 12, 6, 11; 2233 T-2 *, 26, 8, 16; 2282 T-2 *, 13, 7, 15;
2325 T-2 *, 16, 7, 16; 3096 T-2 *, 13, 7, 16; 3224 T-2 *, 21, 8, 16; 3354 T-2 *, 7, 4, 6; 4028 T-2 *,
19, 8, 16; 4071 T-2 *, 15, 8, 16; 5158 T-2 *, 14, 7, 15; 1089 T-3 *, 11, 6, 15; 1091 T-3 *, 10, 5, 11;
1093 T-3 *, 11, 6, 15; 1123 T-3 *, 20, 6, 14; 1124 T-3 *, 13, 6, 15; 1156 T-3 *, 6, 3, 6; 1173 T-3 *,
11, 6, 15; 1183 T-3 *, 17, 7, 15; 1206 T-3 *, 12, 4, 6; 1213 T-3 *, 6, 3, 6; 1233 T-3 *, 6, 3, 6;
2014 T-3 *, 17, 7, 15; 2190 T-3 *, 12, 7, 15; 2238 T-3 *, 13, 7, 15; 2271 T-3 *, 19, 7, 15; 2324 T-3 *,
13, 7, 15; 2383 T-3 *, 13, 7, 15; 3049 T-3 *, 8, 4, 6; 3172 T-3 *, 8, 4, 6; 3245 T-3 *, 25, 7, 15;
3256 T-3 *, 13, 7, 15; 3447 T-3 *, 13, 7, 15; 3491 T-3 *, 8, 4, 6; 3530 T-3 *, 9, 5, 14; 4043 T-3 *,
10, 5, 10; 4215 T-3 *, 18, 7, 15; 4276 T-3 *, 10, 5, 10; 5038 T-3 *, 12, 6, 11; 5089 T-3 *, 12, 6, 11;
5092 T-3 *, 11, 6, 11; 5131 T-3 *, 12, 6, 11; 5172 T-3 *, 10, 5, 10; 5739 T-3 *, 8, 4, 6; [980, 99,
99*, 1960/09/24–1977/10/22]

{5} 1979 MJ₄, 2, 1, 0; 1983 QK₁, 2, 1, 0; 1988 XA₃, 2, 1, 0; 1989 UC₆, 4, 2, 14286; 1990 RN₉, 4, 2,
1364; 1993 FS₄, 2, 1, 0; 1993 FK₂₀, 8, 4, 1794; 1993 VT₂, 6, 3, 13909; 1995 LV, 2, 1, 0; 1996 AN₂,
7, 4, 2675; 1996 FB₅, 9, 5, 3599; 1997 AF₇, 4, 2, 4; 1997 GB, 2, 1, 0; 1997 QY, 2, 1, 0; 1997 QC₁,
2, 1, 0; 1997 UK₇, 2, 1, 0; 1997 UG₁₅, 2, 1, 0; 1997 VM₆, 4, 2, 12471; 1997 XX₁, 7, 4, 2899;
1997 XY₃, 8, 6, 14796; 1997 XH₅, 5, 3, 14288; 1998 BJ₈, 2, 1, 0; 1998 CL, 2, 1, 0; 1998 FW₁₅, 2,
1, 0; 1998 FT₄₂, 3, 2, 3571; 1998 HH₄₃, 1, 1, 0; 1998 MG₁₆, 4, 2, 1572; 1998 OM₁₄, 4, 2, 1979;
1998 QL₁, 4, 2, 1393; 1998 QO₆, 4, 2, 1456; 1998 QC₂₀, 2, 1, 0; 1998 QE₂₉, 4, 2, 32; 1998 QM₄₀, 2,
1, 0; 1998 QF₄₅, 4, 2, 45; 1998 QU₄₆, 2, 1, 0; 1998 QF₅₄, 2, 1, 0; 1998 QJ₅₄, 4, 2, 56; 1998 QN₆₀,
6, 3, 12080; 1998 QT₆₂, 2, 1, 0; 1998 QE₈₆, 4, 2, 10; 1998 QF₉₁, 2, 1, 0; 1998 QZ₉₉, 4, 2, 130;
1998 RB, 4, 2, 1395; 1998 RM₃, 2, 1, 0; 1998 RC₁₆, 8, 4, 1472; 1998 RP₄₂, 6, 3, 13080; 1998 RN₆₁,
2, 1, 0; 1998 RC₆₈, 4, 2, 34; 1998 SO₂, 2, 1, 0; 1998 SA₁₃, 6, 3, 13801; 1998 SS₂₅, 8, 4, 1638;
1998 SU₂₅, 4, 2, 55; 1998 SA₂₆, 2, 1, 0; 1998 SL₄₃, 3, 2, 5; 1998 SX₇₁, 4, 2, 2983; 1998 SU₇₃, 3,

2000 MAR. 20

M.P.C. 38979

2, 562; 1998 SK₁₁₅, 2, 1, 0; 1998 SR₁₁₅, 4, 2, 87; 1998 SD₁₁₈, 4, 2, 920; 1998 SO₁₃₂, 3, 2, 57; 1998 SK₁₃₉, 2, 1, 0; 1998 SP₁₅₆, 2, 1, 0; 1998 TR₅, 10, 5, 3119; 1998 UA₁, 2, 1, 0; 1998 UK₇, 4, 2, 522; 1998 UW₁₅, 1, 1, 0; 1998 UN₁₈, 2, 1, 0; 1998 UQ₁₈, 6, 3, 526; 1998 UM₂₃, 1, 1, 0; 1998 UD₃₈, 2, 1, 0; 1998 VK, 2, 1, 0; 1998 VO₆, 2, 1, 0; 1998 VL₉, 6, 3, 16557; 1998 VY₃₄, 4, 2, 1004; 1998 VO₃₈, 4, 2, 14227; 1998 WG₁, 3, 2, 481; 1998 WF₄, 2, 1, 0; 1998 WY₁₇, 4, 2, 1548; 1998 WB₂₄, 2, 1, 0; 1998 XD, 2, 1, 0; 1998 YS₅, 2, 1, 0; 1998 YV₁₆, 4, 2, 13760; 1998 YM₂₂, 2, 1, 0; 1999 AN₂, 2, 1, 0; 1999 AV₄, 4, 2, 13038; 1999 AY₇, 4, 2, 14976; 1999 BY₁, 2, 1, 0; 1999 BY₂, 2, 1, 0; 1999 BR₆, 2, 1, 0; 1999 BP₇, 2, 1, 0; 1999 BK₈, 2, 1, 0; 1999 BF₁₂, 8, 4, 15682; 1999 BK₁₄, 4, 2, 880; 1999 BR₁₄, 2, 1, 0; 1999 CG₄, 8, 4, 12725; 1999 CQ₉, 2, 1, 0; 1999 CF₁₄, 2, 1, 0; 1999 CJ₁₄, 2, 1, 0; 1999 CM₁₆, 7, 3, 16412; 1999 CD₂₁, 2, 1, 0; 1999 CH₇₂, 4, 2, 13611; 1999 CY₇₂, 8, 4, 1427; 1999 CO₁₂₇, 2, 1, 0; 1999 DM₁, 2, 1, 0; 1999 DO₂, 4, 2, 4; 1999 DP₆, 2, 1, 0; 1999 DQ₆, 4, 2, 14235; 1999 DY₆, 2, 1, 0; 1999 FV₁₉, 2, 1, 0; 1999 FV₃₂, 10, 5, 16944; 1999 GA₅, 4, 2, 1560; 1999 GK₁₇, 6, 3, 1515; 1999 JD, 4, 2, 13133; 1999 JV₂, 6, 3, 2335; 1999 JA₁₂, 5, 2, 1061; 1999 JB₂₀, 5, 3, 1802; 1999 JQ₃₂, 1, 1, 0; 1999 JG₅₃, 7, 4, 4344; 1999 JS₅₅, 4, 2, 2381; 1999 JU₆₀, 2, 1, 0; 1999 JP₆₁, 4, 2, 3102; 1999 JK₇₆, 2, 1, 0; 1999 JN₇₈, 2, 1, 0; 1999 JK₈₀, 2, 1, 0; 1999 JO₈₀, 4, 2, 1473; 1999 MO, 3, 2, 4; 1999 NQ₅₉, 2, 1, 0; 1999 VJ₁₆, 7, 4, 1392; 1999 VY₇₇, 6, 3, 1450; 1999 VL₁₃₅, 2, 1, 0; 1999 XC₁₅, 4, 2, 3010; 1999 XJ₉₉, 2, 1, 0; 1999 XZ₁₀₀, 4, 2, 12408; 1999 XG₁₃₄, 4, 2, 1440; 1999 XG₁₃₅, 2, 1, 0; 1999 XG₁₄₄, 2, 1, 0; 1999 XO₁₅₇, 2, 1, 0; 1999 XM₁₆₉, 4, 2, 117; 1999 XM₁₇₂, 8, 4, 2280; 1999 XV₁₇₂, 4, 2, 966; 1999 XY₁₇₂, 2, 1, 0; 1999 XM₁₇₅, 4, 2, 15002; 2000 AZ₆₆, 5, 3, 474; 2000 AG₈₇, 2, 1, 0; 2000 AO₂₁₄, 2, 1, 0; 2000 BJ₁₉, 2, 1, 0; [520, 146, 0*, 1949/11/21-1998/04/23]

{9} 1988 SY₃, 2, 1, 0; 1988 SC₄, 2, 1, 0; 1989 YB₅, 2, 1, 0; 1994 VM₆, 2, 1, 0; 1998 RN₇₀, 1, 1, 0; 1999 JA₁₂, 2, 1, 0; 2000 AH₉₂, 2, 1, 0; 2000 AO₂₃₆, 2, 1, 0; 2000 CC₉₄, 2, 1, 0; 2000 DA₅, 1, 1, 0; [18, 10, 0*, 1988/09/10-1994/09/12]

682 Kanab

E. Sheridan, 7205 Sunflower Lane, Kanab, UT 84741, U.S.A.

[mened@xpressweb.com]

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

GSC

2000 CB₁₅, 3, 1, 0; [3, 1, 0*, 2000/01/28]

684 Prescott

P. G. Comba, 1411 Galaxy Lane, Prescott, AZ 86303, U.S.A.

[comba@northlink.com]

0.46-m $f/4.5$ reflector + CCD

GSC

1997 LA₅, 4, 2, 1; 1997 MR₁, 4, 2, 1; 1998 OF₄, 4, 2, 1; 1998 SM₄, 9, 4, 6; 1998 UP, 5, 2, 1; 1998 WK, 5, 2, 2; 1998 WG₂, 6, 3, 10; 1998 WK₄, 4, 2, 1; 1998 YK₁₀, 4, 2, 1; 2000 AA₉₆, 4, 2, 1; 2000 CH, 4, 2, 1; 2000 CJ, 4, 2, 1; 2000 CS, 4, 2, 1; 2000 CA₃₇, 6, 3, 6; 2000 CG₃₇, 6, 3, 5; 2000 CJ₃₉, 2, 1, 0; 2000 CE₅₄, 5, 2, 1; 2000 CJ₉₄, 2, 1, 0; 2000 CU₁₀₂, 4, 2, 1; 2000 DJ₁ *, 8, 3, 5; 2000 DK₁ *, 4, 2, 1; 2000 DQ₃ *, 6, 3, 5; 2000 DS₈ *, 4, 2, 2; 2000 DT₈ *, 4, 2, 2; 2000 DZ₂₅, 2, 1, 0; 2000 DN₆₄, 4, 2, 1; 2000 EG *, 4, 2, 1; 2000 EK *, 4, 2, 1; 2000 EL *, 4, 2, 1; 2000 EM *, 4, 2, 1; 2000 EN *, 4, 2, 1; 2000 EQ *, 4, 2, 1; 2000 ER *, 4, 2, 1; 2000 EV₉, 2, 1, 0; 2000 EJ₄₀, 2, 1, 0; 2000 EL₅₀ *, 7, 3, 2; 2000 EM₅₀ *, 4, 2, 1; 2000 EN₅₀ *, 4, 2, 1; 2000 EO₅₀ *, 4, 2, 1; 2000 EP₅₀ *, 8, 4, 3; 2000 EQ₅₀ *, 8, 4, 3; 2000 ER₅₀ *, 8, 4, 3; 2000 EM₅₅ *, 4, 2, 1; 2000 EN₅₅ *, 5, 2, 1; 2000 EO₅₅ *, 4, 2, 1; 2861 P-L, 5, 2, 3; (2516), 4, 2, 2; (3785), 4, 2, 1; (6351), 2, 1, 0; (7671), 4, 2, 1; (7747), 2, 1, 0; (9424), 2, 1, 0; (13136), 2, 1, 0; (13705), 2, 1, 0; [233, 54, 22*, 2000/02/03-2000/03/13]

688 Lowell Observatory, Anderson Mesa Station

L. H. Wasserman, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A. [lhw@lowell.edu]

Observer L. H. Wasserman

1.07-m reflector + CCD

USNO-A2.0

1979 QX₂, 2, 1, 0; 1985 RM₃, 2, 1, 0; 1991 RB₇, 2, 1, 0; 1993 FP₁₄, 2, 1, 0; 1993 FL₅₄, 2, 1, 0; 1993 RK, 2, 1, 0; 1995 VL₁₅, 2, 1, 0; 1995 WY₇, 2, 1, 0; 1996 BQ₁, 2, 1, 0; 1997 AV₁₈, 2, 1, 0; 1997 PE₃, 2, 1, 0; 1998 BU₄₈, 2, 1, 0; 1998 FY₄₁, 3, 1, 0; 1998 PZ, 2, 1, 0; 1998 QG₂₀, 2, 1, 0; 1998 QN₂₆, 2, 1, 0; 1998 QD₉₈, 2, 1, 0; 1998 RN₆, 2, 1, 0; 1998 RW₆₈, 2, 1, 0; 1998 SB₁₃, 2, 1, 0; 1998 SC₁₃₂, 2, 1, 0; 1998 SO₁₄₂, 2, 1, 0; 1998 XQ₉, 2, 1, 0; 1998 TD, 2, 1, 0; 1998 YA₃, 2, 1, 0; 1999 RT₃₅, 3, 1, 0; 2000 AU₃₃, 2, 1, 0; 2000 AA₃₅, 2, 1, 0; 2000 AN₉₆, 2, 1, 0; 2000 AL₂₀₅, 2, 1, 0; 2000 AA₂₂₇, 2, 1, 0; 2000 CE₈₃, 2, 1, 0; 2000 DD₂, 2, 1, 0; 2000 DU₁₁, 2, 1, 0; 2000 DV₁₁, 2, 1,

0; 2000 DY₁₁, 2, 1, 0; 2000 DZ₁₁, 2, 1, 0; 2000 DR₁₂, 2, 1, 0; 2000 DA₁₈, 2, 1, 0; 2000 DJ₃₀, 2, 1, 0; 2000 DD₃₂, 2, 1, 0; 2000 DN₃₃, 2, 1, 0; 2000 DP₃₃, 2, 1, 0; 2000 DA₃₅, 2, 1, 0; 2000 DW₃₈, 2, 1, 0; 2000 DX₃₈, 2, 1, 0; 2000 DY₉₉, 2, 1, 0; 2000 EL₆, 2, 1, 0; 2000 EZ₈, 2, 1, 0; 2000 EW₁₃, 2, 1, 0; 2000 EO₂₅, 2, 1, 0; 2000 EP₂₅, 2, 1, 0; 2000 EQ₂₅, 2, 1, 0; 2000 EV₂₅, 2, 1, 0; 2000 EW₂₅, 2, 1, 0; 2000 ER₃₁, 2, 1, 0; 2000 EC₃₈, 2, 1, 0; 2000 EU₄₄, 2, 1, 0; 2000 EE₅₇, 2, 1, 0; 2000 EE₆₄, 2, 1, 0; 2000 EB₆₇, 2, 1, 0; 2000 EO₇₈, 2, 1, 0; 2000 EQ₇₈, 2, 1, 0; 2000 EA₈₇, 2, 1, 0; 2000 EE₉₁, 2, 1, 0; (3672), 2, 1, 0; (3943), 2, 1, 0; (4697), 2, 1, 0; (5300), 2, 1, 0; (5529), 2, 1, 0; (9093), 3, 1, 0; (10008), 2, 1, 0; (11320), 2, 1, 0; (13382), 2, 1, 0; (13507), 2, 1, 0; (13539), 2, 1, 0; (13646), 2, 1, 0; (13669), 2, 1, 0; (13801), 2, 1, 0; [161, 79, 0*, 2000/03/03-2000/03/04]

689 U.S. Naval Observatory, Flagstaff Station

A. Monet, U.S. Naval Observatory, Flagstaff Station, P.O. Box 1149, Flagstaff AZ 86002-1149 [rcs@nofs.navy.mil]

Observers B. Canzian, H. Guetter

Measurer A. Monet

1.55-m astrometric reflector + CCD

USNO-A2.0

2000 ED₁₄, 3, 2, 1; [3, 1, 0*, 2000/03/14-2000/03/15]

691 Kitt Peak, Steward Observatory

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

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

0.91-m Spacewatch telescope + CCD

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

1976 QA, 9, 3, 11; 1977 DG₃, 3, 1, 0; 1977 RS₁₇, 9, 3, 12; 1978 PA₃, 3, 1, 0; 1979 MC₉, 6, 2, 7; 1979 QX₂, 3, 1, 0; 1981 EZ₂₁, 3, 1, 0; 1981 ER₄₀, 12, 4, 16; 1981 EQ₄₇, 3, 1, 0; 1981 RR₃, 6, 2, 2; 1985 CL₂, 12, 4, 15; 1987 CH, 3, 1, 0; 1987 UR, 6, 2, 2; 1988 SS₂, 3, 1, 0; 1989 SD, 3, 1, 0; 1989 SK₁₀, 3, 1, 0; 1990 SN₆, 3, 1, 0; 1990 SK₂₈, 9, 3, 10; 1991 PQ₈, 3, 1, 0; 1991 PD₁₁, 3, 1, 0; 1991 PP₁₂, 6, 2, 2; 1991 PR₁₆, 9, 3, 7; 1991 RF₁, 6, 2, 6; 1991 RL₈, 3, 1, 0; 1991 RU₉, 6, 2, 3; 1991 UE₁, 3, 1, 0; 1991 UN₃, 3, 1, 0; 1992 EW₁₆, 6, 2, 10; 1992 UN, 3, 1, 0; 1992 UZ₃, 3, 1, 0; 1993 FS₁₁, 6, 2, 3; 1993 FX₁₇, 6, 2, 1; 1993 FO₃₁, 6, 2, 1; 1993 FB₃₂, 3, 1, 0; 1993 FG₅₀, 9, 3, 11; 1993 FA₅₃, 3, 1, 0; 1993 GA₁, 9, 3, 17; 1993 HX, 6, 1, 0; 1993 QV₁, 3, 1, 0; 1993 QN₃, 3, 1, 0; 1994 AL₁₆, 3, 1, 0; 1994 EW, 6, 2, 6; 1994 PF₂, 3, 1, 0; 1994 PQ₈, 9, 3, 11; 1994 PM₁₄, 6, 2, 5; 1994 PQ₁₅, 3, 1, 0; 1994 PE₁₈, 3, 1, 0; 1994 PE₂₀, 3, 1, 0; 1994 PL₂₀, 3, 1, 0; 1994 PZ₂₂, 6, 2, 3; 1994 PG₂₄, 3, 1, 0; 1994 PE₂₉, 3, 1, 0; 1994 PO₃₉, 9, 3, 5; 1994 RO, 6, 2, 1; 1994 SC₆, 3, 1, 0; 1994 UY, 3, 1, 0; 1994 VL₇, 3, 1, 0; 1995 BM₁, 3, 1, 0; 1995 BJ₁₁, 3, 1, 0; 1995 CG₃, 12, 2, 5; 1995 UX₄₈, 3, 1, 0; 1995 WY₇, 3, 1, 0; 1996 AV₁, 3, 1, 0; 1996 BM₅, 3, 1, 0; 1996 DU, 3, 1, 0; 1996 EM₁, 3, 1, 0; 1996 EY₇, 3, 1, 0; 1996 GT, 3, 1, 0; 1996 GK₁₇, 3, 1, 0; 1996 GG₂₀, 9, 3, 8; 1996 HY₁₇, 6, 2, 11; 1996 HW₂₀, 3, 1, 0; 1996 KO₁, 9, 3, 6; 1996 RU₂₅, 6, 2, 7; 1997 FW₃, 3, 1, 0; 1997 GE₉, 3, 1, 0; 1997 GL₁₄, 3, 1, 0; 1997 GT₁₈, 3, 1, 0; 1997 HJ₈, 9, 3, 9; 1997 MY₄, 3, 1, 0; 1997 OM, 12, 4, 15; 1997 RA₁, 6, 2, 2; 1997 RQ₃, 9, 3, 10; 1997 VM₅, 6, 2, 17; 1997 WK₂, 3, 1, 0; 1997 WQ₁₁, 6, 2, 17; 1998 MW₁₃, 3, 1, 0; 1998 MG₁₆, 3, 1, 0; 1998 SA, 6, 2, 1; 1998 OF₄, 3, 1, 0; 1998 OM₁₄, 6, 2, 13; 1998 PU, 6, 2, 13; 1998 QK₁, 3, 1, 0; 1998 QE₁₇, 9, 3, 8; 1998 QV₂₄, 3, 1, 0; 1998 QM₂₆, 9, 3, 16; 1998 QS₃₆, 3, 1, 0; 1998 QY₃₇, 3, 1, 0; 1998 QY₃₈, 3, 1, 0; 1998 QX₃₉, 15, 3, 14; 1998 QJ₄₁, 3, 1, 0; 1998 QU₄₄, 3, 1, 0; 1998 QS₄₇, 3, 1, 0; 1998 QW₄₇, 3, 1, 0; 1998 QF₄₉, 9, 3, 14; 1998 QC₅₈, 3, 1, 0; 1998 QF₁₀₀, 3, 1, 0; 1998 RW, 3, 1, 0; 1998 RC₅, 3, 1, 0; 1998 RL₁₅, 6, 2, 5; 1998 RA₄₅, 3, 1, 0; 1998 RZ₅₅, 6, 2, 10; 1998 RA₅₈, 3, 1, 0; 1998 RR₅₉, 3, 1, 0; 1998 RX₆₄, 3, 1, 0; 1998 RE₆₅, 6, 2, 8; 1998 RX₇₄, 9, 3, 11; 1998 RD₇₇, 9, 3, 2; 1998 RJ₇₇, 9, 3, 8; 1998 RA₇₉, 15, 5, 10; 1998 SN₂, 15, 5, 14; 1998 SM₄, 12, 4, 11; 1998 SJ₁₀, 3, 1, 0; 1998 SX₂₁, 6, 2, 10; 1998 SW₃₂, 3, 1, 0; 1998 SL₇₁, 12, 4, 16; 1998 SM₁₁₅, 6, 2, 10; 1998 SX₁₁₅, 3, 1, 0; 1998 SR₁₂₄, 9, 3, 16; 1998 SV₁₂₆, 3, 1, 0; 1998 SL₁₂₉, 27, 8, 19; 1998 SS₁₃₀, 6, 2, 9; 1998 SB₁₃₁, 3, 1, 0; 1998 SN₁₃₁, 3, 1, 0; 1998 SG₁₃₂, 3, 1, 0; 1998 SJ₁₃₂, 9, 3, 11; 1998 ST₁₃₂, 3, 1, 0; 1998 SB₁₃₆, 3, 1, 0; 1998 SB₁₄₄, 3, 1, 0; 1998 SC₁₆₄, 9, 3, 13; 1998 TR₁₇, 6, 2, 2; 1998 TY₂₀, 6, 2, 11; 1998 TG₃₀, 3, 1, 0; 1998 TV₃₀, 3, 1, 0; 1998 TD₃₃, 12, 3, 3; 1998 UX₁, 9, 3, 12; 1998 UQ₂, 3, 1, 0; 1998 UR₈, 6, 2, 2; 1998 UC₁₅, 6, 2, 1; 1998 UO₁₈, 3, 1, 0; 1998 UF₁₉, 6, 2, 5; 1998 UC₂₁, 3, 1, 0; 1998 UZ₂₂, 3, 1, 0; 1998 UZ₂₇, 3, 1, 0; 1998 UT₂₉, 2, 1, 0; 1998 VA₁, 3, 1, 0; 1998 VJ₈, 3, 1, 0; 1998 VN₈, 12, 4, 15; 1998 VM₂₂, 3, 1, 0; 1998 VJ₂₈, 3, 1, 0; 1998 VO₂₉, 6, 2, 7; 1998 VR₃₄, 6, 2, 12; 1998 VE₃₇, 3, 1, 0; 1998 VN₄₅, 3, 1, 0; 1998 VP₄₅, 2, 1, 0; 1998 VR₄₅, 3, 1, 0; 1998 VS₄₅, 3, 1, 0; 1998 VH₄₆, 3, 1, 0; 1998 WO₁, 6, 2, 5; 1998 WD₈, 3, 1, 0; 1998 WK₉, 3, 1, 0; 1998 WN₉, 3, 1, 0; 1998 WY₁₀, 3, 1, 0; 1998 WD₁₂, 6, 2, 5; 1998 WM₁₄, 3, 1, 0; 1998 WG₁₇, 3, 1, 0; 1998 WZ₂₁, 3, 1, 0; 1998 WF₂₈, 3, 1, 0; 1998 WQ₂₈, 3, 1, 0; 1998 WN₃₂, 3, 1, 0; 1998 WO₃₂, 3, 1, 0; 1998 WP₃₂, 3, 1, 0; 1998 WQ₃₂, 3, 1, 0; 1998 WR₃₂, 3, 1, 0; 1998 WS₃₂, 3, 1, 0; 1998 WT₃₂,

3, 1, 0; 1998 WU₃₂, 3, 1, 0; 1998 WV₃₂, 3, 1, 0; 1998 WA₃₄, 3, 1, 0; 1998 WB₃₄, 3, 1, 0; 1998 WE₃₄, 3, 1, 0; 1998 XY, 3, 1, 0; 1998 XG₁, 3, 1, 0; 1998 XL₁, 3, 1, 0; 1998 XU₁, 3, 1, 0; 1998 XL₅, 3, 1, 0; 1998 XS₅, 3, 1, 0; 1998 XK₁₃, 3, 1, 0; 1998 XY₁₆, 3, 1, 0; 1998 XZ₇₃, 3, 1, 0; 1998 YR₈, 6, 2, 1; 1999 BN₅, 3, 1, 0; 1999 BZ₂₀, 3, 1, 0; 1999 CM₁₃₈, 3, 1, 0; 1999 CT₁₄₇, 3, 1, 0; 1999 SK₁₀, 3, 1, 0; 1999 VE₉, 3, 1, 0; 1999 XL₁₄, 3, 1, 0; 1999 XA₃₄, 3, 1, 0; 1999 XD₃₄, 6, 2, 9; 1999 XD₁₆₅, 3, 1, 0; 1999 XH₁₇₆, 3, 1, 0; 2000 AB, 3, 1, 0; 2000 AS, 6, 2, 2; 2000 AC₁, 6, 2, 6; 2000 AE₁, 6, 2, 6; 2000 AF₁, 6, 2, 8; 2000 AC₅₀, 3, 1, 0; 2000 AN₅₀, 6, 2, 10; 2000 AS₅₃, 3, 1, 0; 2000 AJ₅₄, 3, 1, 0; 2000 AO₅₅, 3, 1, 0; 2000 AQ₅₉, 3, 1, 0; 2000 AQ₆₀, 3, 1, 0; 2000 AV₆₀, 3, 1, 0; 2000 AX₆₁, 6, 2, 6; 2000 AR₆₂, 3, 1, 0; 2000 AD₆₆, 3, 1, 0; 2000 AR₆₆, 6, 2, 5; 2000 AO₈₉, 3, 1, 0; 2000 AX₉₁, 3, 1, 0; 2000 AJ₉₂, 9, 3, 11; 2000 AD₉₅, 6, 2, 5; 2000 AK₉₅, 3, 1, 0; 2000 AR₉₅, 6, 2, 6; 2000 AZ₉₅, 3, 1, 0; 2000 AA₉₆, 3, 1, 0; 2000 AD₉₇, 3, 1, 0; 2000 AM₉₇, 9, 3, 13; 2000 AU₉₇, 3, 1, 0; 2000 AH₁₂₁, 6, 2, 8; 2000 AJ₁₂₄, 6, 2, 6; 2000 AO₁₂₄, 3, 1, 0; 2000 AW₁₂₄, 3, 1, 0; 2000 AP₁₂₅, 6, 2, 8; 2000 AZ₁₂₅, 6, 2, 8; 2000 AV₁₂₆, 6, 2, 8; 2000 AT₁₂₇, 3, 1, 0; 2000 AA₁₂₈, 3, 1, 0; 2000 AE₁₂₈, 3, 1, 0; 2000 AF₁₂₈, 6, 2, 12; 2000 AH₁₂₈, 3, 1, 0; 2000 AJ₁₂₉, 3, 1, 0; 2000 AP₁₂₉, 3, 1, 0; 2000 AY₁₂₉, 6, 2, 6; 2000 AD₁₃₁, 3, 1, 0; 2000 AX₁₃₆, 6, 2, 6; 2000 AD₁₃₇, 6, 2, 2; 2000 AS₁₄₂, 3, 1, 0; 2000 AU₁₄₃, 3, 1, 0; 2000 AY₁₅₀, 6, 2, 2; 2000 AS₁₆₂, 3, 1, 0; 2000 AN₁₆₈, 3, 1, 0; 2000 AR₁₉₆, 3, 1, 0; 2000 AK₂₀₇, 3, 1, 0; 2000 AF₂₁₁, 6, 2, 6; 2000 AK₂₁₄, 3, 1, 0; 2000 AO₂₁₄, 3, 1, 0; 2000 AB₂₂₂, 3, 1, 0; 2000 AU₂₂₆, 3, 1, 0; 2000 AL₂₂₈, 6, 2, 6; 2000 AT₂₃₀, 6, 2, 8; 2000 AN₂₃₂, 6, 2, 6; 2000 AX₂₃₆, 3, 1, 0; 2000 AY₂₃₉, 3, 1, 0; 2000 AB₂₄₀, 3, 1, 0; 2000 AC₂₄₀, 3, 1, 0; 2000 AJ₂₄₆, 3, 1, 0; 2000 BV₁, 3, 1, 0; 2000 BC₂, 3, 1, 0; 2000 BH₂, 9, 3, 12; 2000 BF₃, 9, 3, 16; 2000 BM₃, 9, 3, 15; 2000 BD₁₂, 3, 1, 0; 2000 BP₁₂, 3, 1, 0; 2000 BR₁₂, 3, 1, 0; 2000 BE₁₃, 6, 2, 10; 2000 BO₁₃, 3, 1, 0; 2000 BT₁₃, 6, 2, 6; 2000 BB₁₄, 3, 1, 0; 2000 BG₁₄, 6, 2, 9; 2000 BJ₁₈, 3, 1, 0; 2000 BF₁₉, 3, 1, 0; 2000 BG₁₉, 5, 2, 7; 2000 BE₂₂, 3, 1, 0; 2000 BH₂₂, 6, 2, 2; 2000 BK₂₂, 6, 2, 6; 2000 BT₂₂, 3, 1, 0; 2000 BF₂₃, 3, 1, 0; 2000 BA₂₇, 3, 1, 0; 2000 BH₂₇, 6, 2, 10; 2000 BJ₂₇, 3, 1, 0; 2000 BK₂₇, 6, 2, 9; 2000 BL₂₇, 3, 1, 0; 2000 BM₂₇, 6, 2, 5; 2000 BN₂₇, 9, 3, 11; 2000 BZ₂₇, 6, 2, 2; 2000 BZ₂₉, 3, 1, 0; 2000 BK₃₀, 3, 1, 0; 2000 CL, 3, 1, 0; 2000 CN, 6, 2, 3; 2000 CS, 6, 2, 5; 2000 CB₁, 3, 1, 0; 2000 CD₁, 3, 1, 0; 2000 CG₁, 6, 2, 5; 2000 CN₁, 6, 2, 5; 2000 CV₁, 9, 3, 11; 2000 CZ₁, 3, 1, 0; 2000 CA₂, 6, 2, 7; 2000 CU₂, 6, 2, 8; 2000 CZ₂, 6, 2, 1; 2000 CK₁₃, 3, 1, 0; 2000 CM₁₃, 6, 2, 6; 2000 CO₁₄, 6, 2, 8; 2000 CE₁₇, 6, 2, 6; 2000 CN₁₇, 6, 2, 4; 2000 CP₁₇, 9, 3, 10; 2000 CM₁₉, 6, 2, 6; 2000 CF₂₂, 3, 1, 0; 2000 CQ₂₂, 6, 2, 6; 2000 CR₂₃, 6, 2, 5; 2000 CB₂₄, 6, 2, 6; 2000 CE₂₄, 6, 2, 5; 2000 CG₂₄, 6, 2, 5; 2000 CJ₂₄, 3, 1, 0; 2000 CL₂₄, 3, 1, 0; 2000 CN₂₄, 6, 2, 5; 2000 CQ₂₄, 6, 2, 5; 2000 CR₂₄, 6, 2, 6; 2000 CS₂₄, 6, 2, 6; 2000 CU₂₅, 6, 2, 5; 2000 CA₂₆, 6, 2, 11; 2000 CC₂₆, 6, 2, 5; 2000 CF₂₆, 6, 2, 5; 2000 CL₂₆, 3, 1, 0; 2000 CO₂₆, 3, 1, 0; 2000 CQ₂₆, 6, 2, 1; 2000 CY₂₆, 3, 1, 0; 2000 CF₂₇, 9, 3, 14; 2000 CT₂₇, 6, 2, 5; 2000 CU₂₇, 3, 1, 0; 2000 CV₂₇, 9, 3, 7; 2000 CW₂₇, 3, 1, 0; 2000 CZ₂₇, 9, 3, 7; 2000 CB₂₈, 9, 3, 7; 2000 CD₂₈, 15, 3, 14; 2000 CM₂₈, 3, 1, 0; 2000 CU₂₈, 6, 2, 1; 2000 CY₂₈, 24, 7, 15; 2000 CZ₂₈, 6, 2, 3; 2000 CA₂₉, 12, 4, 14; 2000 CJ₂₉, 12, 4, 3; 2000 CL₂₉, 6, 2, 2; 2000 CT₂₉, 9, 3, 2; 2000 CV₂₉, 12, 3, 14; 2000 CW₂₉, 12, 4, 10; 2000 CA₃₀, 3, 1, 0; 2000 CB₃₀, 9, 3, 2; 2000 CE₃₀, 6, 2, 2; 2000 CF₃₀, 6, 2, 5; 2000 CG₃₀, 6, 2, 2; 2000 CH₃₀, 3, 1, 0; 2000 CV₃₀, 6, 2, 6; 2000 CN₃₁, 6, 2, 1; 2000 CP₃₁, 3, 1, 0; 2000 CR₃₁, 6, 2, 6; 2000 CU₃₁, 9, 3, 8; 2000 CK₃₂, 6, 2, 6; 2000 CT₃₃, 3, 1, 0; 2000 CU₃₃, 12, 4, 9; 2000 CZ₃₄, 3, 1, 0; 2000 CF₃₅, 3, 1, 0; 2000 CP₃₆, 9, 3, 5; 2000 CQ₃₆, 6, 2, 5; 2000 CV₃₆, 3, 1, 0; 2000 CX₃₆, 3, 1, 0; 2000 CA₃₇, 9, 3, 6; 2000 CC₃₇, 3, 1, 0; 2000 CD₃₇, 15, 5, 16; 2000 CF₃₇, 3, 1, 0; 2000 CG₃₇, 3, 1, 0; 2000 CH₃₇, 6, 2, 6; 2000 CR₃₈, 3, 1, 0; 2000 CJ₃₉, 3, 1, 0; 2000 CK₃₉, 3, 1, 0; 2000 CR₃₉, 3, 1, 0; 2000 CY₃₉, 3, 1, 0; 2000 CD₄₀, 6, 2, 4; 2000 CO₄₀, 6, 2, 5; 2000 CF₄₁, 3, 1, 0; 2000 CH₄₁, 3, 1, 0; 2000 CX₄₃, 6, 2, 2; 2000 CJ₄₆, 15, 5, 8; 2000 CS₅₁, 9, 3, 5; 2000 CX₅₂, 3, 1, 0; 2000 CB₅₃, 6, 2, 3; 2000 CD₅₃, 3, 1, 0; 2000 CJ₅₃, 6, 2, 8; 2000 CK₅₃, 3, 1, 0; 2000 CS₅₃, 6, 1, 0; 2000 CS₅₄, 3, 1, 0; 2000 CS₅₅, 9, 3, 11; 2000 CW₅₅, 9, 3, 11; 2000 CX₅₅, 3, 1, 0; 2000 CY₅₅, 3, 1, 0; 2000 CZ₅₅, 6, 2, 5; 2000 CA₅₆, 21, 4, 15; 2000 CB₅₆, 6, 2, 7; 2000 CD₅₆, 3, 1, 0; 2000 CE₅₆, 6, 2, 2; 2000 CS₅₆, 3, 1, 0; 2000 CT₅₇, 3, 1, 0; 2000 CY₅₇, 3, 1, 0; 2000 CA₅₉, 6, 2, 2; 2000 CD₅₉, 9, 3, 10; 2000 CU₅₉, 3, 1, 0; 2000 CX₆₃, 6, 2, 2; 2000 CH₆₅, 6, 2, 5; 2000 CJ₆₅, 12, 3, 10; 2000 CL₆₅, 15, 5, 14; 2000 CB₇₂, 3, 1, 0; 2000 CC₇₂, 6, 2, 6; 2000 CE₇₃, 6, 2, 2; 2000 CJ₇₅, 3, 1, 0; 2000 CF₇₆, 3, 1, 0; 2000 CQ₇₆, 3, 1, 0; 2000 CL₇₇, 3, 1, 0; 2000 CM₇₇, 9, 2, 9; 2000 CS₇₈, 6, 2, 5; 2000 CE₇₉, 6, 2, 2; 2000 CF₇₉, 9, 3, 10; 2000 CT₇₉, 3, 1, 0; 2000 CN₇₉, 3, 1, 0; 2000 CO₇₉, 6, 2, 5; 2000 CR₇₉, 6, 2, 3; 2000 CS₇₉, 3, 1, 0; 2000 CV₇₉, 6, 2, 3; 2000 CW₇₉, 3, 1, 0; 2000 CX₇₉, 3, 1, 0; 2000 CK₈₀, 3, 1, 0; 2000 CM₈₀, 3, 1, 0; 2000 CG₈₁, 6, 2, 1; 2000 CH₈₁, 3, 1, 0; 2000 CM₈₁, 6, 2, 5; 2000 CN₈₁, 6, 2, 13; 2000 CO₈₁, 12, 3, 14; 2000 CQ₈₁, 12, 4, 15; 2000 CS₈₁, 12, 3, 15; 2000 CZ₈₁, 6, 2, 13; 2000 CE₈₂, 9, 3, 13; 2000 CG₈₂, 3, 1, 0; 2000 CM₈₂, 12, 4, 9; 2000 CO₈₂, 6, 2, 2; 2000 CT₈₂, 3, 1, 0; 2000 CH₈₃, 3, 1, 0; 2000 CX₈₃, 3, 1, 0; 2000 CO₈₇, 6, 2, 5; 2000 CQ₈₇, 3, 1, 0; 2000 CG₉₀, 9, 3, 13; 2000 CJ₉₀, 3, 1, 0; 2000 CL₉₀, 6, 2, 11; 2000 CN₉₀, 9, 3, 30; 2000 CB₉₁, 6, 2, 5; 2000 CE₉₁, 3, 1, 0; 2000 CN₉₁, 6, 2, 1; 2000 CS₉₁, 3, 1, 0; 2000 CT₉₁, 3, 1, 0; 2000 CV₉₁, 3, 1, 0; 2000 CD₉₂, 9, 3, 14; 2000 CQ₉₂, 15, 4, 18; 2000 CM₉₂, 3, 1, 0; 2000 CO₉₂, 6, 2, 4; 2000 CB₉₃, 3, 1, 0; 2000 CU₉₃, 3, 1, 0; 2000 CV₉₃, 3, 1, 0; 2000 CX₉₃, 15, 4, 15; 2000 CY₉₃, 6, 2, 16; 2000 CB₉₄, 9, 2, 1; 2000 CP₉₄, 3, 1, 0; 2000 CR₉₄, 9, 3, 10; 2000 CB₉₅, 6, 2, 1; 2000 CT₉₅, 3, 1, 0; 2000 CE₉₇, 3, 1, 0; 2000 CT₉₇, 3, 1, 0; 2000 CL₉₈, 6, 2, 6; 2000 CM₉₈, 6, 2, 5; 2000 CN₉₈, 9, 3, 11; 2000 CO₉₈, 6, 2, 5; 2000 CP₉₈, 9, 3, 11; 2000 CX₉₈, 12, 4, 13; 2000 CZ₉₈, 6, 2, 11; 2000 CB₉₉, 3, 1, 0; 2000 CC₉₉, 9, 3, 11; 2000 CE₉₉, 6, 2, 16; 2000 CF₉₉, 3, 1, 0; 2000 CH₉₉, 3, 1, 0; 2000 CL₉₉, 3, 1, 0; 2000 CM₁₀₁, 3, 1, 0; 2000 CR₁₀₁, 9, 3, 11; 2000 CB₁₀₂, 6, 2, 6; 2000 CW₁₀₂, 6, 2, 1; 2000 CX₁₀₂, 3, 1, 0; 2000 CF₁₀₃, 3, 1, 0;

2000 DE₁, 3, 1, 0; 2000 DJ₁, 3, 1, 0; 2000 DM₁, 6, 2, 1; 2000 DR₁ *, 6, 2, 1; 2000 DS₁ *, 9, 3, 6; 2000 DT₁ *, 6, 2, 1; 2000 DU₁ *, 6, 2, 1; 2000 DV₁ *, 6, 2, 1; 2000 DW₁ *, 9, 3, 6; 2000 DX₁ *, 9, 3, 6; 2000 DY₁ *, 6, 2, 1; 2000 DZ₁ *, 9, 3, 14; 2000 DA₂ *, 9, 3, 6; 2000 DB₂ *, 6, 2, 1; 2000 DC₂ *, 6, 2, 1; 2000 DD₂ *, 12, 4, 6; 2000 DE₂ *, 9, 3, 6; 2000 DF₂ *, 6, 2, 1; 2000 DG₂ *, 12, 4, 6; 2000 DH₂ *, 6, 2, 1; 2000 DJ₂ *, 12, 4, 14; 2000 DM₂, 3, 1, 0; 2000 DN₂, 3, 1, 0; 2000 DP₂, 6, 2, 3; 2000 DR₂ *, 6, 2, 1; 2000 DS₂ *, 6, 2, 1; 2000 DT₂ *, 6, 2, 1; 2000 DU₂ *, 6, 2, 1; 2000 DV₂ *, 6, 2, 1; 2000 DW₂ *, 9, 3, 11; 2000 DX₂ *, 12, 4, 16; 2000 DQ₃, 3, 1, 0; 2000 DP₇, 6, 2, 3; 2000 DQ₇ *, 6, 2, 2; 2000 DR₇ *, 6, 2, 2; 2000 DS₇ *, 6, 2, 2; 2000 DT₇ *, 6, 2, 2; 2000 DU₇ *, 6, 2, 2; 2000 DV₇ *, 6, 2, 2; 2000 DW₇ *, 6, 2, 2; 2000 DX₇ *, 6, 2, 2; 2000 DY₇ *, 9, 3, 12; 2000 DZ₇ *, 6, 2, 2; 2000 DA₈ *, 9, 3, 12; 2000 DB₈ *, 6, 2, 2; 2000 DC₈ *, 6, 2, 2; 2000 DD₈ *, 9, 3, 12; 2000 DE₈ *, 6, 2, 2; 2000 DU₈ *, 9, 3, 7; 2000 DV₈ *, 6, 2, 5; 2000 DW₈ *, 6, 2, 5; 2000 DX₈ *, 6, 2, 5; 2000 DY₈ *, 9, 3, 7; 2000 DZ₈ *, 12, 4, 15; 2000 DA₉ *, 9, 3, 12; 2000 DB₉ *, 9, 3, 7; 2000 DC₉ *, 15, 4, 14; 2000 DD₉ *, 12, 4, 15; 2000 DE₉ *, 15, 4, 15; 2000 DF₉ *, 12, 4, 15; 2000 DG₉ *, 18, 5, 15; 2000 DH₉ *, 12, 4, 15; 2000 DJ₉ *, 12, 4, 15; 2000 DK₉ *, 9, 3, 12; 2000 DL₉ *, 9, 2, 5; 2000 DM₉ *, 18, 4, 15; 2000 DN₉ *, 18, 5, 15; 2000 DO₉ *, 6, 2, 5; 2000 DP₉ *, 9, 3, 13; 2000 DQ₉ *, 15, 4, 15; 2000 DR₉ *, 18, 6, 15; 2000 DS₉ *, 15, 3, 13; 2000 DT₉ *, 6, 2, 5; 2000 DU₉ *, 18, 6, 15; 2000 DV₉ *, 9, 3, 6; 2000 DW₉ *, 15, 4, 12; 2000 DX₉ *, 6, 2, 5; 2000 DY₉ *, 15, 5, 15; 2000 DZ₉ *, 15, 5, 15; 2000 DA₁₀ *, 15, 5, 15; 2000 DB₁₀ *, 12, 4, 15; 2000 DC₁₀ *, 15, 5, 15; 2000 DD₁₀ *, 9, 2, 5; 2000 DE₁₀ *, 12, 4, 14; 2000 DF₁₀ *, 12, 4, 14; 2000 DG₁₀ *, 9, 3, 7; 2000 DH₁₀ *, 9, 3, 6; 2000 DJ₁₀ *, 12, 4, 15; 2000 DK₁₀ *, 6, 2, 5; 2000 DL₁₀ *, 9, 3, 6; 2000 DM₁₀ *, 9, 3, 7; 2000 DN₁₀ *, 9, 3, 7; 2000 DO₁₀ *, 6, 2, 5; 2000 DP₁₀ *, 9, 3, 7; 2000 DQ₁₀ *, 12, 4, 12; 2000 DR₁₀ *, 6, 2, 5; 2000 DS₁₀ *, 15, 3, 7; 2000 DT₁₀ *, 6, 2, 5; 2000 DU₁₀ *, 18, 5, 15; 2000 DV₁₀ *, 6, 2, 5; 2000 DW₁₀ *, 12, 3, 15; 2000 DX₁₀ *, 9, 3, 6; 2000 DY₁₀ *, 6, 2, 5; 2000 DZ₁₀ *, 6, 2, 5; 2000 DA₁₁ *, 15, 5, 15; 2000 DB₁₁ *, 15, 5, 15; 2000 DC₁₁ *, 12, 4, 15; 2000 DD₁₁ *, 9, 3, 15; 2000 DE₁₁ *, 12, 4, 14; 2000 DF₁₁ *, 6, 2, 4; 2000 DG₁₁ *, 21, 4, 11; 2000 DH₁₁ *, 9, 3, 5; 2000 DJ₁₁ *, 9, 3, 5; 2000 DK₁₁ *, 9, 3, 5; 2000 DL₁₁ *, 6, 2, 4; 2000 DM₁₁ *, 9, 3, 5; 2000 DN₁₁ *, 6, 2, 4; 2000 DO₁₁ *, 9, 3, 5; 2000 DP₁₁ *, 6, 2, 4; 2000 DQ₁₁ *, 9, 3, 5; 2000 DR₁₁ *, 9, 3, 5; 2000 DS₁₁ *, 9, 3, 5; 2000 DT₁₁ *, 6, 2, 4; 2000 DU₁₁ *, 9, 3, 5; 2000 DV₁₁ *, 12, 4, 6; 2000 DW₁₁ *, 9, 3, 5; 2000 DX₁₁ *, 6, 2, 4; 2000 DY₁₁ *, 6, 2, 4; 2000 DZ₁₁ *, 9, 3, 5; 2000 DA₁₂ *, 9, 3, 5; 2000 DB₁₂ *, 9, 3, 5; 2000 DC₁₂ *, 6, 2, 4; 2000 DD₁₂ *, 6, 2, 4; 2000 DE₁₂ *, 9, 3, 5; 2000 DF₁₂ *, 6, 2, 4; 2000 DG₁₂ *, 9, 3, 5; 2000 DH₁₂ *, 9, 3, 5; 2000 DJ₁₂ *, 9, 3, 5; 2000 DK₁₂ *, 6, 2, 4; 2000 DL₁₂ *, 6, 2, 4; 2000 DM₁₂ *, 9, 3, 5; 2000 DN₁₂ *, 9, 3, 5; 2000 DO₁₂ *, 9, 3, 5; 2000 DP₁₂ *, 9, 3, 5; 2000 DQ₁₂ *, 9, 3, 5; 2000 DR₁₂ *, 9, 3, 5; 2000 DS₁₂ *, 9, 3, 5; 2000 DT₁₂ *, 6, 2, 4; 2000 DU₁₂ *, 9, 3, 5; 2000 DV₁₂ *, 9, 3, 5; 2000 DW₁₂ *, 9, 3, 5; 2000 DX₁₂ *, 9, 3, 5; 2000 DY₁₂ *, 9, 3, 5; 2000 DZ₁₂ *, 9, 3, 5; 2000 DA₁₃ *, 9, 3, 5; 2000 DB₁₃ *, 9, 3, 5; 2000 DC₁₃ *, 9, 3, 5; 2000 DD₁₃ *, 9, 3, 5; 2000 DE₁₃ *, 9, 3, 5; 2000 DF₁₃ *, 6, 2, 3; 2000 DG₁₃ *, 6, 2, 3; 2000 DH₁₃ *, 6, 2, 3; 2000 DJ₁₃ *, 6, 2, 3; 2000 DK₁₃ *, 6, 2, 3; 2000 DL₁₃ *, 6, 2, 3; 2000 DM₁₃ *, 9, 3, 5; 2000 DN₁₃ *, 9, 3, 5; 2000 DO₁₃ *, 9, 3, 5; 2000 DP₁₃ *, 9, 3, 5; 2000 DQ₁₃ *, 9, 3, 5; 2000 DR₁₃ *, 9, 3, 5; 2000 DS₁₃ *, 6, 2, 3; 2000 DT₁₃ *, 9, 3, 5; 2000 DU₁₃ *, 9, 3, 5; 2000 DV₁₃ *, 9, 3, 5; 2000 DW₁₃ *, 6, 2, 3; 2000 DX₁₃ *, 6, 2, 3; 2000 DY₁₃ *, 9, 3, 5; 2000 DZ₁₃ *, 9, 3, 5; 2000 DA₁₄ *, 9, 3, 5; 2000 DB₁₄ *, 12, 4, 16; 2000 DC₁₄ *, 9, 3, 5; 2000 DD₁₄ *, 9, 3, 5; 2000 DE₁₄ *, 9, 3, 5; 2000 DF₁₄ *, 6, 2, 3; 2000 DG₁₄ *, 6, 2, 3; 2000 DH₁₄ *, 12, 4, 16; 2000 DJ₁₄ *, 9, 3, 5; 2000 DK₁₄ *, 9, 3, 5; 2000 DL₁₄ *, 6, 2, 3; 2000 DE₁₆, 3, 1, 0; 2000 DF₁₆, 3, 1, 0; 2000 DG₁₆, 3, 1, 0; 2000 DU

2000 MAR. 20

M.P.C. 38981

2000 DR₄₆, 3, 1, 0; 2000 DT₄₆, 3, 1, 0; 2000 DV₄₆, 3, 1, 0; 2000 DK₄₇, 3, 1, 0; 2000 DP₄₇, 3, 1, 0; 2000 DQ₅₀, 3, 1, 0; 2000 DM₅₂, 3, 1, 0; 2000 DR₅₂, 6, 2, 16; 2000 DV₅₂, 3, 1, 0; 2000 DW₅₂, 3, 1, 0; 2000 DB₅₃, 3, 1, 0; 2000 DL₅₄, 3, 1, 0; 2000 DO₅₄, 3, 1, 0; 2000 DP₅₄, 3, 1, 0; 2000 DS₅₄, 3, 1, 0; 2000 DU₅₄, 3, 1, 0; 2000 DQ₅₅, 3, 1, 0; 2000 DR₅₅, 6, 2, 11; 2000 DC₅₆, 3, 1, 0; 2000 DH₅₆, 3, 1, 0; 2000 DK₅₆, 3, 1, 0; 2000 DL₅₆, 3, 1, 0; 2000 DO₅₆, 3, 1, 0; 2000 DV₅₆, 3, 1, 0; 2000 DH₅₆, 3, 1, 0; 2000 DC₅₇, 3, 1, 0; 2000 DF₅₇, 3, 1, 0; 2000 DH₅₇, 3, 1, 0; 2000 DQ₅₇, 3, 1, 0; 2000 DS₅₇, 3, 1, 0; 2000 DT₅₇, 3, 1, 0; 2000 DV₅₇, 3, 1, 0; 2000 DO₅₈, 3, 1, 0; 2000 DU₅₈, 3, 1, 0; 2000 DV₅₈, 6, 2, 8; 2000 DW₅₈, 3, 1, 0; 2000 DX₅₈, 6, 1, 0; 2000 DY₅₈, 6, 2, 1; 2000 DZ₅₈, 3, 1, 0; 2000 DA₅₉, 3, 1, 0; 2000 DB₅₉, 9, 3, 8; 2000 DC₅₉, 6, 2, 12; 2000 DD₅₉, 12, 4, 13; 2000 DE₅₉, 6, 2, 5; 2000 DF₅₉, 9, 3, 10; 2000 DH₅₉, 15, 5, 13; 2000 DJ₅₉, 6, 2, 6; 2000 DL₅₉, 12, 4, 11; 2000 DM₅₉, 6, 2, 4; 2000 DN₅₉, 3, 1, 0; 2000 DO₅₉, 3, 1, 0; 2000 DP₅₉, 9, 3, 10; 2000 DQ₅₉, 9, 3, 8; 2000 DR₅₉, 6, 2, 12; 2000 DS₅₉, 6, 2, 8; 2000 DT₅₉, 9, 3, 5; 2000 DU₅₉, 3, 1, 0; 2000 DW₅₉, 3, 1, 0; 2000 DZ₅₉, 3, 1, 0; 2000 DD₆₀, 3, 1, 0; 2000 DE₆₀, 3, 1, 0; 2000 DJ₆₀, 3, 1, 0; 2000 DF₆₁, 3, 1, 0; 2000 DY₆₁, 6, 2, 6; 2000 DZ₆₁, 3, 1, 0; 2000 DC₆₂, 3, 1, 0; 2000 DM₆₂, 6, 2, 1; 2000 DO₆₂, 9, 3, 8; 2000 DP₆₂, 3, 1, 0; 2000 DQ₆₂, 3, 1, 0; 2000 DR₆₂, 3, 1, 0; 2000 DT₆₂, 3, 1, 0; 2000 DU₆₂, 9, 3, 8; 2000 DV₆₂, 3, 1, 0; 2000 DX₆₂, 3, 1, 0; 2000 DY₆₂, 6, 2, 7; 2000 DZ₆₂, 3, 1, 0; 2000 DA₆₃, 9, 3, 16; 2000 DB₆₃, 3, 1, 0; 2000 DC₆₃, 6, 2, 9; 2000 DD₆₃, 9, 3, 16; 2000 DE₆₃, 3, 1, 0; 2000 DG₆₃, 3, 1, 0; 2000 DK₆₃, 3, 1, 0; 2000 DP₆₃, 3, 1, 0; 2000 DR₆₃, 3, 1, 0; 2000 DS₆₃, 3, 1, 0; 2000 DT₆₃, 6, 2, 4; 2000 DL₆₄, 12, 4, 11; 2000 DM₆₄, 3, 1, 0; 2000 DN₆₄, 6, 2, 7; 2000 DO₆₄, 3, 1, 0; 2000 DQ₆₄, 12, 4, 11; 2000 DS₆₄, 3, 1, 0; 2000 DT₆₄, 3, 1, 0; 2000 DU₆₄, 3, 1, 0; 2000 DV₆₄, 3, 1, 0; 2000 DX₆₄, 15, 5, 12; 2000 DY₆₄, 6, 2, 1; 2000 DZ₆₄, 21, 7, 19; 2000 DA₆₅, 24, 7, 18; 2000 DB₆₅, 12, 4, 12; 2000 DC₆₅, 18, 5, 16; 2000 DD₆₅, 9, 3, 11; 2000 DE₆₅, 3, 1, 0; 2000 DF₆₅, 9, 3, 14; 2000 DP₆₅, 6, 2, 11; 2000 DV₆₅, 9, 3, 16; 2000 DJ₆₆, 3, 1, 0; 2000 DK₆₆, 9, 3, 16; 2000 DM₆₆, 3, 1, 0; 2000 DN₆₆, 3, 1, 0; 2000 DX₆₆, 3, 1, 0; 2000 DZ₆₆, 3, 1, 0; 2000 DA₆₇, 6, 2, 19; 2000 DE₆₇, 3, 1, 0; 2000 DP₆₇, 3, 1, 0; 2000 DK₆₇, 3, 1, 0; 2000 DT₆₇, 3, 1, 0; 2000 DU₆₇, 3, 1, 0; 2000 DW₆₇, 9, 3, 11; 2000 DX₆₇, 9, 3, 11; 2000 DY₆₇, 6, 2, 12; 2000 DE₆₈, 3, 1, 0; 2000 DH₆₈, 6, 1, 0; 2000 DL₆₈, 3, 1, 0; 2000 DM₆₈, 6, 2, 7; 2000 DN₆₈, 12, 4, 18; 2000 DO₆₈, 15, 5, 18; 2000 DP₆₈, 6, 2, 6; 2000 DQ₆₈, 3, 1, 0; 2000 DR₆₈, 3, 1, 0; 2000 DS₆₈, 3, 1, 0; 2000 DU₆₈, 3, 1, 0; 2000 DG₆₉, 3, 1, 0; 2000 DM₆₉, 6, 2, 9; 2000 DN₆₉, 6, 2, 4; 2000 DO₆₉, 3, 1, 0; 2000 DP₆₉, 6, 2, 4; 2000 DQ₆₉, 6, 2, 2; 2000 DR₆₉, 3, 1, 0; 2000 DS₆₉, 9, 3, 11; 2000 DT₆₉, 3, 1, 0; 2000 DU₆₉, 3, 1, 0; 2000 DO₇₀, 3, 1, 0; 2000 DP₇₀, 9, 3, 11; 2000 DQ₇₀, 9, 3, 11; 2000 DT₇₀, 9, 3, 4; 2000 DV₇₁, 3, 1, 0; 2000 DZ₇₁, 3, 1, 0; 2000 DC₇₃, 3, 1, 0; 2000 DR₇₄, 3, 1, 0; 2000 DB₇₅, 6, 1, 0; 2000 DD₇₆, 3, 1, 0; 2000 DE₇₆, 12, 4, 11; 2000 DF₇₆, 3, 1, 0; 2000 DG₇₆, 6, 2, 7; 2000 DH₇₆, 3, 1, 0; 2000 DK₇₆, 6, 2, 9; 2000 DX₇₆, 3, 1, 0; 2000 DY₇₆, 9, 3, 4; 2000 DZ₇₆, 3, 1, 0; 2000 DA₇₇, 3, 1, 0; 2000 DB₇₇, 3, 1, 0; 2000 DE₇₇, 3, 1, 0; 2000 DU₇₇, 3, 1, 0; 2000 DV₇₇, 3, 1, 0; 2000 DY₇₇, 3, 1, 0; 2000 DA₇₈, 3, 1, 0; 2000 DS₇₈, 6, 2, 2; 2000 DD₇₉, 14, 3, 6; 2000 DU₈₄, 3, 1, 0; 2000 DW₈₄, 3, 1, 0; 2000 DQ₈₆, 3, 1, 0; 2000 DR₈₈, 6, 2, 7; 2000 DS₈₈, 6, 2, 7; 2000 DT₈₈, 11, 3, 14; 2000 DU₈₈, 6, 2, 7; 2000 DV₈₈, 9, 3, 14; 2000 DW₈₈, 9, 3, 6, 2; 2000 DX₈₈, 6, 2, 7; 2000 DY₈₈, 9, 3, 12; 2000 DZ₈₈, 6, 2, 7; 2000 DA₈₉, 9, 3, 15; 2000 DB₈₉, 6, 2, 7; 2000 DC₈₉, 15, 5, 14; 2000 DD₈₉, 9, 3, 15; 2000 DE₈₉, 15, 5, 15; 2000 DF₈₉, 9, 3, 15; 2000 DG₈₉, 6, 2, 6; 2000 DH₈₉, 6, 2, 7; 2000 DJ₈₉, 6, 2, 7; 2000 DK₈₉, 6, 2, 6; 2000 DL₈₉, 6, 2, 6; 2000 DM₈₉, 6, 2, 6; 2000 DN₈₉, 6, 2, 6; 2000 DO₈₉, 9, 3, 14; 2000 DP₈₉, 6, 2, 6; 2000 DQ₈₉, 6, 2, 6; 2000 DR₈₉, 9, 3, 15; 2000 DS₈₉, 6, 2, 7; 2000 DT₈₉, 6, 2, 6; 2000 DU₈₉, 6, 2, 5; 2000 DV₈₉, 6, 2, 5; 2000 DW₈₉, 6, 2, 5; 2000 DX₈₉, 6, 2, 5; 2000 DY₈₉, 9, 3, 11; 2000 DZ₈₉, 6, 2, 5; 2000 DA₉₀, 6, 2, 5; 2000 DB₉₀, 6, 2, 5; 2000 DC₉₀, 9, 3, 11; 2000 DD₉₀, 12, 4, 16; 2000 DE₉₀, 6, 2, 5; 2000 DF₉₀, 6, 2, 5; 2000 DG₉₀, 6, 2, 5; 2000 DH₉₀, 6, 2, 5; 2000 DJ₉₀, 6, 2, 5; 2000 DK₉₀, 12, 4, 16; 2000 DL₉₀, 6, 2, 5; 2000 DM₉₀, 6, 2, 5; 2000 DN₉₀, 6, 2, 5; 2000 DO₉₀, 6, 2, 5; 2000 DP₉₀, 6, 2, 5; 2000 DQ₉₀, 6, 2, 5; 2000 DR₉₀, 6, 2, 5; 2000 DS₉₀, 6, 2, 5; 2000 DT₉₀, 6, 2, 5; 2000 DU₉₀, 6, 2, 5; 2000 DV₉₀, 12, 4, 16; 2000 DW₉₀, 6, 2, 5; 2000 DX₉₀, 6, 2, 5; 2000 DY₉₀, 9, 3, 11; 2000 DZ₉₀, 6, 2, 5; 2000 DA₉₁, 6, 2, 5; 2000 DB₉₁, 12, 4, 14; 2000 DC₉₁, 6, 2, 5; 2000 DD₉₁, 6, 2, 5; 2000 DE₉₁, 6, 2, 5; 2000 DF₉₁, 6, 2, 5; 2000 DG₉₁, 9, 3, 14; 2000 DH₉₁, 12, 4, 12; 2000 DJ₉₁, 15, 5, 13; 2000 DK₉₁, 6, 2, 6; 2000 DL₉₁, 6, 2, 6; 2000 DM₉₁, 12, 4, 11; 2000 DN₉₁, 9, 3, 10; 2000 DO₉₁, 6, 2, 6; 2000 DP₉₁, 6, 2, 6; 2000 DQ₉₁, 6, 2, 6; 2000 DR₉₁, 9, 3, 10; 2000 DS₉₁, 9, 3, 11; 2000 DT₉₁, 9, 3, 10; 2000 DU₉₁, 6, 2, 6; 2000 DV₉₁, 6, 2, 6; 2000 DW₉₁, 6, 2, 6; 2000 DX₉₁, 6, 2, 6; 2000 DY₉₁, 6, 2, 6; 2000 DZ₉₁, 6, 2, 6; 2000 DA₉₂, 6, 2, 6; 2000 DB₉₂, 6, 2, 5; 2000 DC₉₂, 6, 2, 5; 2000 DD₉₂, 6, 2, 5; 2000 DE₉₂, 6, 2, 5; 2000 DF₉₂, 6, 2, 5; 2000 DG₉₂, 6, 2, 5; 2000 DH₉₂, 6, 2, 5; 2000 DJ₉₂, 6, 2, 5; 2000 DK₉₂, 6, 2, 5; 2000 DL₉₂, 6, 2, 5; 2000 DM₉₂, 6, 2, 5; 2000 DN₉₂, 6, 2, 5; 2000 DO₉₂, 6, 2, 5; 2000 DP₉₂, 6, 2, 5; 2000 DQ₉₂, 6, 2, 5; 2000 DR₉₂, 6, 2, 5; 2000 DS₉₂, 6, 2, 5; 2000 DT₉₂, 6, 2, 5; 2000 DU₉₂, 6, 2, 5; 2000 DV₉₂, 6, 2, 5; 2000 DW₉₂, 6, 2, 6; 2000 DH₉₆, 3, 1, 0; 2000 DK₉₆, 3, 1, 0; 2000 DO₉₆, 6, 2, 12; 2000 DF₉₇, 6, 2, 3; 2000 DG₉₇, 6, 2, 1; 2000 DL₉₇, 6, 2, 3; 2000 DG₁₀₅, 9, 3, 18; 2000 DH₁₀₅, 3, 1, 0; 2000 DL₁₀₅, 2, 1, 0; 2000 DO₁₀₈, 3, 1, 0; 2000 DZ₁₀₉, 6, 2, 1; 2000 DB₁₁₀, 3, 1, 0; 2000 EA₁₈, 5, 12; 2000 EG₃, 1, 0; 2000 EH₃, 6, 2, 1; 2000 EJ₃, 6, 2, 1; 2000 EK₃, 1, 0; 2000 EB₁, 3, 1, 0; 2000 EC₁, 9, 3, 11; 2000 ED₁, 6, 2, 3; 2000 EE₁, 3, 1, 0; 2000 EG₁, 3, 1, 0; 2000 EJ₁, 6, 2, 6; 2000 EK₁, 6, 2, 8; 2000 EG₂, 3, 1, 0; 2000 EH₂, 3, 1, 0; 2000 ES₂, 3, 1, 0; 2000 ET₂, 9, 3, 14; 2000 EU₂, 6, 2, 9; 2000 EV₂, 3, 1, 0; 2000 EY₂, 6, 2, 9; 2000 EZ₂, 3, 1, 0; 2000 EE₃, 3, 1, 0;

2000 EF₃, 6, 2, 3; 2000 EU₃, 3, 1, 0; 2000 EJ₄, 12, 3, 9; 2000 EK₄, 12, 4, 10; 2000 EL₄, 15, 4, 10; 2000 EM₄, 6, 2, 2; 2000 EN₄, 6, 2, 2; 2000 EO₄, 12, 3, 7; 2000 EP₄, 6, 2, 2; 2000 EQ₄, 12, 4, 8; 2000 ER₄, 9, 3, 10; 2000 ES₄, 6, 2, 1; 2000 ET₄, 9, 3, 10; 2000 EU₄, 12, 4, 8; 2000 EV₄, 6, 2, 2; 2000 EW₄, 9, 3, 7; 2000 EX₄, 12, 4, 10; 2000 EY₄, 6, 2, 2; 2000 EZ₄, 6, 2, 2; 2000 EA₅, 6, 2, 2; 2000 EB₅, 6, 2, 2; 2000 EC₅, 6, 2, 2; 2000 ED₅, 6, 2, 2; 2000 EE₅, 6, 2, 2; 2000 EF₅, 6, 2, 2; 2000 EG₅, 6, 2, 2; 2000 EH₅, 6, 2, 2; 2000 EJ₅, 9, 3, 13; 2000 EK₅, 6, 2, 2; 2000 EL₅, 6, 2, 2; 2000 EM₅, 6, 2, 2; 2000 EN₅, 6, 2, 2; 2000 EO₅, 6, 2, 2; 2000 EP₅, 6, 2, 2; 2000 EQ₅, 9, 3, 13; 2000 ER₅, 6, 2, 2; 2000 ES₅, 6, 2, 1; 2000 ET₅, 9, 3, 10; 2000 EU₅, 6, 2, 1; 2000 EV₅, 6, 2, 1; 2000 EW₅, 6, 2, 1; 2000 EX₅, 6, 2, 1; 2000 EY₅, 6, 2, 1; 2000 EZ₅, 6, 2, 1; 2000 EA₆, 6, 2, 1; 2000 EB₆, 6, 2, 1; 2000 EC₆, 6, 2, 1; 2000 ED₆, 6, 2, 1; 2000 EE₆, 6, 2, 1; 2000 EF₆, 6, 2, 1; 2000 EG₆, 6, 2, 1; 2000 EH₆, 6, 2, 1; 2000 EJ₆, 6, 2, 1; 2000 EK₆, 6, 2, 1; 2000 EL₆, 6, 2, 1; 2000 EM₆, 6, 2, 1; 2000 EN₆, 6, 2, 1; 2000 EO₆, 6, 2, 1; 2000 EP₆, 6, 2, 1; 2000 EQ₆, 6, 2, 1; 2000 ER₆, 6, 2, 1; 2000 ES₆, 6, 2, 1; 2000 ET₆, 6, 2, 1; 2000 EU₆, 6, 2, 1; 2000 EV₆, 6, 2, 1; 2000 EW₆, 6, 2, 1; 2000 EX₆, 6, 2, 1; 2000 EY₆, 6, 2, 1; 2000 EZ₆, 6, 2, 1; 2000 EA₇, 6, 2, 1; 2000 EB₇, 30, 9, 19; 2000 EC₇, 6, 2, 1; 2000 ED₇, 12, 4, 7; 2000 EE₇, 6, 2, 1; 2000 EF₇, 6, 2, 1; 2000 EG₇, 6, 2, 1; 2000 EH₇, 6, 2, 1; 2000 EJ₇, 6, 2, 1; 2000 EK₇, 9, 3, 9; 2000 EL₇, 9, 3, 9; 2000 EM₇, 12, 4, 7; 2000 EN₇, 18, 6, 12; 2000 EO₇, 15, 5, 9; 2000 EP₇, 9, 3, 12; 2000 EQ₇, 12, 4, 9; 2000 EH₈, 3, 1, 0; 2000 EK₈, 3, 1, 0; 2000 EN₈, 6, 1, 0; 2000 EP₈, 3, 1, 0; 2000 ER₈, 3, 1, 0; 2000 ES₉, 3, 1, 0; 2000 ET₉, 3, 1, 0; 2000 EV₉, 6, 2, 2; 2000 EX₉, 12, 3, 4; 2000 EY₉, 9, 3, 2; 2000 EZ₉, 11, 4, 14; 2000 EA₁₀, 9, 3, 5; 2000 ER₁₀, 9, 3, 2; 2000 EH₁₄, 6, 2, 3; 2000 EJ₁₄, 6, 2, 1; 2000 EA₁₅, 3, 1, 0; 2000 EQ₁₅, 12, 3, 6; 2000 ER₁₅, 6, 2, 1; 2000 ES₁₅, 6, 2, 1; 2000 ET₁₅, 9, 2, 1; 2000 EU₁₅, 6, 2, 1; 2000 EV₁₅, 6, 2, 1; 2000 EW₁₅, 6, 2, 1; 2000 EX₁₅, 12, 3, 6; 2000 EY₁₅, 9, 3, 6; 2000 EZ₁₅, 9, 3, 7; 2000 EA₁₆, 9, 3, 9; 2000 EB₁₆, 6, 2, 1; 2000 EC₁₆, 6, 2, 1; 2000 ED₁₆, 6, 2, 1; 2000 EE₁₆, 6, 2, 1; 2000 EF₁₆, 6, 2, 4; 2000 EG₁₆, 18, 5, 10; 2000 EW₁₆, 6, 2, 1; 2000 EX₁₆, 6, 1, 0; 2000 ED₂₂, 6, 2, 7; 2000 EE₂₂, 6, 2, 6; 2000 EF₂₂, 6, 2, 6; 2000 EG₂₂, 6, 2, 6; 2000 EH₂₂, 9, 3, 11; 2000 EJ₂₂, 6, 2, 6; 2000 EK₂₂, 6, 2, 6; 2000 EL₂₂, 6, 2, 6; 2000 EM₂₂, 6, 2, 6; 2000 EN₂₂, 6, 2, 6; 2000 EO₂₂, 6, 2, 6; 2000 EP₂₂, 6, 2, 6; 2000 EQ₂₂, 6, 2, 6; 2000 ER₂₂, 6, 2, 6; 2000 ES₂₂, 9, 3, 8; 2000 ET₂₂, 6, 2, 6; 2000 EU₂₂, 6, 2, 6; 2000 EV₂₂, 6, 2, 6; 2000 EW₂₂, 9, 3, 11; 2000 EX₂₂, 6, 2, 6; 2000 EY₂₂, 9, 3, 9; 2000 EZ₂₂, 15, 5, 12; 2000 EA₂₃, 9, 3, 9; 2000 EB₂₃, 9, 3, 9; 2000 EC₂₃, 12, 4, 11; 2000 ED₂₃, 9, 3, 7; 2000 EE₂₃, 6, 2, 6; 2000 EF₂₃, 12, 4, 16; 2000 EG₂₃, 6, 2, 6; 2000 EH₂₃, 9, 3, 9; 2000 EJ₂₃, 9, 3, 9; 2000 EK₂₃, 9, 2, 5; 2000 EL₂₃, 12, 3, 8; 2000 EM₂₃, 6, 2, 1; 2000 EN₂₃, 6, 2, 1; 2000 EO₂₃, 6, 2, 1; 2000 EP₂₃, 9, 3, 4; 2000 ER₂₃, 9, 3, 4; 2000 ES₂₃, 6, 2, 1; 2000 ET₂₃, 9, 3, 3; 2000 EU₂₃, 6, 2, 1; 2000 EV₂₃, 12, 4, 15; 2000 EW₂₃, 9, 3, 3; 2000 EX₂₃, 6, 2, 1; 2000 EY₂₃, 9, 3, 3; 2000 EZ₂₃, 6, 2, 1; 2000 EA₂₄, 6, 2, 1; 2000 EB₂₄, 6, 2, 1; 2000 EC₂₄, 6, 2, 1; 2000 ED₂₄, 6, 2, 1; 2000 EE₂₄, 9, 3, 3; 2000 EF₂₄, 9, 3, 3; 2000 EG₂₄, 6, 2, 1; 2000 EH₂₄, 6, 2, 1; 2000 EJ₂₄, 6, 2, 1; 2000 EK₂₄, 6, 2, 1; 2000 EL₂₄, 9, 3, 12; 2000 EM₂₄, 9, 3, 3; 2000 EN₂₄, 6, 2, 1; 2000 EO₂₄, 6, 2, 1; 2000 EP₂₄, 6, 2, 1; 2000 EQ₂₄, 6, 2, 1; 2000 ER₂₄, 6, 2, 1; 2000 ES₂₄, 6, 2, 1; 2000 ET₂₄, 6, 2, 1; 2000 EU₂₄, 6, 2, 1; 2000 EV₂₄, 6, 2, 1; 2000 EW₂₄, 9, 3, 3; 2000 EX₂₄, 6, 2, 1; 2000 EY₂₄, 9, 3, 3; 2000 EZ₂₄, 6, 2, 1; 2000 EA₂₅, 6, 2, 1; 2000 EB₂₅, 9, 3, 3; 2000 EC₂₅, 9, 3, 3; 2000 ED₂₅, 6, 2, 1; 2000 EE₂₅, 9, 3, 3; 2000 EF₂₅, 6, 2, 1; 2000 EG₂₅, 6, 2, 1; 2000 EH₂₅, 6, 2, 1; 2000 EJ₂₅, 6, 2, 1; 2000 EK₂₅, 6, 2, 1; 2000 EL₂₅, 9, 3, 3; 2000 EM₂₅, 6, 2, 1; 2000 EN₂₅, 9, 3, 3; 2000 EO₂₅, 6, 2, 1; 2000 EP₂₅, 6, 2, 1; 2000 EQ₂₅, 6, 2, 1; 2000 ER₂₅, 6, 2, 1; 2000 ES₂₅, 6, 2, 1; 2000 ET₂₅, 6, 2, 1; 2000 EU₂₅, 9, 3, 3; 2000 EV₂₅, 9, 3, 3; 2000 EW₂₅, 6, 2, 1; 2000 EX₂₅, 6, 2, 1; 2000 EY₂₅, 9, 3, 3; 2000 EZ₂₅, 9, 3, 3; 2000 EA₂₆, 9, 3, 3; 2000 EB<

2000 ED₅₃ *, 6, 2, 6; 2000 EE₅₃ *, 6, 2, 6; 2000 EF₅₃ *, 6, 2, 6; 2000 EG₅₃ *, 6, 2, 6; 2000 EH₅₃ *, 6, 2, 6; 2000 EJ₅₃ *, 6, 2, 6; 2000 EK₅₃ *, 6, 2, 6; 2000 EL₅₃ *, 6, 2, 3; 2000 EM₅₃ *, 6, 2, 3; 2000 EN₅₃ *, 6, 2, 3; 2000 EO₅₃ *, 6, 2, 3; 2000 EP₅₃ *, 6, 2, 3; 2000 EQ₅₃ *, 6, 2, 3; 2000 ER₅₃ *, 6, 2, 3; 2000 ES₅₃ *, 6, 2, 2; 2000 ET₅₃ *, 6, 2, 2; 2000 EU₅₃ *, 6, 2, 1; 2000 EV₅₃ *, 12, 4, 3; 2000 EW₅₃ *, 6, 2, 1; 2000 EX₅₃ *, 6, 2, 1; 2000 EY₅₃ *, 6, 2, 1; 2000 EZ₅₃ *, 6, 2, 1; 2000 EA₅₄ *, 6, 2, 1; 2000 EB₅₄ *, 6, 2, 1; 2000 EC₅₄ *, 6, 2, 2; 2000 ED₅₄ *, 6, 2, 2; 2000 EE₅₄ *, 6, 2, 2; 2000 EF₅₄ *, 6, 2, 2; 2000 EG₅₄ *, 6, 2, 1; 2000 EH₅₄ *, 6, 2, 1; 2000 EJ₅₄ *, 6, 2, 1; 2000 EK₅₄ *, 6, 2, 1; 2000 EL₅₄ *, 6, 2, 2; 2000 EM₅₄ *, 6, 2, 1; 2000 EN₅₄ *, 6, 2, 1; 2000 EO₅₄ *, 6, 2, 1; 2000 EP₅₄ *, 6, 2, 1; 2000 EQ₅₄ *, 6, 2, 1; 2000 ER₅₄ *, 6, 2, 1; 2000 ES₅₄ *, 6, 2, 1; 2000 ET₅₄ *, 6, 2, 1; 2000 EU₅₄ *, 6, 2, 1; 2000 EV₅₄ *, 6, 2, 1; 2000 EW₅₄ *, 6, 2, 1; 2000 EX₅₄ *, 6, 2, 1; 2000 EY₅₄ *, 6, 2, 1; 2000 EZ₅₄ *, 6, 2, 1; 2000 EA₅₅ *, 6, 2, 1; 2000 EB₅₅ *, 6, 2, 1; 2000 EC₅₅ *, 6, 2, 1; 2000 ED₅₅ *, 6, 2, 1; 2000 EE₅₅ *, 6, 2, 1; 2000 EF₅₅ *, 6, 2, 1; 2000 EG₅₅ *, 6, 2, 1; 2000 EH₅₅ *, 6, 2, 1; 2000 EJ₅₅ *, 6, 2, 1; 2000 EK₅₅ *, 6, 2, 1; 2000 EL₅₅ *, 6, 2, 1; 2000 EJ₅₆ *, 6, 2, 1; 2000 EU₅₆ *, 3, 1, 0; 2000 EV₅₆ *, 3, 1, 0; 2000 EY₅₆ *, 3, 1, 0; 2000 EA₆₇ *, 6, 2, 1; 2000 EX₆₈ *, 3, 1, 0; 2000 EA₆₉ *, 3, 1, 0; 2000 EA₇₁ *, 6, 2, 4; 2000 EB₇₁ *, 6, 2, 3; 2000 EC₇₁ *, 6, 2, 3; 2000 ED₇₁ *, 6, 2, 3; 2000 EE₇₁ *, 6, 2, 3; 2000 EF₇₁ *, 6, 2, 3; 2000 EG₇₁ *, 6, 2, 3; 2000 EH₇₁ *, 6, 2, 3; 2000 EJ₇₁ *, 6, 2, 3; 2000 EK₇₁ *, 6, 2, 3; 2000 EL₇₁ *, 6, 2, 3; 2000 EM₇₁ *, 6, 2, 3; 2000 EN₇₁ *, 6, 2, 3; 2000 EO₇₁ *, 6, 2, 3; 2000 EP₇₁ *, 6, 2, 3; 2000 EQ₇₁ *, 6, 2, 3; 2000 ER₇₁ *, 6, 2, 3; 2000 ES₇₁ *, 6, 2, 3; 2000 ET₇₁ *, 6, 2, 2; 2000 EU₇₁ *, 6, 2, 2; 2000 EV₇₁ *, 6, 2, 2; 2000 EW₇₁ *, 6, 2, 2; 2000 EX₇₁ *, 6, 2, 2; 2000 EY₇₁ *, 6, 2, 2; 2000 EZ₇₁ *, 6, 2, 2; 2000 EA₇₂ *, 6, 2, 2; 2000 EB₇₂ *, 6, 2, 2; 2000 EC₇₂ *, 6, 2, 2; 2000 ED₇₂ *, 6, 2, 2; 2000 EE₇₂ *, 6, 2, 2; 2000 EF₇₂ *, 6, 2, 2; 2000 EG₇₂ *, 6, 2, 2; 2000 EH₇₂ *, 6, 2, 2; 2000 EJ₇₂ *, 6, 2, 2; 2000 EK₇₂ *, 6, 2, 2; 2000 EL₇₂ *, 6, 2, 2; 2000 EM₇₂ *, 6, 2, 2; 2000 EN₇₂ *, 6, 2, 2; 2000 EO₇₂ *, 6, 2, 2; 2000 EP₇₂ *, 6, 2, 2; 2000 EQ₇₂ *, 6, 2, 2; 2000 ER₇₂ *, 6, 2, 2; 2000 ES₇₂ *, 6, 2, 2; 2000 ET₇₂ *, 6, 2, 2; 2000 EU₇₂ *, 6, 2, 2; 2000 EV₇₂ *, 6, 2, 2; 2000 EW₇₂ *, 6, 2, 2; 2000 EX₇₂ *, 6, 2, 2; 2000 EY₇₂ *, 6, 2, 2; 2000 EZ₇₂ *, 6, 2, 2; 2000 EA₇₃ *, 6, 2, 2; 2000 EB₇₃ *, 6, 2, 2; 2000 EC₇₃ *, 6, 2, 2; 2000 ED₇₃ *, 6, 2, 2; 2000 EE₇₃ *, 6, 2, 2; 2000 EF₇₃ *, 6, 2, 2; 2000 EG₇₃ *, 6, 2, 2; 2000 EH₇₃ *, 6, 2, 2; 2000 EJ₇₃ *, 6, 2, 2; 2000 EK₇₃ *, 6, 2, 2; 2000 EL₇₃ *, 6, 2, 2; 2000 EM₇₃ *, 6, 2, 2; 2000 EN₇₃ *, 9, 3, 4; 2000 EO₇₃ *, 9, 3, 4; 2000 EP₇₃ *, 9, 3, 4; 2000 EQ₇₃ *, 9, 3, 4; 2000 ER₇₃ *, 9, 3, 4; 2000 ES₇₃ *, 9, 3, 4; 2000 ET₇₃ *, 6, 2, 2; 2000 EU₇₃ *, 6, 2, 2; 2000 EV₇₃ *, 6, 2, 2; 2000 EW₇₃ *, 6, 2, 2; 2000 EX₇₃ *, 6, 2, 2; 2000 EY₇₃ *, 9, 3, 4; 2000 EZ₇₃ *, 9, 3, 4; 2000 EA₇₄ *, 9, 3, 4; 2000 EB₇₄ *, 6, 2, 2; 2000 EC₇₄ *, 6, 2, 2; 2000 ED₇₄ *, 6, 2, 2; 2000 EE₇₄ *, 6, 2, 2; 2000 EF₇₄ *, 6, 2, 2; 2000 EG₇₄ *, 6, 2, 2; 2000 EH₇₄ *, 6, 2, 2; 2000 EJ₇₄ *, 6, 2, 2; 2000 EK₇₄ *, 6, 2, 2; 2000 EL₇₄ *, 6, 2, 2; 2000 EM₇₄ *, 6, 2, 2; 2000 EN₇₄ *, 6, 2, 2; 2000 EO₇₄ *, 6, 2, 2; 2000 EP₇₄ *, 6, 2, 2; 2000 EQ₇₄ *, 6, 2, 1; 2000 ER₇₄ *, 6, 2, 1; 2000 ES₇₄ *, 9, 3, 4; 2000 ET₇₄ *, 6, 2, 1; 2000 EU₇₄ *, 6, 2, 1; 2000 EV₇₄ *, 6, 2, 1; 2000 EW₇₄ *, 6, 2, 1; 2000 EX₇₄ *, 6, 2, 1; 2000 EY₇₄ *, 6, 2, 1; 2000 EZ₇₄ *, 6, 2, 1; 2000 EA₇₅ *, 6, 2, 1; 2000 EB₇₅ *, 6, 2, 1; 2000 ES₈₁ *, 3, 1, 0; 2000 EV₈₁ *, 3, 1, 0; 2000 EA₉₆ *, 3, 1, 0; 2000 EC₉₈ *, 15, 5, 11; 2000 ED₉₈ *, 6, 2, 2; 2000 EE₉₈ *, 6, 2, 5; 2000 EF₉₈ *, 6, 2, 5; 2000 EG₉₈ *, 6, 2, 5; 2000 EH₉₈ *, 6, 2, 5; 2000 EJ₉₈ *, 6, 2, 5; 2000 EK₉₈ *, 6, 2, 5; 2000 EL₉₈ *, 6, 2, 5; 2000 EM₉₈ *, 6, 2, 5; 2000 EN₉₈ *, 6, 2, 5; 2000 EO₉₈ *, 6, 2, 5; 2000 EP₉₈ *, 6, 2, 5; 2000 EQ₉₈ *, 6, 2, 5; 2000 ER₉₈ *, 6, 2, 5; 2000 ES₉₈ *, 6, 2, 4; 2000 EU₉₈ *, 6, 2, 4; 2000 EV₉₈ *, 6, 2, 4; 2000 EW₉₈ *, 6, 2, 4; 2000 EX₉₈ *, 6, 2, 4; 2000 EY₉₈ *, 6, 2, 4; 2000 EZ₉₈ *, 6, 2, 4; 2000 EA₉₉ *, 6, 2, 4; 2000 EB₉₉ *, 6, 2, 4; 2000 EC₉₉ *, 6, 2, 3; 2000 ED₉₉ *, 6, 2, 2; 2000 EE₉₉ *, 6, 2, 2; 2000 EF₉₉ *, 6, 2, 2; 2000 EG₉₉ *, 6, 2, 2; 2000 EH₉₉ *, 6, 2, 2; 2000 EI₉₉ *, 6, 2, 2; 2000 EJ₉₉ *, 6, 2, 2; 2000 EK₉₉ *, 6, 2, 2; 2000 EL₉₉ *, 6, 2, 2; 2000 EM₉₉ *, 6, 2, 2; 2000 EN₉₉ *, 6, 2, 2; 2000 EO₉₉ *, 6, 2, 2; 2000 EP₉₉ *, 6, 2, 2; 2000 EQ₉₉ *, 6, 2, 2; 2000 ER₉₉ *, 6, 2, 2; 2000 ES₉₉ *, 6, 2, 2; 2000 ET₉₉ *, 6, 2, 2; 2000 EU₉₉ *, 6, 2, 2; 2000 EV₉₉ *, 6, 2, 2; 2000 EW₉₉ *, 6, 2, 2; 2000 EX₉₉ *, 6, 2, 2; 2000 EY₉₉ *, 6, 2, 2; 2000 EZ₉₉ *, 6, 2, 2; 2000 EA₁₀₀ *, 6, 2, 2; 2000 EB₁₀₀ *, 6, 2, 2; 2000 EC₁₀₀ *, 6, 2, 2; 2000 ED₁₀₀ *, 6, 2, 2; 2000 EE₁₀₀ *, 6, 2, 2; 2000 EF₁₀₀ *, 6, 2, 2; 2000 EG₁₀₀ *, 6, 2, 2; 2000 EH₁₀₀ *, 6, 2, 2; 2000 EJ₁₀₀ *, 6, 2, 2; 2000 EK₁₀₀ *, 6, 2, 2; 2000 EL₁₀₀ *, 6, 2, 2; 2000 EM₁₀₀ *, 6, 2, 2; 2000 EN₁₀₀ *, 6, 2, 2; 2000 EO₁₀₀ *, 6, 2, 2; 2000 EP₁₀₀ *, 6, 2, 2; 2000 EQ₁₀₀ *, 9, 2, 2; 2000 ER₁₀₀ *, 6, 2, 2; 2000 ES₁₀₀ *, 6, 2, 2; 2000 ET₁₀₀ *, 6, 2, 2; 2000 EU₁₀₀ *, 6, 2, 2; 2000 EV₁₀₀ *, 6, 2, 2; 2000 EW₁₀₀ *, 6, 2, 2; 2000 EX₁₀₀ *, 6, 2, 2; 2000 EY₁₀₀ *, 6, 2, 2; 2000 EZ₁₀₀ *, 6, 2, 2; 2000 EA₁₀₁ *, 6, 2, 2; 2000 EB₁₀₁ *, 6, 2, 2; 2000 EC₁₀₁ *, 6, 2, 2; 2000 ED₁₀₁ *, 6, 2, 2; 2000 EF₁₀₁ *, 6, 2, 7; 2000 EG₁₀₁ *, 6, 2, 7; 2000 EH₁₀₁ *, 6, 2, 7; 2000 EI₁₀₁ *, 6, 2, 6; 2000 EK₁₀₁ *, 6, 2, 3; 2000 EL₁₀₁ *, 9, 2, 3; 2000 EM₁₀₁ *, 9, 2, 3; 2000 EN₁₀₁ *, 9, 2, 3; 2000 EO₁₀₁ *, 6, 2, 3; 2000 EP₁₀₁ *, 6, 2, 3; 2000 EQ₁₀₁ *, 6, 2, 1; 2000 ER₁₀₁ *, 6, 2, 1; 2000 ES₁₀₁ *, 6, 2, 1; 2000 ET₁₀₁ *, 12, 2, 3; 2000 EU₁₀₁ *, 6, 2, 1; 2000 EV₁₀₁ *, 9, 2, 1; 2000 EW₁₀₁ *, 6, 2, 1; 2000 EX₁₀₁ *, 6, 2, 1; 2000 EY₁₀₁ *, 6, 2, 1; 2000 EZ₁₀₁ *, 12, 2, 1; 2000 EA₁₀₂ *, 9, 2, 1; 2000 EB₁₀₂ *, 6, 2, 1; 2000 EC₁₀₂ *, 6, 2, 1; 2000 ED₁₀₂ *, 9, 2, 1; 2000 EE₁₀₂ *, 6, 2, 1; 2000 EF₁₀₂ *, 9, 2, 1; 2000 EG₁₀₂ *, 6, 2, 1; 2000 EH₁₀₂ *, 6, 2, 1; 2000 EI₁₀₂ *, 6, 2, 1; 2000 EJ₁₀₂ *, 6, 2, 1; 2000 EK₁₀₂ *, 6, 2, 1; 2000 EL₁₀₂ *, 9, 2, 1; 2000 EM₁₀₂ *, 6, 2, 1; 2000 EN₁₀₂ *, 6, 2, 1; 2000 EO₁₀₂ *, 6, 2, 1; 2000 EP₁₀₂ *, 6, 2, 1; 2000 EQ₁₀₂ *, 6, 2, 1; 2000 ER₁₀₂ *, 6, 2, 1; 2000 ES₁₀₂ *, 6, 2, 1; 2000 ET₁₀₂ *, 6, 2, 1; 2000 EU₁₀₂ *, 6, 2, 1; 2000 EV₁₀₂ *, 6, 2, 1; 2000 EW₁₀₂ *, 6, 2, 1; 2000 EX₁₀₂ *, 6, 2, 1; 2577 P-L, 6, 2, 12; 2589 P-L, 6, 2, 10; 2591 P-L, 6, 2, 2; 2688 P-L, 3, 1, 0; 2796 P-L, 6, 2, 14; 2861 P-L, 3, 1, 0; 4597 P-L, 3, 1, 0; 4602 P-L, 12, 4, 14; 4648 P-L, 3, 1, 0;

4800 P-L, 3, 1, 0; 4806 P-L, 6, 2, 6; 9097 P-L, 6, 2, 1; 1148 T-1, 3, 1, 0; 2175 T-1, 3, 1, 0; 3306 T-1, 3, 1, 0; 1044 T-2, 3, 1, 0; 1187 T-2, 3, 1, 0; 2124 T-2, 3, 1, 0; 2244 T-2, 15, 5, 16; 1182 T-3, 6, 2, 2; 3149 T-3, 6, 2, 2; (217), 9, 3, 5; (301), 3, 1, 0; (330), 3, 1, 0; (333), 3, 1, 0; (633), 6, 2, 5; (670), 3, 1, 0; (710), 6, 2, 17; (731), 6, 2, 1; (765), 3, 1, 0; (848), 3, 1, 0; (1100), 3, 1, 0; (1106), 6, 2, 9; (1240), 3, 1, 0; (1394), 12, 3, 6; (1477), 3, 1, 0; (1536), 6, 2, 1; (1576), 6, 2, 2; (1645), 3, 1, 0; (1686), 6, 2, 13; (1707), 3, 1, 0; (1710), 3, 1, 0; (1759), 6, 2, 5; (1769), 6, 2, 2; (1874), 6, 2, 1; (1939), 6, 2, 1; (2001), 3, 1, 0; (2097), 9, 3, 12; (2110), 3, 1, 0; (2123), 3, 1, 0; (2166), 3, 1, 0; (2173), 6, 2, 2; (2242), 12, 4, 11; (2294), 3, 1, 0; (2377), 9, 3, 11; (2405), 6, 2, 8; (2441), 3, 1, 0; (2466), 9, 3, 5; (2498), 21, 7, 19; (2528), 3, 1, 0; (2533), 9, 3, 3; (2567), 6, 2, 6; (2785), 6, 2, 12; (2918), 6, 2, 8; (2953), 3, 1, 0; (2969), 6, 2, 7; (2994), 3, 1, 0; (2998), 3, 1, 0; (3101), 3, 1, 0; (3330), 3, 1, 0; (3350), 3, 1, 0; (3370), 3, 1, 0; (3499), 15, 4, 10; (3584), 3, 1, 0; (3588), 9, 3, 7; (3634), 9, 3, 10; (3656), 3, 1, 0; (3681), 3, 1, 0; (3695), 3, 1, 0; (3705), 6, 2, 10; (3898), 6, 2, 2; (4193), 3, 1, 0; (4285), 6, 2, 2; (4294), 3, 1, 0; (4589), 3, 1, 0; (4655), 3, 1, 0; (4932), 3, 1, 0; (5055), 9, 3, 10; (5287), 3, 1, 0; (5428), 3, 1, 0; (5429), 6, 2, 1; (5560), 3, 1, 0; (5586), 3, 1, 0; (5600), 6, 2, 1; (5631), 3, 1, 0; (5808), 6, 2, 12; (6018), 3, 1, 0; (6167), 18, 5, 19; (6180), 3, 1, 0; (6273), 3, 1, 0; (6276), 9, 3, 3; (6284), 15, 5, 10; (6351), 6, 2, 4; (6437), 3, 1, 0; (6737), 3, 1, 0; (6844), 3, 1, 0; (6904), 18, 6, 19; (6914), 6, 2, 9; (6965), 6, 2, 2; (7013), 3, 1, 0; (7400), 6, 2, 2; (7571), 3, 1, 0; (7709), 3, 1, 0; (7714), 3, 1, 0; (7715), 3, 1, 0; (7732), 6, 2, 2; (7759), 6, 2, 1; (7817), 3, 1, 0; (7848), 6, 2, 10; (7852), 3, 1, 0; (7863), 3, 1, 0; (7902), 6, 2, 5; (7944), 9, 3, 11; (7968), 3, 1, 0; (7991), 9, 3, 10; (8001), 6, 2, 10; (8076), 3, 1, 0; (8095), 3, 1, 0; (8203), 3, 1, 0; (8317), 3, 1, 0; (9011), 3, 1, 0; (9160), 3, 1, 0; (9198), 3, 1, 0; (9283), 6, 2, 2; (9288), 3, 1, 0; (9311), 3, 1, 0; (9350), 6, 2, 7; (9415), 3, 1, 0; (9523), 3, 1, 0; (9567), 6, 2, 3; (9579), 6, 2, 6; (9623), 3, 1, 0; (9624), 6, 2, 5; (9655), 6, 2, 1; (9663), 3, 1, 0; (9669), 3, 1, 0; (9695), 6, 2, 1; (9696), 9, 2, 1; (9716), 3, 1, 0; (9751), 6, 2, 6; (9763), 6, 2, 1; (9825), 9, 3, 15; (9853), 3, 1, 0; (9882), 3, 1, 0; (9890), 9, 3, 10; (9904), 6, 2, 2; (10006), 6, 2, 1; (10010), 3, 1, 0; (10030), 3, 1, 0; (10116), 24, 7, 12; (10153), 3, 1, 0; (10247), 6, 2, 2; (10761), 3, 1, 0; (11334), 3, 1, 0; (12004), 3, 1, 0; (12548), 3, 1, 0; (12740), 3, 1, 0; (12849), 3, 1, 0; (12999), 3, 1, 0; (13022), 3, 1, 0; (13096), 3, 1, 0; (13115), 15, 5, 19; (13207), 6, 2, 6; (13382), 6, 2, 3; (13483), 6, 2, 5; (13503), 3, 1, 0; (13534), 6, 2, 9; (13536), 9, 3, 11; (13590), 3, 1, 0; (13605), 3, 1, 0; (13636), 3, 1, 0; (13637), 3, 1, 0; (13669), 3, 1, 0; (13682), 6, 2, 8; (13689), 6, 2, 8; (13703), 3, 1, 0; (13765), 6, 2, 6; (13785), 6, 2, 5; (13804), 12, 4, 10; [11749, 1926, 832*, 1998/11/14–2000/03/15]

693 University of Arizona, Catalina Station

M. D. Hicks, Jet Propulsion Laboratory, MS 183-501, 4800 Oak Grove Drive, Pasadena, CA 91109, U.S.A. [hicks@scn1.jpl.nasa.gov]

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

Observers C. W. Hergenrother, M. Hicks, R. Fevig
1.54-m reflector + CCD

1997 GH₂₈, 2, 1, 0; 1998 PB₁, 6, 2, 2; 1998 XZ₄, 2, 1, 0; 1998 XN₁₇, 3, 1, 0; 1999 AP₁₀, 6, 2, 3; 1999 TB₁₀, 4, 1, 0; 1999 TK₁₂, 3, 1, 0; 1999 VS₆, 3, 1, 0; 1999 XS₃₅, 3, 1, 0; 2000 AC₆, 3, 1, 0; 2000 AF₆, 3, 1, 0; 2000 AD₂₀₅, 3, 1, 0; 2000 AE₂₀₅, 3, 1, 0; 2000 AG₂₀₅, 3, 1, 0; 2000 BK₂, 1, 0, 0; 2000 CA₁₃, 2, 1, 0; 2000 CK₃₃, 3, 1, 0; 2000 CL₃₃, 3, 1, 0; 2000 CH₅₉, 3, 1, 0; 2000 CQ₁₀₁, 3, 1, 0; 2000 DG₈, 3, 1, 0; [68, 22, 0*, 2000/02/27–2000/03/01]

695 Kitt Peak

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

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

Measurers M. W. Buie, R. L. Millis, J. L. Elliot, L. H. Wasserman, S. D. Kern
3.8-m reflector + CCD, 3.6-m WIYN reflector + CCD, 2.3-m Steward reflector + CCD

USNO-A2.0

1986 XT, 2, 1, 0; 1990 UK₅, 2, 1, 0; 1991 PF₅, 2, 1, 0; 1991 PP₈, 2, 1, 0; 1991 TK₈, 2, 1, 0; 1994 PS₁₀, 2, 1, 0; 1995 DA₂, 2, 1, 0; 1995 DB₂, 4, 2, 22; 1995 YY₅, 2, 1, 0; 1996 DL₁, 2, 1, 0; 1996 HM₂, 2, 1, 0; 1996 HL₂₀, 2, 1, 0; 1997 CT₂₉, 2, 1, 0; 1997 EF₃₂, 2, 1, 0; 1997 GC₁₅, 2, 1, 0; 1997 GC₃₃, 2, 1, 0; 1997 OZ, 2, 1, 0; 1998 BU₄₈, 5, 2, 25; 1998 MN₇, 2, 1, 0; 1998 OQ₁₁, 2, 1, 0; 1998 OU₁₂, 2, 1, 0; 1998 QK₁, 2, 1, 0; 1998 QY₅₀, 2, 1, 0; 1998 RL₆, 2, 1, 0; 1998 RU₆₅, 2, 1, 0; 1998 RB₇₄, 2, 1, 0; 1998 TH₂₉, 2, 1, 0; 1998 TV₃₀, 2, 1, 0; 1998 UC₃, 2, 1, 0; 1998 UO₆, 2, 1, 0; 1998 US₁₃, 2, 1, 0; 1998 VL₃, 2, 1, 0; 1998 VB₂₈, 2, 1, 0; 1998 VC₃₆, 2, 1, 0; 1999 TC₉, 2, 1, 0; 1999 UX₇, 2, 1, 0; 1999 VA₂₀, 2, 1, 0; 1999 VF₆₅, 2, 1, 0; 1999 XZ₂₁, 2, 1, 0; 1999 XU₃₃, 2, 1, 0; 1999 XG₄₀, 2, 1, 0; 1999 XF₀₁, 2,

2000 MAR. 20

M.P.C. 38983

1, 0; 1999 YK₁₇, 2, 1, 0; 2000 AB₂, 2, 1, 0; 2000 AM₅₆, 2, 1, 0; 2000 AN₅₆, 2, 1, 0; 2000 AC₆₂, 2, 1, 0; 2000 AM₆₂, 2, 1, 0; 2000 AT₆₃, 2, 1, 0; 2000 AZ₆₃, 2, 1, 0; 2000 AA₆₅, 2, 1, 0; 2000 AK₉₁, 2, 1, 0; 2000 AQ₉₆, 2, 1, 0; 2000 AF₉₇, 2, 1, 0; 2000 AK₁₂₄, 2, 1, 0; 2000 AL₁₂₄, 2, 1, 0; 2000 AF₁₂₉, 2, 1, 0; 2000 AD₁₄₄, 2, 1, 0; 2000 AK₁₆₂, 2, 1, 0; 2000 AF₁₆₄, 2, 1, 0; 2000 AJ₂₀₅, 2, 1, 0; 2000 AK₂₀₇, 2, 1, 0; 2000 AL₂₀₇, 2, 1, 0; 2000 AM₂₁₂, 2, 1, 0; 2000 AG₂₁₄, 2, 1, 0; 2000 AO₂₁₄, 2, 1, 0; 2000 AT₂₁₉, 2, 1, 0; 2000 AA₂₂₇, 2, 1, 0; 2000 BO₂, 2, 1, 0; 2000 BE₂, 2, 1, 0; 2000 BW₃, 2, 1, 0; 2000 BA₄, 2, 1, 0; 2000 BN₉, 2, 1, 0; 2000 BQ₉, 2, 1, 0; 2000 BA₁₀, 2, 1, 0; 2000 BB₁₀, 2, 1, 0; 2000 BE₁₀, 2, 1, 0; 2000 BJ₁₀, 2, 1, 0; 2000 BO₁₀, 2, 1, 0; 2000 BH₁₃, 2, 1, 0; 2000 BJ₁₃, 2, 1, 0; 2000 BG₁₇, 2, 1, 0; 2000 BH₁₇, 2, 1, 0; 2000 BS₁₈, 2, 1, 0; 2000 BT₁₈, 2, 1, 0; 2000 BB₂₀, 2, 1, 0; 2000 BG₂₀, 2, 1, 0; 2000 BK₂₀, 2, 1, 0; 2000 BL₂₀, 2, 1, 0; 2000 BM₂₀, 2, 1, 0; 2000 BO₂₀, 2, 1, 0; 2000 BS₂₀, 2, 1, 0; 2000 BQ₂₁, 2, 1, 0; 2000 BT₂₁, 2, 1, 0; 2000 BV₂₁, 2, 1, 0; 2000 BD₂₃, 2, 1, 0; 2000 BC₂₆, 2, 1, 0; 2000 BD₂₆, 2, 1, 0; 2000 BE₂₆, 2, 1, 0; 2000 BH₂₈, 2, 1, 0; 2000 CS₂, 2, 1, 0; 2000 CW₂, 2, 1, 0; 2000 CB₁, 2, 1, 0; 2000 CH₁, 2, 1, 0; 2000 CN₁, 4, 2, 1; 2000 CU₂, 2, 1, 0; 2000 CV₂₆, 2, 1, 0; 2000 CB₃₀, 2, 1, 0; 2000 CS₃₃, 4, 2, 1; 2000 CT₃₃, 2, 1, 0; 2000 CY₃₃, 2, 1, 0; 2000 CH₃₄, 2, 1, 0; 2000 CH₃₈, 2, 1, 0; 2000 CN₃₉, 2, 1, 0; 2000 CN₄₀, 2, 1, 0; 2000 CX₄₀, 2, 1, 0; 2000 CE₄₁, 2, 1, 0; 2000 CZ₅₅, 2, 1, 0; 2000 CE₅₆, 2, 1, 0; 2000 CW₆₄, 2, 1, 0; 2000 CL₆₈, 2, 1, 0; 2000 CN₆₈, 2, 1, 0; 2000 CP₆₈, 2, 1, 0; 2000 CS₆₈, 2, 1, 0; 2000 CU₆₈, 2, 1, 0; 2000 CV₆₈, 2, 1, 0; 2000 CW₆₈, 2, 1, 0; 2000 CU₆₉, 2, 1, 0; 2000 CV₆₉, 2, 1, 0; 2000 CW₆₉, 2, 1, 0; 2000 CO₇₃, 2, 1, 0; 2000 CP₇₃, 2, 1, 0; 2000 CQ₇₃, 2, 1, 0; 2000 CK₇₇, 2, 1, 0; 2000 CK₇₈, 2, 1, 0; 2000 CS₇₈, 2, 1, 0; 2000 CT₇₈, 2, 1, 0; 2000 CU₇₈, 2, 1, 0; 2000 CM₇₉, 2, 1, 0; 2000 CP₇₉, 2, 1, 0; 2000 CK₈₀, 2, 1, 0; 2000 CZ₈₀, 2, 1, 0; 2000 CU₈₁, 2, 1, 0; 2000 CX₈₁, 2, 1, 0; 2000 CY₈₁, 2, 1, 0; 2000 CB₈₂, 2, 1, 0; 2000 CS₈₂, 2, 1, 0; 2000 CE₈₇, 2, 1, 0; 2000 CT₈₇, 2, 1, 0; 2000 CU₈₇, 2, 1, 0; 2000 CE₈₈, 2, 1, 0; 2000 CZ₈₉, 2, 1, 0; 2000 CH₉₀, 2, 1, 0; 2000 CJ₉₀, 2, 1, 0; 2000 CF₁₀₀, 2, 1, 0; 2000 CG₁₀₀, 2, 1, 0; 2000 CQ₁₀₀, 2, 1, 0; 2000 CX₁₀₂, 2, 1, 0; 2000 CL₁₀₄ *, 4, 2, 25; 2000 CM₁₀₄ *, 4, 2, 22; 2000 CN₁₀₄ *, 4, 2, 25; 2000 CO₁₀₄ *, 4, 2, 21; 2000 CP₁₀₄ *, 6, 2, 21; 2000 CQ₁₀₄ *, 6, 2, 21; 2000 CR₁₀₄ *, 4, 2, 1; 2000 CS₁₀₄ *, 4, 2, 1; 2000 CT₁₀₄ *, 4, 2, 1; 2000 CU₁₀₄ *, 4, 2, 1; 2000 CV₁₀₄ *, 4, 2, 1; 2000 CW₁₀₄ *, 4, 2, 1; 2000 CX₁₀₄ *, 4, 2, 1; 2000 CY₁₀₄ *, 4, 2, 1; 2000 CZ₁₀₄ *, 4, 2, 1; 2000 CA₁₀₅ *, 4, 2, 1; 2000 CB₁₀₅ *, 4, 2, 1; 2000 CC₁₀₅ *, 4, 2, 1; 2000 CD₁₀₅ *, 4, 2, 1; 2000 CE₁₀₅ *, 4, 2, 21; 2000 CF₁₀₅ *, 4, 2, 25; 2000 CG₁₀₅ *, 4, 2, 22; 2000 CH₁₀₅ *, 4, 2, 25; 2000 CJ₁₀₅ *, 5, 2, 25; 2000 CK₁₀₅ *, 4, 2, 20; 2000 CL₁₀₅ *, 4, 2, 21; 2000 CM₁₀₅ *, 5, 2, 24; 2000 CN₁₀₅ *, 8, 3, 24; 2000 CO₁₀₅ *, 4, 2, 21; 2000 CP₁₀₅ *, 4, 2, 21; 2000 CQ₁₀₅ *, 4, 2, 25; 2000 CR₁₀₅ *, 4, 2, 21; 2000 CS₁₀₅ *, 4, 2, 24; 2000 CT₁₀₅ *, 4, 2, 1; 2000 CU₁₀₅ *, 4, 2, 1; 2000 DJ₃, 2, 1, 0; 2000 DB₁₀, 2, 1, 0; 2000 DK₁₀, 4, 2, 1; 2000 DG₁₁, 2, 1, 0; 2000 DJ₁₁, 4, 1, 0; 2000 DR₁₁, 4, 1, 0; 2000 DB₁₈, 2, 1, 0; 2000 DV₂₂, 4, 2, 1; 2000 DN₂₄, 2, 1, 0; 2000 DU₂₄, 2, 1, 0; 2000 DC₂₅, 2, 1, 0; 2000 DT₂₆, 2, 1, 0; 2000 DB₂₉, 2, 1, 0; 2000 DO₄₀, 2, 1, 0; 2000 DW₄₀, 2, 1, 0; 2000 DE₄₁, 2, 1, 0; 2000 DA₄₂, 2, 1, 0; 2000 DD₄₂, 2, 1, 0; 2000 DR₄₂, 2, 1, 0; 2000 DT₄₂, 2, 1, 0; 2000 DU₄₂, 2, 1, 0; 2000 DX₄₄, 2, 1, 0; 2000 DC₄₇, 2, 1, 0; 2000 DU₇₉, 2, 1, 0; 2000 DC₈₉, 2, 1, 0; 2000 DC₉₂, 4, 1, 0; 2000 DL₉₇, 2, 1, 0; 2000 DH₁₀₃, 2, 1, 0; 2000 EN₈, 2, 1, 0; 2000 EV₁₃, 3, 1, 0; 2000 ER₁₈, 2, 1, 0; 2000 EY₁₈, 2, 1, 0; 2000 ES₂₂, 2, 1, 0; 2000 EW₂₂, 2, 1, 0; 2000 EB₅₆, 2, 1, 0; 2000 ES₇₇, 2, 1, 0; 2000 EN₇₈, 2, 1, 0; 2000 P-L, 2, 1, 0; 1180 T-1, 2, 1, 0; 1259 T-2, 2, 1, 0; 3161 T-2, 2, 1, 0; (636), 2, 1, 0; (809), 2, 1, 0; (1358), 2, 1, 0; (1477), 2, 1, 0; (1860), 2, 1, 0; (3634), 2, 1, 0; (4294), 2, 1, 0; (5002), 2, 1, 0; (5110), 2, 1, 0; (5554), 2, 1, 0; (5730), 2, 1, 0; (6301), 2, 1, 0; (6416), 2, 1, 0; (6980), 2, 1, 0; (7400), 2, 1, 0; (7488), 2, 1, 0; (7584), 2, 1, 0; (7970), 2, 1, 0; (9241), 2, 1, 0; (9514), 2, 1, 0; (9540), 2, 1, 0; (9589), 2, 1, 0; (9624), 2, 1, 0; (9629), 2, 1, 0; (9785), 2, 1, 0; (12749), 2, 1, 0; (12909), 2, 1, 0; (12969), 2, 1, 0; (13349), 2, 1, 0; (13688), 2, 1, 0; (13741), 2, 1, 0; (13760), 2, 1, 0; (13844), 2, 1, 0; (13881), 2, 1, 0; [660, 279, 35*, 2000/02/05-2000/03/01]

696 F. L. Whipple Observatory, Mount Hopkins

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

1.2-m $f/8$ reflector + CCD

USNO-A1.0

1998 QX₉₈, 3, 1, 0; [3, 1, 0*, 1998/06/19]

697 Kitt Peak, McGraw-Hill Observatory

J. Wm. Parker, SwRI, 1050 Walnut Street, Boulder, CO 80302, USA
[joel@boulder.swri.edu]

Observers J. Wm. Parker, R. L. Allen

Measurer J. Wm. Parker

2.4-m Hiltner Telescope + CCD

USNO-A2.0

1994 JS, 7, 4, 3; 1994 JQ₁, 3, 2, 2; 1994 JR₁, 2, 1, 0; 1995 HM₅, 2, 1, 0; 1996 KV₁, 2, 1, 0; 1998 HK₁₅₁, 3, 2, 1; 1998 HQ₁₅₁, 2, 1, 0; 1998 KG₆₂, 8, 4, 3; 1998 KR₆₅, 3, 2, 2; 1999 HU₁₁, 2, 1, 0; 1999 HJ₁₂, 6, 3, 3; 1999 KT₁₈ *, 6, 2, 1; [46, 12, 1*, 1999/05/21-1999/05/24]

699 Lowell Observatory-LONEOS

E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff AZ 86001,
U.S.A. [elgb@lowell.edu]

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

Measurer B. W. Koehn

0.59-m LONEOS Schmidt + CCD

USNO-A2.0

1976 QA, 4, 1, 0; 1977 EL₅, 4, 1, 0; 1977 RS₁₇, 4, 1, 0; 1978 PV₂, 4, 1, 0; 1978 PA₃, 4, 1, 0; 1978 RX₁, 4, 1, 0; 1978 RH₉, 8, 1, 0; 1978 UY₄, 4, 1, 0; 1978 VO₆, 4, 1, 0; 1978 VD₈, 4, 1, 0; 1978 VW₉, 4, 1, 0; 1979 SO, 4, 1, 0; 1981 EK₁, 4, 1, 0; 1981 EJ₁₁, 4, 1, 0; 1981 EC₁₄, 4, 1, 0; 1981 EB₂₃, 4, 1, 0; 1981 EH₂₈, 4, 1, 0; 1981 FP, 4, 1, 0; 1981 RW₄, 4, 1, 0; 1984 EQ, 4, 1, 0; 1984 WJ₁, 4, 1, 0; 1985 QP, 4, 1, 0; 1985 RM₃, 4, 1, 0; 1985 RN₃, 4, 1, 0; 1986 AB, 3, 1, 0; 1986 QU, 4, 1, 0; 1986 QY₁, 3, 1, 0; 1986 XT, 4, 1, 0; 1987 QT, 4, 1, 0; 1987 QX₇, 4, 1, 0; 1987 RL₁, 4, 1, 0; 1987 SV₃, 4, 1, 0; 1988 RQ₈, 4, 1, 0; 1988 RF₁₃, 4, 1, 0; 1988 SS₂, 4, 1, 0; 1988 VE₁, 8, 1, 0; 1989 GB, 4, 1, 0; 1989 SJ₂, 4, 1, 0; 1989 SZ₃, 4, 1, 0; 1989 SW₈, 4, 1, 0; 1989 TQ, 6, 2, 16; 1989 TC₄, 4, 1, 0; 1989 TR₁₁, 4, 1, 0; 1989 TA₁₆, 4, 1, 0; 1989 US₁, 4, 1, 0; 1989 UC₆, 3, 1, 0; 1990 DZ, 4, 1, 0; 1990 OX₁, 4, 1, 0; 1990 OR₃, 4, 1, 0; 1990 QB₅, 4, 1, 0; 1990 QB₆, 4, 1, 0; 1990 QN₇, 4, 1, 0; 1990 RN₃, 4, 1, 0; 1990 RN₉, 3, 1, 0; 1990 SC₃, 4, 1, 0; 1990 TN₃, 4, 1, 0; 1990 UC₁, 4, 1, 0; 1990 VY₅, 4, 1, 0; 1991 LF₂, 4, 1, 0; 1991 PA, 4, 1, 0; 1991 PO₄, 4, 1, 0; 1991 PO₅, 4, 1, 0; 1991 PE₆, 4, 1, 0; 1991 PS₁₄, 3, 1, 0; 1991 RC₂, 4, 1, 0; 1991 RE₇, 4, 1, 0; 1991 RU₉, 4, 1, 0; 1991 RR₁₀, 4, 1, 0; 1991 RP₁₂, 4, 1, 0; 1991 RQ₁₄, 4, 1, 0; 1991 RX₂₁, 4, 1, 0; 1991 RK₂₆, 4, 1, 0; 1991 RH₂₇, 4, 1, 0; 1991 TJ, 3, 1, 0; 1991 TK₈, 4, 1, 0; 1991 TL₁₄, 4, 1, 0; 1991 UR, 4, 1, 0; 1991 UK₁, 4, 1, 0; 1991 UR₂, 4, 1, 0; 1991 VG₁, 3, 1, 0; 1991 VQ₁, 4, 1, 0; 1991 VZ₂, 4, 1, 0; 1991 XF, 3, 1, 0; 1992 EZ₆, 4, 1, 0; 1992 EP₁₀, 4, 1, 0; 1992 EK₁₂, 4, 1, 0; 1992 GV₃, 4, 1, 0; 1992 OH₂, 9, 3, 75; 1992 RB₃, 4, 1, 0; 1992 SY₂₄, 4, 1, 0; 1992 WX₁, 4, 1, 0; 1992 WZ₁, 4, 1, 0; 1992 WK₉, 4, 1, 0; 1992 YG₂, 4, 1, 0; 1993 FL₁, 4, 1, 0; 1993 FX₃, 4, 1, 0; 1993 FY₅, 4, 1, 0; 1993 FR₁₀, 9, 3, 58; 1993 FH₁₁, 4, 1, 0; 1993 FS₁₁, 4, 1, 0; 1993 FS₁₃, 4, 1, 0; 1993 FX₁₆, 4, 1, 0; 1993 FH₂₀, 4, 1, 0; 1993 FK₂₀, 3, 1, 0; 1993 FO₂₀, 4, 1, 0; 1993 FL₃₉, 4, 1, 0; 1993 FW₄₁, 4, 1, 0; 1993 FH₄₃, 4, 1, 0; 1993 FA₄₅, 4, 1, 0; 1993 FS₄₆, 4, 1, 0; 1993 HW₁, 4, 1, 0; 1993 OD₂, 4, 1, 0; 1993 OK₇, 3, 1, 0; 1993 PY₃, 6, 2, 28; 1993 QF₄, 6, 2, 60; 1993 QU₄, 4, 1, 0; 1993 TV₁₂, 4, 1, 0; 1993 TG₁₈, 6, 2, 20; 1993 TM₂₄, 4, 1, 0; 1993 US, 4, 1, 0; 1993 VT, 4, 1, 0; 1993 XW, 3, 1, 0; 1994 BD₄, 4, 1, 0; 1994 PH, 4, 1, 0; 1994 PB₃, 4, 1, 0; 1994 PG₁₁, 4, 1, 0; 1994 PO₁₂, 6, 2, 32; 1994 PP₁₆, 4, 1, 0; 1994 PE₁₈, 4, 1, 0; 1994 PL₂₀, 4, 1, 0; 1994 PO₂₂, 4, 1, 0; 1994 ST₇, 4, 1, 0; 1994 TT, 4, 1, 0; 1994 TW, 4, 1, 0; 1994 TJ₁, 4, 1, 0; 1994 TZ₃, 4, 1, 0; 1994 TZ₁₄, 4, 1, 0; 1994 VU, 8, 2, 4; 1994 VE₁, 8, 1, 0; 1994 VM₆, 3, 1, 0; 1994 VZ₆, 3, 1, 0; 1994 WB, 3, 1, 0; 1994 WK₂, 4, 1, 0; 1994 WP₃, 4, 1, 0; 1994 YR, 4, 1, 0; 1994 YK₁, 3, 1, 0; 1995 BW, 4, 1, 0; 1995 BG₃, 3, 1, 0; 1995 BK₄, 6, 2, 28; 1995 BS₁₁, 4, 1, 0; 1995 BP₁₅, 6, 2, 356; 1995 QD₂, 4, 1, 0; 1995 SS₅₃, 4, 1, 0; 1995 UM₅, 4, 1, 0; 1995 UX₄₈, 4, 1, 0; 1995 VR₁, 4, 1, 0; 1995 WS₂, 4, 1, 0; 1995 WH₅, 4, 1, 0; 1995 WK₅, 4, 1, 0; 1995 WU₅, 4, 1, 0; 1995 XH₁, 4, 1, 0; 1995 YV, 8, 2, 4; 1995 YY₁, 4, 1, 0; 1996 AR, 4, 1, 0; 1996 AS, 4, 1, 0; 1996 AO₁, 8, 1, 0; 1996 AV₁, 4, 1, 0; 1996 BU, 4, 1, 0; 1996 BZ, 4, 1, 0; 1996 BX₄, 3, 1, 0; 1996 BM₅, 4, 1, 0; 1996 CT₇, 4, 1, 0; 1996 DK₂, 8, 1, 0; 1996 EP₁, 4, 1, 0; 1996 FJ₅, 4, 1, 0; 1996 GN₂, 4, 1, 0; 1996 GG₁₈, 4, 1, 0; 1996 GE₂₀, 4, 1, 0; 1996 GG₂₀, 4, 1, 0; 1996 HY, 4, 1, 0; 1996 HZ₂₁, 4, 1, 0; 1996 HC₂₅, 4, 1, 0; 1996 KN, 4, 1, 0; 1996 KC₁, 8, 2, 4; 1996 KX₂, 4, 1, 0; 1996 OJ, 4, 1, 0; 1996 PF₁, 4, 1, 0; 1996 RC₂₄, 4, 1, 0; 1996 RU₂₅, 4, 1, 0; 1997 AV₁₈, 3, 1, 0; 1997 FQ₃, 4, 1, 0; 1997 GL₆, 4, 1, 0; 1997 GG₇, 4, 1, 0; 1997 GC₁₁, 6, 2, 14; 1997 GB₁₄, 4, 1, 0; 1997 GT₁₈, 4, 1, 0; 1997 GK₂₁, 4, 1, 0; 1997 GV₂₁, 3, 1, 0; 1997 GJ₃₅, 4, 1, 0; 1997 GB₃₆, 4, 1, 0; 1997 HF₇, 4, 1, 0; 1997 HZ₁₀, 4, 1, 0; 1997 JV₇, 4, 1, 0; 1997 JX₁₄, 4, 1, 0; 1997 JF₁₆, 4, 1, 0; 1997 LY₂, 6, 2, 27; 1997 OL₂, 4, 1, 0; 1997 PZ₁, 4, 1, 0; 1997 PE₃, 4, 1, 0; 1997 PN₃, 4, 1, 0; 1997 PC₄, 4, 1, 0; 1997 QF, 4, 1, 0; 1997 QM, 4, 1, 0; 1997 RF, 4, 1, 0; 1997 RA₁, 4, 1, 0; 1997 RJ₁, 3, 1, 0; 1997 RC₃, 4, 1, 0; 1997 RQ₅, 4, 1, 0; 1997 RL₇, 4, 1, 0; 1997 RP₁₀, 3, 1, 0; 1997 TC, 4, 1, 0; 1997 TR, 4, 1, 0; 1997 TV, 4, 1, 0; 1997 UB₁₁, 4, 1, 0; 1997 UW₁₈, 4, 1, 0; 1997 VA₈, 3, 1, 0; 1998 HK₇₀, 3, 1, 0; 1998 HN₈₀, 3, 1, 0; 1998 HE₉₂, 3, 1, 0; 1998 KS₃, 3, 1, 0; 1998 KL₁₃, 6, 2, 27; 1998 KW₂₃, 3, 1, 0; 1998 KG₂₈, 3, 1, 0; 1998 KA₂₉, 12, 4, 583; 1998 KS₃₂, 3, 1, 0; 1998 KM₄₅, 3, 1, 0; 1998 KT₅₂, 3, 1, 0; 1998 MD₁₃, 3, 1, 0; 1998 OR₇, 3, 1, 0; 1998 PZ, 4, 1, 0; 1998 QX₇, 3, 1, 0; 1998 QQ₁₀, 3, 1, 0; 1998 QB₁₄, 4, 1, 0; 1998 QU₁₆, 3, 1, 0; 1998 QE₁₇, 4, 1, 0; 1998 QE₂₃, 4, 1, 0; 1998 QA₂₄, 4, 1, 0; 1998 QV₂₄, 4, 1, 0; 1998 QW₃₁, 4, 1, 0; 1998 QM₃₂, 3, 1, 0; 1998 QF₃₄, 6, 2, 45; 1998 QP₃₄, 6, 2, 21; 1998 QE₃₅, 4, 1, 0; 1998 QQ₃₅, 4, 1, 0; 1998 QS₃₇, 4, 1, 0; 1998 QP₃₈, 4, 1, 0; 1998 QE₄₀, 4, 1, 0; 1998 QY₄₀, 4, 1, 0; 1998 QL₄₁, 3, 1, 0; 1998 QD₄₅, 4, 1, 0; 1998 QF₄₆, 3, 1, 0; 1998 QU₄₆, 4, 1, 0; 1998 QY₄₇, 4, 1, 0; 1998 QL₅₀, 4, 1, 0; 1998 QV₅₀, 4, 1, 0; 1998 QY₅₀, 4, 1, 0; 1998 QC₅₁, 4, 1, 0; 1998 QN₅₁, 4, 1, 0; 1998 QM₅₂, 4, 1, 0; 1998 QM₅₄, 4, 1, 0; 1998 QZ₅₄, 4, 1, 0; 1998 QA₅₅, 4, 1, 0; 1998 QC₅₆, 3, 1, 0; 1998 QX₅₇, 4, 1, 0; 1998 QN₆₀, 4

1, 0; 1998 QJ₉₉, 4, 1, 0; 1998 QN₁₀₂, 4, 1, 0; 1998 QP₁₀₃, 3, 1, 0; 1998 QX₁₀₆, 4, 1, 0; 1998 RD₂, 4, 1, 0; 1998 RU₂, 4, 1, 0; 1998 RM₃, 3, 1, 0; 1998 RT₄, 4, 1, 0; 1998 RQ₅, 4, 1, 0; 1998 RX₅, 3, 1, 0; 1998 RN₆, 4, 1, 0; 1998 RP₆, 6, 2, 23; 1998 RZ₇, 3, 1, 0; 1998 RL₁₅, 4, 1, 0; 1998 RP₁₆, 3, 1, 0; 1998 RX₁₇, 3, 1, 0; 1998 RJ₂₀, 3, 1, 0; 1998 RW₂₂, 6, 2, 17; 1998 RJ₂₃, 3, 1, 0; 1998 RO₂₃, 3, 1, 0; 1998 RB₂₄, 3, 1, 0; 1998 RN₂₅, 6, 2, 19; 1998 RY₂₅, 3, 1, 0; 1998 RF₂₇, 3, 1, 0; 1998 RM₂₈, 3, 1, 0; 1998 RB₃₄, 3, 1, 0; 1998 RF₃₅, 9, 3, 68; 1998 RQ₄₁, 6, 2, 30; 1998 RB₄₂, 3, 1, 0; 1998 RJ₄₃, 3, 1, 0; 1998 RB₄₄, 3, 1, 0; 1998 RA₄₅, 4, 1, 0; 1998 RR₄₇, 4, 1, 0; 1998 RP₄₉, 3, 1, 0; 1998 RB₅₀, 3, 1, 0; 1998 RE₅₀, 3, 1, 0; 1998 RA₅₂, 4, 1, 0; 1998 RT₅₂, 3, 1, 0; 1998 RV₅₄, 4, 1, 0; 1998 RE₅₆, 3, 1, 0; 1998 RF₅₆, 4, 1, 0; 1998 RN₅₆, 4, 1, 0; 1998 RV₅₆, 6, 2, 28; 1998 RT₅₇, 4, 1, 0; 1998 RK₅₉, 3, 1, 0; 1998 RV₅₉, 3, 1, 0; 1998 RD₆₁, 6, 2, 29; 1998 RN₆₁, 4, 1, 0; 1998 RP₆₁, 9, 3, 100; 1998 RQ₆₁, 4, 1, 0; 1998 RU₆₁, 4, 1, 0; 1998 RL₆₂, 3, 1, 0; 1998 RH₆₃, 4, 1, 0; 1998 RN₆₃, 3, 1, 0; 1998 RA₆₄, 4, 1, 0; 1998 RC₆₈, 4, 1, 0; 1998 RD₆₈, 9, 3, 47; 1998 RU₆₉, 3, 1, 0; 1998 RN₇₀, 6, 2, 449; 1998 RW₇₀, 4, 1, 0; 1998 RB₇₁, 4, 1, 0; 1998 RD₇₁, 4, 1, 0; 1998 RK₇₁, 4, 1, 0; 1998 RL₇₁, 4, 1, 0; 1998 RO₇₃, 3, 1, 0; 1998 RY₇₃, 4, 1, 0; 1998 RT₇₄, 4, 1, 0; 1998 RZ₇₆, 4, 1, 0; 1998 RZ₇₇, 4, 1, 0; 1998 SG₃, 3, 1, 0; 1998 SM₄, 4, 1, 0; 1998 SF₁₀, 4, 1, 0; 1998 SJ₁₀, 3, 1, 0; 1998 SX₁₂, 4, 1, 0; 1998 SH₁₄, 6, 2, 103; 1998 SM₁₇, 3, 1, 0; 1998 SU₂₁, 4, 1, 0; 1998 SG₂₄, 4, 1, 0; 1998 SQ₂₄, 4, 1, 0; 1998 SW₂₄, 4, 1, 0; 1998 SA₂₅, 4, 1, 0; 1998 SS₃₇, 4, 1, 0; 1998 SE₄₃, 4, 1, 0; 1998 SO₄₅, 4, 1, 0; 1998 SR₄₇, 3, 1, 0; 1998 SA₄₉, 3, 1, 0; 1998 SR₅₈, 4, 1, 0; 1998 SV₅₈, 3, 1, 0; 1998 SN₅₉, 3, 1, 0; 1998 SO₅₉, 4, 1, 0; 1998 SG₆₁, 3, 1, 0; 1998 SM₆₃, 4, 1, 0; 1998 SN₆₃, 3, 1, 0; 1998 ST₆₃, 4, 1, 0; 1998 SG₆₅, 4, 1, 0; 1998 SS₆₇, 4, 1, 0; 1998 ST₆₇, 3, 1, 0; 1998 SU₆₇, 4, 1, 0; 1998 SR₆₉, 3, 1, 0; 1998 SY₇₀, 3, 1, 0; 1998 SL₇₂, 3, 1, 0; 1998 SA₇₃, 4, 1, 0; 1998 SG₇₄, 4, 1, 0; 1998 SB₈₂, 3, 1, 0; 1998 SA₈₃, 3, 1, 0; 1998 SO₈₃, 3, 1, 0; 1998 SS₈₃, 6, 2, 9; 1998 SC₉₄, 3, 1, 0; 1998 SQ₉₄, 9, 3, 76; 1998 SK₉₅, 3, 1, 0; 1998 SB₉₆, 3, 1, 0; 1998 ST₉₈, 3, 1, 0; 1998 SN₁₀₀, 3, 1, 0; 1998 SS₁₀₀, 3, 1, 0; 1998 SR₁₀₃, 6, 2, 8; 1998 SC₁₀₅, 3, 1, 0; 1998 SY₁₀₆, 3, 1, 0; 1998 ST₁₀₈, 6, 2, 64; 1998 SY₁₀₉, 6, 2, 39; 1998 SV₁₁₁, 3, 1, 0; 1998 SF₁₁₄, 9, 3, 42; 1998 SK₁₁₅, 7, 2, 85; 1998 SR₁₁₆, 4, 1, 0; 1998 ST₁₁₈, 3, 1, 0; 1998 SB₁₂₂, 3, 1, 0; 1998 SR₁₂₂, 3, 1, 0; 1998 SJ₁₂₃, 3, 1, 0; 1998 SL₁₂₄, 4, 1, 0; 1998 SB₁₂₅, 3, 1, 0; 1998 SD₁₂₅, 3, 1, 0; 1998 SY₁₂₈, 6, 2, 22; 1998 SC₁₃₀, 4, 1, 0; 1998 SM₁₃₁, 6, 2, 36; 1998 SL₁₃₂, 3, 1, 0; 1998 SU₁₃₂, 4, 1, 0; 1998 SB₁₃₄, 6, 2, 22; 1998 ST₁₃₅, 6, 2, 23; 1998 SP₁₃₆, 3, 1, 0; 1998 SR₁₃₆, 9, 3, 62; 1998 SZ₁₃₆, 3, 1, 0; 1998 SC₁₃₇, 3, 1, 0; 1998 SD₁₃₈, 3, 1, 0; 1998 SN₁₃₈, 4, 1, 0; 1998 SW₁₃₈, 3, 1, 0; 1998 SX₁₃₉, 3, 1, 0; 1998 SB₁₄₂, 3, 1, 0; 1998 SU₁₄₃, 3, 1, 0; 1998 SZ₁₄₅, 4, 1, 0; 1998 ST₁₄₆, 4, 1, 0; 1998 ST₁₄₇, 3, 1, 0; 1998 SLW₁₅₄, 6, 2, 25; 1998 SZ₁₅₅, 3, 1, 0; 1998 SM₁₅₈, 6, 2, 25; 1998 TF₄, 1, 0; 1998 TV₁, 8, 2, 4; 1998 TZ₁, 4, 1, 0; 1998 TQ₃, 8, 2, 4; 1998 TD₅, 4, 1, 0; 1998 TT₅, 4, 1, 0; 1998 TC₆, 4, 1, 0; 1998 TJ₁₀, 4, 1, 0; 1998 TE₂₇, 3, 1, 0; 1998 TT₃₀, 4, 1, 0; 1998 TJ₃₁, 3, 1, 0; 1998 TS₃₂, 3, 1, 0; 1998 TO₃₄, 3, 1, 0; 1998 UQ₂, 4, 1, 0; 1998 UA₄, 4, 1, 0; 1998 US₆, 4, 1, 0; 1998 UT₆, 4, 1, 0; 1998 UU₆, 4, 1, 0; 1998 UZ₆, 8, 2, 4; 1998 UJ₇, 3, 1, 0; 1998 UK₈, 3, 1, 0; 1998 UL₈, 4, 1, 0; 1998 UB₉, 4, 1, 0; 1998 UF₉, 4, 1, 0; 1998 UA₁₅, 3, 1, 0; 1998 UM₁₅, 3, 1, 0; 1998 UQ₁₅, 4, 1, 0; 1998 UR₁₅, 4, 1, 0; 1998 UV₁₅, 3, 1, 0; 1998 UN₁₇, 6, 2, 28; 1998 UO₁₇, 3, 1, 0; 1998 UX₁₈, 4, 1, 0; 1998 UX₁₉, 4, 1, 0; 1998 UZ₂₀, 4, 1, 0; 1998 UC₂₁, 3, 1, 0; 1998 UM₂₁, 3, 1, 0; 1998 US₂₁, 6, 2, 24; 1998 UR₂₂, 3, 1, 0; 1998 UZ₂₂, 3, 1, 0; 1998 UE₂₃, 3, 1, 0; 1998 UA₂₄, 3, 1, 0; 1998 UP₂₄, 3, 1, 0; 1998 UD₂₉, 3, 1, 0; 1998 UH₂₉, 3, 1, 0; 1998 US₂₉, 3, 1, 0; 1998 UV₂₉, 3, 1, 0; 1998 UY₂₉, 3, 1, 0; 1998 UH₃₁, 4, 1, 0; 1998 UF₃₂, 3, 1, 0; 1998 UQ₃₂, 3, 1, 0; 1998 UW₃₃, 6, 2, 30; 1998 UC₃₄, 6, 2, 26; 1998 UQ₃₄, 3, 1, 0; 1998 US₃₅, 3, 1, 0; 1998 UV₄₀, 3, 1, 0; 1998 UJ₄₃, 4, 1, 0; 1998 US₄₇, 3, 1, 0; 1998 VE₄, 4, 1, 0; 1998 VA₁, 3, 1, 0; 1998 VG₂, 4, 1, 0; 1998 VW₄, 4, 1, 0; 1998 VN₅, 4, 1, 0; 1998 VZ₅, 4, 1, 0; 1998 VD₆, 3, 1, 0; 1998 VJ₈, 4, 1, 0; 1998 VU₈, 3, 1, 0; 1998 VU₉, 4, 1, 0; 1998 VY₉, 6, 2, 26; 1998 VG₁₀, 6, 2, 60; 1998 VV₁₄, 4, 1, 0; 1998 VX₁₄, 6, 2, 50; 1998 VN₁₆, 6, 2, 38; 1998 VQ₁₆, 3, 1, 0; 1998 VR₁₆, 3, 1, 0; 1998 VU₁₆, 3, 1, 0; 1998 VB₁₇, 3, 1, 0; 1998 VP₁₈, 3, 1, 0; 1998 VZ₁₉, 3, 1, 0; 1998 VC₂₁, 3, 1, 0; 1998 VG₂₁, 3, 1, 0; 1998 VM₂₁, 3, 1, 0; 1998 VM₂₂, 3, 1, 0; 1998 VX₂₂, 6, 2, 80; 1998 VY₂₂, 9, 3, 51; 1998 VO₂₅, 3, 1, 0; 1998 VR₂₅, 3, 1, 0; 1998 VW₂₅, 3, 1, 0; 1998 VX₂₅, 3, 1, 0; 1998 VJ₂₆, 4, 1, 0; 1998 VQ₂₆, 6, 2, 32; 1998 VJ₂₈, 6, 2, 37; 1998 VK₃₀, 4, 1, 0; 1998 VG₃₁, 4, 1, 0; 1998 VS₃₂, 4, 1, 0; 1998 VF₃₃, 6, 2, 27; 1998 VJ₃₃, 3, 1, 0; 1998 VZ₃₃, 3, 1, 0; 1998 VD₃₄, 3, 1, 0; 1998 VY₃₄, 4, 1, 0; 1998 VD₃₆, 3, 1, 0; 1998 VY₃₆, 3, 1, 0; 1998 VO₃₈, 3, 1, 0; 1998 VS₃₈, 3, 1, 0; 1998 VX₄₄, 3, 1, 0; 1998 VA₄₅, 3, 1, 0; 1998 VB₄₅, 3, 1, 0; 1998 VC₄₅, 3, 1, 0; 1998 VD₄₅, 3, 1, 0; 1998 VE₄₅, 3, 1, 0; 1998 VF₄₅, 3, 1, 0; 1998 VG₄₅, 3, 1, 0; 1998 VH₄₅, 3, 1, 0; 1998 VJ₄₅, 3, 1, 0; 1998 VK₄₅, 3, 1, 0; 1998 VL₄₅, 3, 1, 0; 1998 VM₄₅, 3, 1, 0; 1998 VN₄₅, 3, 1, 0; 1998 VO₄₅, 3, 1, 0; 1998 VP₄₅, 3, 1, 0; 1998 VQ₄₅, 3, 1, 0; 1998 VR₄₅, 3, 1, 0; 1998 VS₄₅, 3, 1, 0; 1998 VT₄₅, 3, 1, 0; 1998 VU₄₅, 3, 1, 0; 1998 VV₄₅, 3, 1, 0; 1998 VW₄₅, 3, 1, 0; 1998 VX₄₅, 3, 1, 0; 1998 VY₄₅, 3, 1, 0; 1998 VZ₄₅, 3, 1, 0; 1998 VA₄₆, 3, 1, 0; 1998 VB₄₆, 3, 1, 0; 1998 VC₄₆, 3, 1, 0; 1998 VD₄₆, 3, 1, 0; 1998 VE₄₆, 3, 1, 0; 1998 VF₄₆, 3, 1, 0; 1998 VG₄₆, 3, 1, 0; 1998 VH₄₆, 3, 1, 0; 1998 WI₁, 4, 1, 0; 1998 WE₃, 4, 1, 0; 1998 WL₅, 4, 1, 0; 1998 WW₅, 4, 1, 0; 1998 WY₅, 4, 1, 0; 1998 WG₇, 4, 1, 0; 1998 WN₉, 3, 1, 0; 1998 WM₁₀, 4, 1, 0; 1998 WP₁₀, 3, 1, 0; 1998 WY₁₀, 3, 1, 0; 1998 WF₁₁, 4, 1, 0; 1998 WE₁₂, 4, 1, 0; 1998 WO₁₂, 6, 2, 16; 1998 WA₁₃, 3, 1, 0; 1998 WF₁₃, 3, 1, 0; 1998 WH₁₄, 4, 1, 0; 1998 WM₁₄, 4, 1, 0; 1998 WQ₁₆, 4, 1, 0; 1998 WA₁₇, 4, 1, 0; 1998 WM₁₇, 3, 1, 0; 1998 WT₁₇, 3, 1, 0; 1998 WA₁₈, 4, 1, 0; 1998 WN₂₀, 9, 3, 51; 1998 WC₂₁, 3, 1, 0; 1998 WZ₂₁, 4, 1, 0; 1998 WL₂₃, 4, 1, 0; 1998 WF₂₈, 3, 1, 0; 1998 WQ₂₈, 3, 1, 0; 1998 WU₃₀, 4, 1, 0; 1998 WN₃₂, 3, 1, 0; 1998 WO₃₂, 3, 1, 0; 1998 WP₃₂, 3, 1, 0; 1998 WQ₃₂, 3, 1, 0; 1998 WR₃₂, 3, 1, 0; 1998 WS₃₂, 3, 1, 0; 1998 WT₃₂, 3, 1, 0; 1998 WU₃₂, 3, 1, 0;

3, 1, 0; 1998 WV₃₂, 3, 1, 0; 1998 WW₃₂, 3, 1, 0; 1998 WX₃₂, 3, 1, 0; 1998 WY₃₂, 3, 1, 0; 1998 WZ₃₂, 3, 1, 0; 1998 WA₃₃, 3, 1, 0; 1998 WB₃₃, 3, 1, 0; 1998 WC₃₃, 3, 1, 0; 1998 WD₃₃, 3, 1, 0; 1998 WE₃₃, 3, 1, 0; 1998 WF₃₃, 3, 1, 0; 1998 WG₃₃, 3, 1, 0; 1998 WH₃₃, 3, 1, 0; 1998 WJ₃₃, 6, 1, 0; 1998 WK₃₃, 3, 1, 0; 1998 WL₃₃, 3, 1, 0; 1998 WM₃₃, 3, 1, 0; 1998 WN₃₃, 3, 1, 0; 1998 WO₃₃, 3, 1, 0; 1998 WP₃₃, 3, 1, 0; 1998 WQ₃₃, 3, 1, 0; 1998 WR₃₃, 3, 1, 0; 1998 WS₃₃, 3, 1, 0; 1998 WT₃₃, 3, 1, 0; 1998 WU₃₃, 3, 1, 0; 1998 WV₃₃, 3, 1, 0; 1998 WW₃₃, 3, 1, 0; 1998 WX₃₃, 3, 1, 0; 1998 WY₃₃, 3, 1, 0; 1998 WZ₃₃, 3, 1, 0; 1998 WA₃₄, 3, 1, 0; 1998 WB₃₄, 3, 1, 0; 1998 WC₃₄, 3, 1, 0; 1998 WD₃₄, 3, 1, 0; 1998 WE₃₄, 3, 1, 0; 1998 XF₆₇, 3, 1, 0; 1998 XG₁, 3, 1, 0; 1998 XH₁, 6, 2, 12; 1998 XL₁, 3, 1, 0; 1998 XN₁, 3, 1, 0; 1998 XU₁, 3, 1, 0; 1998 XP₂, 4, 1, 0; 1998 XS₅, 3, 1, 0; 1998 XQ₉, 4, 1, 0; 1998 XV₁₂, 4, 1, 0; 1998 XK₁₃, 3, 1, 0; 1998 XB₁₄, 8, 1, 0; 1998 XE₁₇, 4, 1, 0; 1998 XS₂₂, 3, 1, 0; 1998 XN₂₈, 3, 1, 0; 1998 XO₂₈, 3, 1, 0; 1998 XP₂₈, 3, 1, 0; 1998 XB₃₀, 6, 2, 13; 1998 XJ₆₄, 3, 1, 0; 1998 XK₆₅, 3, 1, 0; 1998 XH₆₇, 3, 1, 0; 1998 XK₇₂, 4, 1, 0; 1998 XM₇₇, 3, 1, 0; 1998 XD₇₉, 6, 2, 12; 1998 XS₇₉, 6, 2, 16; 1998 XB₈₀, 3, 1, 0; 1998 XQ₈₁, 3, 1, 0; 1998 XA₈₂, 3, 1, 0; 1998 XU₈₂, 3, 1, 0; 1998 XW₈₂, 4, 1, 0; 1998 XF₈₃, 4, 1, 0; 1998 YO₃, 4, 1, 0; 1998 YL₈, 4, 1, 0; 1998 YT₈, 3, 1, 0; 1998 YE₁₄, 3, 1, 0; 1998 YU₁₄, 3, 1, 0; 1998 YY₁₇, 3, 1, 0; 1998 YW₁₈, 3, 1, 0; 1998 YN₂₂, 4, 1, 0; 1999 AA₄, 1, 0; 1999 AG₄, 1, 0; 1999 AZ₈, 9, 3, 27; 1999 AM₉, 6, 2, 13; 1999 AM₂₀, 4, 1, 0; 1999 AD₂₃, 3, 1, 0; 1999 AJ₂₃, 3, 1, 0; 1999 AF₂₄, 4, 1, 0; 1999 BP₉, 4, 1, 0; 1999 BZ₂₀, 3, 1, 0; 1999 BV₂₇, 3, 1, 0; 1999 CL₃, 4, 1, 0; 1999 CG₆₂, 4, 1, 0; 1999 CM₁₃₈, 3, 1, 0; 1999 CT₁₄₇, 3, 1, 0; 1999 FY₂₇, 3, 1, 0; 1999 GJ₄, 4, 1, 0; 1999 GT₄₁, 6, 2, 30; 1999 JJ₅₈, 3, 1, 0; 1999 LD₃₁, 4, 1, 0; 1999 NP₈, 3, 1, 0; 1999 NS₃₄, 3, 1, 0; 1999 NC₃₆, 3, 1, 0; 1999 NT₃₈, 3, 1, 0; 1999 NE₄₂, 3, 1, 0; 1999 NP₆₄, 3, 1, 0; 1999 RD₄₇, 3, 1, 0; 1999 RN₈₆, 3, 1, 0; 1999 RL₁₃₁, 3, 1, 0; 1999 RS₁₆₀, 3, 1, 0; 1999 RM₁₉₄, 3, 1, 0; 1999 RK₂₁₀, 3, 1, 0; 1999 RL₂₁₁, 6, 2, 16; 1999 TJ₂₇, 6, 2, 22; 1999 TP₃₀, 3, 1, 0; 1999 UJ₁₃, 3, 1, 0; 1999 UM₂₃, 6, 2, 14; 1999 VK₂₁, 4, 1, 0; 1999 VN₄₈, 3, 1, 0; 1999 VL₅₃, 3, 1, 0; 1999 VL₇₇, 3, 1, 0; 1999 VP₇₇, 3, 1, 0; 1999 VQ₇₇, 3, 1, 0; 1999 VU₇₇, 3, 1, 0; 1999 VY₇₇, 3, 1, 0; 1999 VR₇₈, 6, 2, 21; 1999 VS₈₁, 3, 1, 0; 1999 VW₈₅, 6, 2, 22; 1999 VE₈₆, 3, 1, 0; 1999 VM₈₇, 6, 2, 22; 1999 VD₉₀, 6, 2, 16; 1999 VU₉₀, 6, 2, 18; 1999 VH₉₂, 3, 1, 0; 1999 VC₉₆, 3, 1, 0; 1999 VN₁₁₃, 3, 1, 0; 1999 VG₁₁₄, 3, 1, 0; 1999 VT₁₁₄, 3, 1, 0; 1999 VZ₁₁₄, 3, 1, 0; 1999 VJ₁₃₅, 3, 1, 0; 1999 VR₁₃₅, 3, 1, 0; 1999 VP₁₄₃, 6, 2, 22; 1999 VS₁₄₃, 3, 1, 0; 1999 VJ₁₄₄, 3, 1, 0; 1999 VL₁₄₄, 3, 1, 0; 1999 VP₁₄₄, 3, 1, 0; 1999 VD₁₅₀, 3, 1, 0; 1999 VR₁₅₀, 3, 1, 0; 1999 VZ₁₆₂, 3, 1, 0; 1999 WW₁₉, 3, 1, 0; 1999 XS₁₇, 3, 1, 0; 1999 XI₁₈, 3, 1, 0; 1999 XE₂₃, 3, 1, 0; 1999 XG₂₃, 3, 1, 0; 1999 XG₂₄, 3, 1, 0; 1999 XG₂₇, 3, 1, 0; 1999 XZ₃₄, 4, 1, 0; 1999 XB₃₅, 4, 1, 0; 1999 XQ₃₈, 4, 1, 0; 1999 XV₅₅, 3, 1, 0; 1999 XY₉₄, 3, 1, 0; 1999 XW₉₄, 4, 1, 0; 1999 XW₁₁₀, 3, 1, 0; 1999 XN₁₁₆, 3, 1, 0; 1999 XB₁₁₇, 3, 1, 0; 1999 XD₁₁₇, 3, 1, 0; 1999 XY₁₁₇, 3, 1, 0; 1999 XJ₁₁₈, 3, 1, 0; 1999 XV₁₁₉, 6, 2, 20; 1999 XY₁₂₂, 9, 2, 33; 1999 XP₁₂₈, 6, 2, 48; 1999 XF₁₅₁, 3, 1, 0; 1999 XH₁₆₂, 3, 1, 0; 1999 XS₁₆₂, 6, 2, 98; 1999 XY₁₆₃, 3, 1, 0; 1999 XF₁₆₄, 4, 1, 0; 1999 XN₁₆₅, 4, 1, 0; 1999 XY₁₆₅, 4, 1, 0; 1999 XM₁₇₂, 3, 1, 0; 1999 XM₁₇₅, 6, 2, 27; 1999 XW₁₇₅, 3, 1, 0; 1999 XS₁₇₇, 3, 1, 0; 1999 XC₁₇₉, 6, 1, 0; 1999 XX₂₀₂, 3, 1, 0; 1999 XT₂₀₅, 3, 1, 0; 1999 XP₂₁₂, 3, 1, 0; 1999 XE₂₂₁, 3, 1, 0; 1999 XM₂₂₉, 6, 2, 27; 1999 XV₂₃₀, 3, 1, 0; 1999 XB₂₃₁, 4, 1, 0; 1999 XV₂₃₁, 3, 1, 0; 1999 YT₅, 3, 1, 0; 1999 YV₁₅, 3, 1, 0; 1999 YJ₁₆, 4, 1, 0; 1999 YK₁₆, 4, 1, 0; 2000 AL₂, 3, 1, 0; 2000 AN₄, 4, 1, 0; 2000 AP₁₀, 3, 1, 0; 2000 AW₂₂, 3, 1, 0; 2000 AR₅₀, 3, 1, 0; 2000 AM₅₁, 9, 3, 48; 2000 AG₅₂, 3, 1, 0; 2000 AK₅₂, 3, 1, 0; 2000 AM_{52</}

2000 MAR. 20

M.P.C. 38985

2000 AV₂₄₃, 4, 1, 0; 2000 AX₂₄₃, 9, 3, 30; 2000 AN₂₄₅, 3, 1, 0; 2000 BD₁, 4, 10; 2000 BC₂, 4, 1, 0; 2000 BP₃, 4, 1, 0; 2000 BQ₃, 4, 1, 0; 2000 BT₃, 4, 1, 0; 2000 BU₃, 4, 1, 0; 2000 BV₃, 4, 1, 0; 2000 BX₃, 4, 1, 0; 2000 BA₄, 4, 1, 0; 2000 BB₄, 4, 1, 0; 2000 BH₄, 3, 1, 0; 2000 BL₈, 3, 1, 0; 2000 BD₁₁, 4, 1, 0; 2000 BX₁₃, 4, 1, 0; 2000 BE₁₄, 4, 1, 0; 2000 BH₁₄, 4, 1, 0; 2000 BJ₁₄, 4, 1, 0; 2000 BK₁₄, 4, 1, 0; 2000 BL₁₄, 4, 1, 0; 2000 BO₁₄, 4, 1, 0; 2000 BP₁₄, 4, 1, 0; 2000 BR₁₄, 4, 1, 0; 2000 BS₁₄, 7, 2, 61; 2000 BT₁₄, 7, 2, 61; 2000 BV₁₄, 4, 1, 0; 2000 BW₁₄, 10, 3, 474; 2000 BX₁₄, 4, 1, 0; 2000 BA₁₅, 4, 1, 0; 2000 BE₁₅, 4, 1, 0; 2000 BF₁₅, 4, 1, 0; 2000 BB₂₂, 4, 1, 0; 2000 BM₂₂, 3, 1, 0; 2000 BX₂₄, 4, 1, 0; 2000 BZ₂₉, 3, 1, 0; 2000 CA₄, 1, 0; 2000 CU₄, 4, 1, 0; 2000 CV₄, 8, 1, 0; 2000 CY₄, 4, 1, 0; 2000 CD₁, 4, 1, 0; 2000 CE₁, 10, 3, 456; 2000 CK₁, 4, 1, 0; 2000 CL₁, 4, 1, 0; 2000 CM₁, 4, 1, 0; 2000 CQ₁, 4, 1, 0; 2000 CR₁, 4, 1, 0; 2000 CS₁, 4, 1, 0; 2000 CV₁, 4, 1, 0; 2000 CX₁, 10, 3, 97; 2000 CY₁, 4, 1, 0; 2000 CB₂, 3, 1, 0; 2000 CC₂, 4, 1, 0; 2000 CD₂, 4, 1, 0; 2000 CE₂, 13, 4, 569; 2000 CF₂, 4, 1, 0; 2000 CG₂, 7, 2, 85; 2000 CH₂, 4, 1, 0; 2000 CZ₂, 3, 1, 0; 2000 CQ₂, 3, 1, 0; 2000 CN₃, 3, 1, 0; 2000 CQ₁₁, 3, 1, 0; 2000 CO₁₄, 3, 1, 0; 2000 CC₂₀, 3, 1, 0; 2000 CG₂₀, 3, 1, 0; 2000 CW₂₄, 6, 2, 44; 2000 CT₂₇, 3, 1, 0; 2000 CX₂₇, 3, 1, 0; 2000 CE₂₈, 6, 2, 13; 2000 CG₂₉, 9, 3, 52; 2000 CL₃₀, 4, 1, 0; 2000 CM₃₀, 4, 1, 0; 2000 CR₃₂, 4, 1, 0; 2000 CS₃₂, 4, 1, 0; 2000 CX₃₂, 4, 1, 0; 2000 CY₃₂, 4, 1, 0; 2000 CF₃₂, 4, 1, 0; 2000 CB₃₃, 4, 1, 0; 2000 CC₃₃, 4, 1, 0; 2000 CD₃₃, 4, 1, 0; 2000 CE₃₃, 4, 1, 0; 2000 CF₃₃, 4, 1, 0; 2000 CH₃₃, 4, 1, 0; 2000 CV₃₃, 4, 1, 0; 2000 CW₃₃, 4, 1, 0; 2000 CZ₃₃, 4, 1, 0; 2000 CA₃₄, 4, 1, 0; 2000 CB₃₄, 4, 1, 0; 2000 CC₃₄, 7, 2, 472; 2000 CD₃₄, 4, 1, 0; 2000 CE₃₄, 4, 1, 0; 2000 CF₃₄, 4, 1, 0; 2000 CG₃₄, 4, 1, 0; 2000 CH₃₄, 4, 1, 0; 2000 CL₃₄, 4, 1, 0; 2000 CM₃₄, 4, 1, 0; 2000 CN₃₄, 4, 1, 0; 2000 CO₃₆, 7, 2, 65; 2000 CB₃₆, 4, 1, 0; 2000 CC₃₆, 4, 1, 0; 2000 CE₃₆, 4, 1, 0; 2000 CF₃₆, 4, 1, 0; 2000 CG₃₆, 7, 2, 443; 2000 CH₃₆, 4, 1, 0; 2000 CJ₃₆, 3, 1, 0; 2000 CK₃₆, 4, 1, 0; 2000 CN₃₆, 4, 1, 0; 2000 CO₃₆, 4, 1, 0; 2000 CP₃₆, 4, 1, 0; 2000 CQ₃₆, 4, 1, 0; 2000 CR₃₆, 4, 1, 0; 2000 CS₃₆, 4, 1, 0; 2000 CV₃₆, 4, 1, 0; 2000 CW₃₆, 4, 1, 0; 2000 CX₃₆, 7, 2, 61; 2000 CY₃₆, 4, 1, 0; 2000 CZ₃₆, 4, 1, 0; 2000 CA₃₇, 4, 1, 0; 2000 CB₃₇, 4, 1, 0; 2000 CC₃₇, 4, 1, 0; 2000 CD₃₇, 4, 1, 0; 2000 CE₃₇, 4, 1, 0; 2000 CF₃₇, 4, 1, 0; 2000 CG₃₇, 4, 1, 0; 2000 CH₃₇, 4, 1, 0; 2000 CI₃₇, 4, 1, 0; 2000 CJ₃₇, 4, 1, 0; 2000 CK₃₇, 4, 1, 0; 2000 CL₃₇, 4, 1, 0; 2000 CM₃₇, 4, 1, 0; 2000 CN₃₇, 4, 1, 0; 2000 CO₃₇, 4, 1, 0; 2000 CP₃₇, 4, 1, 0; 2000 CQ₃₇, 4, 1, 0; 2000 CR₃₇, 4, 1, 0; 2000 CS₃₇, 4, 1, 0; 2000 CV₃₇, 4, 1, 0; 2000 CW₃₇, 4, 1, 0; 2000 CX₃₇, 4, 1, 0; 2000 CY₃₇, 4, 1, 0; 2000 CZ₃₇, 4, 1, 0; 2000 CA₄₀, 4, 1, 0; 2000 CB₄₀, 4, 1, 0; 2000 CC₄₀, 4, 1, 0; 2000 CD₄₀, 4, 1, 0; 2000 CE₄₀, 4, 1, 0; 2000 CF₄₀, 4, 1, 0; 2000 CG₄₀, 4, 1, 0; 2000 CH₄₀, 4, 1, 0; 2000 CI₄₀, 4, 1, 0; 2000 CJ₄₀, 4, 1, 0; 2000 CK₄₀, 4, 1, 0; 2000 CL₄₀, 4, 1, 0; 2000 CM₄₀, 4, 1, 0; 2000 CN₄₀, 4, 1, 0; 2000 CO₄₀, 4, 1, 0; 2000 CP₄₀, 4, 1, 0; 2000 CQ₄₀, 4, 1, 0; 2000 CR₄₀, 4, 1, 0; 2000 CS₄₀, 4, 1, 0; 2000 CV₄₀, 4, 1, 0; 2000 CW₄₀, 4, 1, 0; 2000 CX₄₀, 4, 1, 0; 2000 CY₄₀, 4, 1, 0; 2000 CZ₄₀, 4, 1, 0; 2000 CA₄₈, 4, 1, 0; 2000 CB₄₈, 4, 1, 0; 2000 CC₄₈, 4, 1, 0; 2000 CD₄₈, 4, 1, 0; 2000 CE₄₈, 4, 1, 0; 2000 CF₄₈, 4, 1, 0; 2000 CG₄₈, 4, 1, 0; 2000 CH₄₈, 6, 2, 33; 2000 CI₄₈, 4, 1, 0; 2000 CJ₄₈, 4, 1, 0; 2000 CK₄₈, 4, 1, 0; 2000 CL₄₈, 4, 1, 0; 2000 CM<

2000 CW87, 4, 1, 0; 2000 CZ87, 4, 1, 0; 2000 CA88, 4, 1, 0; 2000 CB88, 4, 1, 0; 2000 CC88, 4, 1, 0;
2000 CE88, 4, 1, 0; 2000 CF88, 4, 1, 0; 2000 CT89, 4, 1, 0; 2000 CZ89, 4, 1, 0; 2000 CK90, 4, 1, 0;
2000 CO90, 4, 1, 0; 2000 CA91, 4, 1, 0; 2000 CB91, 4, 1, 0; 2000 CC91, 4, 1, 0; 2000 CD91, 4, 1, 0;
2000 CE91, 4, 1, 0; 2000 CF91, 4, 1, 0; 2000 CG91, 7, 2, 61; 2000 CJ91, 4, 1, 0; 2000 CL91, 4, 1, 0;
2000 CM91, 4, 1, 0; 2000 CN91, 7, 2, 61; 2000 CT91, 4, 1, 0; 2000 CU91, 4, 1, 0; 2000 CV91, 4, 1,
0; 2000 CW91, 7, 2, 427; 2000 CY91, 4, 1, 0; 2000 CZ92, 4, 1, 0; 2000 CD92, 4, 1, 0; 2000 CF92, 4,
1, 0; 2000 CJ92, 4, 1, 0; 2000 CL92, 4, 1, 0; 2000 CM92, 4, 1, 0; 2000 CN92, 4, 1, 0; 2000 CO92, 4,
1, 0; 2000 CP92, 8, 1, 0; 2000 CQ92, 4, 1, 0; 2000 CR92, 4, 1, 0; 2000 CT92, 4, 1, 0; 2000 CU92, 4,
1, 0; 2000 CC93, 4, 1, 0; 2000 CD93, 4, 1, 0; 2000 CN93, 4, 1, 0; 2000 CO93, 4, 1, 0; 2000 CZ93, 4,
1, 0; 2000 CE94, 4, 1, 0; 2000 CS94, 4, 1, 0; 2000 CZ94, 4, 1, 0; 2000 CB95, 3, 1, 0; 2000 CH97, 4,
1, 0; 2000 CL97, 4, 1, 0; 2000 CO97, 4, 1, 0; 2000 CR97, 4, 1, 0; 2000 CR101, 4, 1, 0; 2000 CW101,
4, 1, 0; 2000 CX101, 4, 1, 0; 2000 CR102, 4, 1, 0; 2000 CV102, 4, 1, 0; 2000 CZ102, 4, 1, 0; 2000
CD103, 4, 1, 0; 2000 CF103, 4, 1, 0; 2000 CT103, 8, 1, 0; 2000 CW103, 3, 1, 0; 2000 CC104,
6, 2, 19; 2000 CD104, 4, 1, 0; 2000 CF104, 4, 1, 0; 2000 DG, 4, 1, 0; 2000 DM, 4, 1, 0; 2000 DN,
4, 1, 0; 2000 DO, 4, 1, 0; 2000 DP, 4, 1, 0; 2000 DG1, 4, 1, 0; 2000 DH1, 4, 1, 0; 2000 DJ1, 4,
1, 0; 2000 DM1, 4, 1, 0; 2000 DK2, 4, 1, 0; 2000 DL2, 4, 1, 0; 2000 DM2, 4, 1, 0; 2000 DN2, 4,
1, 0; 2000 DB3, 4, 1, 0; 2000 DH3, 4, 1, 0; 2000 DJ3, 4, 1, 0; 2000 DK3, 4, 1, 0; 2000 DQ3, 4, 1,
0; 2000 DC4, 4, 1, 0; 2000 DD4, 4, 1, 0; 2000 DE4, 4, 1, 0; 2000 DH4, 4, 1, 0; 2000 DL4, 4, 1, 0;
2000 DN4, 4, 1, 0; 2000 DD4, 4, 1, 0; 2000 DR4, 4, 1, 0; 2000 DZ4, 4, 1, 0; 2000 DD5, 4, 1, 0;
2000 DH5, 4, 1, 0; 2000 DK5, 4, 1, 0; 2000 DQ5, 4, 1, 0; 2000 DR5, 4, 1, 0; 2000 DQ6, 4, 1, 0;
2000 DR6, 4, 1, 0; 2000 DX6, 4, 1, 0; 2000 DY6, 4, 1, 0; 2000 DA7, 4, 1, 0; 2000 DB7, 4, 1, 0;
2000 DO7, 4, 1, 0; 2000 DF8, 4, 1, 0; 2000 DP8, 4, 1, 0; 2000 DQ8, 4, 1, 0; 2000 DJ10, 3, 1, 0;
2000 DJ13, 4, 1, 0; 2000 DM13, 4, 1, 0; 2000 DN13, 4, 1, 0; 2000 DQ13, 4, 1, 0; 2000 DR13, 4, 1, 0;
2000 DV13, 4, 1, 0; 2000 DB14, 4, 1, 0; 2000 DK14, 4, 1, 0; 2000 DM14, 4, 1, 0; 2000 DO14, 4, 1, 0;
2000 DP14, 4, 1, 0; 2000 DQ14, 4, 1, 0; 2000 DR14, 4, 1, 0; 2000 DV14, 4, 1, 0; 2000 DW14, 4, 1, 0;
2000 DY14, 4, 1, 0; 2000 DA15, 4, 1, 0; 2000 DC15, 4, 1, 0; 2000 DD15, 4, 1, 0; 2000 DF15, 4, 1, 0;
2000 DG15, 4, 1, 0; 2000 DJ15, 4, 1, 0; 2000 DK15, 4, 1, 0; 2000 DM15, 4, 1, 0; 2000 DO15, 4, 1, 0;
2000 DV15, 4, 1, 0; 2000 DW15, 4, 1, 0; 2000 DX15, 4, 1, 0; 2000 DY15, 4, 1, 0; 2000 DA16, 4, 1, 0;
2000 DD16, 4, 1, 0; 2000 DE16, 4, 1, 0; 2000 DF17, 4, 1, 0; 2000 DG17, 4, 1, 0; 2000 DJ17, 4, 1, 0;
2000 DP17, 4, 1, 0; 2000 DQ17, 4, 1, 0; 2000 DR18, 4, 1, 0; 2000 DK18, 4, 1, 0; 2000 DM18, 4, 1, 0;
2000 DO18, 4, 1, 0; 2000 DT28, 4, 1, 0; 2000 DB29, 4, 1, 0; 2000 DC29, 4, 1, 0; 2000 DE29, 4, 1, 0;
2000 DJ29, 4, 1, 0; 2000 DK29, 4, 1, 0; 2000 DQ29, 4, 1, 0; 2000 DX29, 4, 1, 0; 2000 DD30, 4, 1, 0;
2000 DG30, 4, 1, 0; 2000 DH30, 4, 1, 0; 2000 DZ30, 4, 1, 0; 2000 DA31, 4, 1, 0; 2000 DE32, 4, 1, 0;
2000 DM32, 4, 1, 0; 2000 DO32, 4, 1, 0; 2000 DQ32, 4, 1, 0; 2000 DT32, 4, 1, 0; 2000 DW32, 4, 1,
0; 2000 DX32, 4, 1, 0; 2000 DY32, 4, 1, 0; 2000 DB33, 4, 1, 0; 2000 DF33, 4, 1, 0; 2000 DH33, 3, 1,
0; 2000 DJ33, 4, 1, 0; 2000 DK33, 4, 1, 0; 2000 DL33, 4, 1, 0; 2000 DM33, 4, 1, 0; 2000 DN33, 4, 1,
0; 2000 DO33, 4, 1, 0; 2000 DQ33, 4, 1, 0; 2000 DT33, 4, 1, 0; 2000 DE34, 4, 1, 0; 2000 DM34, 4, 1,
0; 2000 DP34, 4, 1, 0; 2000 DQ34, 4, 1, 0; 2000 DS34, 4, 1, 0; 2000 DA35, 4, 1, 0; 2000 DE35, 4, 1,
0; 2000 DJ35, 4, 1, 0; 2000 DK35, 4, 1, 0; 2000 DM35, 4, 1, 0; 2000 DQ35, 4, 1, 0; 2000 DS35, 4, 1,
0; 2000 DU35, 4, 1, 0; 2000 DW35, 4, 1, 0; 2000 DY35, 4, 1, 0; 2000 DZ35, 4, 1, 0; 2000 DB36, 4, 1,
0; 2000 DD36, 4, 1, 0; 2000 DE36, 4, 1, 0; 2000 DX36, 4, 1, 0; 2000 DB37, 4, 1, 0; 2000 DE37, 4, 1,
0; 2000 DC37, 4, 1, 0; 2000 DK37, 4, 1, 0; 2000 DM37, 4, 1, 0; 2000 DN37, 4, 1, 0; 2000 DW37, 4,
1, 0; 2000 DZ37, 4, 1, 0; 2000 DC38, 4, 1, 0; 2000 DE38, 4, 1, 0; 2000 DG38, 4, 1, 0; 2000 DJ38, 4,
1, 0; 2000 DO38, 4, 1, 0; 2000 DP38, 4, 1, 0; 2000 DU38, 8, 1, 0; 2000 DA39, 4, 1, 0; 2000 DB39, 4,
1, 0; 2000 DD39, 4, 1, 0; 2000 DE39, 4, 1, 0; 2000 DF39, 4, 1, 0; 2000 DH39, 4, 1, 0; 2000 DM39, 4,
1, 0; 2000 DN39, 4, 1, 0; 2000 DP39, 4

[illegible][illegible]

2000 MAR. 20

M.P.C. 38987

3, 1, 0; 3515 P-L, 3, 1, 0; 4201 P-L, 4, 1, 0; 4658 P-L, 4, 1, 0; 6100 P-L, 4, 1, 0; 6110 P-L, 4, 1, 0; 6605 P-L, 4, 1, 0; 6616 P-L, 3, 1, 0; 9594 P-L, 4, 1, 0; 2198 T-1, 4, 1, 0; 2148 T-2, 4, 1, 0; 2266 T-2, 4, 1, 0; 3092 T-2, 4, 1, 0; 3162 T-2, 8, 1, 0; 3222 T-2, 4, 1, 0; 4153 T-2, 4, 1, 0; 4263 T-2, 4, 1, 0; 4278 T-2, 4, 1, 0; 1089 T-3, 12, 4, 109; 1156 T-3, 3, 1, 0; 1182 T-3, 4, 1, 0; 2288 T-3, 4, 1, 0; 2466 T-3, 4, 1, 0; 3101 T-3, 4, 1, 0; 3437 T-3, 4, 1, 0; 3447 T-3, 3, 1, 0; 3508 T-3, 9, 3, 27; 4032 T-3, 4, 1, 0; 4215 T-3, 3, 1, 0; 4336 T-3, 4, 1, 0; 5038 T-3, 9, 3, 55; 5092 T-3, 3, 1, 0; 5168 T-3, 4, 1, 0; 5172 T-3, 6, 2, 27; (46), 4, 1, 0; (75), 4, 1, 0; (217), 4, 1, 0; (256), 4, 1, 0; (269), 4, 1, 0; (277), 4, 1, 0; (282), 4, 1, 0; (288), 4, 1, 0; (314), 4, 1, 0; (333), 4, 1, 0; (383), 4, 1, 0; (462), 4, 1, 0; (464), 4, 1, 0; (498), 4, 1, 0; (558), 4, 1, 0; (589), 4, 1, 0; (635), 4, 1, 0; (658), 4, 1, 0; (668), 4, 1, 0; (670), 4, 1, 0; (676), 4, 1, 0; (728), 4, 1, 0; (824), 4, 1, 0; (866), 4, 1, 0; (909), 12, 2, 4; (931), 4, 1, 0; (933), 4, 1, 0; (934), 4, 1, 0; (956), 4, 1, 0; (1163), 8, 2, 4; (1188), 4, 1, 0; (1209), 4, 1, 0; (1271), 4, 1, 0; (1305), 4, 1, 0; (1352), 4, 1, 0; (1393), 4, 1, 0; (1394), 4, 1, 0; (1415), 4, 1, 0; (1424), 4, 1, 0; (1462), 4, 1, 0; (1472), 4, 1, 0; (1478), 4, 1, 0; (1497), 4, 1, 0; (1500), 4, 1, 0; (1510), 4, 1, 0; (1557), 4, 1, 0; (1615), 4, 1, 0; (1618), 4, 1, 0; (1666), 4, 1, 0; (1702), 4, 1, 0; (1713), 4, 1, 0; (1758), 4, 1, 0; (1802), 4, 1, 0; (1825), 4, 1, 0; (1893), 4, 1, 0; (1899), 4, 1, 0; (1923), 4, 1, 0; (1926), 4, 1, 0; (1931), 4, 1, 0; (1973), 4, 1, 0; (1975), 4, 1, 0; (1991), 4, 1, 0; (2017), 4, 1, 0; (2024), 4, 1, 0; (2029), 4, 1, 0; (2086), 4, 1, 0; (2092), 4, 1, 0; (2110), 4, 1, 0; (2123), 4, 1, 0; (2125), 4, 1, 0; (2130), 4, 1, 0; (2147), 4, 1, 0; (2172), 4, 1, 0; (2183), 4, 1, 0; (2208), 4, 1, 0; (2220), 4, 1, 0; (2242), 4, 1, 0; (2253), 4, 1, 0; (2282), 4, 1, 0; (2327), 4, 1, 0; (2358), 4, 1, 0; (2364), 4, 1, 0; (2404), 4, 1, 0; (2413), 4, 1, 0; (2443), 4, 1, 0; (2447), 4, 1, 0; (2466), 4, 1, 0; (2482), 4, 1, 0; (2525), 4, 1, 0; (2531), 4, 1, 0; (2551), 4, 1, 0; (2553), 4, 1, 0; (2569), 8, 2, 4; (2585), 4, 1, 0; (2662), 4, 1, 0; (2680), 4, 1, 0; (2681), 4, 1, 0; (2775), 4, 1, 0; (2839), 4, 1, 0; (2846), 4, 1, 0; (2859), 4, 1, 0; (2869), 4, 1, 0; (2871), 4, 1, 0; (2890), 4, 1, 0; (2913), 4, 1, 0; (2915), 4, 1, 0; (2927), 4, 1, 0; (2933), 4, 1, 0; (2963), 4, 1, 0; (2969), 4, 1, 0; (2977), 4, 1, 0; (2985), 4, 1, 0; (2990), 4, 1, 0; (3006), 4, 1, 0; (3066), 4, 1, 0; (3107), 4, 1, 0; (3119), 4, 1, 0; (3136), 4, 1, 0; (3327), 4, 1, 0; (3350), 4, 1, 0; (3373), 4, 1, 0; (3447), 4, 1, 0; (3456), 4, 1, 0; (3608), 4, 1, 0; (3610), 4, 1, 0; (3621), 4, 1, 0; (3662), 4, 1, 0; (3695), 4, 1, 0; (3772), 4, 1, 0; (3883), 4, 1, 0; (3892), 4, 1, 0; (3894), 4, 1, 0; (3903), 4, 1, 0; (3918), 4, 1, 0; (3943), 4, 1, 0; (3949), 4, 1, 0; (3996), 4, 1, 0; (4001), 4, 1, 0; (4010), 4, 1, 0; (4055), 4, 1, 0; (4078), 4, 1, 0; (4126), 4, 1, 0; (4160), 4, 1, 0; (4184), 4, 1, 0; (4214), 4, 1, 0; (4234), 4, 1, 0; (4258), 4, 1, 0; (4262), 4, 1, 0; (4274), 4, 1, 0; (4292), 4, 1, 0; (4359), 4, 1, 0; (4460), 4, 1, 0; (4462), 4, 1, 0; (4591), 4, 1, 0; (4635), 4, 1, 0; (4697), 4, 1, 0; (4740), 4, 1, 0; (4861), 4, 1, 0; (4942), 4, 1, 0; (5016), 4, 1, 0; (5017), 4, 1, 0; (5165), 3, 1, 0; (5180), 8, 2, 4; (5218), 4, 1, 0; (5269), 4, 1, 0; (5298), 4, 1, 0; (5300), 4, 1, 0; (5306), 4, 1, 0; (5307), 4, 1, 0; (5327), 4, 1, 0; (5331), 4, 1, 0; (5361), 4, 1, 0; (5385), 3, 1, 0; (5400), 4, 1, 0; (5428), 4, 1, 0; (5450), 4, 1, 0; (5462), 4, 1, 0; (5464), 4, 1, 0; (5498), 4, 1, 0; (5509), 4, 1, 0; (5510), 4, 1, 0; (5529), 4, 1, 0; (5530), 4, 1, 0; (5543), 4, 1, 0; (5586), 4, 1, 0; (5603), 4, 1, 0; (5631), 4, 1, 0; (5640), 4, 1, 0; (5734), 4, 1, 0; (5807), 4, 1, 0; (5816), 4, 1, 0; (5866), 4, 1, 0; (5886), 4, 1, 0; (5890), 4, 1, 0; (5900), 4, 1, 0; (5902), 4, 1, 0; (5920), 4, 1, 0; (5926), 4, 1, 0; (5942), 4, 1, 0; (5958), 4, 1, 0; (6008), 4, 1, 0; (6070), 4, 1, 0; (6074), 4, 1, 0; (6111), 4, 1, 0; (6120), 4, 1, 0; (6155), 4, 1, 0; (6167), 3, 1, 0; (6180), 4, 1, 0; (6184), 4, 1, 0; (6216), 4, 1, 0; (6260), 4, 1, 0; (6275), 4, 1, 0; (6335), 4, 1, 0; (6342), 4, 1, 0; (6345), 4, 1, 0; (6351), 4, 1, 0; (6357), 4, 1, 0; (6385), 4, 1, 0; (6437), 4, 1, 0; (6610), 4, 1, 0; (6679), 4, 1, 0; (6709), 4, 1, 0; (6737), 4, 1, 0; (6738), 4, 1, 0; (6753), 4, 1, 0; (6762), 4, 1, 0; (6768), 4, 1, 0; (6780), 4, 1, 0; (6789), 4, 1, 0; (6792), 4, 1, 0; (6843), 4, 1, 0; (6845), 4, 1, 0; (6846), 4, 1, 0; (6854), 4, 1, 0; (6904), 4, 1, 0; (6934), 4, 1, 0; (6976), 8, 1, 0; (6978), 4, 1, 0; (7006), 4, 1, 0; (7017), 4, 1, 0; (7067), 8, 1, 0; (7076), 4, 1, 0; (7085), 4, 1, 0; (7094), 4, 1, 0; (7100), 4, 1, 0; (7106), 4, 1, 0; (7126), 4, 1, 0; (7294), 8, 1, 0; (7349), 4, 1, 0; (7471), 4, 1, 0; (7642), 4, 1, 0; (7655), 4, 1, 0; (7672), 4, 1, 0; (7688), 3, 1, 0; (7705), 4, 1, 0; (7724), 4, 1, 0; (7740), 4, 1, 0; (7741), 4, 1, 0; (7760), 4, 1, 0; (7764), 4, 1, 0; (7785), 4, 1, 0; (7801), 8, 1, 0; (7824), 4, 1, 0; (7856), 4, 1, 0; (7857), 8, 2, 4; (7862), 4, 1, 0; (7863), 4, 1, 0; (7864), 8, 2, 4; (7873), 4, 1, 0; (7894), 4, 1, 0; (7899), 4, 1, 0; (7925), 4, 1, 0; (7926), 4, 1, 0; (7941), 4, 1, 0; (7972), 4, 1, 0; (8000), 4, 1, 0; (8005), 4, 1, 0; (8030), 4, 1, 0; (8075), 4, 1, 0; (8150), 4, 1, 0; (8169), 4, 1, 0; (8188), 4, 1, 0; (8250), 4, 1, 0; (9143), 4, 1, 0; (9147), 4, 1, 0; (9152), 4, 1, 0; (9177), 4, 1, 0; (9215), 4, 1, 0; (9260), 4, 1, 0; (9262), 4, 1, 0; (9277), 4, 1, 0; (9281), 4, 1, 0; (9282), 4, 1, 0; (9286), 4, 1, 0; (9290), 4, 1, 0; (9292), 4, 1, 0; (9300), 4, 1, 0; (9302), 4, 1, 0; (9369), 4, 1, 0; (9392), 4, 1, 0; (9424), 4, 1, 0; (9443), 4, 1, 0; (9481), 4, 1, 0; (9492), 4, 1, 0; (9494), 4, 1, 0; (9495), 4, 1, 0; (9517), 4, 1, 0; (9518), 4, 1, 0; (9537), 4, 1, 0; (9546), 4, 1, 0; (9547), 4, 1, 0; (9569), 4, 1, 0; (9578), 4, 1, 0; (9580), 4, 1, 0; (9581), 4, 1, 0; (9585), 4, 1, 0; (9589), 4, 1, 0; (9592), 4, 1, 0; (9594), 4, 1, 0; (9598), 4, 1, 0; (9614), 4, 1, 0; (9618), 4, 1, 0; (9619), 8, 1, 0; (9629), 4, 1, 0; (9639), 4, 1, 0; (9656), 4, 1, 0; (9663), 4, 1, 0; (9688), 4, 1, 0; (9693), 4, 1, 0; (9716), 4, 1, 0; (9719), 4, 1, 0; (9720), 4, 1, 0; (9735), 4, 1, 0; (9740), 4, 1, 0; (9747), 4, 1, 0; (9753), 4, 1, 0; (9756), 4, 1, 0; (9781), 4, 1, 0; (9787), 4, 1, 0; (9810), 4, 1, 0; (9811), 4, 1, 0; (9815), 4, 1, 0; (9824), 4, 1, 0; (9831), 4, 1, 0; (9838), 4, 1, 0; (9849), 4, 1, 0; (9854), 4, 1, 0; (9855), 4, 1, 0; (9879), 4, 1, 0; (9894), 4, 1, 0; (9912), 4, 1, 0; (9917), 4, 1, 0; (9934), 4, 1, 0; (9948), 4, 1, 0; (9951), 4, 1, 0; (9952), 4, 1, 0; (9955), 4, 1, 0; (9977), 4, 1, 0; (9991), 4, 1, 0; (9999), 4, 1, 0; (10010), 4, 1, 0; (10030), 4, 1, 0; (10043), 4, 1, 0; (10078), 4, 1, 0; (10080), 4, 1, 0; (10086), 4, 1, 0; (10116), 4, 1, 0; (10141), 4, 1, 0; (10142), 4, 1, 0; (10147), 4, 1, 0; (10152), 4, 1, 0; (10169), 4, 1, 0; (10177), 4, 1, 0; (10193), 4, 1, 0; (10232), 4, 1, 0; (10237), 4, 1, 0; (10240), 4, 1, 0; (10393), 4, 1, 0; (10426), 4, 1, 0; (10492), 4, 1, 0; (10749), 4, 1, 0; (11291), 4, 1, 0; (11305), 4, 1, 0; (11321), 4, 1, 0; (11378), 4, 1, 0; (11391), 4, 1, 0;

(11394), 4, 1, 0; (11619), 4, 1, 0; (12734), 4, 1, 0; (12781), 4, 1, 0; (12806), 4, 1, 0; (12983), 4, 1, 0; (13028), 4, 1, 0; (13047), 8, 1, 0; (13069), 4, 1, 0; (13072), 4, 1, 0; (13084), 8, 1, 0; (13087), 4, 1, 0; (13132), 4, 1, 0; (13140), 4, 1, 0; (13154), 4, 1, 0; (13157), 4, 1, 0; (13165), 4, 1, 0; (13217), 4, 1, 0; (13222), 4, 1, 0; (13275), 4, 1, 0; (13315), 4, 1, 0; (13316), 4, 1, 0; (13320), 4, 1, 0; (13325), 4, 1, 0; (13374), 4, 1, 0; (13384), 4, 1, 0; (13390), 4, 1, 0; (13448), 4, 1, 0; (13453), 4, 1, 0; (13468), 4, 1, 0; (13491), 4, 1, 0; (13495), 4, 1, 0; (13507), 4, 1, 0; (13510), 4, 1, 0; (13512), 4, 1, 0; (13513), 4, 1, 0; (13532), 4, 1, 0; (13537), 4, 1, 0; (13540), 4, 1, 0; (13559), 4, 1, 0; (13560), 4, 1, 0; (13576), 4, 1, 0; (13590), 4, 1, 0; (13591), 4, 1, 0; (13600), 4, 1, 0; (13605), 4, 1, 0; (13617), 4, 1, 0; (13621), 4, 1, 0; (13622), 4, 1, 0; (13633), 4, 1, 0; (13636), 4, 1, 0; (13637), 4, 1, 0; (13639), 4, 1, 0; (13649), 4, 1, 0; (13665), 3, 1, 0; (13710), 4, 1, 0; (13721), 4, 1, 0; (13761), 4, 1, 0; (13762), 4, 1, 0; (13781), 4, 1, 0; (13792), 4, 1, 0; (13799), 4, 1, 0; (13809), 4, 1, 0; (13813), 4, 1, 0; (13879), 4, 1, 0; (13886), 4, 1, 0; (13898), 4, 1, 0; [11357, 2755, 115*, 1998/03/25-2000/03/15]

703 Catalina Sky Survey

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

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

0.41-m $f/3$ Schmidt + CCD

USNO-SA2.0, USNO-A2.0

A908 SA, 4, 1, 0; 1937 UD, 4, 1, 0; 1972 TE, 4, 1, 0; 1975 TE, 4, 1, 0; 1975 TJ₃, 4, 1, 0; 1976 QA, 4, 1, 0; 1976 UZ₇, 4, 1, 0; 1977 DG₃, 4, 1, 0; 1977 DQ₃, 4, 1, 0; 1977 PC₁, 4, 1, 0; 1977 RS₁₇, 4, 1, 0; 1978 PV₂, 4, 1, 0; 1978 PC₃, 4, 1, 0; 1978 PG₄, 4, 1, 0; 1978 RX₁, 4, 1, 0; 1978 VY₃, 4, 1, 0; 1978 VD₈, 4, 1, 0; 1978 VS₈, 4, 1, 0; 1978 VH₁₀, 8, 2, 5; 1978 YM, 4, 1, 0; 1979 MM₁, 4, 1, 0; 1979 MV₁, 4, 1, 0; 1979 MJ₄, 4, 1, 0; 1979 MM₆, 4, 1, 0; 1979 SO, 4, 1, 0; 1980 FQ₁, 4, 1, 0; 1980 LC₁, 4, 1, 0; 1981 DN, 4, 1, 0; 1981 EK₁, 4, 1, 0; 1981 EU₄, 4, 1, 0; 1981 EY₁₀, 8, 2, 10; 1981 ED₁₁, 4, 1, 0; 1981 EJ₁₃, 4, 1, 0; 1981 ED₁₅, 4, 1, 0; 1981 EK₁₇, 4, 1, 0; 1981 ED₁₈, 4, 1, 0; 1981 EG₂₁, 4, 1, 0; 1981 EB₂₃, 4, 1, 0; 1981 EU₂₅, 4, 1, 0; 1981 EW₂₅, 4, 1, 0; 1981 EC₂₆, 4, 1, 0; 1981 EE₂₆, 4, 1, 0; 1981 ES₂₆, 4, 1, 0; 1981 EH₂₈, 4, 1, 0; 1981 EH₃₁, 4, 1, 0; 1981 EB₃₆, 4, 1, 0; 1981 EM₃₇, 4, 1, 0; 1981 ER₄₀, 4, 1, 0; 1981 EX₄₂, 4, 1, 0; 1981 RR₃, 4, 1, 0; 1981 RW₄, 4, 1, 0; 1981 UC₂₃, 4, 1, 0; 1981 WJ₉, 4, 1, 0; 1982 ST₇, 4, 1, 0; 1982 US₆, 4, 1, 0; 1982 UC₁₁, 4, 1, 0; 1982 UE₁₂, 4, 1, 0; 1982 VB₄, 4, 1, 0; 1982 VL₄, 4, 1, 0; 1983 RV₃, 4, 1, 0; 1984 EQ, 4, 1, 0; 1984 SL, 4, 1, 0; 1985 CL₂, 4, 1, 0; 1985 CP₂, 4, 1, 0; 1985 PG, 4, 1, 0; 1985 PO, 4, 1, 0; 1985 PE₁, 4, 1, 0; 1985 QP, 4, 1, 0; 1985 QG₅, 4, 1, 0; 1985 QD₆, 4, 1, 0; 1985 RL₄, 4, 1, 0; 1985 SX₂, 4, 1, 0; 1985 UQ₄, 4, 1, 0; 1986 PE₁, 4, 1, 0; 1986 QM, 4, 1, 0; 1986 QU, 4, 1, 0; 1986 QH₁, 4, 1, 0; 1986 QS₃, 4, 1, 0; 1986 RF₃, 4, 1, 0; 1986 RP₅, 4, 1, 0; 1986 TV₆, 4, 1, 0; 1986 XV₃, 4, 1, 0; 1987 CH, 4, 1, 0; 1987 DN₆, 4, 1, 0; 1987 QH, 4, 1, 0; 1987 QX₇, 4, 1, 0; 1987 SV₄, 4, 1, 0; 1987 UT, 4, 1, 0; 1988 BY₃, 4, 1, 0; 1988 BL₅, 8, 2, 1; 1988 CU₁, 4, 1, 0; 1988 CV₄, 4, 1, 0; 1988 PL, 8, 2, 16; 1988 PU, 4, 1, 0; 1988 PL₂, 4, 1, 0; 1988 RM₂, 4, 1, 0; 1988 RZ₂, 4, 1, 0; 1988 RF₁₃, 4, 1, 0; 1988 SL₁, 4, 1, 0; 1988 SB₂, 4, 1, 0; 1988 TK, 4, 1, 0; 1988 UV, 4, 1, 0; 1988 VE₁, 4, 1, 0; 1988 VJ₁, 4, 1, 0; 1988 XV₁, 4, 1, 0; 1988 XX₂, 4, 1, 0; 1988 XW₄, 8, 2, 16; 1989 CC₃, 4, 1, 0; 1989 DB, 8, 2, 5; 1989 GB, 4, 1, 0; 1989 OJ, 4, 1, 0; 1989 RB, 4, 1, 0; 1989 RX, 4, 1, 0; 1989 RP₁, 4, 1, 0; 1989 SA, 4, 1, 0; 1989 SU, 4, 1, 0; 1989 SS₁, 4, 1, 0; 1989 SJ₂, 4, 1, 0; 1989 SZ₂, 4, 1, 0; 1989 SZ₃, 4, 1, 0; 1989 TQ, 8, 2, 26; 1989 TZ, 4, 1, 0; 1989 TN₁, 4, 1, 0; 1989 TX₂, 4, 1, 0; 1989 TF₁₄, 8, 2, 10; 1989 WY₁, 4, 1, 0; 1990 ET₁, 4, 1, 0; 1990 ES₆, 4, 1, 0; 1990 OX₁, 4, 1, 0; 1990 OH₂, 8, 2, 16; 1990 OY₃, 4, 1, 0; 1990 OH₄, 4, 1, 0; 1990 QU₄, 8, 2, 2; 1990 QO₅, 4, 1, 0; 1990 QR₅, 4, 1, 0; 1990 QB₆, 4, 1, 0; 1990 QT₆, 4, 1, 0; 1990 QE₇, 4, 1, 0; 1990 QM₇, 4, 1, 0; 1990 QN₇, 4, 1, 0; 1990 RS₆, 4, 1, 0; 1990 RN₉, 3, 1, 0; 1990 RP₉, 4, 1, 0; 1990 SC₃, 4, 1, 0; 1990 SX₃, 4, 1, 0; 1990 SD₅, 4, 1, 0; 1990 UC₁, 4, 1, 0; 1990 VH₃, 4, 1, 0; 1990 VY₅, 4, 1, 0; 1990 VP₆, 4, 1, 0; 1990 VW₈, 4, 1, 0; 1991 AK₁, 4, 1, 0; 1991 AF₂, 4, 1, 0; 1991 BZ, 4, 1, 0; 1991 DB, 4, 1, 0; 1991 DY, 4, 1, 0; 1991 EL₄, 4, 1, 0; 1991 FQ₂, 8, 2, 16; 1991 FW₃, 8, 2, 16; 1991 GF₈, 8, 2, 16; 1991 GM₈, 4, 1, 0; 1991 NK₄, 4, 1, 0; 1991 PO₄, 4, 1, 0; 1991 PF₅, 4, 1, 0; 1991 PE₆, 4, 1, 0; 1991 PL₈, 4, 1, 0; 1991 PP₈, 4, 1, 0; 1991 PQ₈, 4, 1, 0; 1991 PD₁₁, 4, 1, 0; 1991 PO₁₂, 4, 1, 0; 1991 PJ₁₂, 4, 1, 0; 1991 PR₁₆, 4, 1, 0; 1991 PL₁₈, 4, 1, 0; 1991 QJ, 4, 1, 0; 1991 RB₇, 4, 1, 0; 1991 RC₉, 4, 1, 0; 1991 RR₁₀, 4, 1, 0; 1991 RP₁₂, 4, 1, 0; 1991 RN₁₃, 4, 1, 0; 1991 RH₁₄, 4, 1, 0; 1991 RG₁₇, 4, 1, 0; 1991 RX₁₇, 4, 1, 0; 1991 RX₂₁, 4, 1, 0; 1991 RK₂₃, 4, 1, 0; 1991 RH₂₇, 4, 1, 0; 1991 RJ₄₁, 4, 1, 0; 1991 TH₁, 4, 1, 0; 1991 TQ₂, 4, 1, 0; 1991 TK₈, 4, 1, 0; 1991 UR, 4, 1, 0; 1991 UE₁, 4, 1, 0; 1991 UF₁, 4, 1, 0; 1991 UO₂, 4, 1, 0; 1991 VQ₁, 4, 1, 0; 1991 VJ₂, 8, 2, 10; 1991 VE₃, 4, 1, 0; 1991 VO₃, 4, 1, 0; 1991 VM₅, 4, 1, 0; 1991 VM₁₂, 4, 1, 0; 1991 YC, 4, 1, 0; 1992 AJ₁, 4, 1, 0; 1992 AO₁, 4, 1, 0; 1992 BW₃, 4, 1, 0; 1992 CG₃, 4, 1, 0; 1992 DR₆, 4, 1, 0; 1992 DX₈, 4, 1, 0; 1992 EY₅, 4, 1, 0; 1992 EN₁₂,

4, 1, 0; 1993 FQ₁, 4, 1, 0; 1993 FS₄, 4, 1, 0; 1993 FY₅, 8, 2, 5; 1993 FV₇, 4, 1, 0; 1993 FG₈, 8, 2, 16; 1993 FL₈, 4, 1, 0; 1993 FK₉, 4, 1, 0; 1993 FN₉, 4, 1, 0; 1993 FO₁₀, 8, 2, 32; 1993 FH₁₁, 4, 1, 0; 1993 FX₁₁, 4, 1, 0; 1993 FP₁₃, 4, 1, 0; 1993 FR₁₃, 4, 1, 0; 1993 FA₁₅, 4, 1, 0; 1993 FX₁₆, 4, 1, 0; 1993 FH₂₀, 4, 1, 0; 1993 FK₂₀, 4, 1, 0; 1993 FO₂₀, 4, 1, 0; 1993 FR₂₅, 4, 1, 0; 1993 FX₂₅, 4, 1, 0; 1993 FS₂₆, 4, 1, 0; 1993 FB₃₂, 4, 1, 0; 1993 FL₃₉, 4, 1, 0; 1993 FH₄₃, 4, 1, 0; 1993 FA₄₅, 4, 1, 0; 1993 FS₄₆, 4, 1, 0; 1993 FV₅₀, 4, 1, 0; 1993 FV₅₅, 4, 1, 0; 1993 FT₅₆, 4, 1, 0; 1993 GA₄, 1, 0; 1993 GA₁, 4, 1, 0; 1993 HX₄, 1, 0; 1993 HH₁, 4, 1, 0; 1993 KX₁, 4, 1, 0; 1993 KZ₁, 4, 1, 0; 1993 LW₁, 8, 2, 1; 1993 OD₂, 4, 1, 0; 1993 OY₂, 4, 1, 0; 1993 OP₃, 4, 1, 0; 1993 OO₄, 4, 1, 0; 1993 OS₁₂, 4, 1, 0; 1993 OY₁₂, 4, 1, 0; 1993 QV₁, 4, 1, 0; 1993 QM₄, 4, 1, 0; 1993 RD₂, 8, 2, 16; 1993 RA₃, 4, 1, 0; 1993 RV₇, 4, 1, 0; 1993 SG₁, 4, 1, 0; 1993 SK₂, 4, 1, 0; 1993 TW₈, 4, 1, 0; 1993 TV₁₂, 4, 1, 0; 1993 TH₁₄, 4, 1, 0; 1993 TO₁₅, 4, 1, 0; 1993 TL₁₇, 4, 1, 0; 1993 TG₁₈, 8, 2, 33; 1993 TM₂₄, 4, 1, 0; 1993 TL₂₅, 4, 1, 0; 1993 TM₃₁, 4, 1, 0; 1993 TK₃₃, 4, 1, 0; 1993 TJ₃₉, 4, 1, 0; 1993 UL₄, 1, 0; 1993 VT₄, 1, 0; 1993 XW₃, 1, 0; 1993 YF₄, 1, 0; 1994 AM₄, 4, 1, 0; 1994 AN₁₅, 4, 1, 0; 1994 AL₁₆, 4, 1, 0; 1994 CN₄, 1, 0; 1994 CX₁₀, 4, 1, 0; 1994 CQ₁₃, 4, 1, 0; 1994 NS₈, 2, 12; 1994 PG₄, 1, 0; 1994 PL₁, 4, 1, 0; 1994 PU₁, 4, 1, 0; 1994 PK₈, 4, 1, 0; 1994 PP₁₆, 4, 1, 0; 1994 PE₁₈, 4, 1, 0; 1994 PV₁₉, 4, 1, 0; 1994 PL₂₀, 4, 1, 0; 1994 PO₂₂, 4, 1, 0; 1994 PL₂₃, 4, 1, 0; 1994 PW₂₇, 8, 2, 16; 1994 PU₃₂, 4, 1, 0; 1994 QC₄, 1, 0; 1994 RZ₄, 1, 0; 1994 RK₁₁, 4, 1, 0; 1994 RN₁₂, 8, 2, 16; 1994 ST₇, 4, 1, 0; 1994 TW₄, 1, 0; 1994 TJ₂, 4, 1, 0; 1994 TQ₃, 4, 1, 0; 1994 TH₁₅, 4, 1, 0; 1994 UF₄, 1, 0; 1994 UC₁, 4, 1, 0; 1994 UP₁, 4, 1, 0; 1994 UU₁, 4, 1, 0; 1994 VY₂, 4, 1, 0; 1994 WT₄, 1, 0; 1994 WN₃, 4, 1, 0; 1994 WA₄, 4, 1, 0; 1994 XP₄, 1, 0; 1995 BW₄, 1, 0; 1995 BY₂, 4, 1, 0; 1995 BJ₁₁, 4, 1, 0; 1995 BS₁₁, 4, 1, 0; 1995 BP₁₅, 4, 1, 0; 1995 DO₂, 4, 1, 0; 1995 FA₈, 4, 1, 0; 1995 HR₄, 1, 0; 1995 LV₄, 1, 0; 1995 QB₂, 4, 1, 0; 1995 SP₄, 1, 0; 1995 SP₅₂, 4, 1, 0; 1995 SO₅₄, 4, 1, 0; 1995 UQ₁, 4, 1, 0; 1995 UQ₃, 4, 1, 0; 1995 UQ₁₂, 4, 1, 0; 1995 UA₄₅, 4, 1, 0; 1995 VB₄, 1, 0; 1995 VD₄, 1, 0; 1995 VZ₄, 1, 0; 1995 VM₁, 4, 1, 0; 1995 VR₁, 4, 1, 0; 1995 VJ₂, 4, 1, 0; 1995 WC₄, 1, 0; 1995 WA₂, 4, 1, 0; 1995 WX₂, 4, 1, 0; 1995 WY₄, 4, 1, 0; 1995 WE₅, 4, 1, 0; 1995 WU₅, 4, 1, 0; 1995 WO₇, 4, 1, 0; 1995 WS₇, 4, 1, 0; 1995 WY₇, 4, 1, 0; 1995 WN₂₀, 4, 1, 0; 1995 WB₂₂, 4, 1, 0; 1995 WW₄₂, 4, 1, 0; 1995 XG₁, 4, 1, 0; 1995 XP₁, 8, 2, 16; 1995 YB₄, 1, 0; 1995 YY₄, 4, 1, 0; 1995 YH₁, 8, 2, 12; 1995 YL₃, 4, 1, 0; 1996 AR₈, 2, 5; 1996 AS₄, 1, 0; 1996 AO₁, 4, 1, 0; 1996 AV₁, 4, 1, 0; 1996 AP₁₅, 4, 1, 0; 1996 BC₁, 4, 1, 0; 1996 BL₂, 4, 1, 0; 1996 BM₅, 4, 1, 0; 1996 BM₁₇, 4, 1, 0; 1996 CQ₄, 1, 0; 1996 CY₄, 1, 0; 1996 CL₁, 4, 1, 0; 1996 CQ₁, 4, 1, 0; 1996 CE₃, 8, 2, 1; 1996 CR₈, 4, 1, 0; 1996 DO₄, 1, 0; 1996 DU₄, 1, 0; 1996 DZ₄, 1, 0; 1996 DL₁, 4, 1, 0; 1996 DK₂, 4, 1, 0; 1996 DQ₂, 4, 1, 0; 1996 EB₁, 4, 1, 0; 1996 EL₁, 4, 1, 0; 1996 EM₁, 8, 2, 2; 1996 EP₁, 4, 1, 0; 1996 ER₂, 4, 1, 0; 1996 EY₅, 4, 1, 0; 1996 EY₇, 4, 1, 0; 1996 FJ₅, 4, 1, 0; 1996 GL₁, 4, 1, 0; 1996 GL₃, 4, 1, 0; 1996 GK₁₇, 4, 1, 0; 1996 GA₁₈, 4, 1, 0; 1996 GE₂₀, 8, 2, 5; 1996 HY₄, 1, 0; 1996 HL₁, 4, 1, 0; 1996 HY₁, 4, 1, 0; 1996 HM₂, 8, 2, 2; 1996 HJ₁₅, 4, 1, 0; 1996 HT₁₅, 4, 1, 0; 1996 HT₁₆, 4, 1, 0; 1996 HX₁₆, 4, 1, 0; 1996 HC₂₅, 4, 1, 0; 1996 JC₁, 8, 2, 6; 1996 KN₄, 4, 1, 0; 1996 KO₄, 1, 0; 1996 KC₁, 4, 1, 0; 1996 KO₁, 4, 1, 0; 1996 NG₄, 1, 0; 1996 NS₄, 4, 1, 0; 1996 OJ₄, 1, 0; 1996 PF₁, 4, 1, 0; 1996 QT₁, 4, 1, 0; 1996 SJ₃, 4, 1, 0; 1996 XU₁₄, 4, 1, 0; 1997 AJ₂, 4, 1, 0; 1997 AZ₁₇, 4, 1, 0; 1997 CZ₂₁, 4, 1, 0; 1997 EY₂, 4, 1, 0; 1997 EO₁₇, 4, 1, 0; 1997 FQ₃, 4, 1, 0; 1997 FW₃, 4, 1, 0; 1997 GY₄, 1, 0; 1997 GV₃, 4, 1, 0; 1997 GL₆, 4, 1, 0; 1997 GG₇, 4, 1, 0; 1997 GC₈, 4, 1, 0; 1997 GT₁₁, 4, 1, 0; 1997 GZ₁₆, 8, 2, 12; 1997 GA₁₇, 4, 1, 0; 1997 GF₁₇, 4, 1, 0; 1997 GY₁₇, 4, 1, 0; 1997 GX₂₀, 4, 1, 0; 1997 GS₂₁, 4, 1, 0; 1997 GH₂₂, 8, 2, 5; 1997 GX₂₃, 4, 1, 0; 1997 GC₃₃, 4, 1, 0; 1997 GB₃₆, 4, 1, 0; 1997 GC₃₈, 4, 1, 0; 1997 HF₇, 4, 1, 0; 1997 HG₁₀, 4, 1, 0; 1997 HV₁₁, 4, 1, 0; 1997 JB₁₀, 4, 1, 0; 1997 JH₁₀, 4, 1, 0; 1997 JC₁₄, 4, 1, 0; 1997 KO₂, 4, 1, 0; 1997 LL₂, 4, 1, 0; 1997 MQ₁, 4, 1, 0; 1997 MT₃, 4, 1, 0; 1997 MQ₄, 4, 1, 0; 1997 MY₄, 4, 1, 0; 1997 MY₅, 4, 1, 0; 1997 NB₁, 4, 1, 0; 1997 PR₄, 4, 1, 0; 1997 PE₃, 4, 1, 0; 1997 PC₄, 4, 1, 0; 1997 PU₄, 4, 1, 0; 1997 QF₄, 1, 0; 1997 QE₂, 4, 1, 0; 1997 QS₂, 4, 1, 0; 1997 RF₄, 1, 0; 1997 RJ₁, 4, 1, 0; 1997 RY₂, 4, 1, 0; 1997 RQ₃, 4, 1, 0; 1997 RL₇, 4, 1, 0; 1997 RY₈, 4, 1, 0; 1997 RB₉, 4, 1, 0; 1997 RU₉, 4, 1, 0; 1997 RJ₁₀, 4, 1, 0; 1997 SN₁, 4, 1, 0; 1997 SG₂₅, 8, 2, 1; 1997 SK₂₅, 4, 1, 0; 1997 SS₃₁, 4, 1, 0; 1997 TC₄, 1, 0; 1997 TV₄, 1, 0; 1997 TV₁₇, 4, 1, 0; 1997 TM₁₈, 4, 1, 0; 1997 TR₁₈, 4, 1, 0; 1997 TS₁₈, 4, 1, 0; 1997 TX₁₈, 4, 1, 0; 1997 TS₂₂, 4, 1, 0; 1997 TA₂₆, 4, 1, 0; 1997 UU₇, 4, 1, 0; 1997 UB₁₁, 4, 1, 0; 1997 UC₁₁, 4, 1, 0; 1997 UC₂₂, 4, 1, 0; 1997 UO₂₄, 4, 1, 0; 1997 VQ₄, 1, 0; 1997 VC₁, 4, 1, 0; 1997 VM₂, 8, 2, 13; 1997 VA₈, 4, 1, 0; 1997 WV₁₃, 4, 1, 0; 1997 WZ₃₀, 4, 1, 0; 1997 XX₁, 4, 1, 0; 1997 XL₁₀, 4, 1, 0; 1997 YV₄, 1, 0; 1997 YQ₁₉, 4, 1, 0; 1998 BJ₈, 4, 1, 0; 1998 CL₄, 4, 1, 0; 1998 HO₂₇, 4, 1, 0; 1998 HH₄₃, 4, 1, 0; 1998 HK₁₂₄, 4, 1, 0; 1998 JF₂, 4, 1, 0; 1998 KA₂₉, 4, 1, 0; 1998 KE₃₇, 4, 1, 0; 1998 MD₁₃, 8, 2, 29; 1998 NA₄, 1, 0; 1998 NT₄, 1, 0; 1998 OD₁, 4, 1, 0; 1998 OB₄, 4, 1, 0; 1998 OY₄, 4, 1, 0; 1998 OZ₆, 4, 1, 0; 1998 OQ₁₀, 4, 1, 0; 1998 OZ₁₁, 4, 1, 0; 1998 OR₁₂, 4, 1, 0; 1998 OU₁₂, 4, 1, 0; 1998 OV₁₂, 4, 1, 0; 1998 OA₁₃, 4, 1, 0; 1998 OV₁₃, 4, 1, 0; 1998 OM₁₄, 4, 1, 0; 1998 ON₁₄, 4, 1, 0; 1998 PU₄, 1, 0; 1998 PZ₄, 1, 0; 1998 PL₁, 4, 1, 0; 1998 QC₄, 1, 0; 1998 QK₁, 4, 1, 0; 1998 QH₃, 4, 1, 0; 1998 QQ₅, 4, 1, 0; 1998 QP₆, 4, 1, 0; 1998 QE₁₇, 4, 1, 0; 1998 QO₁₉, 4, 1, 0; 1998 QY₁₉, 4, 1, 0; 1998 QW₂₂, 4, 1, 0; 1998 QA₂₃, 4, 1, 0; 1998 QE₂₃, 4, 1, 0; 1998 QB₂₄, 4, 1, 0; 1998 QN₂₆, 4, 1, 0; 1998 QS₂₆, 4, 1, 0; 1998 QT₃₁, 4, 1, 0; 1998 QE₃₂, 8, 2, 2; 1998 QE₃₅, 4, 1, 0; 1998 QS₃₅, 8, 2, 2; 1998 QW₃₆, 4, 1, 0; 1998 QL₃₈, 4, 1, 0; 1998 QP₃₈, 4, 1, 0; 1998 QR₃₈, 4, 1, 0; 1998 QX₃₉, 4, 1, 0; 1998 QH₄₀, 4, 1, 0; 1998 QN₄₀, 4, 1, 0; 1998 QD₄₂, 4, 1, 0; 1998 QB₄₃, 4, 1, 0; 1998 QE₄₃, 4, 1, 0; 1998 QF₄₄, 4, 1, 0; 1998 QU₄₄, 4, 1, 0; 1998 QC₄₅, 4, 1, 0; 1998 QT₄₇, 4, 1, 0; 1998 QF₄₉, 4, 1, 0; 1998 QY₅₀, 4, 1, 0; 1998 QK₅₁, 4, 1,

0; 1998 QS₅₁, 4, 1, 0; 1998 QT₅₁, 4, 1, 0; 1998 QH₅₂, 4, 1, 0; 1998 QM₅₂, 4, 1, 0; 1998 QR₅₃, 4, 1, 0; 1998 QX₅₄, 4, 1, 0; 1998 QZ₅₄, 4, 1, 0; 1998 QH₅₅, 4, 1, 0; 1998 QT₅₅, 8, 1, 0; 1998 QX₅₇, 4, 1, 0; 1998 QR₅₈, 4, 1, 0; 1998 QO₆₀, 4, 1, 0; 1998 QP₆₀, 4, 1, 0; 1998 QK₆₁, 4, 1, 0; 1998 QU₇₁, 4, 1, 0; 1998 QO₇₄, 4, 1, 0; 1998 QB₇₅, 4, 1, 0; 1998 QT₇₆, 4, 1, 0; 1998 QX₇₇, 4, 1, 0; 1998 QY₇₇, 4, 1, 0; 1998 QG₈₆, 4, 1, 0; 1998 QN₈₆, 4, 1, 0; 1998 QM₉₀, 4, 1, 0; 1998 QP₉₀, 4, 1, 0; 1998 QY₉₀, 4, 1, 0; 1998 QS₉₁, 4, 1, 0; 1998 QL₉₂, 4, 1, 0; 1998 QM₉₂, 4, 1, 0; 1998 QN₉₂, 8, 2, 2; 1998 QO₉₂, 4, 1, 0; 1998 QS₉₂, 4, 1, 0; 1998 QU₉₅, 4, 1, 0; 1998 QH₉₅, 4, 1, 0; 1998 QO₉₅, 4, 1, 0; 1998 QA₉₈, 4, 1, 0; 1998 QD₉₈, 4, 1, 0; 1998 QP₉₈, 4, 1, 0; 1998 QJ₉₉, 4, 1, 0; 1998 QF₁₀₀, 4, 1, 0; 1998 QH₁₀₁, 4, 1, 0; 1998 QN₁₀₂, 4, 1, 0; 1998 QD₁₀₄, 8, 1, 0; 1998 QL₁₀₅, 4, 1, 0; 1998 QN₁₀₅, 4, 1, 0; 1998 QP₁₀₅, 8, 2, 5; 1998 QB₁₀₆, 4, 1, 0; 1998 RQ₂, 8, 2, 16; 1998 RM₃, 8, 2, 25; 1998 RJ₄, 4, 1, 0; 1998 RT₄, 4, 1, 0; 1998 RQ₅, 4, 1, 0; 1998 RL₆, 4, 1, 0; 1998 RL₂₀, 4, 1, 0; 1998 RN₂₂, 4, 1, 0; 1998 RM₃₄, 4, 1, 0; 1998 RE₃₇, 4, 1, 0; 1998 RJ₄₀, 4, 1, 0; 1998 RQ₄₂, 4, 1, 0; 1998 RP₄₄, 7, 1, 0; 1998 RA₄₅, 4, 1, 0; 1998 RJ₄₆, 4, 1, 0; 1998 RK₄₇, 4, 1, 0; 1998 RS₄₈, 4, 1, 0; 1998 RJ₅₀, 4, 1, 0; 1998 RA₅₂, 4, 1, 0; 1998 RB₅₅, 4, 1, 0; 1998 RZ₅₅, 4, 1, 0; 1998 RJ₅₆, 4, 1, 0; 1998 RN₅₆, 4, 1, 0; 1998 RT₅₆, 4, 1, 0; 1998 RA₅₇, 4, 1, 0; 1998 RB₅₇, 4, 1, 0; 1998 RT₅₇, 4, 1, 0; 1998 RY₅₇, 4, 1, 0; 1998 RZ₅₇, 4, 1, 0; 1998 RN₅₈, 4, 1, 0; 1998 RL₆₁, 4, 1, 0; 1998 RN₆₁, 4, 1, 0; 1998 RC₆₃, 4, 1, 0; 1998 RA₆₄, 4, 1, 0; 1998 RX₆₄, 8, 1, 0; 1998 RO₆₆, 4, 1, 0; 1998 RQ₆₆, 4, 1, 0; 1998 RC₆₈, 4, 1, 0; 1998 RS₆₈, 4, 1, 0; 1998 RX₆₈, 4, 1, 0; 1998 RW₇₀, 4, 1, 0; 1998 RB₇₁, 4, 1, 0; 1998 RE₇₁, 4, 1, 0; 1998 RK₇₁, 8, 2, 5; 1998 RL₇₁, 8, 2, 5; 1998 RM₇₁, 4, 1, 0; 1998 RY₇₁, 4, 1, 0; 1998 RX₇₂, 4, 1, 0; 1998 RS₇₃, 4, 1, 0; 1998 RB₇₄, 4, 1, 0; 1998 RC₇₄, 4, 1, 0; 1998 RT₇₄, 4, 1, 0; 1998 RX₇₄, 4, 1, 0; 1998 RA₇₅, 4, 1, 0; 1998 RB₇₅, 8, 2, 16; 1998 RG₇₅, 4, 1, 0; 1998 RR₇₇, 4, 1, 0; 1998 RY₇₇, 8, 2, 1; 1998 RC₇₈, 4, 1, 0; 1998 RM₇₈, 8, 2, 10; 1998 RO₇₈, 4, 1, 0; 1998 RP₇₈, 8, 2, 5; 1998 RW₇₉, 8, 2, 10; 1998 RX₇₉, 4, 1, 0; 1998 RZ₇₉, 8, 1, 0; 1998 SN₁, 4, 1, 0; 1998 SR₁, 4, 1, 0; 1998 SO₂, 4, 1, 0; 1998 SQ₂, 4, 1, 0; 1998 SN₃, 4, 1, 0; 1998 SL₄, 4, 1, 0; 1998 SG₅, 4, 1, 0; 1998 SK₈, 4, 1, 0; 1998 SH₉, 4, 1, 0; 1998 SO₉, 4, 1, 0; 1998 SG₁₀, 4, 1, 0; 1998 SX₁₂, 4, 1, 0; 1998 SX₁₆, 4, 1, 0; 1998 SQ₁₈, 4, 1, 0; 1998 SU₂₁, 4, 1, 0; 1998 SZ₂₁, 4, 1, 0; 1998 SW₂₂, 4, 1, 0; 1998 SU₂₄, 4, 1, 0; 1998 SV₂₄, 4, 1, 0; 1998 SW₂₄, 4, 1, 0; 1998 SN₂₅, 4, 1, 0; 1998 SA₂₆, 4, 1, 0; 1998 SW₃₂, 8, 2, 16; 1998 SM₃₄, 4, 1, 0; 1998 SZ₃₆, 4, 1, 0; 1998 SP₃₇, 4, 1, 0; 1998 SR₃₇, 4, 1, 0; 1998 SU₃₇, 4, 1, 0; 1998 SP₄₂, 8, 2, 16; 1998 SE₄₃, 4, 1, 0; 1998 SG₄₃, 4, 1, 0; 1998 SO₄₅, 4, 1, 0; 1998 SE₄₇, 4, 1, 0; 1998 SX₄₇, 4, 1, 0; 1998 SN₄₈, 4, 1, 0; 1998 ST₅₃, 4, 1, 0; 1998 SW₅₃, 4, 1, 0; 1998 SY₅₃, 4, 1, 0; 1998 SZ₅₃, 4, 1, 0; 1998 SB₅₄, 4, 1, 0; 1998 SC₅₅, 4, 1, 0; 1998 SW₅₅, 8, 2, 16; 1998 SC₅₆, 4, 1, 0; 1998 SN₅₇, 4, 1, 0; 1998 SO₅₇, 4, 1, 0; 1998 SR₅₈, 4, 1, 0; 1998 SO₅₉, 4, 1, 0; 1998 SG₆₀, 4, 1, 0; 1998 SU₆₀, 4, 1, 0; 1998 SY₆₀, 4, 1, 0; 1998 SF₆₁, 4, 1, 0; 1998 SS₆₁, 4, 1, 0; 1998 SQ₆₃, 4, 1, 0; 1998 SY₆₃, 4, 1, 0; 1998 SL₆₄, 8, 2, 5; 1998 SZ₆₄, 8, 1, 0; 1998 SG₆₅, 4, 1, 0; 1998 SU₆₅, 4, 1, 0; 1998 SV₆₅, 8, 2, 2; 1998 SE₆₆, 4, 1, 0; 1998 SE₆₇, 4, 1, 0; 1998 SN₆₇, 4, 1, 0; 1998 SX₇₁, 4, 1, 0; 1998 SY₇₂, 4, 1, 0; 1998 SC₇₃, 4, 1, 0; 1998 SV₇₃, 4, 1, 0; 1998 SW₇₃, 4, 1, 0; 1998 SK₇₄, 8, 2, 5; 1998 SK₇₅, 4, 1, 0; 1998 SW₇₅, 4, 1, 0; 1998 SZ₇₉, 4, 1, 0; 1998 SA₈₀, 4, 1, 0; 1998 SC₁₀₃, 4, 1, 0; 1998 SH₁₀₅, 4, 1, 0; 1998 SV₁₀₅, 4, 1, 0; 1998 SZ₁₀₆, 4, 1, 0; 1998 SM₁₀₇, 4, 1, 0; 1998 SR₁₀₇, 4, 1, 0; 1998 SA₁₁₀, 4, 1, 0; 1998 SD₁₁₀, 8, 2, 1; 1998 SR₁₁₁, 4, 1, 0; 1998 SJ₁₁₅, 4, 1, 0; 1998 SM₁₁₅, 4, 1, 0; 1998 SR₁₁₅, 4, 1, 0; 1998 SX₁₁₅, 4, 1, 0; 1998 SH₁₁₆, 4, 1, 0; 1998 SM₁₁₆, 4, 1, 0; 1998 SR₁₁₇, 8, 2

2000 MAR. 20

M.P.C. 38989

0; 1998 VS₂₁, 4, 1, 0; 1998 VQ₂₅, 4, 1, 0; 1998 VJ₂₆, 4, 1, 0; 1998 VR₂₇, 4, 1, 0; 1998 VB₂₈, 4, 1, 0; 1998 VQ₂₉, 4, 1, 0; 1998 VK₃₀, 4, 1, 0; 1998 VH₃₁, 4, 1, 0; 1998 VK₃₂, 4, 1, 0; 1998 VN₃₂, 4, 1, 0; 1998 VV₃₂, 4, 1, 0; 1998 VE₃₃, 8, 2, 1; 1998 VY₃₃, 4, 1, 0; 1998 VV₃₄, 8, 2, 16; 1998 VY₃₄, 4, 1, 0; 1998 VC₄₄, 8, 1, 0; 1998 WE, 4, 1, 0; 1998 WH, 4, 1, 0; 1998 WP, 8, 2, 1; 1998 WD₁, 8, 2, 35; 1998 WN₁, 4, 1, 0; 1998 WO₁, 4, 1, 0; 1998 WQ₁, 4, 1, 0; 1998 WG₂, 4, 1, 0; 1998 WG₃, 4, 1, 0; 1998 WK₃, 4, 1, 0; 1998 WS₃, 8, 2, 2; 1998 WH₄, 4, 1, 0; 1998 WH₅, 4, 1, 0; 1998 WO₅, 4, 1, 0; 1998 WW₅, 4, 1, 0; 1998 WC₆, 4, 1, 0; 1998 WN₆, 4, 1, 0; 1998 WY₆, 4, 1, 0; 1998 WS₇, 4, 1, 0; 1998 WB₈, 4, 1, 0; 1998 WK₉, 4, 1, 0; 1998 WL₉, 4, 1, 0; 1998 WO₉, 4, 1, 0; 1998 WR₉, 4, 1, 0; 1998 WM₁₀, 4, 1, 0; 1998 WW₁₀, 4, 1, 0; 1998 WD₁₂, 8, 2, 16; 1998 WE₁₂, 4, 1, 0; 1998 WY₁₃, 4, 1, 0; 1998 WQ₁₄, 4, 1, 0; 1998 WD₁₅, 4, 1, 0; 1998 WC₁₆, 8, 2, 10; 1998 WQ₁₆, 4, 1, 0; 1998 WS₁₆, 4, 1, 0; 1998 WT₁₆, 4, 1, 0; 1998 WY₁₈, 4, 1, 0; 1998 WD₂₀, 8, 2, 4; 1998 WZ₂₁, 4, 1, 0; 1998 WL₂₃, 4, 1, 0; 1998 WF₂₄, 4, 1, 0; 1998 WU₃₀, 4, 1, 0; 1998 WY₃₀, 4, 1, 0; 1998 WZ₃₀, 4, 1, 0; 1998 WK₃₂, 12, 2, 16; 1998 XP₂, 8, 2, 5; 1998 XA₃, 4, 1, 0; 1998 XR₃, 4, 1, 0; 1998 XB₅, 4, 1, 0; 1998 XL₅, 4, 1, 0; 1998 XK₉, 4, 1, 0; 1998 XV₁₂, 4, 1, 0; 1998 XS₁₅, 4, 1, 0; 1998 XY₁₆, 4, 1, 0; 1998 XE₁₇, 4, 1, 0; 1998 XT₁₇, 4, 1, 0; 1998 XN₂₁, 4, 1, 0; 1998 XH₂₅, 4, 1, 0; 1998 XA₃₃, 4, 1, 0; 1998 XZ₄₀, 4, 1, 0; 1998 XV₄₉, 4, 1, 0; 1998 XD₅₁, 4, 1, 0; 1998 XN₅₇, 4, 1, 0; 1998 XH₅₉, 4, 1, 0; 1998 XK₇₂, 4, 1, 0; 1998 XS₇₃, 4, 1, 0; 1998 XY₇₇, 4, 1, 0; 1998 XF₈₃, 4, 1, 0; 1998 XQ₈₃, 8, 2, 2; 1998 XO₈₉, 4, 1, 0; 1998 YC₁, 4, 1, 0; 1998 YY₂, 4, 1, 0; 1998 YA₃, 4, 1, 0; 1998 YD₃, 4, 1, 0; 1998 YT₃, 4, 1, 0; 1998 YH₄, 4, 1, 0; 1998 YE₅, 4, 1, 0; 1998 YU₆, 4, 1, 0; 1998 YM₇, 4, 1, 0; 1998 YL₈, 4, 1, 0; 1998 YR₈, 4, 1, 0; 1998 YS₈, 4, 1, 0; 1998 YT₈, 8, 1, 0; 1998 YD₁₀, 4, 1, 0; 1998 YF₁₂, 4, 1, 0; 1998 YP₁₂, 4, 1, 0; 1998 YJ₂₂, 8, 2, 2; 1999 AA, 4, 1, 0; 1999 AD, 4, 1, 0; 1999 AQ, 4, 1, 0; 1999 AK₃, 4, 1, 0; 1999 AC₄, 4, 1, 0; 1999 AM₆, 4, 1, 0; 1999 AM₂₀, 4, 1, 0; 1999 AL₂₁, 4, 1, 0; 1999 AL₂₄, 4, 1, 0; 1999 BK₈, 4, 1, 0; 1999 BN₁₂, 4, 1, 0; 1999 BP₂₅, 8, 2, 2; 1999 CL₁₀, 4, 1, 0; 1999 CS₁₈, 4, 1, 0; 1999 CZ₆₁, 4, 1, 0; 1999 CR₆₄, 8, 2, 1; 1999 CJ₇₈, 4, 1, 0; 1999 CA₉₇, 4, 1, 0; 1999 DC, 4, 1, 0; 1999 GJ₄, 4, 1, 0; 1999 GT₃₁, 4, 1, 0; 1999 GK₄₀, 4, 1, 0; 1999 GT₄₁, 4, 1, 0; 1999 JY₄₉, 4, 1, 0; 1999 JP₁₁₁, 4, 1, 0; 1999 LD₃₁, 4, 1, 0; 1999 NJ₃₁, 4, 1, 0; 1999 NV₃₆, 4, 1, 0; 1999 NT₃₈, 4, 1, 0; 1999 NA₃₉, 4, 1, 0; 1999 RP₂₃, 4, 1, 0; 1999 RW₂₅, 4, 1, 0; 1999 RB₃₁, 4, 1, 0; 1999 RM₄₉, 8, 2, 85; 1999 RF₅₀, 4, 1, 0; 1999 RX₅₆, 4, 1, 0; 1999 RO₆₉, 8, 2, 26; 1999 RM₇₀, 4, 1, 0; 1999 RQ₇₁, 4, 1, 0; 1999 RM₇₄, 4, 1, 0; 1999 RU₇₄, 4, 1, 0; 1999 RP₇₅, 4, 1, 0; 1999 RJ₇₉, 4, 1, 0; 1999 RF₈₀, 4, 1, 0; 1999 RN₈₆, 4, 1, 0; 1999 RR₈₇, 4, 1, 0; 1999 RY₉₀, 4, 1, 0; 1999 RY₁₀₁, 4, 1, 0; 1999 RR₁₀₄, 4, 1, 0; 1999 RA₁₀₅, 8, 2, 42; 1999 RU₁₁₄, 4, 1, 0; 1999 RC₁₂₃, 4, 1, 0; 1999 RL₁₃₁, 8, 2, 16; 1999 RL₁₃₃, 8, 2, 28; 1999 RP₁₄₃, 4, 1, 0; 1999 RK₁₄₀, 4, 1, 0; 1999 RK₁₄₄, 4, 1, 0; 1999 RM₁₄₄, 8, 2, 25; 1999 RC₁₄₅, 4, 1, 0; 1999 RB₁₄₇, 8, 2, 27; 1999 RF₁₄₇, 4, 1, 0; 1999 RS₁₅₃, 4, 1, 0; 1999 RX₁₅₃, 4, 1, 0; 1999 RS₁₆₀, 4, 1, 0; 1999 RW₁₆₀, 12, 2, 23; 1999 RW₁₆₂, 4, 1, 0; 1999 RF₁₆₃, 8, 2, 9; 1999 RX₁₆₄, 4, 1, 0; 1999 RJ₁₆₉, 4, 1, 0; 1999 RK₁₆₉, 4, 1, 0; 1999 RD₁₉₁, 8, 2, 25; 1999 RH₁₉₁, 4, 1, 0; 1999 RQ₁₉₂, 4, 1, 0; 1999 RQ₁₉₅, 8, 2, 26; 1999 RS₁₉₇, 8, 2, 27; 1999 RW₁₉₇, 8, 2, 25; 1999 RC₁₉₉, 8, 2, 25; 1999 RJ₂₁₀, 8, 2, 68; 1999 RK₂₁₀, 12, 3, 68; 1999 RA₂₁₁, 4, 1, 0; 1999 RL₂₁₁, 8, 2, 34; 1999 TU₄, 8, 2, 28; 1999 TV₆, 4, 1, 0; 1999 TD₁₁, 4, 1, 0; 1999 TY₁₅, 4, 1, 0; 1999 TL₁₉, 4, 1, 0; 1999 TS₂₁, 4, 1, 0; 1999 TS₂₅, 8, 2, 40; 1999 TW₂₆, 8, 2, 13; 1999 TJ₂₇, 12, 3, 36; 1999 TR₂₇, 12, 3, 44; 1999 TP₃₀, 8, 2, 29; 1999 UU₅, 4, 1, 0; 1999 UN₇, 4, 1, 0; 1999 UO₁₃, 8, 2, 12; 1999 UU₁₃, 3, 1, 0; 1999 UD₃₁, 8, 2, 30; 1999 UP₃₅, 4, 1, 0; 1999 UC₃₆, 8, 2, 12; 1999 UA₃₈, 4, 1, 0; 1999 VH₂, 4, 1, 0; 1999 VY₂, 4, 1, 0; 1999 VB₆, 4, 1, 0; 1999 VJ₆, 4, 1, 0; 1999 VF₈, 4, 1, 0; 1999 VJ₈, 4, 1, 0; 1999 VE₉, 4, 1, 0; 1999 VQ₁₀, 4, 1, 0; 1999 VV₁₀, 4, 1, 0; 1999 VU₂₀, 4, 1, 0; 1999 VR₂₈, 4, 1, 0; 1999 VS₃₀, 4, 1, 0; 1999 VB₃₂, 4, 1, 0; 1999 VM₄₄, 4, 1, 0; 1999 VN₄₈, 12, 3, 68; 1999 VQ₄₉, 4, 1, 0; 1999 VU₄₉, 4, 1, 0; 1999 VO₅₀, 4, 1, 0; 1999 VB₅₂, 4, 1, 0; 1999 VE₆₃, 8, 2, 63; 1999 VZ₆₅, 4, 1, 0; 1999 VK₇₂, 4, 1, 0; 1999 VM₇₂, 4, 1, 0; 1999 VX₇₃, 8, 2, 30; 1999 VL₇₇, 12, 3, 31; 1999 VQ₇₇, 4, 1, 0; 1999 VR₇₇, 12, 3, 36; 1999 VS₇₇, 4, 1, 0; 1999 VU₇₇, 8, 2, 31; 1999 VW₇₇, 8, 2, 34; 1999 VD₇₈, 8, 2, 60; 1999 VR₇₈, 8, 2, 11; 1999 VB₇₉, 8, 2, 13; 1999 VG₇₉, 8, 2, 13; 1999 VS₇₉, 8, 2, 13; 1999 VC₈₀, 8, 2, 13; 1999 VE₈₀, 8, 2, 13; 1999 VO₈₀, 4, 1, 0; 1999 VU₈₀, 4, 1, 0; 1999 VS₈₁, 4, 1, 0; 1999 VT₈₁, 4, 1, 0; 1999 VU₈₁, 8, 2, 30; 1999 VW₈₁, 8, 2, 30; 1999 VC₈₂, 4, 1, 0; 1999 VW₈₃, 8, 2, 33; 1999 VR₈₅, 4, 1, 0; 1999 VS₈₅, 8, 2, 13; 1999 VT₈₅, 4, 1, 0; 1999 VW₈₅, 8, 2, 13; 1999 VA₈₆, 8, 2, 13; 1999 VB₈₆, 4, 1, 0; 1999 VE₈₆, 4, 1, 0; 1999 VM₈₇, 8, 2, 13; 1999 VL₈₈, 4, 1, 0; 1999 VS₈₈, 8, 2, 23; 1999 VX₈₈, 4, 1, 0; 1999 VB₈₉, 4, 1, 0; 1999 VS₈₉, 8, 2, 28; 1999 VV₈₉, 4, 1, 0; 1999 VD₉₀, 8, 2, 29; 1999 VV₉₀, 8, 2, 29; 1999 VU₉₀, 8, 2, 31; 1999 VH₉₂, 4, 1, 0; 1999 VK₉₃, 4, 1, 0; 1999 VC₉₆, 4, 1, 0; 1999 VE₁₀₀, 4, 1, 0; 1999 VX₁₀₀, 4, 1, 0; 1999 VR₁₀₁, 4, 1, 0; 1999 VJ₁₀₄, 4, 1, 0; 1999 VJ₁₀₅, 4, 1, 0; 1999 VE₁₀₆, 4, 1, 0; 1999 VJ₁₀₆, 4, 1, 0; 1999 VP₁₀₆, 4, 1, 0; 1999 VZ₁₀₈, 4, 1, 0; 1999 VN₁₁₃, 4, 1, 0; 1999 VO₁₁₃, 4, 1, 0; 1999 VQ₁₁₃, 4, 1, 0; 1999 VR₁₁₃, 4, 1, 0; 1999 VT₁₁₃, 4, 1, 0; 1999 VG₁₁₄, 4, 1, 0; 1999 VJ₁₁₄, 4, 1, 0; 1999 VT₁₁₄, 4, 1, 0; 1999 VZ₁₁₄, 4, 1, 0; 1999 VA₁₁₅, 4, 1, 0; 1999 VN₁₁₉, 8, 2, 33; 1999 VU₁₁₉, 12, 2, 33; 1999 VS₁₂₉, 4, 1, 0; 1999 VY₁₃₀, 4, 1, 0; 1999 VW₁₃₃, 8, 2, 13; 1999 VX₁₃₃, 4, 1, 0; 1999 VJ₁₃₅, 8, 2, 27; 1999 VQ₁₃₅, 4, 1, 0; 1999 VR₁₃₅, 8, 2, 13; 1999 VX₁₃₅, 4, 1, 0; 1999 VO₁₄₃, 8, 2, 48; 1999 VP₁₄₃, 4, 1, 0; 1999 VT₁₄₃, 4, 1, 0; 1999 VU₁₄₃, 4, 1, 0; 1999 VA₁₄₄, 8, 2, 62; 1999 VB₁₄₄, 8, 2, 44; 1999 VJ₁₄₄, 8, 2, 44; 1999 VP₁₄₄, 12, 3, 45; 1999 VA₁₅₀, 4, 1, 0; 1999 VD₁₅₀, 4, 1, 0; 1999 VR₁₅₀, 8, 2, 36; 1999 VC₁₅₁, 4, 1, 0; 1999 VF₁₅₁, 4, 1, 0; 1999 VC₁₅₆, 8, 2, 31; 1999 VL₁₅₇, 12, 3, 26; 1999 VQ₁₆₂, 4, 1, 0; 1999 VZ₁₆₂, 8, 2, 23; 1999 WA₁, 4, 1, 0; 1999 WU₈, 4, 1, 0; 1999 WW₈, 4, 1, 0; 1999 WY₈, 4, 1, 0; 1999 WC₁₀, 4, 1, 0; 1999 WO₁₁, 4, 1, 0; 1999 WT₁₆, 4, 1, 0; 1999 WW₁₉ *, 4, 1, 0; 1999 XX₂, 16, 4, 42; 1999 XN₆, 4,

1, 0; 1999 XP₇, 4, 1, 0; 1999 XT₇, 4, 1, 0; 1999 XK₁₄, 4, 1, 0; 1999 XL₁₄, 4, 1, 0; 1999 XD₁₅, 4, 1, 0; 1999 XY₁₅, 4, 1, 0; 1999 XZ₁₅, 4, 1, 0; 1999 XS₁₇, 4, 1, 0; 1999 XY₁₇, 4, 1, 0; 1999 XX₁₈, 4, 1, 0; 1999 XM₁₉, 4, 1, 0; 1999 XW₂₁, 4, 1, 0; 1999 XD₂₂, 4, 1, 0; 1999 XE₂₂, 4, 1, 0; 1999 XJ₂₂, 8, 2, 26; 1999 XD₂₃, 4, 1, 0; 1999 XE₂₃, 8, 2, 31; 1999 XS₂₃, 4, 1, 0; 1999 XG₂₄, 4, 1, 0; 1999 XY₂₆, 4, 1, 0; 1999 XG₂₇, 4, 1, 0; 1999 XA₂₈, 4, 1, 0; 1999 XT₃₁, 4, 1, 0; 1999 XU₃₁, 4, 1, 0; 1999 XY₃₁, 4, 1, 0; 1999 XA₃₂, 4, 1, 0; 1999 XB₃₂, 4, 1, 0; 1999 XC₃₂, 4, 1, 0; 1999 XD₃₂, 4, 1, 0; 1999 XJ₃₂, 4, 1, 0; 1999 XM₃₂, 4, 1, 0; 1999 XT₃₂, 4, 1, 0; 1999 XV₃₂, 4, 1, 0; 1999 XW₃₂, 4, 1, 0; 1999 XY₃₂, 4, 1, 0; 1999 XZ₃₂, 4, 1, 0; 1999 XB₃₃, 4, 1, 0; 1999 XC₃₃, 4, 1, 0; 1999 XE₃₃, 4, 1, 0; 1999 XH₃₃, 4, 1, 0; 1999 XJ₃₃, 4, 1, 0; 1999 XM₃₃, 4, 1, 0; 1999 XN₃₃, 4, 1, 0; 1999 XO₃₃, 4, 1, 0; 1999 XU₃₃, 4, 1, 0; 1999 XV₃₃, 4, 1, 0; 1999 XX₃₃, 4, 1, 0; 1999 XA₃₄, 4, 1, 0; 1999 XH₃₄, 4, 1, 0; 1999 XN₃₄, 4, 1, 0; 1999 XP₃₄, 4, 1, 0; 1999 XR₃₄, 4, 1, 0; 1999 XT₃₄, 4, 1, 0; 1999 XU₃₄, 4, 1, 0; 1999 XX₃₄, 4, 1, 0; 1999 XP₃₈, 4, 1, 0; 1999 XQ₃₈, 4, 1, 0; 1999 XR₃₈, 4, 1, 0; 1999 XA₃₉, 4, 1, 0; 1999 XD₄₀, 4, 1, 0; 1999 XN₄₀, 4, 1, 0; 1999 XX₄₀, 4, 1, 0; 1999 XZ₄₁, 4, 1, 0; 1999 XN₄₃, 4, 1, 0; 1999 XY₄₃, 4, 1, 0; 1999 XC₄₄, 4, 1, 0; 1999 XT₄₄, 4, 1, 0; 1999 XB₄₅, 4, 1, 0; 1999 XO₄₅, 4, 1, 0; 1999 XE₄₆, 8, 2, 10; 1999 XR₅₅, 4, 1, 0; 1999 XV₅₅, 4, 1, 0; 1999 XY₅₈, 4, 1, 0; 1999 XK₆₀, 4, 1, 0; 1999 XG₈₃, 4, 1, 0; 1999 XO₉₃, 4, 1, 0; 1999 XU₉₃, 4, 1, 0; 1999 XM₉₄, 8, 2, 2; 1999 XT₉₄, 4, 1, 0; 1999 XU₉₄, 4, 1, 0; 1999 XV₉₄, 4, 1, 0; 1999 XW₉₄, 8, 2, 6; 1999 XN₉₅, 4, 1, 0; 1999 XP₁₀₇, 8, 2, 3; 1999 XJ₁₀₇, 8, 2, 16; 1999 XY₁₀₇, 4, 1, 0; 1999 XA₁₀₈, 4, 1, 0; 1999 XB₁₀₈, 4, 1, 0; 1999 XC₁₀₈, 4, 1, 0; 1999 XT₁₀₈, 4, 1, 0; 1999 XW₁₀₈, 4, 1, 0; 1999 XL₁₀₉, 4, 1, 0; 1999 XH₁₁₇, 8, 2, 44; 1999 XY₁₁₇, 4, 1, 0; 1999 XJ₁₁₈, 4, 1, 0; 1999 XW₁₁₈, 4, 1, 0; 1999 XE₁₁₉, 4, 1, 0; 1999 XV₁₁₉, 4, 1, 0; 1999 XX₁₁₉, 4, 1, 0; 1999 XJ₁₂₀, 4, 1, 0; 1999 XA₁₂₁, 4, 1, 0; 1999 XY₁₂₂, 4, 1, 0; 1999 XP₁₂₆, 4, 1, 0; 1999 XW₁₃₃, 4, 1, 0; 1999 XO₁₃₆, 4, 1, 0; 1999 XR₁₃₆, 4, 1, 0; 1999 XS₁₃₆, 4, 1, 0; 1999 XX₁₃₆, 4, 1, 0; 1999 XO₁₄₃, 8, 2, 1; 1999 XY₁₄₄, 4, 1, 0; 1999 XZ₁₄₈, 4, 1, 0; 1999 XF₁₅₁, 4, 1, 0; 1999 XP₁₅₃, 4, 1, 0; 1999 XS₁₆₂, 12, 3, 57; 1999 XY₁₆₃, 4, 1, 0; 1999 XE₁₆₄, 4, 1, 0; 1999 XF₁₆₄, 4, 1, 0; 1999 XP₁₆₄, 4, 1, 0; 1999 XQ₁₆₄, 4, 1, 0; 1999 XR₁₆₄, 8, 1, 0; 1999 XU₁₆₄, 4, 1, 0; 1999 XV₁₆₄, 4, 1, 0; 1999 XW₁₆₄, 4, 1, 0; 1999 XX₁₆₄, 4, 1, 0; 1999 XY₁₆₄, 4, 1, 0; 1999 XJ₁₆₄, 4, 1, 0; 1999 XB₁₆₅, 4, 1, 0; 1999 XH₁₆₅, 8, 2, 117; 1999 XJ₁₆₅, 4, 1, 0; 1999 XK₁₆₅, 4, 1, 0; 1999 XN₁₆₅, 4, 1, 0; 1999 XO₁₆₅, 4, 1, 0; 1999 XQ₁₆₅, 4, 1, 0; 1999 XU₁₆₅, 4, 1, 0; 1999 XY₁₆₅, 4, 1, 0; 1999 XX₁₆₆, 4, 1, 0; 1999 XC₁₆₇, 4, 1, 0; 1999 XE₁₆₇, 4, 1, 0; 1999 XQ₁₆₈, 4, 1, 0; 1999 XW₁₇₁, 4, 1, 0; 1999 XM₁₇₂, 2, 1, 0; 1999 XU₁₇₄, 4, 1, 0; 1999 XX₁₇₄, 4, 1, 0; 1999 XO₁₇₅, 4, 1, 0; 1999 XQ₁₇₅, 4, 1, 0; 1999 XS₁₇₅, 8, 2, 93; 1999 XW₁₇₅, 4, 1, 0; 1999 XH₁₇₆, 4, 1, 0; 1999 XL₁₇₆, 4, 1, 0; 1999 XE₁₇₇, 4, 1, 0; 1999 XF₁₇₇, 4, 1, 0; 1999 XD₁₈₀, 8, 2, 10; 1999 XG₁₈₀, 8, 2, 10; 1999 XT₁₈₀, 8, 2, 93; 1999 XX₁₉₇, 4, 1, 0; 1999 XM₂₀₄, 4, 1, 0; 1999 XR₂₀₅, 4, 1, 0; 1999 XP₂₁₂, 4, 1, 0; 1999 XD₂₂₁, 4, 1, 0; 1999 XE₂₂₁, 8, 2, 114; 1999 XG₂₂₁, 16, 4, 126; 1999 XJ₂₂₁, 12, 3, 36; 1999 XC₂₂₃, 4, 1, 0; 1999 XB₂₃₁, 4, 1, 0; 1999 XQ₂₃₁, 4, 1, 0; 1999 XV₂₃₁, 8, 2, 1; 1999 YG, 4, 1, 0; 1999 YM₃, 8, 2, 10; 1999 YL₉, 4, 1, 0; 1999 YM₉, 8, 2, 105; 1999 YN₉, 4, 1, 0; 1999 YT₉, 4, 1, 0; 1999 YU₉, 4, 1, 0; 1999 YR₁₃, 4, 1, 0; 1999 YU₁₃, 4, 1, 0; 1999 YV₁₃, 4, 1, 0; 1999 YW₁₃, 4, 1, 0; 1999 YY₁₄, 4, 1, 0; 1999 YK₁₆, 4, 1, 0; 1999 YL₁₆, 4, 1, 0; 2000 AG, 4, 1, 0; 2000 AZ, 4, 1, 0; 2000 AD₁, 4, 1, 0; 2000 AU₁, 4, 1, 0; 2000 AX₁, 4, 1, 0; 2000 AZ₁, 8, 2, 2; 2000 AE₂, 8, 1, 0; 2000 AL₂, 4, 1, 0; 2000 AM₂, 4, 1, 0; 2000 AP₂, 8, 2, 10; 2000 AQ₂, 4, 1, 0; 2000 AS₄, 4, 1, 0; 2000 AE₅, 8, 2, 84; 2000 AE₁₀, 4, 1, 0; 2000 AF₁₀, 8, 2, 8; 2000 AN₁₁, 4, 1, 0; 2000 AS₁₁, 4, 1, 0; 2000 AV₁₁,

0; 2000 AH₈₉, 4, 1, 0; 2000 AK₈₉, 4, 1, 0; 2000 AO₈₉, 4, 1, 0; 2000 AK₉₁, 4, 1, 0; 2000 AL₉₁, 8, 2, 27; 2000 AS₉₁, 4, 1, 0; 2000 AU₉₁, 4, 1, 0; 2000 AB₉₂, 4, 1, 0; 2000 AC₉₂, 4, 1, 0; 2000 AE₉₂, 4, 1, 0; 2000 AH₉₂, 4, 1, 0; 2000 AJ₉₂, 4, 1, 0; 2000 AT₉₂, 4, 1, 0; 2000 AR₉₃, 4, 1, 0; 2000 AV₉₃, 4, 1, 0; 2000 AJ₉₄, 4, 1, 0; 2000 AD₉₅, 4, 1, 0; 2000 AJ₉₅, 4, 1, 0; 2000 AK₉₅, 4, 1, 0; 2000 AM₉₅, 4, 1, 0; 2000 AQ₉₅, 8, 2, 28; 2000 AR₉₅, 4, 1, 0; 2000 AS₉₅, 4, 1, 0; 2000 AT₉₅, 4, 1, 0; 2000 AU₉₅, 8, 2, 86; 2000 AV₉₅, 4, 1, 0; 2000 AW₉₅, 4, 1, 0; 2000 AX₉₅, 8, 2, 2; 2000 AY₉₅, 8, 2, 57; 2000 AZ₉₅, 4, 1, 0; 2000 AA₉₆, 4, 1, 0; 2000 AB₉₆, 8, 2, 42; 2000 AD₉₆, 8, 2, 19; 2000 AE₉₆, 4, 1, 0; 2000 AG₉₆, 4, 1, 0; 2000 AK₉₆, 12, 3, 82; 2000 AQ₉₆, 8, 2, 83; 2000 AR₉₆, 4, 1, 0; 2000 AV₉₆, 4, 1, 0; 2000 AA₉₇, 8, 2, 6; 2000 AB₉₇, 4, 1, 0; 2000 AC₉₇, 4, 1, 0; 2000 AE₉₇, 4, 1, 0; 2000 AF₉₇, 4, 1, 0; 2000 AG₉₇, 4, 1, 0; 2000 AH₉₇, 4, 1, 0; 2000 AJ₉₇, 4, 1, 0; 2000 AK₉₇, 4, 1, 0; 2000 AL₉₇, 4, 1, 0; 2000 AM₉₇, 4, 1, 0; 2000 AN₉₇, 4, 1, 0; 2000 AP₉₇, 4, 1, 0; 2000 AS₉₇, 4, 1, 0; 2000 AT₉₇, 4, 1, 0; 2000 AU₉₇, 4, 1, 0; 2000 AV₉₇, 4, 1, 0; 2000 AW₉₇, 4, 1, 0; 2000 AX₉₇, 4, 1, 0; 2000 AY₉₇, 4, 1, 0; 2000 AZ₉₇, 4, 1, 0; 2000 AA₉₈, 4, 1, 0; 2000 AB₉₈, 4, 1, 0; 2000 AC₉₈, 4, 1, 0; 2000 AD₉₈, 4, 1, 0; 2000 AE₉₈, 4, 1, 0; 2000 AF₉₈, 4, 1, 0; 2000 AG₉₈, 4, 1, 0; 2000 AH₉₈, 4, 1, 0; 2000 AI₉₈, 4, 1, 0; 2000 AJ₉₈, 4, 1, 0; 2000 AK₉₈, 4, 1, 0; 2000 AL₉₈, 4, 1, 0; 2000 AM₉₈, 4, 1, 0; 2000 AN₉₈, 4, 1, 0; 2000 AP₉₈, 4, 1, 0; 2000 AS₉₈, 4, 1, 0; 2000 AT₉₈, 4, 1, 0; 2000 AU₉₈, 4, 1, 0; 2000 AV₉₈, 4, 1, 0; 2000 AW₉₈, 4, 1, 0; 2000 AX₉₈, 4, 1, 0; 2000 AY₉₈, 4, 1, 0; 2000 AZ₉₈, 4, 1, 0; 2000 AA₉₉, 4, 1, 0; 2000 AB₉₉, 4, 1, 0; 2000 AC₉₉, 4, 1, 0; 2000 AD₉₉, 4, 1, 0; 2000 AE₉₉, 4, 1, 0; 2000 AF₉₉, 4, 1, 0; 2000 AG₉₉, 4, 1, 0; 2000 AH₉₉, 4, 1, 0; 2000 AI₉₉, 4, 1, 0; 2000 AJ₉₉, 4, 1, 0; 2000 AK₉₉, 4, 1, 0; 2000 AL₉₉, 4, 1, 0; 2000 AM₉₉, 4, 1, 0; 2000 AN₉₉, 4, 1, 0; 2000 AP₉₉, 4, 1, 0; 2000 AS₉₉, 4, 1, 0; 2000 AT₉₉, 4, 1, 0; 2000 AU₉₉, 4, 1, 0; 2000 AV₉₉, 4, 1, 0; 2000 AW₉₉, 4, 1, 0; 2000 AX₉₉, 4, 1, 0; 2000 AY₉₉, 4, 1, 0; 2000 AZ₉₉, 4, 1, 0; 2000 AA₀₀, 4, 1, 0; 2000 AB₀₀, 4, 1, 0; 2000 AC₀₀, 4, 1, 0; 2000 AD₀₀, 4, 1, 0; 2000 AE₀₀, 4, 1, 0; 2000 AF₀₀, 4, 1, 0; 2000 AG₀₀, 4, 1, 0; 2000 AH₀₀, 4, 1, 0; 2000 AI₀₀, 4, 1, 0; 2000 AJ₀₀, 4, 1, 0; 2000 AK₀₀, 4, 1, 0; 2000 AL₀₀, 4, 1, 0; 2000 AM₀₀, 4, 1, 0; 2000 AN₀₀, 4, 1, 0; 2000 AP₀₀, 4, 1, 0; 2000 AS₀₀, 4, 1, 0; 2000 AT₀₀, 4, 1, 0; 2000 AU₀₀, 4, 1, 0; 2000 AV₀₀, 4, 1, 0; 2000 AW₀₀, 4, 1, 0; 2000 AX₀₀, 4, 1, 0; 2000 AY₀₀, 4, 1, 0; 2000 AZ₀₀, 4, 1, 0; 2000 AA₀₁, 4, 1, 0; 2000 AB₀₁, 4, 1, 0; 2000 AC₀₁, 4, 1, 0; 2000 AD₀₁, 4, 1, 0; 2000 AE₀₁, 4, 1, 0; 2000 AF₀₁, 4, 1, 0; 2000 AG₀₁, 4, 1, 0; 2000 AH₀₁, 4, 1, 0; 2000 AI₀₁, 4, 1, 0; 2000 AJ₀₁, 4, 1, 0; 2000 AK₀₁, 4, 1, 0; 2000 AL₀₁, 4, 1, 0; 2000 AM₀₁, 4, 1, 0; 2000 AN₀₁, 4, 1, 0; 2000 AP₀₁, 4, 1, 0; 2000 AS₀₁, 4, 1, 0; 2000 AT₀₁, 4, 1, 0; 2000 AU₀₁, 4, 1, 0; 2000 AV₀₁, 4, 1, 0; 2000 AW₀₁, 4, 1, 0; 2000 AX₀₁, 4, 1, 0; 2000 AY₀₁, 4, 1, 0; 2000 AZ₀₁, 4, 1, 0; 2000 AA₀₂, 4, 1, 0; 2000 AB₀₂, 4, 1, 0; 2000 AC₀₂, 4, 1, 0; 2000 AD₀₂, 4, 1, 0; 2000 AE₀₂, 4, 1, 0; 2000 AF₀₂, 4, 1, 0; 2000 AG₀₂, 4, 1, 0; 2000 AH₀₂, 4, 1, 0; 2000 AI₀₂, 4, 1, 0; 2000 AJ₀₂, 4, 1, 0; 2000 AK₀₂, 4, 1, 0; 2000 AL₀₂, 4, 1, 0; 2000 AM₀₂, 4, 1, 0; 2000 AN₀₂, 4, 1, 0; 2000 AP₀₂, 4, 1, 0; 2000 AS₀₂, 4, 1, 0; 2000 AT₀₂, 4, 1, 0; 2000 AU₀₂, 4, 1, 0; 2000 AV₀₂, 4, 1, 0; 2000 AW₀₂, 4, 1, 0; 2000 AX₀₂, 4, 1, 0; 2000 AY₀₂, 4, 1, 0; 2000 AZ₀₂, 4, 1, 0; 2000 AA₀₃, 4, 1, 0; 2000 AB₀₃, 4, 1, 0; 2000 AC_{03</}

2000 AC209, 4, 1, 0; 2000 AD209, 4, 1, 0; 2000 AE213, 4, 1, 0; 2000 AZ215, 4, 1, 0; 2000 AK216, 4, 1, 0; 2000 AF227, 4, 1, 0; 2000 AO227, 4, 1, 0; 2000 AW227, 4, 1, 0; 2000 AQ228, 8, 2, 52; 2000 AS228, 4, 1, 0; 2000 AK230, 4, 1, 0; 2000 AT230, 8, 2, 27; 2000 AD231, 4, 1, 0; 2000 AD233, 4, 1, 0; 2000 AG233, 4, 1, 0; 2000 AJ233, 8, 2, 6; 2000 AM233, 8, 2, 5; 2000 AN233, 8, 2, 5; 2000 AO233, 4, 1, 0; 2000 AP233, 4, 1, 0; 2000 AG236, 8, 2, 75; 2000 AO236, 4, 1, 0; 2000 AQ236, 8, 2, 11; 2000 AR236, 8, 2, 13; 2000 AS236, 12, 3, 36; 2000 AU236, 4, 1, 0; 2000 AZ236, 4, 1, 0; 2000 AF237, 4, 1, 0; 2000 AL237, 4, 1, 0; 2000 AO237, 4, 1, 0; 2000 AP237, 8, 2, 59; 2000 AQ237, 4, 1, 0; 2000 AR237, 4, 1, 0; 2000 AT237, 8, 2, 16; 2000 AW237, 4, 1, 0; 2000 AZ237, 8, 2, 27; 2000 AZ239, 4, 1, 0; 2000 AA240, 4, 1, 0; 2000 AB240, 4, 1, 0; 2000 AC240, 4, 1, 0; 2000 AD240, 4, 1, 0; 2000 AE240, 4, 1, 0; 2000 AO240, 4, 1, 0; 2000 AX241, 4, 1, 0; 2000 AB242, 4, 1, 0; 2000 AS242, 4, 1, 0; 2000 AU242, 4, 1, 0; 2000 AY242, 4, 1, 0; 2000 AA243, 4, 1, 0; 2000 AC243, 8, 2, 23; 2000 AD243, 4, 1, 0; 2000 AE243, 4, 1, 0; 2000 AG243, 4, 1, 0; 2000 AH243, 16, 4, 90; 2000 AO243, 4, 1, 0; 2000 AV243, 4, 1, 0; 2000 AX243, 8, 2, 77; 2000 AX244, 4, 1, 0; 2000 AZ244, 4, 1, 0; 2000 AN245, 8, 2, 1; 2000 AJ246, 4, 1, 0; 2000 BC, 4, 1, 0; 2000 BD, 4, 1, 0; 2000 BE2, 4, 1, 0; 2000 BF2, 4, 1, 0; 2000 BG2, 4, 1, 0; 2000 BH2, 4, 1, 0; 2000 BP2, 4, 1, 0; 2000 BB3, 4, 1, 0; 2000 BC3, 4, 1, 0; 2000 BE3, 4, 1, 0; 2000 BG3, 4, 1, 0; 2000 BH3, 4, 1, 0; 2000 BJ3, 4, 1, 0; 2000 BK3, 4, 1, 0; 2000 BM3, 8, 2, 85; 2000 BN3, 4, 1, 0; 2000 BP3, 4, 1, 0; 2000 BQ3, 4, 1, 0; 2000 BR3, 4, 1, 0; 2000 BT3, 4, 1, 0; 2000 BW3, 8, 2, 2; 2000 BA4, 4, 1, 0; 2000 BX10, 4, 1, 0; 2000 BD11, 4, 1, 0; 2000 BU12, 4, 1, 0; 2000 BE13, 12, 3, 85; 2000 BT13, 4, 1, 0; 2000 BC14, 4, 1, 0; 2000 BD14, 8, 2, 27; 2000 BE14, 4, 1, 0; 2000 BK14, 4, 1, 0; 2000 BL14, 4, 1, 0; 2000 BN14, 4, 1, 0; 2000 BP14, 4, 1, 0; 2000 BQ14, 4, 1, 0; 2000 BR14, 4, 1, 0; 2000 BS14, 4, 1, 0; 2000 BV14, 4, 1, 0; 2000 BW14, 4, 1, 0; 2000 BX14, 8, 2, 115; 2000 BY14, 8, 2, 1; 2000 BZ14, 4, 1, 0; 2000 BA15, 4, 1, 0; 2000 BD15, 4, 1, 0; 2000 BE15, 4, 1, 0; 2000 BF15, 4, 1, 0; 2000 BJ18, 4, 1, 0; 2000 BG19, 4, 1, 0; 2000 BH19, 4, 1, 0; 2000 BJ19, 4, 1, 0; 2000 BL21, 4, 1, 0; 2000 BR22, 4, 1, 0; 2000 BT22, 4, 1, 0; 2000 BX22, 4, 1, 0; 2000 BY22, 4, 1, 0; 2000 BZ22, 4, 1, 0; 2000 BB23, 4, 1, 0; 2000 BC23, 4, 1, 0; 2000 BE23, 4, 1, 0; 2000 BF23, 4, 1, 0; 2000 BH23, 4, 1, 0; 2000 BK23, 4, 1, 0; 2000 BX24, 4, 1, 0; 2000 BF25, 4, 1, 0; 2000 BM25, 4, 1, 0; 2000 BC26, 4, 1, 0; 2000 BN26, 4, 1, 0; 2000 BR26, 4, 1, 0; 2000 BS26, 4, 1, 0; 2000 BT26, 8, 2, 27; 2000 BU26, 4, 1, 0; 2000 BV26, 4, 1, 0; 2000 BW26, 8, 2, 27; 2000 BY26, 8, 2, 28; 2000 BA27, 4, 1, 0; 2000 BE27, 4, 1, 0; 2000 BF27, 8, 2, 28; 2000 BJ27, 12, 3, 85; 2000 BK27, 12, 3, 85; 2000 BL27, 8, 2, 28; 2000 BM27, 4, 1, 0; 2000 BN27, 4, 1, 0; 2000 BQ27, 12, 3, 28; 2000 BT27, 4, 1, 0; 2000 BW27, 4, 1, 0; 2000 BX27, 8, 2, 26; 2000 BZ27, 12, 3, 82; 2000 BE28, 4, 1, 0; 2000 BN28, 4, 1, 0; 2000 BT28, 4, 1, 0; 2000 BW28, 8, 2, 2; 2000 BY28, 4, 1, 0; 2000 BZ29, 4, 1, 0; 2000 BA30, 8, 2, 57; 2000 BC30, 16, 4, 109; 2000 BG30, 4, 1, 0; 2000 BM30, 4, 1, 0; 2000 BN30, 4, 1, 0; 2000 CA, 4, 1, 0; 2000 CJ, 12, 3, 28; 2000 CL, 4, 1, 0; 2000 CN, 4, 1, 0; 2000 CQ, 4, 1, 0; 2000 CU, 4, 1, 0; 2000 CV, 8, 2, 109; 2000 CW, 4, 1, 0; 2000 CX, 4, 1, 0; 2000 CY, 4, 1, 0; 2000 CA1, 4, 1, 0; 2000 CB1, 8, 2, 28; 2000 CD1, 4, 1, 0; 2000 CE1, 4, 1, 0; 2000 CF1, 8, 2, 23; 2000 CG1, 8, 2, 28; 2000 CH1, 8, 2, 28; 2000 CL1, 8, 2, 6; 2000 CM1, 4, 1, 0; 2000 CQ1, 8, 2, 24; 2000 CR1, 4, 1, 0; 2000 CT1, 4, 1, 0; 2000 CU1, 4, 1, 0; 2000 CV1, 4, 1, 0; 2000 CW1, 4, 1, 0; 2000 CZ1, 4, 1, 0; 2000 CA2, 4, 1, 0; 2000 CB2, 8, 2, 24; 2000 CC2, 4, 1, 0; 2000 CD2, 8, 2, 6; 2000 CE2, 4, 1, 0; 2000 CF2, 4, 1, 0; 2000 CG2, 8, 2, 6; 2000 CK2, 4, 1, 0; 2000 CM2, 4, 1, 0; 2000 CO2, 4, 1, 0; 2000 CC12, 4, 1, 0; 2000 CM13, 4, 1, 0; 2000 CS13, 4, 1, 0; 2000 CO14, 8, 2, 25; 2000 CX14, 8, 2, 28; 2000 CM17, 4, 1, 0; 2000 CF18, 4, 1, 0; 2000 CG18, 4, 1, 0; 2000 CV18, 8, 2, 28; 2000 CS19, 4, 1, 0; 2000 CC20, 8, 2, 25; 2000 CD20, 8, 2, 25; 2000 CE20, 4, 1, 0; 2000 CH20, 8, 2, 27; 2000 CN20, 4, 1, 0; 2000 CC20, 4, 1, 0; 2000 CE21, 4, 1, 0; 2000 CM21, 4, 1, 0; 2000 CT21, 8, 2, 26; 2000 CF22, 4, 1, 0; 2000 CQ22, 4, 1, 0; 2000 CW22, 4, 1, 0; 2000 CJ23, 4, 1, 0; 2000 CO23, 8, 2, 26; 2000 CQ23, 4, 1, 0; 2000 CC23, 8, 2, 26; 2000 CZ23, 8, 2, 2; 2000 CJ24, 4, 1, 0; 2000 CS24, 4, 1, 0; 200

2000 MAR. 20

M.P.C. 38991

2000 CR₃₅, 4, 1, 0; 2000 CY₃₅, 8, 2, 82; 2000 CZ₃₅, 4, 1, 0; 2000 CB₃₆, 8, 2, 31; 2000 CD₃₆, 4, 1, 0; 2000 CG₃₆, 4, 1, 0; 2000 CO₃₆, 4, 1, 0; 2000 CX₃₆, 4, 1, 0; 2000 CC₃₇, 4, 1, 0; 2000 CD₃₇, 4, 1, 0; 2000 CE₃₇, 4, 1, 0; 2000 CW₃₇, 4, 1, 0; 2000 CL₃₈, 4, 1, 0; 2000 CS₃₈, 4, 1, 0; 2000 CU₃₈, 4, 1, 0; 2000 CV₃₈, 4, 1, 0; 2000 CW₃₈, 8, 2, 28; 2000 CX₃₈, 4, 1, 0; 2000 CJ₃₉, 8, 2, 27; 2000 CK₃₉, 4, 1, 0; 2000 CL₃₉, 4, 1, 0; 2000 CP₃₉, 4, 1, 0; 2000 CQ₃₉, 4, 1, 0; 2000 CR₃₉, 8, 2, 28; 2000 CY₃₉, 4, 1, 0; 2000 CD₄₀, 4, 1, 0; 2000 CG₄₀, 4, 1, 0; 2000 CJ₄₀, 4, 1, 0; 2000 CN₄₀, 4, 1, 0; 2000 CO₄₀, 4, 1, 0; 2000 CQ₄₀, 4, 1, 0; 2000 CR₄₀, 4, 1, 0; 2000 CV₄₀, 4, 1, 0; 2000 CX₄₀, 4, 1, 0; 2000 CZ₄₀, 4, 1, 0; 2000 CD₄₁, 4, 1, 0; 2000 CH₄₆, 8, 2, 59; 2000 CM₄₆, 4, 1, 0; 2000 CC₄₇, 4, 1, 0; 2000 CZ₄₇, 4, 1, 0; 2000 CE₄₈, 4, 1, 0; 2000 CH₄₈, 4, 1, 0; 2000 CR₄₈, 4, 1, 0; 2000 CC₄₉, 4, 1, 0; 2000 CE₄₉, 4, 1, 0; 2000 CF₄₉, 8, 2, 23; 2000 CJ₄₉, 4, 1, 0; 2000 CQ₄₉, 4, 1, 0; 2000 CB₅₀, 4, 1, 0; 2000 CP₅₀, 4, 1, 0; 2000 CQ₅₀, 8, 2, 24; 2000 CX₅₀, 4, 1, 0; 2000 CE₅₂, 4, 1, 0; 2000 CJ₅₃, 4, 1, 0; 2000 CK₅₃, 4, 1, 0; 2000 CN₅₃, 4, 1, 0; 2000 CO₅₃, 4, 1, 0; 2000 CQ₅₃, 4, 1, 0; 2000 CR₅₃, 4, 1, 0; 2000 CS₅₃, 8, 2, 10; 2000 CT₅₃, 8, 2, 11; 2000 CU₅₃, 4, 1, 0; 2000 CY₅₃, 4, 1, 0; 2000 CD₅₄, 8, 2, 24; 2000 CD₅₅, 4, 1, 0; 2000 CS₅₅, 4, 1, 0; 2000 CU₅₅, 4, 1, 0; 2000 CV₅₅, 8, 2, 28; 2000 CX₅₅, 4, 1, 0; 2000 CY₅₅, 4, 1, 0; 2000 CA₅₆, 8, 2, 2; 2000 CB₅₆, 4, 1, 0; 2000 CD₅₆, 4, 1, 0; 2000 CG₅₆, 8, 2, 24; 2000 CH₅₆, 4, 1, 0; 2000 CJ₅₆, 8, 2, 24; 2000 CK₅₆, 8, 2, 24; 2000 CL₅₆, 8, 2, 24; 2000 CM₅₆, 4, 1, 0; 2000 CO₅₆, 4, 1, 0; 2000 CP₅₆, 8, 2, 24; 2000 CS₅₆, 8, 2, 28; 2000 CU₅₆, 4, 1, 0; 2000 CV₅₇, 4, 1, 0; 2000 CW₅₇, 4, 1, 0; 2000 CY₅₇, 4, 1, 0; 2000 CA₅₈, 4, 1, 0; 2000 CB₅₈, 4, 1, 0; 2000 CC₅₈, 4, 1, 0; 2000 CS₅₈, 8, 2, 1; 2000 CT₅₈, 4, 1, 0; 2000 CU₅₈, 4, 1, 0; 2000 CW₅₈, 4, 1, 0; 2000 CC₅₉, 4, 1, 0; 2000 CD₅₉, 4, 1, 0; 2000 CF₅₉, 4, 1, 0; 2000 CG₆₀, 4, 1, 0; 2000 CQ₆₀, 4, 1, 0; 2000 CS₆₀, 8, 2, 23; 2000 CD₆₁, 4, 1, 0; 2000 CE₆₁, 4, 1, 0; 2000 CL₆₁, 8, 2, 11; 2000 CZ₆₂, 4, 1, 0; 2000 CB₆₃, 4, 1, 0; 2000 CC₆₃, 4, 1, 0; 2000 CE₆₃, 4, 1, 0; 2000 CF₆₃, 8, 2, 111; 2000 CG₆₃, 4, 1, 0; 2000 CH₆₃, 4, 1, 0; 2000 CJ₆₃, 4, 1, 0; 2000 CK₆₃, 4, 1, 0; 2000 CN₆₃, 4, 1, 0; 2000 CP₆₃, 4, 1, 0; 2000 CQ₆₃, 4, 1, 0; 2000 CS₆₃, 16, 3, 117; 2000 CX₆₃, 4, 1, 0; 2000 CZ₆₃, 4, 1, 0; 2000 CA₆₄, 4, 1, 0; 2000 CB₆₄, 4, 1, 0; 2000 CO₆₄, 8, 2, 27; 2000 CA₆₅, 4, 1, 0; 2000 CG₆₅, 4, 1, 0; 2000 CD₆₅, 4, 1, 0; 2000 CG₆₅, 4, 1, 0; 2000 CK₆₅, 8, 2, 21; 2000 CL₆₅, 4, 1, 0; 2000 CM₆₅, 8, 2, 24; 2000 CO₆₅, 4, 1, 0; 2000 CP₆₅, 4, 1, 0; 2000 CQ₆₅, 8, 2, 24; 2000 CR₆₅, 4, 1, 0; 2000 CS₆₅, 4, 1, 0; 2000 CT₆₅, 8, 2, 24; 2000 CO₆₆, 4, 1, 0; 2000 CQ₆₆, 4, 1, 0; 2000 CH₆₇, 8, 2, 9; 2000 CH₇₀, 8, 2, 1; 2000 CJ₇₀, 16, 4, 36; 2000 CK₇₀, 12, 3, 11; 2000 CO₇₀, 8, 2, 1; 2000 CD₇₁, 4, 1, 0; 2000 CE₇₁, 4, 1, 0; 2000 CG₇₁, 4, 1, 0; 2000 CJ₇₁, 4, 1, 0; 2000 CL₇₁, 4, 1, 0; 2000 CM₇₁, 4, 1, 0; 2000 CN₇₁, 4, 1, 0; 2000 CO₇₁, 4, 1, 0; 2000 CP₇₁, 8, 2, 36; 2000 CR₇₁, 8, 2, 1; 2000 CL₇₂, 4, 1, 0; 2000 CM₇₂, 4, 1, 0; 2000 CN₇₂, 4, 1, 0; 2000 CX₇₂, 4, 1, 0; 2000 CD₇₅, 4, 1, 0; 2000 CJ₇₅, 4, 1, 0; 2000 CK₇₅, 8, 2, 24; 2000 CQ₇₅, 4, 1, 0; 2000 CR₇₅, 8, 2, 1; 2000 CS₇₅, 8, 2, 1; 2000 CC₇₆, 4, 1, 0; 2000 CE₇₆, 4, 1, 0; 2000 CK₇₆, 4, 1, 0; 2000 CN₇₆, 7, 2, 24; 2000 CQ₇₆, 4, 1, 0; 2000 CR₇₆, 4, 1, 0; 2000 CS₇₆, 8, 2, 6; 2000 CT₇₆, 8, 2, 6; 2000 CY₇₆, 8, 2, 25; 2000 CZ₇₆, 4, 1, 0; 2000 CB₇₇, 4, 1, 0; 2000 CC₇₇, 8, 2, 5; 2000 CD₇₇, 4, 1, 0; 2000 CE₇₇, 8, 2, 5; 2000 CF₇₇, 4, 1, 0; 2000 CG₇₇, 4, 1, 0; 2000 CH₇₇, 4, 1, 0; 2000 CL₇₇, 8, 2, 2; 2000 CO₇₇, 4, 1, 0; 2000 CV₇₇, 4, 1, 0; 2000 CD₇₈, 4, 1, 0; 2000 CF₇₈, 4, 1, 0; 2000 CK₇₈, 4, 1, 0; 2000 CL₇₈, 8, 2, 24; 2000 CE₈₀, 4, 1, 0; 2000 CK₈₀, 4, 1, 0; 2000 CM₈₀, 8, 2, 19; 2000 CY₈₀, 4, 1, 0; 2000 CZ₈₀, 4, 1, 0; 2000 CB₈₁, 4, 1, 0; 2000 CD₈₁, 4, 1, 0; 2000 CE₈₁, 4, 1, 0; 2000 CF₈₁, 4, 1, 0; 2000 CH₈₁, 8, 2, 28; 2000 CN₈₁, 8, 2, 28; 2000 CO₈₁, 8, 2, 28; 2000 CP₈₁, 4, 1, 0; 2000 CQ₈₁, 8, 2, 28; 2000 CR₈₁, 12, 3, 28; 2000 CS₈₁, 4, 1, 0; 2000 CT₈₁, 4, 1, 0; 2000 CV₈₁, 8, 2, 19; 2000 CX₈₁, 4, 1, 0; 2000 CY₈₁, 4, 1, 0; 2000 CA₈₂, 4, 1, 0; 2000 CB₈₂, 4, 1, 0; 2000 CC₈₂, 4, 1, 0; 2000 CD₈₂, 4, 1, 0; 2000 CE₈₂, 4, 1, 0; 2000 CG₈₂, 4, 1, 0; 2000 CH₈₂, 4, 1, 0; 2000 CJ₈₂, 16, 4, 113; 2000 CK₈₂, 4, 1, 0; 2000 CL₈₂, 4, 1, 0; 2000 CM₈₂, 4, 1, 0; 2000 CN₈₂, 8, 2, 23; 2000 CO₈₂, 4, 1, 0; 2000 CR₈₂, 12, 3, 82; 2000 CU₈₂, 4, 1, 0; 2000 CV₈₂, 4, 1, 0; 2000 CW₈₂, 16, 4, 82; 2000 CX₈₂, 12, 3, 27; 2000 CY₈₂, 8, 2, 23; 2000 CZ₈₂, 4, 1, 0; 2000 CB₈₃, 4, 1, 0; 2000 CC₈₃, 8, 2, 23; 2000 CD₈₃, 4, 1, 0; 2000 CF₈₃, 8, 2, 23; 2000 CG₈₃, 8, 2, 23; 2000 CH₈₃, 4, 1, 0; 2000 CK₈₃, 8, 2, 23; 2000 CL₈₃, 8, 2, 23; 2000 CN₈₃, 4, 1, 0; 2000 CO₈₃, 8, 2, 24; 2000 CP₈₃, 8, 2, 23; 2000 CQ₈₃, 8, 2, 19; 2000 CR₈₃, 4, 1, 0; 2000 CS₈₃, 8, 1, 0; 2000 CT₈₃, 8, 2, 23; 2000 CV₈₃, 4, 1, 0; 2000 CW₈₃, 8, 2, 23; 2000 CX₈₃, 4, 1, 0; 2000 CZ₈₃, 8, 2, 23; 2000 CA₈₄, 4, 1, 0; 2000 CB₈₄, 12, 3, 82; 2000 CD₈₄, 4, 1, 0; 2000 CF₈₄, 8, 2, 23; 2000 CG₈₄, 8, 2, 23; 2000 CH₈₄, 4, 1, 0; 2000 CL₈₄, 8, 2, 24; 2000 CM₈₄, 4, 1, 0; 2000 CN₈₄, 8, 2, 24; 2000 CO₈₄, 4, 1, 0; 2000 CJ₈₄, 8, 2, 23; 2000 CR₈₄, 4, 1, 0; 2000 CT₈₄, 8, 2, 23; 2000 CU₈₄, 8, 2, 23; 2000 CV₈₄, 8, 2, 23; 2000 CY₈₄, 12, 3, 101; 2000 CZ₈₄, 12, 3, 23; 2000 CA₈₅, 4, 1, 0; 2000 CB₈₅, 8, 2, 23; 2000 CC₈₅, 8, 2, 24; 2000 CD₈₅, 8, 2, 24; 2000 CE₈₅, 8, 2, 23; 2000 CF₈₅, 8, 2, 24; 2000 CG₈₅, 8, 2, 24; 2000 CH₈₅, 8, 2, 24; 2000 CJ₈₅, 4, 1, 0; 2000 CK₈₅, 4, 1, 0; 2000 CL₈₅, 8, 2, 24; 2000 CN₈₅, 8, 2, 24; 2000 CO₈₅, 8, 2, 24; 2000 CR₈₅, 8, 2, 24; 2000 CS₈₅, 8, 2, 24; 2000 CW₈₅, 16, 4, 109; 2000 CX₈₅, 4, 1, 0; 2000 CA₈₆, 8, 2, 24; 2000 CB₈₆, 8, 2, 24; 2000 CC₈₆, 4, 1, 0; 2000 CD₈₆, 4, 1, 0; 2000 CE₈₆, 4, 1, 0; 2000 CH₈₆, 8, 2, 24; 2000 CJ₈₆, 8, 2, 24; 2000 CN₈₆, 4, 1, 0; 2000 CO₈₆, 8, 2, 24; 2000 CP₈₆, 8, 2, 24; 2000 CQ₈₆, 8, 2, 24; 2000 CR₈₆, 4, 1, 0; 2000 CS₈₆, 4, 1, 0; 2000 CT₈₆, 4, 1, 0; 2000 CU₈₆, 4, 1, 0; 2000 CV₈₆, 4, 1, 0; 2000 CW₈₆, 8, 2, 24; 2000 CX₈₆, 4, 1, 0; 2000 CY₈₆, 4, 1, 0; 2000 CZ₈₆, 4, 1, 0; 2000 CD₈₇, 4, 1, 0; 2000 CE₈₇, 4, 1, 0; 2000 CH₈₇, 4, 1, 0; 2000 CK₈₇, 8, 2, 6; 2000 CL₈₇, 8, 2, 24; 2000 CM₈₇, 8, 2, 24; 2000 CN₈₇, 4, 1, 0; 2000 CO₈₇, 8, 2, 28; 2000 CQ₈₇, 4, 1, 0; 2000 CU₈₇, 4, 1, 0; 2000 CV₈₇, 4, 1, 0; 2000 CW₈₇, 8, 2, 24; 2000 CX₈₇, 4, 1, 0; 2000 CY₈₇, 4, 1, 0; 2000 CZ₈₇, 8, 2, 24; 2000 CC₈₈, 4, 1, 0; 2000 CE₈₈, 8, 2, 24; 2000 CF₈₈, 8, 2, 6; 2000 CG₈₈, 4, 1, 0; 2000 CL₈₈, 4, 1, 0; 2000 CT₈₈, 4, 1, 0; 2000 CV₈₈, 4, 1, 0; 2000 CY₈₈, 4, 1, 0; 2000 CZ₈₈, 8, 2, 25; 2000 CC₈₉, 8,

2, 5; 2000 CG₈₉, 4, 1, 0; 2000 CH₈₉, 4, 1, 0; 2000 CL₈₉, 4, 1, 0; 2000 CS₈₉, 4, 1, 0; 2000 CT₈₉, 4, 1, 0; 2000 CK₉₀, 8, 2, 24; 2000 CN₉₀, 4, 1, 0; 2000 CF₉₁, 4, 1, 0; 2000 CG₉₁, 4, 1, 0; 2000 CH₉₁, 4, 1, 0; 2000 CJ₉₁, 4, 1, 0; 2000 CK₉₁, 4, 1, 0; 2000 CL₉₁, 4, 1, 0; 2000 CM₉₁, 4, 1, 0; 2000 CN₉₁, 4, 1, 0; 2000 CO₉₁, 4, 1, 0; 2000 CR₉₁, 4, 1, 0; 2000 CT₉₁, 4, 1, 0; 2000 CU₉₁, 4, 1, 0; 2000 CV₉₁, 4, 1, 0; 2000 CW₉₁, 4, 1, 0; 2000 CX₉₁, 4, 1, 0; 2000 CY₉₁, 4, 1, 0; 2000 CA₉₂, 4, 1, 0; 2000 CB₉₂, 4, 1, 0; 2000 CD₉₂, 4, 1, 0; 2000 CJ₉₂, 4, 1, 0; 2000 CK₉₂, 8, 2, 10; 2000 CL₉₂, 4, 1, 0; 2000 CM₉₂, 4, 1, 0; 2000 CN₉₂, 4, 1, 0; 2000 CP₉₂, 4, 1, 0; 2000 CQ₉₂, 4, 1, 0; 2000 CR₉₂, 4, 1, 0; 2000 CT₉₂, 12, 3, 84; 2000 CX₉₂, 8, 2, 5; 2000 CG₉₃, 4, 1, 0; 2000 CC₉₃, 4, 1, 0; 2000 CD₉₃, 8, 2, 5; 2000 CG₉₃, 8, 2, 4; 2000 CK₉₃, 4, 1, 0; 2000 CN₉₃, 4, 1, 0; 2000 CO₉₃, 4, 1, 0; 2000 CV₉₃, 12, 3, 28; 2000 CX₉₃, 4, 1, 0; 2000 CZ₉₃, 4, 1, 0; 2000 CB₉₄, 4, 1, 0; 2000 CC₉₄, 8, 2, 16; 2000 CD₉₄, 4, 1, 0; 2000 CE₉₄, 4, 1, 0; 2000 CF₉₄, 8, 2, 16; 2000 CG₉₄, 4, 1, 0; 2000 CH₉₄, 4, 1, 0; 2000 CJ₉₄, 4, 1, 0; 2000 CL₉₄, 8, 2, 16; 2000 CM₉₄, 8, 2, 31; 2000 CN₉₄, 12, 2, 16; 2000 CP₉₄, 8, 2, 16; 2000 CR₉₄, 8, 2, 16; 2000 CS₉₄, 4, 1, 0; 2000 CV₉₄, 4, 1, 0; 2000 CL₉₆, 4, 1, 0; 2000 CE₉₇, 4, 1, 0; 2000 CG₉₇, 4, 1, 0; 2000 CH₉₇, 4, 1, 0; 2000 CM₉₇, 8, 2, 16; 2000 CN₉₇, 4, 1, 0; 2000 CO₉₇, 4, 1, 0; 2000 CR₉₇, 8, 2, 16; 2000 CS₉₈, 4, 1, 0; 2000 CC₉₉, 8, 2, 28; 2000 CE₉₉, 4, 1, 0; 2000 CX₁₀₁, 4, 1, 0; 2000 CY₁₀₁, 4, 1, 0; 2000 CC₁₀₂, 4, 1, 0; 2000 CF₁₀₂, 4, 1, 0; 2000 CQ₁₀₂, 8, 2, 23; 2000 CU₁₀₂, 4, 1, 0; 2000 CV₁₀₂, 4, 1, 0; 2000 CX₁₀₂, 4, 1, 0; 2000 CZ₁₀₂, 4, 1, 0; 2000 CD₁₀₃, 4, 1, 0; 2000 CF₁₀₃, 4, 1, 0; 2000 CG₁₀₃, 8, 2, 5; 2000 CH₁₀₃, 8, 2, 5; 2000 CJ₁₀₃, 4, 1, 0; 2000 CK₁₀₃, 8, 2, 25; 2000 CL₁₀₃, 4, 1, 0; 2000 CS₁₀₃, 8, 2, 36; 2000 CT₁₀₃, 8, 2, 23; 2000 CV₁₀₃, 8, 2, 13; 2000 CW₁₀₃, 12, 3, 36; 2000 CX₁₀₃, 12, 3, 36; 2000 CB₁₀₄, 12, 3, 27; 2000 CE₁₀₄, 4, 1, 0; 2000 CF₁₀₄, 4, 1, 0; 2000 DO₄, 4, 1, 0; 2000 DQ₄, 4, 1, 0; 2000 DS₄, 4, 1, 0; 2000 DZ₄, 4, 1, 0; 2000 DH₁, 4, 1, 0; 2000 DH₁, 4, 1, 0; 2000 DM₁ *, 8, 2, 10; 2000 DO₁ *, 11, 3, 24; 2000 DP₁, 4, 1, 0; 2000 DB₂, 4, 1, 0; 2000 DC₂, 4, 1, 0; 2000 DE₂, 4, 1, 0; 2000 DF₂, 4, 1, 0; 2000 DK₂, 4, 1, 0; 2000 DL₂, 4, 1, 0; 2000 DM₂, 4, 1, 0; 2000 DQ₂, 8, 2, 11; 2000 DB₃, 4, 1, 0; 2000 DD₃, 4, 1, 0; 2000 DH₃, 4, 1, 0; 2000 DL₃, 8, 2, 16; 2000 DM₃, 4, 1, 0; 2000 DN₃, 4, 1, 0; 2000 DQ₃, 4, 1, 0; 2000 DR₃, 4, 1, 0; 2000 DU₃, 8, 2, 33; 2000 DE₄, 4, 1, 0; 2000 DL₄, 4, 1, 0; 2000 DQ₄, 4, 1, 0; 2000 DZ₄, 4, 1, 0; 2000 DA₅, 4, 1, 0; 2000 DF₅, 4, 1, 0; 2000 DK₅, 4, 1, 0; 2000 DR₅, 4, 1, 0; 2000 DR₆, 4, 1, 0; 2000 DV₆, 4, 1, 0; 2000 DX₆, 8, 2, 5; 2000 DA₇, 4, 1, 0; 2000 DD₇, 4, 1, 0; 2000 DO₇, 4, 1, 0; 2000 DC₈, 8, 2, 28; 2000 DD₈, 4, 1, 0; 2000 DE₈, 4, 1, 0; 2000 DF₈ *, 4, 1, 0; 2000 DH₈ *, 8, 2, 13; 2000 DQ₈, 4, 1, 0; 2000 DT₈, 4, 1, 0; 2000 DG₉, 4, 1, 0; 2000 DV₉, 4, 1, 0; 2000 DE₁₃, 4, 1, 0; 2000 DM₁₄ *, 8, 2, 6; 2000 DN₁₄ *, 8, 2, 6; 2000 DO₁₄ *, 8, 2, 6; 2000 DP₁₄ *, 8, 2, 6; 2000 DQ₁₄ *, 8, 2, 6; 2000 DR₁₄ *, 8, 2, 6; 2000 DS₁₄ *, 8, 2, 5; 2000 DT₁₄ *, 8, 2, 5; 2000 DU₁₄ *, 8, 2, 5; 2000 DV₁₄ *, 12, 3, 15; 2000 DW₁₄ *, 8, 2, 5; 2000 DX₁₄ *, 12, 3, 30; 2000 DY₁₄ *, 12, 3, 84; 2000 DZ₁₄ *, 8, 2, 5; 2000 DA₁₅ *, 8, 2, 5; 2000 DB₁₅ *, 8, 2, 5; 2000 DC₁₅ *, 8, 2, 5; 2000 DD₁₅ *, 12, 3, 29; 2000 DE₁₅ *, 8, 2, 5; 2000 DF₁₅ *, 12, 3, 29; 2000 DG₁₅ *, 8, 2, 5; 2000 DH₁₅ *, 8, 2, 5; 2000 DJ₁₅ *, 8, 2, 5; 2000 DK₁₅ *, 12, 3, 15; 2000 DL₁₅ *, 8, 2, 5; 2000 DM₁₅ *, 8, 2, 5; 2000 DN₁₅ *, 12, 3, 15; 2000 DO₁₅ *, 8, 2, 5; 2000 DP₁₅ *, 8, 2, 5; 2000 DQ₁₅ *, 8, 2, 5; 2000 DR₁₅ *, 8, 2, 5; 2000 DS₁₅ *, 8, 2, 5; 2000 DT₁₅ *, 8, 2, 5; 2000 DU₁₅ *, 8, 2, 4; 2000 DV₁₅ *, 8, 2, 4; 2000 DW₁₅ *, 8, 2, 4; 2000 DX₁₅ *, 8, 2, 4; 2000 DY₁₅ *, 8, 2, 4; 2000 DZ₁₅ *, 8, 2, 4; 2000 DA₁₆ *, 8, 2, 4; 2000 DB₁₆, 8, 2, 16; 2000 DC₁₆, 8, 2, 16; 2000 DD₁₆, 4, 1, 0; 2000 DE₁₆, 4, 1, 0; 2000 DF₁₆, 4, 1, 0; 2000 DG₁₆, 4, 1, 0; 2000 DH₁₆, 4, 1, 0; 2000 DJ₁₆, 4, 1, 0; 2000 DK₁₆, 4, 1, 0; 2000 DM₁₆, 4, 1, 0; 2000 DN₁₆, 4, 1, 0; 2000 DO₁₆, 4, 1, 0; 2000 DW₁₇, 4, 1, 0; 2000 DB₁₈, 8, 2, 2; 2000 DD₁₈, 8, 2, 19; 2000

2000 DR₄₂, 4, 1, 0; 2000 DT₄₂, 4, 1, 0; 2000 DW₄₂, 8, 2, 24; 2000 DZ₄₂, 8, 1, 0; 2000 DC₄₃, 4, 1, 0; 2000 DG₄₃, 4, 1, 0; 2000 DO₄₃, 4, 1, 0; 2000 DR₄₃, 4, 1, 0; 2000 DD₄₄, 4, 1, 0; 2000 DX₄₇, 4, 1, 0; 2000 DN₄₉, 4, 1, 0; 2000 DE₅₁, 4, 1, 0; 2000 DJ₅₁, 4, 1, 0; 2000 DK₅₁, 4, 1, 0; 2000 DO₅₁, 4, 1, 0; 2000 DV₅₃, 4, 1, 0; 2000 DW₅₃, 4, 1, 0; 2000 DG₅₆, 4, 1, 0; 2000 DL₅₆, 4, 1, 0; 2000 DN₅₆, 4, 1, 0; 2000 DS₅₆, 4, 1, 0; 2000 DZ₅₆, 4, 1, 0; 2000 DH₅₇, 4, 1, 0; 2000 DV₅₇, 4, 1, 0; 2000 DN₅₈, 4, 1, 0; 2000 DR₅₈, 4, 1, 0; 2000 DT₅₈, 4, 1, 0; 2000 DU₅₈, 4, 1, 0; 2000 DZ₅₈, 4, 1, 0; 2000 DH₅₉, 4, 1, 0; 2000 DJ₅₉, 4, 1, 0; 2000 DP₆₀, 4, 1, 0; 2000 DS₆₀, 8, 2, 108; 2000 DU₆₀, 4, 1, 0; 2000 DX₆₀, 4, 1, 0; 2000 DE₆₁, 4, 1, 0; 2000 DH₆₁, 4, 1, 0; 2000 DY₆₁, 4, 1, 0; 2000 DF₆₂, 4, 1, 0; 2000 DU₆₂, 4, 1, 0; 2000 DV₆₂, 4, 1, 0; 2000 DB₆₃, 4, 1, 0; 2000 DG₆₄, 4, 1, 0; 2000 DH₆₄, 4, 1, 0; 2000 DK₆₄, 4, 1, 0; 2000 DW₆₄, 4, 1, 0; 2000 DF₆₅, 8, 2, 10; 2000 DN₆₆, 4, 1, 0; 2000 DU₆₆, 4, 1, 0; 2000 DV₆₇, 4, 1, 0; 2000 DB₆₈, 4, 1, 0; 2000 DD₆₈, 4, 1, 0; 2000 DN₆₈, 4, 1, 0; 2000 DQ₆₈, 4, 1, 0; 2000 DS₆₈, 8, 2, 11; 2000 DU₆₈, 8, 2, 10; 2000 DV₆₈, 4, 1, 0; 2000 DW₆₈, 8, 2, 11; 2000 DY₆₈, 4, 1, 0; 2000 DZ₆₈, 4, 1, 0; 2000 DA₆₉, 4, 1, 0; 2000 DB₆₉, 4, 1, 0; 2000 DC₆₉, 4, 1, 0; 2000 DD₆₉, 8, 2, 11; 2000 DE₆₉, 4, 1, 0; 2000 DF₆₉, 8, 2, 11; 2000 DG₆₉, 4, 1, 0; 2000 DH₆₉, 8, 2, 11; 2000 DK₆₉, 4, 1, 0; 2000 DL₆₉, 4, 1, 0; 2000 DN₆₉, 4, 1, 0; 2000 DP₆₉, 4, 1, 0; 2000 DR₆₉, 4, 1, 0; 2000 DT₆₉, 4, 1, 0; 2000 DU₆₉, 4, 1, 0; 2000 DX₆₉, 4, 1, 0; 2000 DY₆₉, 4, 1, 0; 2000 DZ₆₉, 4, 1, 0; 2000 DB₇₀, 3, 1, 0; 2000 DC₇₀, 8, 2, 10; 2000 DQ₇₀, 4, 1, 0; 2000 DR₇₀, 4, 1, 0; 2000 DS₇₀, 4, 1, 0; 2000 DW₇₀, 4, 1, 0; 2000 DX₇₀, 4, 1, 0; 2000 DY₇₀, 4, 1, 0; 2000 DB₇₁, 4, 1, 0; 2000 DC₇₁, 4, 1, 0; 2000 DD₇₁, 4, 1, 0; 2000 DF₇₁, 4, 1, 0; 2000 DG₇₁, 4, 1, 0; 2000 DH₇₁, 4, 1, 0; 2000 DJ₇₁, 4, 1, 0; 2000 DM₇₁, 8, 2, 11; 2000 DP₇₁, 8, 2, 11; 2000 DQ₇₁, 4, 1, 0; 2000 DS₇₁, 4, 1, 0; 2000 DV₇₁, 4, 1, 0; 2000 DX₇₁, 4, 1, 0; 2000 DE₇₂, 4, 1, 0; 2000 DF₇₂, 4, 1, 0; 2000 DJ₇₂, 8, 2, 15; 2000 DL₇₂, 4, 1, 0; 2000 DT₇₂, 8, 2, 5; 2000 DV₇₂, 4, 1, 0; 2000 DA₇₃, 4, 1, 0; 2000 DE₇₃, 4, 1, 0; 2000 DO₇₃, 4, 1, 0; 2000 DQ₇₃, 4, 1, 0; 2000 DS₇₃, 4, 1, 0; 2000 DX₇₃, 4, 1, 0; 2000 DB₇₄, 4, 1, 0; 2000 DC₇₄, 4, 1, 0; 2000 DD₇₄, 4, 1, 0; 2000 DF₇₄, 4, 1, 0; 2000 DH₇₄, 4, 1, 0; 2000 DL₇₄, 4, 1, 0; 2000 DR₇₄, 4, 1, 0; 2000 DS₇₄, 4, 1, 0; 2000 DT₇₄, 4, 1, 0; 2000 DU₇₄, 4, 1, 0; 2000 DV₇₄, 4, 1, 0; 2000 DX₇₄, 4, 1, 0; 2000 DY₇₄, 4, 1, 0; 2000 DB₇₅, 4, 1, 0; 2000 DC₇₅, 4, 1, 0; 2000 DD₇₅, 4, 1, 0; 2000 DE₇₅, 4, 1, 0; 2000 DG₇₅, 4, 1, 0; 2000 DH₇₅, 4, 1, 0; 2000 DJ₇₅, 4, 1, 0; 2000 DK₇₅, 4, 1, 0; 2000 DM₇₅, 8, 2, 11; 2000 DN₇₅, 8, 2, 11; 2000 DO₇₅, 4, 1, 0; 2000 DV₇₅, 4, 1, 0; 2000 DW₇₅, 8, 2, 11; 2000 DY₇₅, 4, 1, 0; 2000 DF₇₇, 4, 1, 0; 2000 DY₇₇, 4, 1, 0; 2000 DA₇₈, 8, 2, 11; 2000 DC₇₈, 8, 2, 11; 2000 DM₇₈, 4, 1, 0; 2000 DS₇₈, 4, 1, 0; 2000 DU₇₈, 4, 1, 0; 2000 DZ₇₈, 4, 1, 0; 2000 DB₇₉, 4, 1, 0; 2000 DC₇₉, 4, 1, 0; 2000 DJ₈₀, 4, 1, 0; 2000 DD₈₁, 4, 1, 0; 2000 DD₈₂, 4, 1, 0; 2000 DG₈₂, 4, 1, 0; 2000 DR₈₂, 4, 1, 0; 2000 DX₈₂, 4, 1, 0; 2000 DC₈₃, 12, 3, 27; 2000 DG₈₃, 8, 2, 19; 2000 DV₈₃, 4, 1, 0; 2000 DW₈₃, 4, 1, 0; 2000 DZ₈₃, 3, 1, 0; 2000 DC₈₅, 4, 1, 0; 2000 DG₈₅, 4, 1, 0; 2000 DK₈₅, 4, 1, 0; 2000 DL₈₅, 4, 1, 0; 2000 DV₈₅, 4, 1, 0; 2000 DA₈₆, 4, 1, 0; 2000 DC₈₆, 4, 1, 0; 2000 DJ₈₆, 4, 1, 0; 2000 DT₈₆, 4, 1, 0; 2000 DX₈₆, 4, 1, 0; 2000 DW₈₆, 8, 2, 19; 2000 DX₈₆, 4, 1, 0; 2000 DA₈₇, 4, 1, 0; 2000 DD₈₇, 8, 2, 19; 2000 DB₈₈, 8, 2, 24; 2000 DM₈₈, 4, 1, 0; 2000 DO₈₈, 4, 1, 0; 2000 DH₉₁, 4, 1, 0; 2000 DC₉₂, 4, 1, 0; 2000 DD₉₂, 4, 1, 0; 2000 DG₉₂, 8, 2, 16; 2000 DL₉₂, 4, 1, 0; 2000 DM₉₂, 8, 2, 16; 2000 DN₉₂, 4, 1, 0; 2000 DO₉₃, 4, 1, 0; 2000 DP₉₃, 4, 1, 0; 2000 DQ₉₃, 8, 2, 19; 2000 DR₉₃, 4, 1, 0; 2000 DS₉₃, 4, 1, 0; 2000 DV₉₃, 4, 1, 0; 2000 DB₉₄, 4, 1, 0; 2000 DE₉₄, 4, 1, 0; 2000 DG₉₄, 4, 1, 0; 2000 DH₉₄, 8, 2, 19; 2000 DJ₉₄, 8, 2, 19; 2000 DQ₉₄, 4, 1, 0; 2000 DS₉₄, 4, 1, 0; 2000 DU₉₄, 4, 1, 0; 2000 DX₉₄, 4, 1, 0; 2000 DE₉₅, 4, 1, 0; 2000 DH₉₅, 8, 2, 23; 2000 DJ₉₅, 4, 1, 0; 2000 DR₉₅, 8, 2, 19; 2000 DT₉₅, 8, 2, 19; 2000 DG₉₅, 4, 1, 0; 2000 DJ₉₆, 4, 1, 0; 2000 DO₉₆, 4, 1, 0; 2000 DD₉₇, 4, 1, 0; 2000 DL₉₇, 4, 1, 0; 2000 DN₉₇, 4, 1, 0; 2000 DW₉₇, 4, 1, 0; 2000 DX₉₇, 4, 1, 0; 2000 DZ₉₇, 4, 1, 0; 2000 DA₉₈, 4, 1, 0; 2000 DF₉₈, 8, 2, 19; 2000 DM₉₈, 4, 1, 0; 2000 DO₉₈, 4, 1, 0; 2000 DG₉₉, 4, 1, 0; 2000 DK₉₉, 4, 1, 0; 2000 DQ₉₉, 4, 1, 0; 2000 DS₉₉, 8, 2, 5; 2000 DU₉₉, 4, 1, 0; 2000 DV₉₉, 4, 1, 0; 2000 DW₉₉, 4, 1, 0; 2000 DA₁₀₀, 4, 1, 0; 2000 DF₁₀₀, 4, 1, 0; 2000 DQ₁₀₀, 4, 1, 0; 2000 DT₁₀₀, 4, 1, 0; 2000 DA₁₀₁, 4, 1, 0; 2000 DK₁₀₁, 4, 1, 0; 2000 DR₁₀₁, 4, 1, 0; 2000 DV₁₀₁, 4, 1, 0; 2000 DA₁₀₂, 4, 1, 0; 2000 DL₁₀₂, 4, 1, 0; 2000 DM₁₀₂, 4, 1, 0; 2000 DO₁₀₂, 4, 1, 0; 2000 DU₁₀₂, 4, 1, 0; 2000 DF₁₀₃, 4, 1, 0; 2000 DL₁₀₃, 4, 1, 0; 2000 DP₁₀₃, 4, 1, 0; 2000 DD₁₀₄, 4, 1, 0; 2000 DE₁₀₄, 4, 1, 0; 2000 DK₁₀₄, 4, 1, 0; 2000 DX₁₀₄, 4, 1, 0; 2000 DH₁₀₆, 4, 1, 0; 2000 DS₁₀₆, 4, 1, 0; 2000 DT₁₀₆, 8, 2, 25; 2000 DW₁₀₆, 8, 2, 77; 2000 DA₁₀₇, 4, 1, 0; 2000 DG₁₀₇, 8, 2, 24; 2000 DH₁₀₇, 4, 1, 0; 2000 DG₁₀₈, 8, 2, 19; 2000 DP₁₀₈, 4, 1, 0; 2000 DU₁₀₈, 4, 1, 0; 2000 DZ₁₀₈, 4, 1, 0; 2000 DF₁₁₀, 4, 1, 0; 2000 DG₁₁₀, 4, 1, 0; 2000 DH₁₁₀, 4, 1, 0; 2000 DN₁₁₀, 4, 1, 0; 2000 DQ₁₁₀, 3, 1, 0; 2000 EA₄, 1, 0; 2000 EC₈, 8, 2, 11; 2000 EO₄, 4, 1, 0; 2000 EQ₄, 4, 1, 0; 2000 ET₄, 4, 1, 0; 2000 EV₄, 4, 1, 0; 2000 EX₄, 4, 1, 0; 2000 ED₁, 4, 1, 0; 2000 EE₁, 4, 1, 0; 2000 EC₂, 4, 1, 0; 2000 EW₃ *, 8, 2, 2; 2000 EX₃ *, 8, 2, 2; 2000 EY₃ *, 8, 2, 2; 2000 EZ₃ *, 12, 3, 3; 2000 EV₅, 8, 2, 16; 2000 EA₆, 8, 2, 16; 2000 ED₆, 8, 2, 16; 2000 EL₆, 8, 2, 16; 2000 ET₆, 4, 1, 0; 2000 EZ₆, 4, 1, 0; 2000 EV₇, 8, 2, 16; 2000 EW₇, 8, 2, 16; 2000 EH₈, 4, 1, 0; 2000 EP₈, 4, 1, 0; 2000 EX₈, 4, 1, 0; 2000 EK₉, 4, 1, 0; 2000 EL₉, 4, 1, 0; 2000 EB₁₀, 4, 1, 0; 2000 EJ₁₀, 4, 1, 0; 2000 EK₁₀, 4, 1, 0; 2000 EP₁₀, 4, 1, 0; 2000 EW₁₀, 4, 1, 0; 2000 EF₁₁, 4, 1, 0; 2000 EM₁₁, 4, 1, 0; 2000 EN₁₁, 4, 1, 0; 2000 ER₁₁, 4, 1, 0; 2000 ET₁₁, 4, 1, 0; 2000 EU₁₁, 4, 1, 0; 2000 EY₁₁, 4, 1, 0; 2000 EZ₁₂, 4, 1, 0; 2000 EG₁₂, 4, 1, 0; 2000 EH₁₂, 4, 1, 0; 2000 EJ₁₂, 8, 2, 35; 2000 EQ₁₂, 4, 1, 0; 2000 EL₁₃, 4, 1, 0; 2000 EO₁₃, 4, 1, 0; 2000 EV₁₃, 4, 1, 0; 2000 EZ₁₃ *, 4, 1, 0; 2000 EA₁₄ *, 10, 2, 11; 2000 EF₁₄, 8, 2, 16; 2000 EJ₁₄, 4, 1, 0; 2000 EK₁₄, 8, 2, 16; 2000 EO₁₄, 8, 2, 16; 2000 EP₁₄, 8, 2, 16; 2000 EQ₁₄, 4, 1, 0; 2000 EW₁₄, 8, 2, 6; 2000 EZ₁₄, 4, 1, 0; 2000 EA₁₅, 4, 1, 0; 2000 EB₁₅, 4, 1, 0; 2000 EG₁₅, 4, 1, 0; 2000 EH₁₅, 4, 1, 0; 2000 EJ₁₅, 4, 1, 0; 2000 EK₁₅, 4, 1, 0; 2000 EL₁₆, 4, 1, 0; 2000 ER₁₆, 4, 1, 0; 2000 EW₁₆, 4, 1, 0;

2000 EA₁₇, 4, 1, 0; 2000 EB₁₇, 4, 1, 0; 2000 ED₁₇, 4, 1, 0; 2000 EF₁₇, 4, 1, 0; 2000 EJ₁₇, 4, 1, 0; 2000 EK₁₇, 4, 1, 0; 2000 EL₁₇, 4, 1, 0; 2000 EM₁₇, 4, 1, 0; 2000 EO₁₇, 8, 2, 35; 2000 EP₁₇, 4, 1, 0; 2000 EL₁₈, 4, 1, 0; 2000 EO₁₈, 8, 2, 23; 2000 EQ₁₈, 8, 2, 24; 2000 ER₁₈, 4, 1, 0; 2000 EV₁₈, 4, 1, 0; 2000 EY₁₈, 4, 1, 0; 2000 EB₁₉, 4, 1, 0; 2000 EC₁₉, 4, 1, 0; 2000 EK₁₉, 4, 1, 0; 2000 EM₁₉, 4, 1, 0; 2000 EX₁₉, 4, 1, 0; 2000 EY₁₉, 4, 1, 0; 2000 EB₂₀, 4, 1, 0; 2000 EC₂₀, 4, 1, 0; 2000 ED₂₀, 4, 1, 0; 2000 EE₂₀, 4, 1, 0; 2000 EF₂₀ *, 8, 2, 3; 2000 EH₂₀ *, 8, 2, 1; 2000 EJ₂₀ *, 8, 2, 1; 2000 EK₂₀ *, 8, 2, 1; 2000 EL₂₀ *, 12, 3, 26; 2000 EM₂₀ *, 16, 4, 36; 2000 EN₂₀ *, 8, 2, 1; 2000 EO₂₀ *, 12, 3, 26; 2000 EP₂₀ *, 8, 2, 1; 2000 EQ₂₀ *, 8, 2, 1; 2000 ER₂₀ *, 8, 2, 1; 2000 ES₂₀ *, 8, 2, 1; 2000 ET₂₀ *, 12, 3, 11; 2000 EU₂₀ *, 12, 3, 26; 2000 EV₂₀ *, 12, 3, 11; 2000 EW₂₀ *, 16, 4, 36; 2000 EX₂₀ *, 8, 2, 1; 2000 EY₂₀ *, 8, 2, 1; 2000 EZ₂₀ *, 8, 2, 1; 2000 EA₂₁ *, 8, 2, 1; 2000 EB₂₁ *, 8, 2, 1; 2000 EC₂₁ *, 12, 3, 11; 2000 ED₂₁ *, 12, 2, 1; 2000 EE₂₁ *, 12, 3, 11; 2000 EF₂₁ *, 16, 4, 36; 2000 EG₂₁ *, 8, 2, 1; 2000 EH₂₁ *, 8, 2, 1; 2000 EJ₂₁ *, 8, 2, 1; 2000 EK₂₁ *, 8, 2, 1; 2000 EL₂₁ *, 8, 2, 1; 2000 EM₂₁ *, 8, 2, 1; 2000 ES₂₅, 4, 1, 0; 2000 EC₂₆, 4, 1, 0; 2000 EL₂₆, 4, 1, 0; 2000 EQ₂₆, 4, 1, 0; 2000 ER₂₆, 4, 1, 0; 2000 ES₂₆, 4, 1, 0; 2000 ET₂₇, 4, 1, 0; 2000 ES₂₇, 4, 1, 0; 2000 EU₂₇, 4, 1, 0; 2000 EW₂₇, 4, 1, 0; 2000 EC₂₈, 4, 1, 0; 2000 ES₂₉, 4, 1, 0; 2000 EA₃₀, 4, 1, 0; 2000 EC₃₀, 4, 1, 0; 2000 EG₃₀, 4, 1, 0; 2000 EL₃₀, 4, 1, 0; 2000 EU₃₀, 4, 1, 0; 2000 EV₃₁, 4, 1, 0; 2000 EX₃₁, 4, 1, 0; 2000 EY₃₁, 4, 1, 0; 2000 EC₃₂, 8, 2, 24; 2000 EG₃₂, 4, 1, 0; 2000 EU₃₂, 4, 1, 0; 2000 ET₃₃, 4, 1, 0; 2000 EY₃₄, 4, 1, 0; 2000 EQ₃₅, 4, 1, 0; 2000 EO₃₆, 4, 1, 0; 2000 EP₃₆, 8, 2, 16; 2000 EQ₃₆, 8, 2, 16; 2000 ER₃₆, 4, 1, 0; 2000 ET₃₆, 4, 1, 0; 2000 EU₃₆, 12, 3, 96; 2000 EV₃₆, 4, 1, 0; 2000 EW₃₆, 8, 2, 16; 2000 EX₃₆, 4, 1, 0; 2000 EY₃₆, 8, 2, 16; 2000 EA₃₇, 8, 2, 16; 2000 EB₃₇, 4, 1, 0; 2000 EC₃₇, 4, 1, 0; 2000 ED₃₇, 4, 1, 0; 2000 EE₃₇, 4, 1, 0; 2000 EF₃₇, 4, 1, 0; 2000 EG₃₇, 4, 1, 0; 2000 EJ₃₇, 4, 1, 0; 2000 EK₃₇, 4, 1, 0; 2000 EL₃₇, 4, 1, 0; 2000 EM₃₇, 4, 1, 0; 2000 EN₃₇, 4, 1, 0; 2000 EO₃₇, 4, 1, 0; 2000 EP₃₇, 4, 1, 0; 2000 EY₃₇, 4, 1, 0; 2000 EZ₃₇, 4, 1, 0; 2000 EA₃₈, 4, 1, 0; 2000 EZ₃₇, 8, 2, 16; 2000 EA₃₈, 4, 1, 0; 2000 ED₃₈, 4, 1, 0; 2000 EL₃₈, 4, 1, 0; 2000 EN₃₈, 4, 1, 0; 2000 EF₃₈, 4, 1, 0; 2000 EA₃₉, 4, 1, 0; 2000 EE₃₉, 4, 1, 0; 2000 EF₃₉, 4, 1, 0; 2000 EK₃₉, 4, 1, 0; 2000 EL₃₉, 4, 1, 0; 2000 EM₃₉, 4, 1, 0; 2000 EO₃₉, 8, 2, 16; 2000 EP₃₉, 4, 1, 0; 2000 ER₃₉, 4, 1, 0; 2000 ES₃₉, 4, 1, 0; 2000 ET₃₉, 4, 1, 0; 2000 EU₃₉, 4, 1, 0; 2000 EY₃₉, 4, 1, 0; 2000 EZ₃₉, 4, 1, 0; 2000 EA₄₀, 4, 1, 0; 2000 EB₄₀, 4, 1, 0; 2000 EC₄₀, 4, 1, 0; 2000 EE₄₀, 4, 1, 0; 2000 EK₄₀, 4, 1, 0; 2000 EW₄₀, 4, 1, 0; 2000 EZ₄₀, 4, 1, 0; 2000 EB₄₁, 4, 1, 0; 2000 EE₄₁, 4, 1, 0; 2000 EG₄₁, 4, 1, 0; 2000 EJ₄₁, 4, 1, 0; 2000 EV₄₁, 8, 1, 0; 2000 EW₄₁, 4, 1, 0; 2000 EY₄₁, 4, 1, 0; 2000 EA₄₂, 4, 1, 0; 2000 EM₄₂, 4, 1, 0; 2000 EN₄₂, 4, 1, 0; 2000 EO₄₂, 4, 1, 0; 2000 ER₄₂, 4, 1, 0; 2000 ET₄₂, 4, 1, 0; 2000 EX₄₂, 4, 1, 0; 2000 EF₄₃, 4, 1, 0; 2000 EG₄₃, 4, 1, 0; 2000 EJ₄₃, 4, 1, 0; 2000 EA₄₄, 4, 1, 0; 2000 ET₄₄, 4, 1, 0; 2000 ED₄₅, 4, 1, 0; 2000 EJ₄₅, 4, 1, 0; 2000 EW₄₅, 4, 1, 0; 2000 EH₄₆, 4, 1, 0; 2000 ES₄₇, 3, 1, 0; 2000 EA₄₈, 4, 1, 0; 2000 EY₄₈, 4, 1, 0; 2000 EC₄₉, 4, 1, 0; 2000 EM₄₉, 4, 1, 0; 2000 EN₄₉, 4, 1, 0; 2000 EQ₄₉, 4, 1, 0; 2000 ER₄₉, 4, 1, 0; 2000 EX₄₉, 8, 2, 16; 2000 EY₄₉, 4, 1, 0; 2000 ED₅₀, 8, 2, 10; 2000 EE₅₀, 4, 1, 0; 2000 EH₅₀ *, 6, 2, 1; 2000 EJ₅₀ *, 6, 2, 1; 2000 EK₅₀ *, 6, 2, 1; 2000 EN₅₀, 4, 1, 0; 2000 EX₅₀ *, 8, 2, 1; 2000 EJ₅₆, 4, 1, 0; 2000 EL₅₆, 8, 2, 16; 2000 EM₅₆, 4, 1, 0; 2000 EO₅₆, 8, 2, 16; 2000 EP₅₆, 8, 2, 16; 2000 EQ₅₆, 8, 2, 16; 2000 ER₅₆, 8, 2, 16; 2000 EU₅₆, 4, 1, 0; 2000 EB₅₇, 4, 1, 0; 2000 EE₅₇, 4, 1, 0; 2000 EK₅₇, 4, 1, 0; 2000 EL₅₇, 4, 1, 0; 2000 EM₅₇, 4, 1, 0; 2000 EN₅₇, 8, 2, 16; 2000 EO₅₇, 4, 1, 0; 2000 EP₅₇, 4, 1, 0; 2000 ER₅₇, 8, 2, 16; 2000 ES₅₇, 4, 1, 0; 2000 ET₅₇, 4, 1, 0; 2000 EU₅₇, 4, 1, 0; 2000 EW₅₇, 4, 1, 0; 2000 EX₅₇, 4, 1, 0; 2000 EY₅₇, 4,

2000 MAR. 20

M.P.C. 38993

4, 1, 0; 2144 T-2, 8, 2, 16; 2148 T-2, 4, 1, 0; 2216 T-2, 4, 1, 0; 3072 T-2, 4, 1, 0; 3092 T-2, 4, 1, 0; 3162 T-2, 4, 1, 0; 3178 T-2, 4, 1, 0; 3335 T-2, 4, 1, 0; 3336 T-2, 4, 1, 0; 4153 T-2, 4, 1, 0; 4263 T-2, 4, 1, 0; 1032 T-3, 4, 1, 0; 1055 T-3, 4, 1, 0; 1061 T-3, 4, 1, 0; 1144 T-3, 4, 1, 0; 2139 T-3, 4, 1, 0; 2288 T-3, 4, 1, 0; 3152 T-3, 4, 1, 0; 3417 T-3, 4, 1, 0; 3508 T-3, 4, 1, 0; 4032 T-3, 4, 1, 0; 4203 T-3, 4, 1, 0; 4310 T-3, 4, 1, 0; 4336 T-3, 4, 1, 0; 5168 T-3, 4, 1, 0; (17), 4, 1, 0; (19), 3, 1, 0; (29), 4, 1, 0; (35), 4, 1, 0; (42), 4, 1, 0; (45), 8, 2, 5; (51), 4, 1, 0; (52), 4, 1, 0; (62), 4, 1, 0; (65), 4, 1, 0; (67), 4, 1, 0; (69), 2, 1, 0; (129), 4, 1, 0; (137), 12, 3, 11; (138), 4, 1, 0; (145), 4, 1, 0; (146), 4, 1, 0; (152), 4, 1, 0; (167), 4, 1, 0; (180), 4, 1, 0; (185), 8, 1, 0; (187), 8, 2, 2; (202), 4, 1, 0; (204), 4, 1, 0; (229), 4, 1, 0; (231), 4, 1, 0; (234), 4, 1, 0; (236), 4, 1, 0; (239), 4, 1, 0; (245), 4, 1, 0; (246), 4, 1, 0; (248), 4, 1, 0; (250), 4, 1, 0; (253), 4, 1, 0; (254), 4, 1, 0; (256), 4, 1, 0; (259), 4, 1, 0; (263), 4, 1, 0; (269), 4, 1, 0; (272), 4, 1, 0; (279), 4, 1, 0; (281), 4, 1, 0; (282), 4, 1, 0; (287), 4, 1, 0; (288), 4, 1, 0; (295), 4, 1, 0; (301), 4, 1, 0; (308), 4, 1, 0; (316), 4, 1, 0; (319), 4, 1, 0; (333), 4, 1, 0; (335), 4, 1, 0; (342), 3, 1, 0; (345), 4, 1, 0; (349), 4, 1, 0; (358), 4, 1, 0; (369), 4, 1, 0; (371), 4, 1, 0; (373), 4, 1, 0; (377), 2, 1, 0; (379), 4, 1, 0; (380), 4, 1, 0; (383), 8, 2, 5; (400), 4, 1, 0; (409), 4, 1, 0; (419), 4, 1, 0; (435), 4, 1, 0; (437), 4, 1, 0; (447), 4, 1, 0; (450), 4, 1, 0; (457), 4, 1, 0; (461), 4, 1, 0; (462), 4, 1, 0; (466), 4, 1, 0; (487), 4, 1, 0; (497), 4, 1, 0; (515), 4, 1, 0; (517), 4, 1, 0; (520), 4, 1, 0; (532), 4, 1, 0; (564), 4, 1, 0; (580), 4, 1, 0; (607), 4, 1, 0; (610), 4, 1, 0; (614), 4, 1, 0; (624), 4, 1, 0; (633), 4, 1, 0; (642), 4, 1, 0; (648), 4, 1, 0; (658), 4, 1, 0; (662), 4, 1, 0; (669), 4, 1, 0; (670), 4, 1, 0; (673), 4, 1, 0; (677), 4, 1, 0; (691), 4, 1, 0; (695), 4, 1, 0; (722), 4, 1, 0; (723), 4, 1, 0; (732), 4, 1, 0; (762), 4, 1, 0; (765), 4, 1, 0; (767), 4, 1, 0; (782), 4, 1, 0; (783), 4, 1, 0; (791), 4, 1, 0; (792), 4, 1, 0; (798), 4, 1, 0; (806), 4, 1, 0; (812), 8, 2, 5; (817), 4, 1, 0; (824), 8, 2, 5; (827), 4, 1, 0; (828), 3, 1, 0; (835), 4, 1, 0; (842), 6, 2, 4; (854), 8, 2, 1; (857), 4, 1, 0; (866), 4, 1, 0; (874), 4, 1, 0; (879), 7, 2, 1; (881), 4, 1, 0; (894), 4, 1, 0; (899), 8, 2, 11; (901), 8, 2, 12; (909), 4, 1, 0; (913), 4, 1, 0; (925), 4, 1, 0; (933), 4, 1, 0; (938), 4, 1, 0; (948), 4, 1, 0; (952), 4, 1, 0; (953), 3, 1, 0; (963), 4, 1, 0; (1001), 12, 3, 11; (1004), 4, 1, 0; (1014), 4, 1, 0; (1018), 4, 1, 0; (1026), 4, 1, 0; (1035), 8, 2, 16; (1037), 4, 1, 0; (1043), 4, 1, 0; (1061), 4, 1, 0; (1062), 3, 1, 0; (1069), 4, 1, 0; (1073), 8, 2, 4; (1084), 4, 1, 0; (1097), 8, 2, 5; (1100), 8, 2, 16; (1106), 4, 1, 0; (1111), 4, 1, 0; (1123), 4, 1, 0; (1124), 4, 1, 0; (1127), 4, 1, 0; (1129), 4, 1, 0; (1130), 4, 1, 0; (1147), 4, 1, 0; (1149), 4, 1, 0; (1163), 4, 1, 0; (1164), 8, 2, 5; (1171), 8, 2, 16; (1174), 4, 1, 0; (1183), 4, 1, 0; (1188), 4, 1, 0; (1190), 4, 1, 0; (1191), 4, 1, 0; (1194), 8, 2, 10; (1196), 4, 1, 0; (1225), 4, 1, 0; (1226), 4, 1, 0; (1237), 4, 1, 0; (1240), 4, 1, 0; (1245), 8, 2, 16; (1249), 4, 1, 0; (1257), 3, 1, 0; (1261), 8, 2, 16; (1271), 4, 1, 0; (1273), 4, 1, 0; (1274), 4, 1, 0; (1275), 4, 1, 0; (1286), 8, 2, 2; (1292), 4, 1, 0; (1300), 3, 1, 0; (1305), 4, 1, 0; (1306), 8, 2, 1; (1308), 4, 1, 0; (1335), 4, 1, 0; (1338), 4, 1, 0; (1351), 4, 1, 0; (1358), 4, 1, 0; (1365), 4, 1, 0; (1376), 4, 1, 0; (1394), 4, 1, 0; (1401), 4, 1, 0; (1406), 8, 2, 2; (1410), 4, 1, 0; (1415), 4, 1, 0; (1425), 4, 1, 0; (1433), 4, 1, 0; (1437), 4, 1, 0; (1443), 4, 1, 0; (1444), 4, 1, 0; (1449), 4, 1, 0; (1451), 4, 1, 0; (1472), 3, 1, 0; (1476), 4, 1, 0; (1484), 4, 1, 0; (1487), 4, 1, 0; (1490), 8, 2, 11; (1497), 4, 1, 0; (1509), 4, 1, 0; (1510), 4, 1, 0; (1549), 4, 1, 0; (1550), 4, 1, 0; (1553), 4, 1, 0; (1557), 3, 1, 0; (1564), 4, 1, 0; (1576), 4, 1, 0; (1578), 4, 1, 0; (1584), 4, 1, 0; (1585), 4, 1, 0; (1598), 4, 1, 0; (1607), 4, 1, 0; (1615), 4, 1, 0; (1616), 4, 1, 0; (1627), 4, 1, 0; (1636), 4, 1, 0; (1643), 4, 1, 0; (1645), 4, 1, 0; (1648), 4, 1, 0; (1650), 4, 1, 0; (1674), 4, 1, 0; (1692), 4, 1, 0; (1700), 4, 1, 0; (1702), 4, 1, 0; (1704), 4, 1, 0; (1707), 8, 2, 16; (1708), 4, 1, 0; (1713), 4, 1, 0; (1720), 4, 1, 0; (1732), 4, 1, 0; (1733), 4, 1, 0; (1734), 8, 2, 16; (1737), 8, 1, 0; (1738), 8, 2, 5; (1740), 4, 1, 0; (1742), 3, 1, 0; (1753), 4, 1, 0; (1759), 4, 1, 0; (1760), 4, 1, 0; (1769), 3, 1, 0; (1782), 8, 1, 0; (1788), 4, 1, 0; (1792), 4, 1, 0; (1795), 4, 1, 0; (1798), 4, 1, 0; (1802), 4, 1, 0; (1815), 4, 1, 0; (1820), 4, 1, 0; (1823), 8, 2, 12; (1824), 4, 1, 0; (1827), 4, 1, 0; (1830), 4, 1, 0; (1831), 4, 1, 0; (1842), 4, 1, 0; (1845), 8, 2, 5; (1857), 4, 1, 0; (1860), 4, 1, 0; (1874), 4, 1, 0; (1881), 4, 1, 0; (1887), 4, 1, 0; (1892), 4, 1, 0; (1906), 4, 1, 0; (1908), 3, 1, 0; (1911), 4, 1, 0; (1923), 4, 1, 0; (1931), 4, 1, 0; (1954), 4, 1, 0; (1955), 4, 1, 0; (1956), 4, 1, 0; (1967), 4, 1, 0; (1970), 4, 1, 0; (1975), 2, 1, 0; (1980), 4, 1, 0; (1991), 4, 1, 0; (1996), 4, 1, 0; (2006), 4, 1, 0; (2034), 4, 1, 0; (2035), 4, 1, 0; (2070), 4, 1, 0; (2092), 4, 1, 0; (2133), 4, 1, 0; (2139), 8, 2, 12; (2142), 4, 1, 0; (2144), 4, 1, 0; (2147), 4, 1, 0; (2151), 4, 1, 0; (2158), 4, 1, 0; (2163), 4, 1, 0; (2166), 4, 1, 0; (2172), 4, 1, 0; (2178), 4, 1, 0; (2179), 4, 1, 0; (2191), 4, 1, 0; (2194), 4, 1, 0; (2197), 4, 1, 0; (2208), 4, 1, 0; (2210), 4, 1, 0; (2219), 4, 1, 0; (2220), 4, 1, 0; (2268), 4, 1, 0; (2271), 4, 1, 0; (2272), 8, 2, 1; (2284), 4, 1, 0; (2288), 4, 1, 0; (2298), 4, 1, 0; (2301), 4, 1, 0; (2312), 4, 1, 0; (2324), 4, 1, 0; (2330), 4, 1, 0; (2335), 4, 1, 0; (2336), 4, 1, 0; (2344), 4, 1, 0; (2358), 4, 1, 0; (2359), 4, 1, 0; (2364), 4, 1, 0; (2370), 4, 1, 0; (2372), 4, 1, 0; (2388), 4, 1, 0; (2404), 8, 1, 0; (2405), 4, 1, 0; (2410), 4, 1, 0; (2422), 4, 1, 0; (2426), 4, 1, 0; (2429), 4, 1, 0; (2438), 4, 1, 0; (2441), 4, 1, 0; (2462), 4, 1, 0; (2471), 8, 2, 10; (2474), 4, 1, 0; (2481), 4, 1, 0; (2482), 4, 1, 0; (2491), 4, 1, 0; (2516), 4, 1, 0; (2525), 4, 1, 0; (2526), 4, 1, 0; (2529), 8, 2, 1; (2532), 4, 1, 0; (2539), 4, 1, 0; (2543), 4, 1, 0; (2546), 4, 1, 0; (2551), 4, 1, 0; (2553), 8, 2, 6; (2567), 4, 1, 0; (2569), 4, 1, 0; (2574), 4, 1, 0; (2585), 8, 1, 0; (2592), 4, 1, 0; (2609), 4, 1, 0; (2615), 4, 1, 0; (2630), 4, 1, 0; (2634), 4, 1, 0; (2641), 4, 1, 0; (2645), 4, 1, 0; (2672), 4, 1, 0; (2680), 4, 1, 0; (2707), 4, 1, 0; (2716), 4, 1, 0; (2721), 4, 1, 0; (2742), 4, 1, 0; (2752), 4, 1, 0; (2760), 4, 1, 0; (2768), 4, 1, 0; (2775), 4, 1, 0; (2776), 4, 1, 0; (2798), 4, 1, 0; (2802), 4, 1, 0; (2815), 4, 1, 0; (2819), 3, 1, 0; (2826), 4, 1, 0; (2829), 4, 1, 0; (2839), 8, 2, 6; (2846), 4, 1, 0; (2849), 4, 1, 0; (2851), 4, 1, 0; (2867), 4, 1, 0; (2871), 4, 1, 0; (2874), 3, 1, 0; (2876), 4, 1, 0; (2890), 4, 1, 0; (2902), 8, 2, 2; (2904), 4, 1, 0; (2913), 4, 1, 0; (2918), 4, 1, 0; (2927), 4, 1, 0; (2930), 4, 1, 0; (2941), 4, 1, 0; (2948), 4, 1, 0; (2961), 4, 1, 0; (2963), 4, 1, 0; (2998), 4, 1, 0; (3005), 4, 1, 0; (3007), 4,

1, 0; (3014), 8, 2, 10; (3016), 4, 1, 0; (3071), 4, 1, 0; (3082), 4, 1, 0; (3087), 4, 1, 0; (3093), 4, 1, 0; (3111), 4, 1, 0; (3115), 4, 1, 0; (3119), 4, 1, 0; (3128), 4, 1, 0; (3136), 4, 1, 0; (3138), 4, 1, 0; (3140), 4, 1, 0; (3149), 4, 1, 0; (3165), 4, 1, 0; (3166), 4, 1, 0; (3179), 4, 1, 0; (3184), 4, 1, 0; (3203), 4, 1, 0; (3241), 4, 1, 0; (3250), 4, 1, 0; (3283), 4, 1, 0; (3289), 4, 1, 0; (3293), 4, 1, 0; (3318), 4, 1, 0; (3327), 4, 1, 0; (3333), 8, 2, 10; (3335), 4, 1, 0; (3344), 4, 1, 0; (3382), 4, 1, 0; (3387), 4, 1, 0; (3388), 4, 1, 0; (3405), 4, 1, 0; (3412), 8, 2, 12; (3413), 4, 1, 0; (3415), 4, 1, 0; (3421), 4, 1, 0; (3426), 4, 1, 0; (3439), 4, 1, 0; (3443), 4, 1, 0; (3452), 4, 1, 0; (3454), 4, 1, 0; (3455), 4, 1, 0; (3464), 4, 1, 0; (3469), 4, 1, 0; (3477), 4, 1, 0; (3486), 4, 1, 0; (3494), 4, 1, 0; (3499), 4, 1, 0; (3519), 4, 1, 0; (3522), 4, 1, 0; (3586), 4, 1, 0; (3588), 4, 1, 0; (3593), 4, 1, 0; (3597), 4, 1, 0; (3604), 4, 1, 0; (3608), 4, 1, 0; (3621), 4, 1, 0; (3634), 4, 1, 0; (3657), 3, 1, 0; (3658), 4, 1, 0; (3661), 4, 1, 0; (3664), 4, 1, 0; (3669), 4, 1, 0; (3672), 4, 1, 0; (3689), 4, 1, 0; (3696), 4, 1, 0; (3720), 4, 1, 0; (3726), 4, 1, 0; (3750), 4, 1, 0; (3755), 4, 1, 0; (3766), 4, 1, 0; (3768), 4, 1, 0; (3818), 4, 1, 0; (3821), 4, 1, 0; (3832), 4, 1, 0; (3837), 4, 1, 0; (3861), 4, 1, 0; (3864), 4, 1, 0; (3865), 4, 1, 0; (3866), 4, 1, 0; (3869), 4, 1, 0; (3879), 4, 1, 0; (3881), 4, 1, 0; (3885), 4, 1, 0; (3891), 4, 1, 0; (3898), 4, 1, 0; (3899), 4, 1, 0; (3907), 4, 1, 0; (3918), 4, 1, 0; (3926), 8, 2, 1; (3943), 4, 1, 0; (3944), 4, 1, 0; (3956), 3, 1, 0; (3959), 4, 1, 0; (3971), 8, 2, 1; (3972), 4, 1, 0; (3987), 4, 1, 0; (3996), 4, 1, 0; (4020), 8, 2, 2; (4042), 4, 1, 0; (4050), 4, 1, 0; (4058), 4, 1, 0; (4074), 4, 1, 0; (4077), 4, 1, 0; (4078), 4, 1, 0; (4092), 4, 1, 0; (4094), 4, 1, 0; (4120), 4, 1, 0; (4126), 4, 1, 0; (4128), 4, 1, 0; (4140), 4, 1, 0; (4159), 4, 1, 0; (4173), 4, 1, 0; (4184), 4, 1, 0; (4190), 3, 1, 0; (4198), 4, 1, 0; (4219), 4, 1, 0; (4226), 4, 1, 0; (4234), 4, 1, 0; (4235), 4, 1, 0; (4258), 4, 1, 0; (4262), 4, 1, 0; (4274), 4, 1, 0; (4282), 4, 1, 0; (4288), 4, 1, 0; (4294), 4, 1, 0; (4300), 4, 1, 0; (4305), 4, 1, 0; (4323), 4, 1, 0; (4325), 4, 1, 0; (4339), 4, 1, 0; (4342), 4, 1, 0; (4344), 4, 1, 0; (4349), 4, 1, 0; (4358), 4, 1, 0; (4406), 4, 1, 0; (4411), 4, 1, 0; (4412), 4, 1, 0; (4422), 4, 1, 0; (4436), 4, 1, 0; (4461), 4, 1, 0; (4462), 4, 1, 0; (4468), 4, 1, 0; (4485), 4, 1, 0; (4497), 4, 1, 0; (4498), 8, 2, 1; (4506), 4, 1, 0; (4513), 4, 1, 0; (4520), 4, 1, 0; (4529), 4, 1, 0; (4532), 4, 1, 0; (4554), 4, 1, 0; (4556), 4, 1, 0; (4559), 4, 1, 0; (4571), 4, 1, 0; (4590), 4, 1, 0; (4591), 4, 1, 0; (4608), 4, 1, 0; (4612), 4, 1, 0; (4619), 3, 1, 0; (4635), 4, 1, 0; (4642), 4, 1, 0; (4684), 4, 1, 0; (4695), 4, 1, 0; (4700), 4, 1, 0; (4701), 4, 1, 0; (4719), 4, 1, 0; (4723), 4, 1, 0; (4726), 8, 1, 0; (4727), 4, 1, 0; (4739), 4, 1, 0; (4763), 4, 1, 0; (4767), 12, 3, 11; (4771), 4, 1, 0; (4783), 4, 1, 0; (4793), 4, 1, 0; (4803), 4, 1, 0; (4809), 4, 1, 0; (4816), 12, 3, 11; (4860), 4, 1, 0; (4874), 4, 1, 0; (4875), 4, 1, 0; (4879), 4, 1, 0; (4923), 4, 1, 0; (4924), 4, 1, 0; (4931), 4, 1, 0; (4934), 4, 1, 0; (4935), 4, 1, 0; (4940), 4, 1, 0; (4941), 4, 1, 0; (4948), 4, 1, 0; (4949), 4, 1, 0; (4956), 4, 1, 0; (4959), 4, 1, 0; (4980), 4, 1, 0; (4985), 4, 1, 0; (5002), 4, 1, 0; (5005), 4, 1, 0; (5008), 4, 1, 0; (5017), 4, 1, 0; (5019), 4, 1, 0; (5020), 4, 1, 0; (5030), 4, 1, 0; (5038), 4, 1, 0; (5051), 4, 1, 0; (5063), 4, 1, 0; (5114), 4, 1, 0; (5133), 4, 1, 0; (5141), 4, 1, 0; (5142), 4, 1, 0; (5157), 4, 1, 0; (5158), 4, 1, 0; (5165), 4, 1, 0; (5175), 4, 1, 0; (5177), 4, 1, 0; (5180), 4, 1, 0; (5186), 4, 1, 0; (5200), 4, 1, 0; (5204), 8, 2, 10; (5209), 4, 1, 0; (5210), 4, 1, 0; (5258), 4, 1, 0; (5271), 4, 1, 0; (5273), 4, 1, 0; (5289), 4, 1, 0; (5293), 4, 1, 0; (5300), 4, 1, 0; (5301), 4, 1, 0; (5306), 4, 1, 0; (5312), 4, 1, 0; (5321), 4, 1, 0; (5331), 4, 1, 0; (5337), 4, 1, 0; (5361), 4, 1, 0; (5367), 4, 1, 0; (5372), 4, 1, 0; (5389), 4, 1, 0; (5391), 4, 1, 0; (5434), 4, 1, 0; (5444), 3, 1, 0; (5455), 4, 1, 0; (5458), 4, 1, 0; (5460), 4, 1, 0; (5462), 4, 1, 0; (5474), 4, 1, 0; (5510), 4, 1, 0; (5525), 4, 1, 0; (5530), 3, 1, 0; (5543), 4, 1, 0; (5550), 4, 1, 0; (5568), 4, 1, 0; (5605), 4, 1, 0; (5613), 4, 1, 0; (5618), 4, 1, 0; (5621), 4, 1, 0; (5630), 4, 1, 0; (5666), 4, 1, 0; (5671), 4, 1, 0; (5676), 8, 2, 1; (5685), 4, 1, 0; (5688), 4, 1, 0; (5693), 4, 1, 0; (5701), 4, 1, 0; (5714), 4, 1, 0; (5721), 4, 1, 0; (5759), 4, 1, 0; (5775), 4, 1, 0; (5790), 4, 1, 0; (5795), 4, 1, 0; (5823), 4, 1, 0; (5838), 4, 1, 0; (5849), 4, 1, 0; (5857), 8, 1, 0; (5866), 4, 1, 0; (5886), 4, 1, 0; (5889), 4, 1, 0; (5902), 4, 1, 0; (5918), 4, 1, 0; (5920), 8, 2, 6; (5927), 3, 1, 0; (5936), 4, 1, 0; (5943), 4, 1, 0; (5951), 4, 1, 0; (5952), 4, 1, 0; (5970), 4, 1, 0; (5993), 4, 1, 0; (6015), 4, 1, 0; (6020), 4, 1, 0; (6038), 4, 1, 0; (6054), 4, 1, 0; (6058), 4, 1, 0; (6062), 4, 1, 0; (6064), 4, 1, 0; (6065), 4, 1, 0; (6066), 4, 1, 0; (6069), 4, 1, 0; (6085), 4, 1, 0; (6091), 4, 1, 0; (6097), 4, 1, 0; (6110), 4, 1, 0; (6111), 4, 1, 0; (6131), 4, 1, 0; (6145), 8, 2, 10; (6155), 4, 1, 0; (6162), 4, 1, 0; (6189), 4, 1, 0; (6195), 4, 1, 0; (6208), 4, 1, 0; (6210), 4, 1, 0; (6215), 4, 1, 0; (6216), 4, 1, 0; (6233), 4, 1, 0; (6238), 4, 1, 0; (6256), 4, 1, 0; (6273), 4, 1, 0; (6275), 4, 1, 0; (6283), 4, 1, 0; (6284), 4, 1, 0; (6286), 4, 1, 0; (6321), 4, 1, 0; (6326), 4, 1, 0; (6332), 3, 1, 0; (6342), 4, 1, 0; (6345), 4, 1, 0; (6353), 4, 1, 0; (6357), 4, 1, 0; (6359), 4, 1, 0; (6365), 4, 1, 0; (6366), 4, 1, 0; (6390), 4, 1, 0; (6400), 8, 2, 10; (6402), 4, 1, 0; (6408), 4, 1, 0; (6416), 4, 1, 0; (6425), 8, 1, 0; (6432), 4, 1, 0; (6439), 4, 1, 0; (6442), 4, 1, 0; (6457), 4, 1, 0; (6459), 4, 1, 0; (6461), 4, 1, 0; (6462), 4, 1, 0; (6464), 4, 1, 0; (6492), 4, 1, 0; (6504), 4, 1, 0; (6524), 4, 1, 0; (6526), 4, 1, 0; (6532), 4, 1, 0; (6610), 4, 1, 0; (6637), 4, 1, 0; (6664), 4, 1, 0; (6679), 4, 1, 0; (6680), 4, 1, 0; (6693), 4, 1, 0; (6699), 4, 1, 0; (6709), 3, 1, 0; (6713), 4, 1, 0; (6728), 4, 1, 0; (6738), 4, 1, 0; (6751), 4, 1, 0; (6752), 4, 1, 0; (6762), 4, 1, 0; (6769), 4, 1, 0; (6789), 4, 1, 0; (6792), 4, 1, 0; (6804), 4, 1, 0; (6807), 4, 1, 0; (6815), 4, 1, 0; (6817), 4, 1, 0; (6837), 4, 1, 0; (6841), 4, 1, 0; (6846), 4, 1, 0; (6852), 4, 1, 0; (6856), 4, 1, 0; (6865), 4, 1, 0; (6874), 4, 1, 0; (6882), 4, 1, 0; (6884), 4, 1, 0; (6886), 4, 1, 0; (6888), 4, 1, 0; (6895), 4, 1, 0; (6899), 4, 1, 0; (6916), 4, 1, 0; (6919), 4, 1, 0; (6920), 4, 1, 0; (6925), 4, 1, 0; (6927), 4, 1, 0; (6928), 4, 1, 0; (6929), 4, 1, 0; (6934), 4, 1

4, 1, 0; (7139), 4, 1, 0; (7144), 4, 1, 0; (7158), 4, 1, 0; (7167), 4, 1, 0; (7194), 8, 2, 10; (7201), 4, 1, 0; (7202), 4, 1, 0; (7209), 4, 1, 0; (7210), 4, 1, 0; (7212), 8, 1, 0; (7244), 4, 1, 0; (7274), 4, 1, 0; (7284), 4, 1, 0; (7344), 4, 1, 0; (7349), 4, 1, 0; (7357), 4, 1, 0; (7362), 4, 1, 0; (7412), 8, 2, 2; (7421), 12, 3, 11; (7451), 4, 1, 0; (7479), 4, 1, 0; (7482), 4, 1, 0; (7527), 4, 1, 0; (7570), 4, 1, 0; (7579), 4, 1, 0; (7625), 4, 1, 0; (7629), 4, 1, 0; (7642), 4, 1, 0; (7643), 4, 1, 0; (7647), 3, 1, 0; (7671), 4, 1, 0; (7683), 4, 1, 0; (7690), 4, 1, 0; (7691), 4, 1, 0; (7716), 4, 1, 0; (7724), 4, 1, 0; (7726), 4, 1, 0; (7728), 4, 1, 0; (7734), 4, 1, 0; (7736), 4, 1, 0; (7739), 4, 1, 0; (7747), 4, 1, 0; (7748), 4, 1, 0; (7765), 4, 1, 0; (7767), 4, 1, 0; (7794), 4, 1, 0; (7798), 4, 1, 0; (7799), 4, 1, 0; (7801), 4, 1, 0; (7805), 4, 1, 0; (7820), 4, 1, 0; (7824), 4, 1, 0; (7830), 4, 1, 0; (7833), 4, 1, 0; (7834), 4, 1, 0; (7849), 4, 1, 0; (7856), 8, 2, 6; (7858), 4, 1, 0; (7861), 4, 1, 0; (7862), 4, 1, 0; (7863), 3, 1, 0; (7864), 4, 1, 0; (7868), 4, 1, 0; (7873), 4, 1, 0; (7881), 4, 1, 0; (7883), 4, 1, 0; (7885), 4, 1, 0; (7901), 4, 1, 0; (7906), 12, 3, 11; (7908), 4, 1, 0; (7912), 4, 1, 0; (7923), 4, 1, 0; (7932), 4, 1, 0; (7936), 4, 1, 0; (7951), 4, 1, 0; (7956), 4, 1, 0; (7964), 4, 1, 0; (7969), 4, 1, 0; (7971), 4, 1, 0; (7973), 4, 1, 0; (7975), 3, 1, 0; (7979), 4, 1, 0; (7981), 4, 1, 0; (7991), 4, 1, 0; (7993), 4, 1, 0; (8000), 4, 1, 0; (8010), 4, 1, 0; (8017), 4, 1, 0; (8018), 4, 1, 0; (8025), 4, 1, 0; (8027), 4, 1, 0; (8030), 4, 1, 0; (8040), 4, 1, 0; (8052), 4, 1, 0; (8055), 4, 1, 0; (8057), 4, 1, 0; (8064), 4, 1, 0; (8066), 4, 1, 0; (8076), 4, 1, 0; (8083), 4, 1, 0; (8096), 3, 1, 0; (8100), 4, 1, 0; (8101), 4, 1, 0; (8102), 4, 1, 0; (8103), 4, 1, 0; (8133), 4, 1, 0; (8156), 4, 1, 0; (8158), 4, 1, 0; (8182), 4, 1, 0; (8183), 4, 1, 0; (8209), 4, 1, 0; (8219), 4, 1, 0; (8234), 4, 1, 0; (8247), 4, 1, 0; (8250), 4, 1, 0; (8314), 4, 1, 0; (8317), 4, 1, 0; (8415), 3, 1, 0; (8425), 4, 1, 0; (8604), 4, 1, 0; (9006), 8, 1, 0; (9014), 4, 1, 0; (9089), 4, 1, 0; (9115), 4, 1, 0; (9144), 4, 1, 0; (9150), 4, 1, 0; (9159), 4, 1, 0; (9161), 4, 1, 0; (9169), 4, 1, 0; (9198), 4, 1, 0; (9204), 4, 1, 0; (9238), 4, 1, 0; (9254), 4, 1, 0; (9255), 4, 1, 0; (9261), 4, 1, 0; (9277), 4, 1, 0; (9279), 4, 1, 0; (9283), 4, 1, 0; (9289), 4, 1, 0; (9292), 4, 1, 0; (9296), 4, 1, 0; (9300), 4, 1, 0; (9314), 4, 1, 0; (9320), 4, 1, 0; (9321), 4, 1, 0; (9322), 4, 1, 0; (9342), 4, 1, 0; (9350), 4, 1, 0; (9353), 4, 1, 0; (9355), 4, 1, 0; (9367), 4, 1, 0; (9369), 4, 1, 0; (9374), 4, 1, 0; (9381), 4, 1, 0; (9392), 4, 1, 0; (9415), 4, 1, 0; (9417), 4, 1, 0; (9421), 4, 1, 0; (9422), 4, 1, 0; (9424), 4, 1, 0; (9436), 4, 1, 0; (9443), 4, 1, 0; (9480), 4, 1, 0; (9481), 4, 1, 0; (9492), 4, 1, 0; (9494), 4, 1, 0; (9495), 4, 1, 0; (9500), 8, 2, 13; (9513), 4, 1, 0; (9518), 4, 1, 0; (9520), 4, 1, 0; (9525), 4, 1, 0; (9527), 4, 1, 0; (9530), 4, 1, 0; (9534), 4, 1, 0; (9535), 4, 1, 0; (9536), 4, 1, 0; (9538), 4, 1, 0; (9546), 4, 1, 0; (9547), 4, 1, 0; (9550), 4, 1, 0; (9553), 4, 1, 0; (9565), 4, 1, 0; (9569), 4, 1, 0; (9576), 8, 2, 13; (9581), 4, 1, 0; (9589), 3, 1, 0; (9593), 4, 1, 0; (9597), 4, 1, 0; (9598), 4, 1, 0; (9599), 4, 1, 0; (9602), 4, 1, 0; (9603), 4, 1, 0; (9609), 4, 1, 0; (9613), 4, 1, 0; (9614), 4, 1, 0; (9619), 4, 1, 0; (9620), 4, 1, 0; (9626), 4, 1, 0; (9629), 4, 1, 0; (9643), 4, 1, 0; (9654), 4, 1, 0; (9656), 4, 1, 0; (9663), 4, 1, 0; (9670), 4, 1, 0; (9672), 4, 1, 0; (9684), 4, 1, 0; (9688), 4, 1, 0; (9689), 4, 1, 0; (9695), 4, 1, 0; (9703), 4, 1, 0; (9709), 4, 1, 0; (9719), 4, 1, 0; (9731), 12, 3, 11; (9733), 4, 1, 0; (9737), 4, 1, 0; (9738), 4, 1, 0; (9746), 4, 1, 0; (9748), 4, 1, 0; (9751), 4, 1, 0; (9753), 4, 1, 0; (9766), 4, 1, 0; (9774), 4, 1, 0; (9776), 4, 1, 0; (9781), 4, 1, 0; (9785), 4, 1, 0; (9786), 4, 1, 0; (9787), 4, 1, 0; (9798), 4, 1, 0; (9805), 4, 1, 0; (9806), 4, 1, 0; (9811), 4, 1, 0; (9812), 4, 1, 0; (9820), 4, 1, 0; (9824), 4, 1, 0; (9827), 4, 1, 0; (9834), 8, 2, 13; (9835), 4, 1, 0; (9837), 4, 1, 0; (9838), 4, 1, 0; (9840), 4, 1, 0; (9844), 4, 1, 0; (9851), 4, 1, 0; (9854), 4, 1, 0; (9858), 4, 1, 0; (9864), 4, 1, 0; (9865), 4, 1, 0; (9866), 4, 1, 0; (9876), 4, 1, 0; (9877), 4, 1, 0; (9883), 4, 1, 0; (9885), 4, 1, 0; (9888), 3, 1, 0; (9889), 8, 2, 10; (9890), 4, 1, 0; (9897), 3, 1, 0; (9900), 4, 1, 0; (9908), 4, 1, 0; (9910), 4, 1, 0; (9911), 4, 1, 0; (9915), 4, 1, 0; (9923), 4, 1, 0; (9932), 4, 1, 0; (9938), 4, 1, 0; (9954), 4, 1, 0; (9957), 4, 1, 0; (9967), 4, 1, 0; (9973), 4, 1, 0; (9975), 4, 1, 0; (9976), 4, 1, 0; (9983), 4, 1, 0; (9990), 4, 1, 0; (9996), 4, 1, 0; (9999), 4, 1, 0; (10005), 8, 2, 10; (10023), 4, 1, 0; (10025), 4, 1, 0; (10028), 4, 1, 0; (10036), 4, 1, 0; (10045), 8, 2, 10; (10049), 4, 1, 0; (10052), 4, 1, 0; (10053), 4, 1, 0; (10064), 4, 1, 0; (10068), 4, 1, 0; (10077), 4, 1, 0; (10078), 4, 1, 0; (10082), 4, 1, 0; (10095), 4, 1, 0; (10096), 4, 1, 0; (10147), 4, 1, 0; (10148), 4, 1, 0; (10153), 4, 1, 0; (10162), 4, 1, 0; (10168), 8, 2, 6; (10177), 4, 1, 0; (10179), 4, 1, 0; (10202), 4, 1, 0; (10211), 4, 1, 0; (10223), 4, 1, 0; (10236), 4, 1, 0; (10237), 4, 1, 0; (10238), 8, 2, 12; (10240), 4, 1, 0; (10241), 4, 1, 0; (10245), 4, 1, 0; (10252), 4, 1, 0; (10264), 4, 1, 0; (10278), 4, 1, 0; (10342), 4, 1, 0; (10355), 8, 2, 10; (10356), 4, 1, 0; (10388), 4, 1, 0; (10406), 4, 1, 0; (10441), 4, 1, 0; (10492), 4, 1, 0; (10500), 4, 1, 0; (10561), 4, 1, 0; (10573), 4, 1, 0; (10616), 4, 1, 0; (10641), 4, 1, 0; (10749), 4, 1, 0; (10761), 4, 1, 0; (10856), 4, 1, 0; (11098), 4, 1, 0; (11196), 4, 1, 0; (11299), 4, 1, 0; (11305), 4, 1, 0; (11316), 4, 1, 0; (11321), 4, 1, 0; (11332), 4, 1, 0; (11350), 4, 1, 0; (11351), 8, 2, 2; (11383), 4, 1, 0; (11386), 4, 1, 0; (11388), 4, 1, 0; (11394), 4, 1, 0; (11481), 4, 1, 0; (11564), 4, 1, 0; (11666), 8, 2, 1; (11739), 4, 1, 0; (11949), 4, 1, 0; (12030), 4, 1, 0; (12044), 4, 1, 0; (12097), 4, 1, 0; (12191), 4, 1, 0; (12198), 4, 1, 0; (12215), 4, 1, 0; (12255), 4, 1, 0; (12262), 4, 1, 0; (12263), 4, 1, 0; (12280), 4, 1, 0; (12293), 4, 1, 0; (12338), 4, 1, 0; (12340), 3, 1, 0; (12359), 4, 1, 0; (12396), 4, 1, 0; (12397), 4, 1, 0; (12429), 4, 1, 0; (12448), 4, 1, 0; (12470), 4, 1, 0; (12540), 4, 1, 0; (12569), 4, 1, 0; (12645), 3, 1, 0; (12684), 4, 1, 0; (12704), 4, 1, 0; (12727), 4, 1, 0; (12737), 4, 1, 0; (12749), 4, 1, 0; (12756), 4, 1, 0; (12766), 8, 2, 10; (12779), 4, 1, 0; (12781), 4, 1, 0; (12789), 4, 1, 0; (12806), 4, 1, 0; (12814), 4, 1, 0; (12818), 4, 1, 0; (12829), 4, 1, 0; (12871), 4, 1, 0; (12914), 4, 1, 0; (12965), 4, 1, 0; (12975), 4, 1, 0; (12987), 4, 1, 0; (13002), 4, 1, 0; (13021), 4, 1, 0; (13034), 4, 1, 0; (13044), 4, 1, 0; (13049), 4, 1, 0; (13053), 4, 1, 0; (13054), 4, 1, 0; (13056), 4, 1, 0; (13061), 4, 1, 0; (13073), 4, 1, 0; (13093), 4, 1, 0; (13109), 4, 1, 0; (13113), 4, 1, 0; (13114), 4, 1, 0; (13136), 4, 1, 0; (13139), 4, 1, 0; (13140), 4, 1, 0; (13143), 4, 1, 0; (13157), 4, 1, 0; (13164), 4, 1, 0; (13165), 4, 1, 0; (13170), 4, 1, 0; (13171), 4, 1, 0; (13173), 8, 2, 10; (13195), 4, 1, 0; (13205), 4, 1, 0; (13213), 7, 2, 6; (13218), 4, 1, 0; (13221), 4, 1, 0; (13222), 4, 1, 0; (13226), 4, 1, 0; (13255), 4, 1,

0; (13265), 4, 1, 0; (13275), 4, 1, 0; (13288), 3, 1, 0; (13293), 4, 1, 0; (13303), 4, 1, 0; (13316), 4, 1, 0; (13320), 4, 1, 0; (13325), 8, 2, 6; (13338), 4, 1, 0; (13341), 4, 1, 0; (13345), 4, 1, 0; (13357), 4, 1, 0; (13365), 4, 1, 0; (13374), 4, 1, 0; (13377), 4, 1, 0; (13386), 4, 1, 0; (13390), 4, 1, 0; (13420), 4, 1, 0; (13446), 4, 1, 0; (13466), 4, 1, 0; (13468), 4, 1, 0; (13470), 4, 1, 0; (13471), 4, 1, 0; (13482), 4, 1, 0; (13489), 4, 1, 0; (13492), 4, 1, 0; (13502), 4, 1, 0; (13508), 4, 1, 0; (13510), 4, 1, 0; (13511), 4, 1, 0; (13513), 4, 1, 0; (13514), 3, 1, 0; (13516), 4, 1, 0; (13517), 4, 1, 0; (13518), 4, 1, 0; (13519), 4, 1, 0; (13529), 4, 1, 0; (13543), 4, 1, 0; (13546), 4, 1, 0; (13551), 4, 1, 0; (13555), 8, 2, 11; (13558), 4, 1, 0; (13567), 4, 1, 0; (13568), 4, 1, 0; (13571), 4, 1, 0; (13573), 3, 1, 0; (13574), 4, 1, 0; (13575), 4, 1, 0; (13576), 4, 1, 0; (13583), 4, 1, 0; (13590), 4, 1, 0; (13607), 4, 1, 0; (13615), 8, 2, 6; (13616), 4, 1, 0; (13617), 4, 1, 0; (13621), 4, 1, 0; (13622), 4, 1, 0; (13626), 4, 1, 0; (13628), 4, 1, 0; (13649), 4, 1, 0; (13668), 4, 1, 0; (13670), 4, 1, 0; (13674), 4, 1, 0; (13678), 4, 1, 0; (13683), 4, 1, 0; (13686), 4, 1, 0; (13687), 4, 1, 0; (13692), 4, 1, 0; (13698), 4, 1, 0; (13705), 4, 1, 0; (13706), 4, 1, 0; (13708), 4, 1, 0; (13710), 4, 1, 0; (13714), 4, 1, 0; (13727), 4, 1, 0; (13744), 4, 1, 0; (13749), 4, 1, 0; (13757), 4, 1, 0; (13761), 4, 1, 0; (13762), 4, 1, 0; (13764), 4, 1, 0; (13775), 4, 1, 0; (13781), 4, 1, 0; (13783), 4, 1, 0; (13787), 4, 1, 0; (13792), 4, 1, 0; (13799), 4, 1, 0; (13804), 4, 1, 0; (13813), 4, 1, 0; (13815), 4, 1, 0; (13841), 4, 1, 0; (13852), 4, 1, 0; (13859), 4, 1, 0; (13875), 4, 1, 0; (13879), 4, 1, 0; (13882), 4, 1, 0; (13883), 4, 1, 0; (13886), 4, 1, 0; (13889), 4, 1, 0; (13898), 4, 1, 0; [23016, 4873, 92*, 1998/11/14-2000/03/14]

704 Lincoln Laboratory Experimental Test System, New Mexico

G. Stokes, MIT Lincoln Laboratory, 244 Wood Street, Lexington, MA 02420,
U.S.A. [stokes@ll.mit.edu]

Observers M. Blythe, F. Shelly, M. Bezpalko, M. Elowitz, R. Huber
Measurers J. Stuart, H. Viggh, R. Sayer, J. B. Evans

1.0-m $f/2.15$ reflector + CCD

USNO-A2.0

1937 UD, 5, 1, 0; 1971 UQ, 4, 1, 0; 1971 UK₁, 5, 1, 0; 1972 TE, 8, 2, 5; 1973 SU₁, 5, 1, 0; 1973 SX₂, 10, 2, 4; 1974 PC, 3, 1, 0; 1975 ST, 9, 2, 3; 1975 TE, 3, 1, 0; 1975 TJ₃, 13, 3, 12; 1975 VZ₈, 8, 2, 5; 1976 QA, 23, 5, 11; 1976 UN₂, 5, 1, 0; 1976 YN₇, 20, 4, 8; 1977 DG₃, 30, 6, 11; 1977 DQ₃, 4, 1, 0; 1977 EL₅, 4, 1, 0; 1977 ES₇, 9, 2, 26; 1977 QN₁, 4, 1, 0; 1977 QD₂, 23, 5, 11; 1977 QO₃, 5, 1, 0; 1977 RM, 4, 1, 0; 1977 RS₁₇, 19, 4, 11; 1978 PV₂, 13, 3, 11; 1978 PA₃, 23, 4, 11; 1978 PG₄, 5, 1, 0; 1978 RX₁, 20, 4, 11; 1978 RD₂, 4, 1, 0; 1978 RH₀, 14, 3, 11; 1978 SD₃, 14, 3, 3; 1978 SH₃, 4, 1, 0; 1978 SJ₇, 5, 1, 0; 1978 SD₅, 5, 1, 0; 1978 US₅, 10, 2, 7; 1978 UV₇, 8, 1, 0; 1978 UX₇, 10, 2, 3; 1978 VA, 5, 1, 0; 1978 VV₃, 5, 1, 0; 1978 VY₃, 5, 1, 0; 1978 VY₅, 5, 1, 0; 1978 VO₆, 4, 1, 0; 1978 VD₈, 8, 2, 7; 1978 VS₈, 20, 3, 2; 1978 VT₉, 3, 1, 0; 1978 VW₀, 10, 2, 7; 1978 VH₁₀, 5, 1, 0; 1978 YM, 3, 1, 0; 1979 MB₃, 19, 4, 68; 1979 MQ₃, 5, 1, 0; 1979 MJ₄, 5, 1, 0; 1979 ML₅, 3, 1, 0; 1979 MC₉, 6, 2, 8; 1979 OZ₁₀, 5, 1, 0; 1979 QT₁, 20, 3, 3; 1979 QA₂, 5, 1, 0; 1979 QX₂, 9, 2, 3; 1979 QD₃, 9, 2, 29; 1979 SO, 15, 3, 7; 1980 BA, 5, 1, 0; 1980 FQ₁, 4, 1, 0; 1980 FE₂, 9, 2, 28; 1980 PT₁, 5, 1, 0; 1980 PC₃, 12, 3, 10; 1980 XB, 16, 3, 22; 1981 DN, 5, 1, 0; 1981 EK₁, 15, 3, 8; 1981 EU₄, 5, 1, 0; 1981 EB₈, 4, 1, 0; 1981 EP₉, 4, 1, 0; 1981 EB₁₁, 13, 3, 9; 1981 EJ₁₁, 5, 1, 0; 1981 EJ₁₃, 4, 1, 0; 1981 EC₁₄, 15, 3, 11; 1981 ED₁₈, 20, 4, 11; 1981 EZ₂₁, 9, 2, 3; 1981 EC₂₂, 20, 4, 11; 1981 EY₂₂, 5, 1, 0; 1981 EB₂₃, 10, 2, 8; 1981 EU₂₅, 5, 1, 0; 1981 EW₂₅, 5, 1, 0; 1981 EE₂₆, 5, 1, 0; 1981 EH₂₈, 15, 3, 6; 1981 EX₃₁, 7, 2, 1; 1981 EB₃₄, 15, 3, 7; 1981 ED₃₄, 13, 3, 11; 1981 EM₃₇, 5, 1, 0; 1981 EE₃₈, 9, 2, 1; 1981 ER₄₀, 15, 3, 3; 1981 EP₄₁, 4, 1, 0; 1981 EQ₄₇, 10, 3, 3; 1981 ER₄₇, 8, 2, 3; 1981 FP, 25, 5, 11; 1981 QL₂, 10, 2, 6; 1981 QW₂, 10, 2, 2; 1981 QD₄, 5, 1, 0; 1981 RX₁, 5, 1, 0; 1981 RL₂, 4, 1, 0; 1981 RR₃, 14, 3, 3; 1981 RW₄, 10, 2, 7; 1981 UA, 5, 1, 0; 1981 UB₂₃, 4, 1, 0; 1981 UU₂₉, 5, 1, 0; 1982 FJ₃, 9, 2, 4; 1982 KH₁, 10, 2, 7; 1982 QP, 3, 1, 0; 1982 QA₂, 5, 1, 0; 1982 UD₄, 3, 1, 0; 1982 US₆, 15, 2, 8; 1982 UC₁₁, 4, 1, 0; 1982 UE₁₂, 25, 5, 11; 1982 VB₄, 5, 1, 0; 1983 GU, 5, 1, 0; 1983 RQ₃, 14, 3, 11; 1983 RV₃, 5, 1, 0; 1983 XE, 4, 1, 0; 1984 EQ, 35, 6, 13; 1984 QB, 8, 2, 1; 1984 SA, 4, 1, 0; 1984 SL, 9, 2, 4; 1984 SO₄, 10, 2, 4; 1984 SM₅, 12, 3, 12; 1984 UR, 3, 1, 0; 1984 WJ₁, 8, 2, 8; 1985 CL₂, 20, 4, 11; 1985 PF, 15, 2, 8; 1985 PG, 5, 1, 0; 1985 PO, 15, 3, 3; 1985 PE₁, 12, 3, 11; 1985 QP, 13, 3, 12; 1985 QG₅, 5, 1, 0; 1985 RA, 5, 1, 0; 1985 RP, 3, 1, 0; 1985 RM₃, 15, 3, 11; 1985 RN₃, 14, 3, 11; 1985 RL₄, 9, 2, 3; 1985 SX₂, 10, 2, 3; 1985 SC₃, 4, 1, 0; 1985 TS, 5, 1, 0; 1985 UO₃, 5, 1, 0; 1985 UA₅, 8, 2, 11; 1985 VA₁, 10, 2, 10; 1986 AB, 10, 2, 132; 1986 PE₁, 9, 2, 1; 1986 QM, 13, 3, 7; 1986 QU, 9, 2, 6; 1986 QR₁, 27, 6, 11; 1986 QY₁, 4, 1, 0; 1986 QS₃, 4, 1, 0; 1986 RF₃, 9, 2, 1; 1986 RP₅, 10, 2, 7; 1986 TG₁, 5, 1, 0; 1986 XT, 25, 5, 11; 1987 CH, 25, 5, 11; 1987 QH, 5, 1, 0; 1987 QT, 18, 4, 11; 1987 QX₇, 14, 3, 8; 1987 RL₁, 14, 3, 11; 1987 SP₁, 5, 1, 0; 1987 SV₃, 5, 1, 0; 1987 SL₄, 9, 2, 3; 1987 SD₁₃, 20, 3, 3; 1987 UR, 14, 3, 3; 1987 UT, 3, 1, 0; 1987 UA₁, 5, 1, 0; 1988 BY₃, 5, 1, 0; 1988 BG₅, 4, 1, 0; 1988 BH₅, 4, 1, 0; 1988 BL₅, 8, 2, 4; 1988 CY, 3, 1, 0; 1988 CV₄, 9, 2, 2; 1988 DE, 5, 1, 0; 1988 MH, 5, 1, 0; 1988 PL, 9, 2, 3; 1988 PU, 5, 1, 0; 1988 PL₂, 18, 3, 5; 1988 RY₁, 3, 1, 0; 1988 RM₂, 5, 1, 0; 1988 RZ₂, 12, 3, 2; 1988 RX₃, 4, 1, 0; 1988 RQ₈, 29, 5, 12; 198

2000 MAR. 20

M.P.C. 38995

2, 8; 1989 CC₃, 4, 1, 0; 1989 CF₃, 10, 2, 4; 1989 CA₆, 10, 2, 2; 1989 DB, 10, 2, 7; 1989 EB₁, 4, 1, 0; 1989 GM₁, 9, 2, 4; 1989 GH₃, 10, 2, 4; 1989 GN₃, 4, 1, 0; 1989 HC, 14, 3, 12; 1989 LH, 5, 1, 0; 1989 PU, 3, 1, 0; 1989 RX, 5, 1, 0; 1989 RP₁, 10, 2, 4; 1989 SA, 3, 1, 0; 1989 SJ₂, 20, 4, 11; 1989 SZ₃, 10, 2, 7; 1989 SZ₄, 3, 1, 0; 1989 SW₈, 8, 2, 5; 1989 SK₁₀, 5, 1, 0; 1989 ST₁₀, 19, 4, 36; 1989 TQ, 43, 9, 168; 1989 TZ, 5, 1, 0; 1989 TN₁, 10, 2, 6; 1989 TC₄, 13, 3, 11; 1989 TV₅, 9, 2, 7; 1989 TR₁₁, 24, 5, 8; 1989 TF₁₄, 5, 1, 0; 1989 TA₁₆, 13, 3, 11; 1989 UM₄, 5, 1, 0; 1989 UC₆, 13, 3, 469; 1989 UX₇, 4, 1, 0; 1989 VR₁, 4, 1, 0; 1989 VS₂, 10, 2, 11; 1989 WH, 4, 1, 0; 1989 WU, 4, 1, 0; 1989 WY₁, 5, 1, 0; 1989 WD₃, 5, 1, 0; 1989 XR₁, 5, 1, 0; 1989 YE₆, 5, 1, 0; 1990 DZ, 20, 4, 11; 1990 ES₆, 20, 4, 11; 1990 FD₃, 5, 1, 0; 1990 HG, 13, 3, 18; 1990 HZ₁, 10, 2, 4; 1990 OY, 3, 1, 0; 1990 OB₁, 8, 2, 4; 1990 OX₁, 10, 2, 8; 1990 OH₂, 14, 3, 11; 1990 OX₂, 8, 2, 8; 1990 OK₃, 5, 1, 0; 1990 OR₃, 23, 5, 19; 1990 OY₃, 10, 2, 4; 1990 OH₄, 5, 1, 0; 1990 QG₁, 8, 2, 4; 1990 QT₁, 9, 2, 8; 1990 QN₂, 5, 1, 0; 1990 QU₄, 4, 1, 0; 1990 QB₅, 22, 4, 13; 1990 QE₅, 13, 3, 2; 1990 QR₅, 5, 1, 0; 1990 QB₆, 4, 1, 0; 1990 QT₆, 5, 1, 0; 1990 QM₇, 10, 2, 2; 1990 QN₇, 14, 3, 13; 1990 QP₁₀, 3, 1, 0; 1990 RE₂, 15, 3, 2; 1990 RN₃, 19, 4, 15; 1990 RV₅, 4, 1, 0; 1990 RS₆, 3, 1, 0; 1990 RM₉, 3, 1, 0; 1990 RN₉, 26, 6, 150; 1990 RP₉, 8, 2, 4; 1990 RU₉, 5, 1, 0; 1990 SC₃, 10, 2, 7; 1990 SX₃, 5, 1, 0; 1990 ST₄, 5, 1, 0; 1990 SD₅, 17, 3, 10; 1990 SN₆, 5, 1, 0; 1990 ST₇, 3, 1, 0; 1990 SM₁₄, 12, 3, 4; 1990 SK₂₈, 30, 6, 11; 1990 TN₃, 5, 1, 0; 1990 TO₄, 7, 2, 7; 1990 TF₈, 5, 1, 0; 1990 TD₁₂, 4, 1, 0; 1990 UA₁, 5, 1, 0; 1990 UC₁, 5, 1, 0; 1990 UA₂, 14, 3, 7; 1990 UC₂, 10, 2, 7; 1990 UJ₄, 8, 2, 7; 1990 US₄, 4, 1, 0; 1990 UX₄, 9, 2, 25; 1990 UE₅, 8, 2, 4; 1990 UE₅, 20, 4, 12; 1990 VY₅, 5, 1, 0; 1990 VG₆, 4, 1, 0; 1990 VT₆, 3, 1, 0; 1990 VW₈, 10, 2, 4; 1990 WS₁, 3, 1, 0; 1990 WR₂, 5, 1, 0; 1990 WO₄, 5, 1, 0; 1991 AE₂, 5, 1, 0; 1991 AF₂, 13, 3, 7; 1991 AG₂, 3, 1, 0; 1991 BZ, 5, 1, 0; 1991 CL, 5, 1, 0; 1991 DB, 28, 6, 21; 1991 DY, 9, 2, 1; 1991 EL₄, 3, 1, 0; 1991 FQ₂, 13, 3, 10; 1991 FW₃, 17, 4, 11; 1991 GF₈, 20, 4, 5; 1991 GM₈, 5, 1, 0; 1991 JW₁, 4, 1, 0; 1991 LF₂, 20, 4, 11; 1991 NK₄, 10, 2, 5; 1991 NV₆, 9, 2, 5; 1991 OV, 5, 1, 0; 1991 PA, 10, 3, 11; 1991 PV, 8, 2, 3; 1991 PO₄, 5, 1, 0; 1991 PT₄, 5, 1, 0; 1991 PF₅, 5, 1, 0; 1991 PO₅, 30, 6, 15; 1991 PE₆, 28, 6, 9; 1991 PL₈, 9, 2, 5; 1991 PP₈, 19, 4, 7; 1991 PQ₈, 17, 3, 3; 1991 PD₁₁, 25, 5, 9; 1991 PO₁₂, 5, 1, 0; 1991 PP₁₂, 22, 5, 11; 1991 PP₁₃, 5, 1, 0; 1991 PC₁₆, 10, 2, 3; 1991 PR₁₆, 20, 4, 11; 1991 PG₁₈, 13, 3, 5; 1991 PL₁₈, 10, 2, 5; 1991 QJ, 25, 5, 11; 1991 RA, 3, 1, 0; 1991 RH₁, 5, 1, 0; 1991 RM₁, 15, 3, 54; 1991 RR₁, 5, 1, 0; 1991 RC₂, 27, 6, 11; 1991 RE₂, 8, 2, 4; 1991 RU₂, 10, 2, 4; 1991 RT₃, 3, 1, 0; 1991 RN₄, 5, 1, 0; 1991 RE₆, 3, 1, 0; 1991 RF₆, 4, 1, 0; 1991 RE₇, 9, 2, 8; 1991 RG₇, 4, 1, 0; 1991 RU₇, 7, 2, 4; 1991 RU₇, 8, 2, 1; 1991 RL₈, 10, 2, 7; 1991 RC₉, 10, 2, 3; 1991 RR₉, 4, 1, 0; 1991 RO₉, 19, 4, 11; 1991 RB₁₀, 10, 2, 3; 1991 RB₁₀, 5, 1, 0; 1991 RO₁₁, 5, 1, 0; 1991 RP₁₂, 18, 4, 11; 1991 RN₁₃, 7, 2, 4; 1991 RH₁₄, 5, 1, 0; 1991 RQ₁₄, 9, 2, 8; 1991 RF₁₆, 4, 1, 0; 1991 RU₁₆, 6, 2, 12; 1991 RA₁₇, 5, 1, 0; 1991 RG₁₇, 15, 3, 5; 1991 RW₁₇, 15, 3, 11; 1991 RX₁₇, 5, 1, 0; 1991 RX₂₁, 7, 2, 12; 1991 RK₂₆, 18, 4, 12; 1991 RH₂₇, 15, 3, 11; 1991 RY₂₉, 5, 1, 0; 1991 RJ₄₁, 3, 1, 0; 1991 SB, 4, 1, 0; 1991 SM₄, 1, 0; 1991 SU₅, 5, 1, 0; 1991 SW₄, 1, 0; 1991 SK₂, 4, 1, 0; 1991 SM₂, 15, 2, 1; 1991 TJ, 4, 1, 0; 1991 TJ, 4, 1, 0; 1991 TK, 4, 1, 0; 1991 TS, 3, 1, 0; 1991 TQ₁, 10, 2, 11; 1991 TK₈, 25, 5, 11; 1991 TL₁₄, 10, 2, 8; 1991 UR, 14, 3, 12; 1991 UE₁, 15, 3, 9; 1991 UF₁, 10, 2, 7; 1991 UK₁, 15, 3, 11; 1991 UJ₂, 10, 2, 5; 1991 UO₂, 5, 1, 0; 1991 UR₂, 8, 2, 8; 1991 UZ₃, 23, 5, 11; 1991 VY₅, 5, 1, 0; 1991 VF₁, 5, 1, 0; 1991 VQ₁, 4, 1, 0; 1991 VY₁, 5, 1, 0; 1991 VY₂, 5, 1, 0; 1991 VO₃, 15, 3, 12; 1991 VG₄, 5, 1, 0; 1991 VJ₄, 8, 2, 12; 1991 VA₅, 3, 1, 0; 1991 VM₅, 13, 3, 12; 1991 XC, 3, 1, 0; 1991 XD, 5, 1, 0; 1992 AJ₁, 3, 1, 0; 1992 AV₁, 5, 1, 0; 1992 BF₂, 8, 2, 7; 1992 BQ₂, 4, 1, 0; 1992 CH, 5, 1, 0; 1992 CQ, 5, 1, 0; 1992 CG₃, 14, 3, 3; 1992 DH₁, 3, 1, 0; 1992 DN₆, 4, 1, 0; 1992 DR₆, 3, 1, 0; 1992 DP₇, 5, 1, 0; 1992 DY₈, 4, 1, 0; 1992 EX, 4, 1, 0; 1992 EY₅, 24, 5, 9; 1992 EA₆, 5, 1, 0; 1992 EZ₆, 18, 4, 13; 1992 EP₁₀, 23, 5, 11; 1992 EK₁₂, 15, 3, 11; 1992 EN₁₂, 9, 2, 5; 1992 ED₁₄, 5, 1, 0; 1992 EK₁₄, 22, 5, 11; 1992 EW₁₆, 22, 5, 11; 1992 EW₁₇, 5, 1, 0; 1992 ER₁₈, 13, 3, 3; 1992 EB₂₆, 3, 1, 0; 1992 EZ₂₈, 4, 1, 0; 1992 FC₂, 5, 1, 0; 1992 GD₃, 9, 2, 4; 1992 GV₃, 15, 3, 10; 1992 GA₅, 9, 2, 4; 1992 HD₄, 12, 3, 12; 1992 HJ₇, 3, 1, 0; 1992 JQ, 10, 2, 5; 1992 JH₃, 15, 3, 7; 1992 JR₃, 5, 1, 0; 1992 LS, 5, 1, 0; 1992 NS, 10, 2, 4; 1992 OH₂, 9, 2, 107; 1992 OT₉, 4, 1, 0; 1992 PG₂, 4, 1, 0; 1992 PC₃, 5, 1, 0; 1992 RE₂, 17, 4, 11; 1992 RB₃, 15, 3, 11; 1992 RF₅, 14, 2, 1; 1992 RJ₅, 4, 1, 0; 1992 RM₇, 9, 2, 7; 1992 ST₁₃, 9, 2, 3; 1992 SY₂₄, 20, 5, 11; 1992 SR₂₅, 15, 3, 2; 1992 UN, 9, 2, 3; 1992 UJ₂, 8, 2, 4; 1992 UW₂, 5, 1, 0; 1992 UH₃, 9, 2, 5; 1992 UZ₃, 8, 2, 3; 1992 UJ₅, 5, 1, 0; 1992 UP₆, 5, 1, 0; 1992 US₈, 13, 3, 5; 1992 VF, 5, 1, 0; 1992 VL, 4, 1, 0; 1992 VN, 5, 1, 0; 1992 VQ, 13, 3, 3; 1992 WG, 5, 1, 0; 1992 WK₁, 9, 2, 10; 1992 WP₁, 4, 1, 0; 1992 WX₁, 9, 2, 10; 1992 WZ₁, 5, 1, 0; 1992 WA₄, 15, 3, 12; 1992 WR₅, 4, 1, 0; 1992 WB₉, 5, 1, 0; 1992 WK₉, 20, 4, 11; 1992 YC, 5, 1, 0; 1992 YG₂, 15, 3, 11; 1993 BB, 25, 5, 12; 1993 BG, 4, 1, 0; 1993 BJ₂, 7, 2, 5; 1993 BL₂, 9, 2, 5; 1993 BT₁₄, 5, 1, 0; 1993 DN₁, 3, 1, 0; 1993 EK, 3, 1, 0; 1993 FL₁, 10, 2, 8; 1993 FQ₁, 5, 1, 0; 1993 FX₃, 5, 1, 0; 1993 FR₄, 5, 1, 0; 1993 FS₄, 10, 2, 8; 1993 FY₅, 5, 1, 0; 1993 FZ₆, 5, 1, 0; 1993 FV₇, 5, 1, 0; 1993 FG₈, 8, 2, 3; 1993 FL₈, 9, 2, 8; 1993 FK₉, 10, 2, 7; 1993 FN₉, 15, 3, 12; 1993 FO₁₀, 5, 1, 0; 1993 FR₁₀, 8, 2, 8; 1993 FH₁₁, 14, 3, 8; 1993 FS₁₁, 15, 3, 11; 1993 FX₁₁, 5, 1, 0; 1993 FY₁₁, 8, 2, 5; 1993 FE₁₂, 5, 1, 0; 1993 FO₁₂, 15, 3, 12; 1993 FK₁₃, 9, 2, 5; 1993 FS₁₃, 15, 3, 2; 1993 FL₁₄, 4, 1, 0; 1993 FA₁₅, 14, 2, 5; 1993 FV₁₆, 5, 1, 0; 1993 FX₁₆, 10, 2, 8; 1993 FT₁₉, 8, 2, 5; 1993 FH₂₀, 23, 4, 11; 1993 FK₂₀, 9, 2, 9; 1993 FO₂₀, 13, 3, 7; 1993 FB₂₂, 8, 2, 5; 1993 FE₂₂, 25, 6, 11; 1993 FR₂₃, 3, 1, 0; 1993 FD₂₅, 15, 3, 6; 1993 FX₂₅, 17, 4, 11; 1993 FS₂₆, 3, 1, 0; 1993 FY₂₇, 5, 1, 0; 1993 FG₂₈, 8, 2, 8; 1993 FX₂₉, 5, 1, 0; 1993 FO₃₁, 8, 2, 1; 1993 FS₃₁, 10, 2, 5; 1993 FB₃₂, 18, 4, 11; 1993 FM₃₂, 5, 1, 0; 1993 FC₃₃, 10, 2, 3; 1993 FQ₃₅, 4, 1, 0; 1993 FL₃₉, 5, 1, 0; 1993 FZ₄₀, 3, 1, 0; 1993 FW₄₁, 19, 4, 6; 1993 FT₄₂, 4, 1, 0; 1993 FH₄₃,

20, 4, 12; 1993 FA₄₅, 5, 1, 0; 1993 FS₄₆, 15, 3, 11; 1993 FG₅₀, 17, 4, 5; 1993 FS₅₀, 11, 3, 11; 1993 FR₅₂, 15, 2, 1; 1993 FA₅₃, 18, 4, 5; 1993 FL₅₄, 15, 3, 7; 1993 FZ₅₅, 8, 2, 6; 1993 FT₅₆, 8, 2, 6; 1993 GA, 9, 2, 12; 1993 GB, 4, 1, 0; 1993 GA₁, 14, 3, 3; 1993 HX, 25, 5, 11; 1993 HC₁, 4, 1, 0; 1993 HH₁, 4, 1, 0; 1993 HW₁, 5, 1, 0; 1993 HL₃, 5, 1, 0; 1993 KX₁, 5, 1, 0; 1993 KZ₁, 10, 2, 14; 1993 LF, 8, 2, 5; 1993 MB₁, 4, 1, 0; 1993 OC₂, 4, 1, 0; 1993 OD₂, 14, 3, 7; 1993 OX₂, 3, 1, 0; 1993 OY₂, 10, 2, 7; 1993 OP₃, 3, 1, 0; 1993 OO₄, 14, 3, 5; 1993 OK₇, 4, 1, 0; 1993 OJ₈, 4, 1, 0; 1993 OS₁₂, 15, 3, 3; 1993 OY₁₂, 5, 1, 0; 1993 PY₃, 5, 1, 0; 1993 QA₁, 10, 2, 7; 1993 QV₁, 14, 3, 11; 1993 QN₃, 15, 3, 6; 1993 QF₄, 5, 1, 0; 1993 QM₄, 15, 3, 3; 1993 QU₄, 8, 2, 1; 1993 QK₅, 10, 2, 47; 1993 QP₉, 5, 1, 0; 1993 RS, 5, 1, 0; 1993 RD₂, 20, 4, 5; 1993 RH₂, 3, 1, 0; 1993 RA₃, 3, 1, 0; 1993 RP₃, 5, 1, 0; 1993 RV₇, 9, 2, 1; 1993 RB₁₁, 17, 4, 11; 1993 SG₁, 12, 3, 4; 1993 SK₂, 14, 3, 12; 1993 SA₄, 19, 4, 11; 1993 SN₇, 4, 1, 0; 1993 TJ, 4, 1, 0; 1993 TH₄, 17, 4, 8; 1993 TM₄, 4, 1, 0; 1993 TW₈, 4, 1, 0; 1993 TV₁₂, 8, 2, 8; 1993 TH₁₄, 10, 2, 2; 1993 TO₁₅, 14, 3, 11; 1993 TD₁₇, 10, 2, 3; 1993 TL₁₇, 15, 3, 2; 1993 TG₁₈, 9, 2, 11; 1993 TH₂₄, 4, 1, 0; 1993 TM₂₄, 15, 3, 12; 1993 TK₂₅, 5, 1, 0; 1993 TL₂₈, 5, 1, 0; 1993 TM₃₁, 5, 1, 0; 1993 TL₃₂, 4, 1, 0; 1993 TK₃₃, 4, 1, 0; 1993 TW₃₃, 9, 2, 5; 1993 TQ₃₆, 10, 2, 8; 1993 TD₃₇, 4, 1, 0; 1993 TL₃₈, 3, 1, 0; 1993 UK, 9, 2, 5; 1993 UL, 5, 1, 0; 1993 US, 10, 2, 8; 1993 UZ₇, 4, 1, 0; 1993 VT, 3, 1, 0; 1993 VU₁, 3, 1, 0; 1993 VH₅, 15, 3, 5; 1993 VV₇, 4, 1, 0; 1993 XG, 9, 2, 7; 1993 XQ, 18, 4, 11; 1993 XW, 10, 2, 83; 1993 XW₂, 4, 1, 0; 1993 YF, 17, 4, 8; 1994 AM, 3, 1, 0; 1994 AF₃, 5, 1, 0; 1994 AN₉, 15, 3, 12; 1994 AL₁₆, 15, 3, 3; 1994 BD₄, 14, 3, 11; 1994 BJ₄, 10, 2, 4; 1994 CF₂, 14, 3, 3; 1994 CN₂, 9, 2, 12; 1994 CQ₁₃, 5, 1, 0; 1994 EL₁, 5, 1, 0; 1994 GN, 6, 2, 2; 1994 GU₉, 4, 1, 0; 1994 NQ, 3, 1, 0; 1994 NS, 9, 2, 5; 1994 PG, 24, 5, 6; 1994 PH, 14, 3, 11; 1994 PN₁, 5, 1, 0; 1994 PU₁, 4, 1, 0; 1994 PB₃, 20, 4, 11; 1994 PL₄, 5, 1, 0; 1994 PF₅, 24, 5, 11; 1994 PD₈, 10, 2, 8; 1994 PS₁₀, 10, 2, 3; 1994 PF₁₁, 9, 2, 3; 1994 PG₁₁, 5, 1, 0; 1994 PL₁₁, 4, 1, 0; 1994 PO₁₂, 5, 1, 0; 1994 PM₁₄, 3, 1, 0; 1994 PK₁₅, 25, 6, 28; 1994 PM₁₅, 4, 1, 0; 1994 PQ₁₅, 4, 1, 0; 1994 PP₁₆, 14, 3, 8; 1994 PU₁₆, 4, 1, 0; 1994 PA₁₇, 9, 2, 572; 1994 PP₁₇, 4, 1, 0; 1994 PE₁₈, 13, 3, 11; 1994 PG₁₈, 4, 1, 0; 1994 PL₂₀, 14, 3, 11; 1994 PT₂₀, 14, 3, 5; 1994 PX₂₀, 5, 1, 0; 1994 PO₂₂, 27, 6, 12; 1994 PZ₂₂, 9, 2, 1; 1994 PL₂₃, 5, 1, 0; 1994 PQ₂₄, 18, 3, 3; 1994 PF₂₅, 3, 1, 0; 1994 PW₂₆, 5, 1, 0; 1994 PS₂₇, 7, 2, 1; 1994 PW₂₇, 13, 3, 11; 1994 PX₃₁, 17, 4, 8; 1994 PE₃₃, 5, 1, 0; 1994 PE₃₅, 8, 2, 1; 1994 PF₃₇, 4, 1, 0; 1994 PK₃₇, 5, 1, 0; 1994 PN₃₇, 3, 1, 0; 1994 PU₃₇, 5, 1, 0; 1994 PO₃₉, 8, 2, 3; 1994 QC, 4, 1, 0; 1994 QN, 8, 2, 11; 1994 RZ, 10, 2, 11; 1994 RL₁, 3, 1, 0; 1994 RY₁, 3, 1, 0; 1994 RD₃, 4, 1, 0; 1994 RH₉, 4, 1, 0; 1994 RK₁₁, 5, 1, 0; 1994 RR₁₁, 4, 1, 0; 1994 RN₁₂, 13, 3, 11; 1994 SC₆, 4, 1, 0; 1994 SL₇, 3, 1, 0; 1994 ST₇, 20, 4, 11; 1994 TE, 4, 1, 0; 1994 TJ, 12, 3, 6; 1994 TT, 15, 3, 11; 1994 TW, 3, 1, 0; 1994 TJ₂, 3, 1, 0; 1994 TU₂, 5, 1, 0; 1994 TB₃, 5, 1, 0; 1994 TQ₃, 10, 2, 9; 1994 TZ₁₄, 15, 3, 11; 1994 TF₁₅, 5, 1, 0; 1994 TH₁₅, 3, 1, 0; 1994 TQ₁₆, 5, 1, 0; 1994 UW, 4, 1, 0; 1994 UY, 18, 4, 11; 1994 UC₁, 34, 6, 11; 1994 UP₁, 4, 1, 0; 1994 UQ₇, 8, 2, 5; 1994 VF, 10, 2, 3; 1994 VH, 13, 3, 12; 1994 VJ, 4, 1, 0; 1994 VE₁, 25, 5, 11; 1994 VH₁, 10, 2, 5; 1994 VA₂, 9, 2, 11; 1994 VH₂, 10, 2, 11; 1994 VR₂, 10, 2, 8; 1994 VM₆, 9, 2, 474; 1994 UV₆, 5, 1, 0; 1994 VL₇, 13, 3, 3; 1994 WB, 22, 5, 445; 1994 WC, 4, 1, 0; 1994 WJ, 7, 2, 7; 1994 WT, 5, 1, 0; 1994 WS₁, 9, 2, 5; 1994 WC₂, 4, 1, 0; 1994 WF₂, 10, 2, 11; 1994 WK₂, 9, 2, 8; 1994 WN₃, 4, 1, 0; 1994 WR₃, 8, 2, 10; 1994 WA₄, 5, 1, 0; 1994 WE₄, 5, 1, 0; 1994 WJ₁₂, 5, 1, 0; 1994 XP₅, 5, 1, 0; 1994 XR₄, 5, 1, 0; 1994 YR, 10, 2, 7; 1994 YF₁, 4, 1, 0; 1994 YK₁, 9, 2, 2; 1994 YC₂, 3, 1, 0; 1994 YJ₂, 3, 1, 0; 1995 AK₁, 3, 1, 0; 1995 AE₄, 5, 1, 0; 1995 BW, 8, 2, 11; 1995 BZ, 4, 1, 0; 1995 BY₂, 3, 1, 0; 1995 BK₄, 5, 1, 0; 1995 BJ₁₁, 20, 4, 11; 1995 BS₁₁, 20, 4, 11; 1995 BW₁₁, 5, 1, 0; 1995 BP₁₅, 18, 4, 418; 1995 CB, 5, 1, 0; 1995 CG, 5, 1, 0; 1995 CJ, 4, 1, 0; 1995 CC₂, 4, 1, 0; 1995 CG₃, 13, 3, 5; 1995 DD, 4, 1, 0; 1995 DG

1996 DQ₂, 13, 3, 12; 1996 DY₂, 5, 1, 0; 1996 DT₃, 34, 7, 11; 1996 EW, 4, 1, 0; 1996 EL₁, 20, 4, 11; 1996 EM₁, 29, 6, 11; 1996 EP₁, 19, 4, 11; 1996 ER₂, 5, 1, 0; 1996 ES₂, 5, 1, 0; 1996 EU₃, 5, 1, 0; 1996 EY₅, 19, 4, 11; 1996 EG₆, 12, 3, 4; 1996 EY₇, 18, 4, 9; 1996 FA₄, 10, 2, 8; 1996 FJ₅, 10, 2, 12; 1996 FT₂₀, 4, 1, 0; 1996 GT₂, 3, 1, 0; 1996 GV₂, 5, 1, 0; 1996 GL₃, 10, 2, 5; 1996 GE₆, 3, 1, 0; 1996 GP₆, 5, 1, 0; 1996 GP₉, 5, 1, 0; 1996 GS₉, 9, 2, 3; 1996 GO₁₃, 9, 2, 3; 1996 GK₁₇, 15, 3, 3; 1996 GY₁₇, 15, 3, 5; 1996 GG₁₈, 5, 1, 0; 1996 GE₂₀, 5, 1, 0; 1996 GG₂₀, 25, 5, 11; 1996 HY, 3, 1, 0; 1996 HP₁, 5, 1, 0; 1996 HM₂, 10, 2, 6; 1996 HM₁₁, 9, 2, 1; 1996 HB₁₂, 5, 1, 0; 1996 HF₁₄, 3, 1, 0; 1996 HT₁₅, 19, 3, 2; 1996 HT₁₆, 15, 3, 5; 1996 HX₁₆, 13, 3, 13; 1996 HP₁₈, 5, 1, 0; 1996 HW₂₀, 4, 1, 0; 1996 HN₂₁, 4, 1, 0; 1996 HZ₂₁, 4, 1, 0; 1996 HD₂₂, 5, 1, 0; 1996 HC₂₅, 18, 4, 11; 1996 JE, 14, 3, 11; 1996 JC₁, 19, 3, 12; 1996 JT₇, 5, 1, 0; 1996 JO₉, 4, 1, 0; 1996 JK₁₃, 20, 4, 11; 1996 KN, 25, 5, 8; 1996 KO₁, 25, 3, 3; 1996 LS₂, 5, 1, 0; 1996 NG, 3, 1, 0; 1996 NS, 8, 2, 12; 1996 OJ, 23, 5, 11; 1996 OO₁, 10, 2, 4; 1996 PF₁, 14, 3, 11; 1996 PT₁, 4, 1, 0; 1996 PF₃, 9, 2, 3; 1996 RQ, 5, 1, 0; 1996 RU₂₅, 14, 3, 11; 1996 RZ₃₀, 15, 4, 50; 1996 RE₃₁, 4, 1, 0; 1996 SJ₃, 10, 2, 1; 1996 TQ₁₂, 4, 1, 0; 1996 VS₁, 5, 1, 0; 1996 VO₄, 3, 1, 0; 1996 VG₉, 3, 1, 0; 1996 XM₂, 5, 1, 0; 1996 XU₁₄, 5, 1, 0; 1996 XK₂₂, 5, 1, 0; 1997 AJ₄, 5, 1, 0; 1997 AN₅, 8, 2, 7; 1997 AQ₆, 29, 5, 18; 1997 AF₇, 3, 1, 0; 1997 AG₈, 4, 1, 0; 1997 AZ₁₇, 4, 1, 0; 1997 AV₁₈, 5, 1, 0; 1997 BG, 5, 1, 0; 1997 BD₃, 5, 1, 0; 1997 BD₅, 4, 1, 0; 1997 CB, 5, 1, 0; 1997 CZ, 4, 1, 0; 1997 CB₁, 4, 1, 0; 1997 CZ₂₁, 15, 3, 13; 1997 CC₂₂, 3, 1, 0; 1997 CB₂₈, 4, 1, 0; 1997 EE, 5, 1, 0; 1997 EY₂, 4, 1, 0; 1997 ER₅, 4, 1, 0; 1997 EH₁₂, 4, 1, 0; 1997 EE₂₃, 4, 1, 0; 1997 EP₂₅, 5, 1, 0; 1997 EO₃₀, 4, 1, 0; 1997 EQ₃₂, 4, 1, 0; 1997 EY₄₅, 4, 1, 0; 1997 EZ₄₆, 6, 2, 493; 1997 EA₄₇, 2, 1, 0; 1997 FC₁, 4, 1, 0; 1997 FQ₃, 22, 5, 11; 1997 FV₃, 10, 2, 5; 1997 FW₃, 20, 4, 11; 1997 FD₄, 5, 1, 0; 1997 GY, 9, 2, 3; 1997 GL₆, 24, 5, 11; 1997 GB₇, 4, 1, 0; 1997 GG₇, 19, 4, 11; 1997 GU₇, 8, 2, 7; 1997 GV₇, 5, 1, 0; 1997 GC₈, 4, 1, 0; 1997 GM₈, 3, 1, 0; 1997 GC₁₁, 9, 2, 52; 1997 GT₁₁, 13, 3, 11; 1997 GP₁₂, 3, 1, 0; 1997 GJ₁₃, 9, 2, 3; 1997 GK₁₃, 5, 1, 0; 1997 GO₁₃, 5, 1, 0; 1997 GB₁₄, 5, 1, 0; 1997 GU₁₅, 5, 1, 0; 1997 GZ₁₆, 3, 1, 0; 1997 GA₁₇, 10, 2, 3; 1997 GD₁₇, 4, 1, 0; 1997 GF₁₇, 5, 1, 0; 1997 GL₁₇, 4, 1, 0; 1997 GY₁₇, 3, 1, 0; 1997 GT₁₈, 13, 3, 11; 1997 GX₂₀, 7, 2, 5; 1997 GF₂₁, 5, 1, 0; 1997 GK₂₁, 28, 6, 11; 1997 GE₂₂, 3, 1, 0; 1997 GH₂₂, 8, 2, 12; 1997 GO₂₃, 5, 1, 0; 1997 GX₂₃, 4, 1, 0; 1997 GA₂₆, 3, 1, 0; 1997 GC₃₃, 4, 1, 0; 1997 GR₃₅, 3, 1, 0; 1997 GX₃₅, 15, 3, 11; 1997 GB₃₆, 9, 2, 8; 1997 GA₃₇, 8, 2, 7; 1997 GC₃₈, 34, 6, 11; 1997 GD₃₈, 5, 1, 0; 1997 GM₄₀, 10, 2, 14; 1997 GD₄₂, 5, 1, 0; 1997 HQ, 4, 1, 0; 1997 HF₇, 20, 4, 11; 1997 HM₇, 2, 1, 0; 1997 HJ₈, 21, 4, 11; 1997 HX₉, 3, 1, 0; 1997 HY₉, 4, 1, 0; 1997 HT₁₁, 20, 4, 9; 1997 HV₁₁, 15, 3, 12; 1997 JR, 5, 1, 0; 1997 JU₇, 10, 2, 4; 1997 JV₇, 18, 4, 11; 1997 JB₁₀, 10, 2, 4; 1997 JH₁₀, 9, 2, 2; 1997 JA₁₁, 5, 1, 0; 1997 JD₁₂, 4, 1, 0; 1997 JA₁₃, 17, 4, 11; 1997 JY₁₃, 5, 1, 0; 1997 JD₁₄, 5, 1, 0; 1997 JJ₁₅, 5, 1, 0; 1997 JN₁₅, 10, 2, 9; 1997 JT₁₅, 4, 1, 0; 1997 JF₁₆, 24, 5, 11; 1997 JN₁₆, 5, 1, 0; 1997 KA, 5, 1, 0; 1997 KC, 4, 1, 0; 1997 KG, 3, 1, 0; 1997 KS, 4, 1, 0; 1997 KU₂, 5, 1, 0; 1997 KH₄, 20, 3, 7; 1997 LL₂, 10, 2, 4; 1997 LY₂, 14, 3, 484; 1997 LB₄, 9, 2, 8; 1997 LZ₄, 3, 1, 0; 1997 LA₅, 5, 1, 0; 1997 MG, 18, 4, 12; 1997 MG₁, 5, 1, 0; 1997 MS₃, 10, 2, 9; 1997 MT₃, 5, 1, 0; 1997 MN₄, 5, 1, 0; 1997 MQ₄, 3, 1, 0; 1997 MY₄, 15, 3, 5; 1997 MY₅, 8, 2, 4; 1997 MC₈, 15, 3, 11; 1997 MR₈, 5, 1, 0; 1997 MP₉, 5, 1, 0; 1997 NP, 5, 1, 0; 1997 NQ, 5, 1, 0; 1997 NB₁, 20, 4, 7; 1997 NU₁, 15, 3, 5; 1997 NR₂, 4, 1, 0; 1997 NE₃, 10, 2, 4; 1997 NC₆, 5, 1, 0; 1997 OM, 14, 3, 5; 1997 OJ₁, 13, 3, 13; 1997 OL₂, 14, 3, 11; 1997 PR, 7, 2, 4; 1997 PZ₁, 14, 3, 11; 1997 PE₂, 25, 4, 12; 1997 PM₂, 4, 1, 0; 1997 PP₂, 3, 1, 0; 1997 PE₃, 25, 5, 11; 1997 PN₃, 14, 3, 11; 1997 PC₄, 23, 5, 11; 1997 PU₄, 8, 2, 5; 1997 QF, 14, 3, 13; 1997 QK, 4, 1, 0; 1997 QL, 3, 1, 0; 1997 QM, 5, 1, 0; 1997 QS, 5, 1, 0; 1997 QE₁, 3, 1, 0; 1997 QF₂, 5, 1, 0; 1997 QS₂, 4, 1, 0; 1997 QP₃, 4, 1, 0; 1997 RF, 11, 3, 5; 1997 RO, 10, 2, 1; 1997 RA₁, 17, 4, 13; 1997 RJ₁, 15, 3, 7; 1997 RY₂, 13, 3, 11; 1997 RQ₃, 34, 7, 11; 1997 RQ₅, 26, 6, 11; 1997 RL₇, 10, 2, 8; 1997 RR₈, 8, 2, 5; 1997 RY₈, 5, 1, 0; 1997 RM₉, 11, 3, 2; 1997 RR₉, 5, 1, 0; 1997 RJ₁₀, 14, 3, 2; 1997 RP₁₀, 4, 1, 0; 1997 SF, 5, 1, 0; 1997 SR, 12, 3, 12; 1997 SD₁, 8, 2, 4; 1997 SM₁, 6, 2, 4; 1997 SN₁, 9, 2, 5; 1997 SZ₅, 5, 1, 0; 1997 MS₃, 10, 2, 4; 1997 SD₄, 4, 1, 0; 1997 SZ₄, 9, 2, 8; 1997 SQ₉, 9, 2, 1; 1997 SW₉, 9, 2, 3; 1997 SK₁₀, 14, 3, 7; 1997 SN₁₀, 4, 1, 0; 1997 SF₁₁, 5, 1, 0; 1997 SG₂₁, 3, 1, 0; 1997 SC₂₅, 5, 1, 0; 1997 SK₂₅, 13, 3, 3; 1997 SN₂₅, 5, 1, 0; 1997 SJ₂₉, 9, 2, 6; 1997 SY₃₀, 5, 1, 0; 1997 SS₃₁, 8, 2, 5; 1997 TC, 29, 6, 12; 1997 TR, 13, 3, 12; 1997 TV, 10, 2, 7; 1997 TK₁, 8, 2, 4; 1997 TS₁₇, 10, 2, 4; 1997 TV₁₇, 5, 1, 0; 1997 TB₁₈, 5, 1, 0; 1997 TM₁₈, 5, 1, 0; 1997 TR₁₈, 10, 2, 4; 1997 TS₁₈, 20, 3, 5; 1997 TF₁₉, 5, 1, 0; 1997 TJ₂₄, 8, 2, 4; 1997 TB₂₆, 8, 2, 1; 1997 TM₂₇, 5, 1, 0; 1997 TF₂₉, 5, 1, 0; 1997 UF₃, 4, 1, 0; 1997 UN₈, 5, 1, 0; 1997 UX₈, 10, 2, 3; 1997 US₁₀, 9, 2, 8; 1997 UB₁₁, 9, 2, 8; 1997 UC₁₁, 3, 1, 0; 1997 UF₁₁, 4, 1, 0; 1997 UW₁₄, 4, 1, 0; 1997 UA₂₁, 5, 1, 0; 1997 UA₂₂, 4, 1, 0; 1997 UC₂₂, 4, 1, 0; 1997 UT₂₂, 10, 2, 1; 1997 UO₂₄, 10, 2, 1; 1997 UE₂₅, 3, 1, 0; 1997 VN₁, 4, 1, 0; 1997 VM₂, 15, 3, 7; 1997 VM₅, 11, 3, 3; 1997 WA, 4, 1, 0; 1997 WG₁, 5, 1, 0; 1997 WK₂, 5, 1, 0; 1997 WQ₁₁, 30, 3, 3; 1997 WV₁₃, 22, 5, 15; 1997 WU₂₂, 4, 1, 0; 1997 WB₃₃, 5, 1, 0; 1997 WC₃₄, 7, 2, 3; 1997 WL₄₆, 5, 1, 0; 1997 WG₅₆, 14, 3, 8; 1997 XX₁, 5, 1, 0; 1997 XY₃, 5, 1, 0; 1997 XF₁₁, 6, 2, 4; 1997 YV, 5, 1, 0; 1997 YO₁₄, 3, 1, 0; 1997 YQ₁₉, 5, 1, 0; 1998 BX₁₃, 3, 1, 0; 1998 CL, 4, 1, 0; 1998 DF₃₇, 10, 2, 26; 1998 DL₃₇, 9, 2, 28; 1998 FK₅, 5, 1, 0; 1998 FF₂₂, 3, 1, 0; 1998 FU₃₀, 10, 2, 21; 1998 FX₃₀, 5, 1, 0; 1998 FB₃₁, 13, 3, 24; 1998 FR₃₇, 13, 3, 477; 1998 FS₃₉, 8, 2, 3; 1998 FK₄₂, 8, 2, 21; 1998 FR₁₂₀, 10, 2, 21; 1998 FT₁₂₄, 5, 1, 0; 1998 FV₁₂₄, 4, 1, 0; 1998 GC₁₂, 9, 2, 9; 1998 HZ₁₈, 8, 2, 3; 1998 HO₃₀, 4, 1, 0; 1998 HY₄₀, 10, 2, 31; 1998 HH₄₃, 4, 1, 0; 1998 HN₆₇, 4, 1, 0; 1998 HG₆₈, 3, 1, 0; 1998 HK₇₀, 5, 1, 0; 1998 HN₈₀, 5, 1, 0; 1998 HE₉₂, 8, 2, 21; 1998 HP₁₀₁, 5, 1, 0; 1998 HJ₁₁₀, 15, 3, 65; 1998 HK₁₁₀, 4, 1, 0; 1998 HS₁₁₂, 14, 3, 65; 1998 HN₁₁₇, 14, 3, 37; 1998 HD₁₂₄, 5, 1, 0; 1998 HT₁₂₄, 5, 1, 0; 1998 HW₁₂₆, 5, 1, 0; 1998 HF₁₃₇, 4, 1, 0; 1998 HN₁₄₃,

13, 3, 53; 1998 HW₁₅₀, 5, 1, 0; 1998 JS, 4, 1, 0; 1998 JF₂, 4, 1, 0; 1998 KV₁, 10, 2, 9; 1998 KS₃, 5, 1, 0; 1998 KE₅, 5, 1, 0; 1998 KB₁₃, 9, 2, 10; 1998 KL₁₃, 9, 2, 10; 1998 KB₁₅, 4, 1, 0; 1998 KR₂₄, 5, 1, 0; 1998 KH₂₇, 5, 1, 0; 1998 KA₂₉, 20, 4, 115; 1998 KV₃₂, 4, 1, 0; 1998 KR₅₄, 5, 1, 0; 1998 KT₅₅, 5, 1, 0; 1998 MB₁, 4, 1, 0; 1998 MK₅, 5, 1, 0; 1998 MD₁₀, 9, 2, 8; 1998 MO₁₁, 5, 1, 0; 1998 MZ₁₁, 5, 1, 0; 1998 MD₁₃, 5, 1, 0; 1998 MG₁₆, 5, 1, 0; 1998 MT₂₅, 5, 1, 0; 1998 MK₂₆, 5, 1, 0; 1998 MH₂₇, 4, 1, 0; 1998 MV₂₇, 5, 1, 0; 1998 MH₂₉, 4, 1, 0; 1998 MC₃₁, 4, 1, 0; 1998 MJ₃₂, 5, 1, 0; 1998 MN₃₅, 3, 1, 0; 1998 MF₃₇, 5, 1, 0; 1998 MM₃₇, 5, 1, 0; 1998 MF₃₇, 9, 2, 6; 1998 MV₄₂, 10, 2, 5; 1998 ME₄₆, 5, 1, 0; 1998 NA, 20, 3, 5; 1998 NH, 5, 1, 0; 1998 NT, 5, 1, 0; 1998 OK, 5, 1, 0; 1998 OW, 3, 1, 0; 1998 OD₁, 5, 1, 0; 1998 OF₄, 17, 4, 9; 1998 OY₄, 5, 1, 0; 1998 OZ₆, 5, 1, 0; 1998 OA₈, 4, 1, 0; 1998 OJ₈, 5, 1, 0; 1998 OL₈, 3, 1, 0; 1998 OP₈, 3, 1, 0; 1998 OS₈, 17, 4, 11; 1998 OL₁₁, 5, 1, 0; 1998 ON₁₁, 4, 1, 0; 1998 OZ₁₁, 9, 2, 5; 1998 OA₁₂, 5, 1, 0; 1998 OR₁₂, 4, 1, 0; 1998 OS₁₂, 3, 1, 0; 1998 OU₁₂, 10, 2, 30; 1998 OV₁₂, 4, 1, 0; 1998 OA₁₃, 24, 4, 6; 1998 OD₁₃, 4, 1, 0; 1998 ON₁₃, 5, 1, 0; 1998 OV₁₃, 13, 3, 5; 1998 OC₁₄, 4, 1, 0; 1998 OM₁₄, 29, 5, 9; 1998 ON₁₄, 17, 4, 7; 1998 OT₁₄, 22, 5, 11; 1998 PU, 23, 5, 11; 1998 PV, 4, 1, 0; 1998 PX, 21, 5, 11; 1998 PZ, 14, 3, 38; 1998 PL₁, 8, 2, 5; 1998 QC, 10, 2, 5; 1998 QR, 3, 1, 0; 1998 QK₁, 8, 2, 5; 1998 QR₁, 3, 1, 0; 1998 QX₁, 15, 3, 5; 1998 QU₂, 5, 1, 0; 1998 QH₃, 23, 5, 15; 1998 QQ₃, 17, 4, 11; 1998 QX₃, 4, 1, 0; 1998 QE₄, 4, 1, 0; 1998 QJ₄, 5, 1, 0; 1998 QQ₅, 8, 2, 5; 1998 QS₅, 10, 2, 3; 1998 QP₆, 9, 2, 3; 1998 QV₇, 3, 1, 0; 1998 QK₈, 5, 1, 0; 1998 QQ₈, 9, 2, 4; 1998 QX₁₀, 5, 1, 0; 1998 QA₁₁, 5, 1, 0; 1998 QS₁₁, 5, 1, 0; 1998 QZ₁₁, 4, 1, 0; 1998 QC₁₂, 3, 1, 0; 1998 QG₁₂, 4, 1, 0; 1998 QT₁₃, 11, 3, 11; 1998 QZ₁₃, 5, 1, 0; 1998 QB₁₄, 9, 2, 8; 1998 QJ₁₆, 5, 1, 0; 1998 QT₁₆, 5, 1, 0; 1998 QC₁₇, 5, 1, 0; 1998 QE₁₇, 14, 3, 11; 1998 QR₁₇, 4, 1, 0; 1998 QB₁₉, 4, 1, 0; 1998 QK₁₉, 4, 1, 0; 1998 QO₁₉, 5, 1, 0; 1998 QY₁₉, 15, 3, 5; 1998 QS₂₀, 12, 3, 11; 1998 QW₂₀, 5, 1, 0; 1998 QD₂₁, 4, 1, 0; 1998 QX₂₁, 3, 1, 0; 1998 QQ₂₂, 10, 2, 5; 1998 QS₂₂, 4, 1, 0; 1998 QW₂₂, 5, 1, 0; 1998 QA₂₃, 5, 1, 0; 1998 QE₂₃, 20, 4, 13; 1998 QT₂₃, 12, 2, 4; 1998 QW₂₃, 13, 3, 8; 1998 QB₂₄, 4, 1, 0; 1998 QV₂₄, 9, 2, 4, 11; 1998 QS₂₅, 4, 1, 0; 1998 QZ₂₅, 23, 4, 3; 1998 QM₂₆, 10, 3, 21; 1998 QJ₂₈, 5, 1, 0; 1998 QE₂₉, 7, 2, 4; 1998 QK₂₉, 5, 1, 0; 1998 QT₃₁, 3, 1, 0; 1998 QW₃₁, 31, 7, 11; 1998 QD₃₂, 5, 1, 0; 1998 QE₃₂, 10, 2, 6; 1998 QW₃₂, 5, 1, 0; 1998 QJ₃₃, 10, 2, 2; 1998 QB₃₅, 4, 1, 0; 1998 QE₃₅, 13, 3, 11; 1998 QQ₃₅, 18, 4, 98; 1998 QS₃₅, 10, 2, 6; 1998 QO₃₆, 4, 1, 0; 1998 QP₃₇, 4, 1, 0; 1998 QS₃₇, 18, 4, 11; 1998 QT₃₇, 5, 1, 0; 1998 QY₃₇, 20, 4, 6; 1998 QD₃₈, 5, 1, 0; 1998 QL₃₈, 19, 4, 11; 1998 QP₃₈, 28, 6, 11; 1998 QY₃₈, 25, 5, 11; 1998 QC₃₉, 4, 1, 0; 1998 QX₃₉, 18, 4, 11; 1998 QC₄₀, 19, 4, 11; 1998 QE₄₀, 15, 3, 11; 1998 QH₄₀, 6, 2, 5; 1998 QY₄₀, 13, 3, 11; 1998 QA₄₁, 2, 1, 0; 1998 QS₄₁, 5, 1, 0; 1998 QD₄₂, 14, 3, 12; 1998 QE₄₂, 9, 2, 5; 1998 QY₄₂, 5, 1, 0; 1998 QB₄₃, 8, 2, 5; 1998 QJ₄₃, 14, 3, 6; 1998 QP₄₃, 4, 1, 0; 1998 QD₄₄, 4, 1, 0; 1998 QE₄₄, 10, 2, 8; 1998 QF₄₄, 9, 2, 5; 1998 QK₄₄, 5, 1, 0; 1998 QU₄₄, 10, 2, 5; 1998 QD₄₅, 7, 2, 5; 1998 QF₄₅, 4, 1, 0; 1998 QP₄₅, 4, 1, 0; 1998 QA₄₆, 5, 1, 0; 1998 QN₄₆, 13, 3, 5; 1998 QU₄₆, 4, 1, 0; 1998 QS₄₇, 8, 2, 6; 1998 QU₄₇, 4, 1, 0; 1998 QW₄₇, 5, 1, 0; 1998 QY₄₇, 10, 2, 8; 1998 QB₄₈, 5, 1, 0; 1998 QD₄₈, 4, 1, 0; 1998 QU₄₈, 15, 3, 5; 1998 QF₄₉, 29, 6, 11; 1998 QO₄₉, 5, 1, 0; 1998 QL₅₀, 14, 3, 7; 1998 QO₅₀, 5, 1, 0; 1998 QV₅₀, 9, 2, 30; 1998 QW₅₀, 5, 1, 0; 1998 QY₅₀, 17, 4, 11; 1998 QC₅₁, 23, 5, 13; 1998 QK₅₁, 5, 1, 0; 1998 QN₅₁, 14, 3, 11; 1998 QS₅₁, 3, 1, 0; 1998 QM₅₂, 20, 4, 11; 1998 QL₅₃, 4, 1, 0; 1998 QN₅₃, 5, 1, 0; 1998 QO₅₄, 3, 1, 0; 1998 QM₅₄, 8, 2, 4; 1998 QT₅₄, 5, 1, 0; 1998 QX₅₄, 15, 3, 2; 1998 QZ₅₄, 30, 5, 11; 1998 QA₅₅, 19, 4, 8; 1998 QD₅₅, 14, 3, 2; 1998 QH₅₅, 15, 3, 6; 1998 QT₅₅, 9, 2, 6; 1998 QV₅₅, 5, 1, 0; 1998 QA₅₆, 3, 1, 0; 1998 QC₅₆, 4, 1, 0; 1998 QL₅₇, 20, 4, 11; 1998 QX

2000 MAR. 20

M.P.C. 38997

0; 1998 RJ₂₄, 4, 1, 0; 1998 RM₂₅, 5, 1, 0; 1998 RN₂₅, 5, 1, 0; 1998 RV₂₅, 10, 2, 6; 1998 RF₂₇, 5, 1, 0; 1998 RX₂₇, 9, 2, 6; 1998 RM₂₈, 5, 1, 0; 1998 RH₃₀, 4, 1, 0; 1998 RW₃₂, 4, 1, 0; 1998 RR₃₃, 4, 1, 0; 1998 RE₃₄, 5, 1, 0; 1998 RM₃₄, 10, 2, 4; 1998 RQ₃₄, 4, 1, 0; 1998 RF₃₅, 5, 1, 0; 1998 RE₃₇, 4, 1, 0; 1998 RA₃₉, 5, 1, 0; 1998 RR₃₉, 4, 1, 0; 1998 RJ₄₀, 8, 2, 5; 1998 RQ₄₁, 5, 1, 0; 1998 RQ₄₂, 29, 6, 11; 1998 RB₄₃, 3, 1, 0; 1998 RJ₄₃, 4, 1, 0; 1998 RO₄₄, 4, 1, 0; 1998 RP₄₄, 25, 4, 5; 1998 RA₄₅, 20, 4, 11; 1998 RJ₄₆, 4, 1, 0; 1998 RA₄₇, 7, 2, 4; 1998 RR₄₇, 8, 2, 3; 1998 RS₄₈, 5, 1, 0; 1998 RV₄₈, 5, 1, 0; 1998 RJ₄₉, 10, 2, 4; 1998 RK₄₉, 10, 2, 1; 1998 RJ₅₀, 5, 1, 0; 1998 RA₅₂, 15, 3, 12; 1998 RF₅₂, 5, 1, 0; 1998 RT₅₃, 4, 1, 0; 1998 RM₅₄, 8, 2, 7; 1998 RV₅₄, 8, 2, 13; 1998 RZ₅₄, 7, 2, 4; 1998 RB₅₅, 18, 4, 14; 1998 RL₅₅, 5, 1, 0; 1998 RY₅₅, 13, 3, 11; 1998 RZ₅₅, 15, 3, 9; 1998 RF₅₆, 15, 3, 11; 1998 RJ₅₆, 25, 5, 11; 1998 RT₅₆, 5, 1, 0; 1998 RA₅₇, 19, 4, 11; 1998 RB₅₇, 18, 4, 11; 1998 RT₅₇, 5, 1, 0; 1998 RY₅₇, 5, 1, 0; 1998 RZ₅₇, 5, 1, 0; 1998 RA₅₈, 4, 1, 0; 1998 RN₅₈, 5, 1, 0; 1998 RQ₅₈, 5, 1, 0; 1998 RV₅₉, 5, 1, 0; 1998 RF₆₀, 5, 1, 0; 1998 RO₆₀, 4, 1, 0; 1998 RN₆₁, 20, 4, 38; 1998 RP₆₁, 10, 1, 0; 1998 RQ₆₁, 19, 4, 11; 1998 RU₆₁, 19, 4, 11; 1998 RD₆₂, 3, 1, 0; 1998 RL₆₂, 5, 1, 0; 1998 RZ₆₂, 13, 3, 6; 1998 RB₆₃, 17, 4, 11; 1998 RH₆₃, 13, 3, 7; 1998 RN₆₃, 5, 1, 0; 1998 RA₆₄, 25, 5, 13; 1998 RG₆₄, 15, 3, 3; 1998 RE₆₅, 4, 1, 0; 1998 RU₆₅, 13, 3, 11; 1998 RB₆₆, 4, 1, 0; 1998 RO₆₆, 5, 1, 0; 1998 RQ₆₆, 5, 1, 0; 1998 RV₆₆, 5, 1, 0; 1998 RJ₆₇, 3, 1, 0; 1998 RM₆₇, 10, 2, 4; 1998 RO₆₇, 4, 1, 0; 1998 RC₆₈, 18, 4, 38; 1998 RD₆₈, 4, 1, 0; 1998 RE₆₈, 7, 1, 0; 1998 RS₆₈, 4, 1, 0; 1998 RW₆₈, 17, 3, 58; 1998 RB₆₉, 8, 1, 0; 1998 RN₇₀, 30, 6, 563; 1998 RQ₇₀, 5, 1, 0; 1998 RW₇₀, 5, 1, 0; 1998 RB₇₁, 25, 5, 11; 1998 RD₇₁, 35, 7, 11; 1998 RK₇₁, 10, 2, 12; 1998 RL₇₁, 5, 1, 0; 1998 RP₇₁, 3, 1, 0; 1998 RY₇₁, 14, 2, 1; 1998 RA₇₂, 7, 3, 1, 0; 1998 RQ₇₂, 5, 1, 0; 1998 RX₇₂, 4, 1, 0; 1998 RY₇₂, 20, 4, 11; 1998 RH₇₃, 4, 1, 0; 1998 RS₇₃, 7, 2, 2; 1998 RW₇₃, 9, 2, 1; 1998 RY₇₃, 15, 3, 11; 1998 RZ₇₃, 4, 1, 0; 1998 RB₇₄, 20, 4, 11; 1998 RE₇₄, 3, 1, 0; 1998 RT₇₄, 17, 4, 11; 1998 RX₇₄, 19, 4, 11; 1998 RA₇₅, 19, 4, 12; 1998 RB₇₅, 18, 3, 33; 1998 RG₇₅, 10, 2, 5; 1998 RH₇₅, 4, 1, 0; 1998 RK₇₅, 5, 1, 0; 1998 RW₇₅, 5, 1, 0; 1998 RZ₇₆, 15, 3, 3; 1998 RB₇₇, 5, 1, 0; 1998 RD₇₇, 5, 1, 0; 1998 RJ₇₇, 4, 1, 0; 1998 RR₇₇, 9, 2, 4; 1998 RY₇₇, 5, 1, 0; 1998 RZ₇₇, 5, 1, 0; 1998 RF₇₈, 4, 1, 0; 1998 RL₇₈, 14, 4, 6; 1998 RM₇₈, 4, 1, 0; 1998 RP₇₈, 5, 1, 0; 1998 RT₇₈, 4, 1, 0; 1998 RV₇₈, 4, 1, 0; 1998 RA₇₉, 6, 2, 6; 1998 RK₇₉, 3, 1, 0; 1998 RM₇₉, 9, 2, 7; 1998 RX₇₉, 15, 3, 11; 1998 RL₈₀, 4, 1, 0; 1998 RO₈₀, 15, 3, 5; 1998 SG₈₀, 5, 1, 0; 1998 SK₈₀, 10, 2, 5; 1998 SL₈₀, 14, 3, 7; 1998 SF₈₀, 9, 2, 31; 1998 SN₈₀, 8, 2, 1; 1998 SS₈₀, 5, 1, 0; 1998 SC₈₁, 5, 1, 0; 1998 SR₈₁, 12, 3, 9; 1998 SM₈₁, 24, 5, 11; 1998 SC₈₁, 8, 2, 1; 1998 SH₈₁, 4, 1, 0; 1998 SH₈₁, 4, 1, 0; 1998 SK₈₁, 5, 1, 0; 1998 SH₈₁, 4, 1, 0; 1998 SO₈₁, 5, 1, 0; 1998 SG₈₁, 10, 2, 5; 1998 SX₈₁, 3, 1, 0; 1998 SX₈₁, 14, 3, 12; 1998 ST₈₁, 5, 1, 0; 1998 SH₈₁, 4, 1, 0; 1998 SU₈₁, 13, 3, 12; 1998 SX₈₁, 5, 1, 0; 1998 SQ₈₁, 20, 4, 11; 1998 SS₈₁, 17, 3, 2; 1998 SP₈₁, 4, 1, 0; 1998 SU₈₁, 19, 4, 11; 1998 SX₈₁, 5, 1, 0; 1998 SZ₈₁, 14, 3, 3; 1998 SH₈₂, 5, 1, 0; 1998 SN₈₂, 5, 1, 0; 1998 SQ₈₂, 10, 2, 5; 1998 SV₈₂, 10, 2, 4; 1998 SW₈₂, 13, 3, 11; 1998 SW₈₂, 4, 1, 0; 1998 SE₈₂, 10, 2, 3; 1998 SE₈₂, 16, 4, 13; 1998 SJ₈₂, 5, 1, 0; 1998 SM₈₂, 5, 1, 0; 1998 SQ₈₂, 15, 3, 12; 1998 SU₈₂, 5, 1, 0; 1998 SV₈₂, 5, 1, 0; 1998 SW₈

1, 3, 2; 1998 SL124, 15, 3, 11; 1998 SR124, 15, 3, 5; 1998 SK125, 18, 3, 5; 1998 SN125, 10, 2, 8; 1998 SU127, 5, 1, 0; 1998 SY128, 4, 1, 0; 1998 SB129, 5, 1, 0; 1998 SL129, 10, 2, 2; 1998 SW129, 15, 3, 8; 1998 SC130, 13, 3, 1, 11; 1998 SS130, 20, 4, 9; 1998 ST130, 3, 1, 0; 1998 SB131, 5, 1, 0; 1998 SM131, 4, 1, 0; 1998 SN131, 33, 7, 11; 1998 ST131, 5, 1, 0; 1998 SV131, 4, 1, 0; 1998 SE132, 5, 1, 0; 1998 SC132, 35, 7, 11; 1998 SJ132, 20, 4, 6; 1998 SK132, 18, 4, 11; 1998 SL132, 4, 1, 0; 1998 SS132, 10, 2, 1; 1998 ST132, 5, 1, 0; 1998 SC132, 10, 2, 5; 1998 SA133, 11, 3, 7; 1998 SG133, 5, 1, 0; 1998 SJ133, 4, 1, 0; 1998 SN133, 4, 1, 0; 1998 SS133, 14, 3, 13; 1998 SZ133, 10, 2, 5; 1998 SB134, 5, 1, 0; 1998 SE134, 5, 1, 0; 1998 SJ134, 4, 1, 0; 1998 SN134, 15, 2, 7; 1998 SN135, 10, 2, 7; 1998 ST135, 5, 1, 0; 1998 SR136, 4, 1, 0; 1998 SC138, 3, 1, 0; 1998 SN138, 14, 3, 13; 1998 SW138, 5, 1, 0; 1998 SY138, 10, 2, 5; 1998 SB139, 5, 1, 0; 1998 SC139, 5, 1, 0; 1998 SH139, 5, 1, 0; 1998 SJ139, 8, 2, 8; 1998 SO139, 4, 1, 0; 1998 SX139, 5, 1, 0; 1998 SB140, 4, 1, 0; 1998 SC140, 4, 1, 0; 1998 SE140, 9, 2, 5; 1998 SU140, 4, 1, 0; 1998 SH141, 4, 1, 0; 1998 SU141, 4, 1, 0; 1998 SV141, 15, 3, 12; 1998 SO142, 8, 2, 5; 1998 ST142, 20, 4, 11; 1998 SP143, 5, 1, 0; 1998 SU143, 4, 1, 0; 1998 SY143, 20, 4, 11; 1998 SB144, 8, 2, 3; 1998 SD144, 5, 1, 0; 1998 SE144, 4, 1, 0; 1998 SF144, 4, 1, 0; 1998 SG144, 17, 3, 2; 1998 SA145, 4, 1, 0; 1998 SM145, 5, 1, 0; 1998 SO145, 13, 2, 6; 1998 SW145, 5, 1, 0; 1998 SZ145, 5, 1, 0; 1998 SK146, 9, 2, 1; 1998 SO146, 4, 1, 0; 1998 ST146, 9, 2, 3; 1998 SE147, 10, 2, 5; 1998 SU147, 5, 1, 0; 1998 SA148, 10, 2, 1; 1998 SP156, 4, 1, 0; 1998 SS156, 5, 1, 0; 1998 SW156, 5, 1, 0; 1998 SE157, 10, 2, 3; 1998 SD159, 23, 4, 1; 1998 SS161, 3, 1, 0; 1998 SC161, 9, 2, 3; 1998 SA163, 5, 1, 0; 1998 SU163, 4, 1, 0; 1998 SC164, 19, 4, 11; 1998 SK164, 15, 3, 5; 1998 TA, 10, 2, 5; 1998 TD, 3, 1, 0; 1998 TF, 5, 1, 0; 1998 TV, 5, 1, 0; 1998 TZ, 9, 2, 10; 1998 TU, 5, 1, 0; 1998 TV, 3, 1, 0; 1998 TZ, 9, 2, 4; 1998 TC, 3, 1, 0; 1998 TP, 20, 4, 11; 1998 TX, 5, 1, 0; 1998 TV, 13, 14, 3, 488; 1998 TD, 3, 1, 0; 1998 TK, 5, 1, 0; 1998 TN, 5, 1, 0; 1998 TR, 8, 2, 4; 1998 TT, 5, 1, 0; 1998 TA, 9, 2, 3; 1998 TC, 5, 1, 0; 1998 TG, 14, 3, 12; 1998 TS, 3, 1, 0; 1998 TT, 5, 1, 0; 1998 TV, 5, 1, 0; 1998 TH, 10, 2, 8; 1998 TC, 10, 5, 1, 0; 1998 TJ, 10, 12, 13; 1998 TV, 12, 4, 1, 0; 1998 TH, 16, 5, 1, 0; 1998 TK, 16, 5, 1, 0; 1998 TR, 17, 8, 2, 5; 1998 TZ, 17, 5, 1, 0; 1998 TY, 20, 14, 3, 6; 1998 TD, 27, 5, 1, 0; 1998 TR, 28, 9, 2, 5; 1998 TH, 29, 15, 3; 1998 TG, 30, 3, 1, 0; 1998 TK, 30, 9, 2, 29; 1998 TL, 30, 14, 3, 11; 1998 TN, 30, 9, 2, 3; 1998 TP, 30, 20, 4, 12; 1998 TV, 30, 30, 6, 9; 1998 TN, 31, 4, 1, 0; 1998 TO, 31, 4, 1, 0; 1998 TZ, 31, 3, 1, 0; 1998 TA, 32, 5, 1, 0; 1998 TD, 32, 3, 1, 0; 1998 TC, 32, 3, 1, 0; 1998 TJ, 32, 3, 1, 0; 1998 TM, 32, 4, 1, 0; 1998 TS, 32, 5, 1, 0; 1998 TV, 32, 5, 1, 0; 1998 TD, 33, 8, 2, 8; 1998 TN, 33, 10, 2, 5; 1998 TD, 34, 3, 1, 0; 1998 TE, 34, 14, 3, 5; 1998 TJ, 34, 7, 2, 6; 1998 TR, 34, 5, 1, 0; 1998 UN, 4, 1, 0; 1998 UZ, 10, 2, 4; 1998 UX, 13, 3, 5; 1998 UO, 2, 4, 1, 0; 1998 UQ, 2, 17, 4, 11; 1998 UC, 9, 2, 5; 1998 UE, 4, 4, 1, 0; 1998 UL, 4, 4, 1, 0; 1998 UO, 6, 4, 1, 0; 1998 UP, 3, 1, 0; 1998 US, 17, 4, 9; 1998 UT, 6, 18, 4, 12; 1998 UB, 3, 1, 0; 1998 UJ, 4, 1, 0; 1998 UK, 7, 14, 3, 41; 1998 UW, 5, 1, 0; 1998 UX, 7, 4, 1, 0; 1998 UB, 5, 1, 0; 1998 UE, 20, 4, 11; 1998 UK, 5, 1, 0; 1998 UL, 8, 2, 3; 1998 UO, 5, 1, 0; 1998 UR, 7, 2, 2; 1998 UW, 8, 4, 1, 0; 1998 UB, 15, 3, 11; 1998 UF, 18, 4, 7; 1998 US, 13, 4, 1, 0; 1998 UF, 14, 5, 1, 0; 1998 UE, 15, 8, 2, 5; 1998 UF, 15, 4, 1, 0; 1998 UH, 15, 3, 1, 0; 1998 UJ, 15, 10, 2, 130; 1998 UM, 15, 4, 1, 0; 1998 UP, 15, 4, 1, 0; 1998 US, 15, 3, 8; 1998 UR, 15, 15, 3, 11; 1998 UW, 15, 17, 4, 37; 1998 UX, 15, 5, 1, 0; 1998 UB, 16, 3, 1, 0; 1998 UO, 16, 7, 2, 7; 1998 UE, 17, 4, 1, 0; 1998 UG, 17, 13, 3, 5; 1998 UN, 18, 19, 4, 68; 1998 UO, 18, 4, 1, 0; 1998 UP, 18, 4, 1, 0; 1998 UQ, 18, 14, 3, 88; 1998 UW, 18, 30, 6, 12; 1998 UX, 18, 20, 4, 7; 1998 UF, 19, 6, 2, 1; 1998 UR, 19, 7, 2, 8; 1998 UW, 19, 4, 1, 0; 1998 UX, 19, 22, 5, 11; 1998 UY, 19, 4, 1, 0; 1998 UZ, 19, 13, 3, 11; 1998 UM, 20, 9, 2, 6; 1998 US, 20, 4, 1, 0; 1998 UU, 20, 15, 3, 12; 1998 UP, 21, 5, 1, 0; 1998 UU, 22, 3, 1, 0; 1998 UX, 22, 4, 1, 0; 1998 UY, 22, 3, 1, 0; 1998 UB, 23, 5, 1, 0; 1998 UC, 23, 5, 1, 0; 1998 UE, 23, 14, 3, 130; 1998 UM, 23, 9, 2, 4; 1998 UO, 23, 3, 1, 0; 1998 UR, 23, 5, 1, 0; 1998 UT, 2

10; 1998 VO₃₈, 8, 2, 57; 1998 VQ₃₈, 10, 2, 4; 1998 VS₃₈, 5, 1, 0; 1998 VA₃₉, 5, 1, 0; 1998 VC₄₄, 12, 3, 3; 1998 VD₄₄, 5, 1, 0; 1998 VA₄₅, 4, 1, 0; 1998 VB₄₅, 4, 1, 0; 1998 VC₄₅, 4, 1, 0; 1998 VD₄₅, 4, 1, 0; 1998 VE₄₅, 3, 1, 0; 1998 VF₄₅, 4, 1, 0; 1998 VG₄₅, 3, 1, 0; 1998 VH₄₅, 3, 1, 0; 1998 VJ₄₅, 3, 1, 0; 1998 VK₄₅, 3, 1, 0; 1998 VL₄₅, 3, 1, 0; 1998 VM₄₅, 4, 1, 0; 1998 VT₄₅, 4, 1, 0; 1998 WV₄₅, 4, 1, 0; 1998 VV₄₅, 4, 1, 0; 1998 VW₄₅, 5, 1, 0; 1998 VY₄₅, 5, 1, 0; 1998 VZ₄₅, 5, 1, 0; 1998 VB₄₆, 5, 1, 0; 1998 VC₄₆, 5, 1, 0; 1998 VD₄₆, 5, 1, 0; 1998 VE₄₆, 4, 1, 0; 1998 VF₄₆, 5, 1, 0; 1998 VG₄₆, 4, 1, 0; 1998 WB₄, 1, 0; 1998 WE₁₇, 4, 12; 1998 WF₅, 5, 1, 0; 1998 WK₅, 5, 1, 0; 1998 WP₅, 5, 1, 0; 1998 WQ₅, 5, 1, 0; 1998 WD₁, 15, 3, 38; 1998 WK₁, 8, 2, 6; 1998 WM₁, 9, 2, 5; 1998 WN₁, 5, 1, 0; 1998 WO₁, 13, 3, 5; 1998 WQ₁, 15, 3, 3; 1998 WU₁, 3, 1, 0; 1998 WG₂, 5, 1, 0; 1998 WO₂, 3, 1, 0; 1998 WE₃, 14, 3, 11; 1998 WJ₃, 5, 1, 0; 1998 WK₃, 4, 1, 0; 1998 WO₃, 5, 1, 0; 1998 WU₃, 14, 3, 12; 1998 WF₄, 8, 2, 8; 1998 WH₄, 5, 1, 0; 1998 WX₄, 10, 2, 4; 1998 WE₅, 9, 2, 3; 1998 WL₅, 10, 2, 7; 1998 WN₅, 4, 1, 0; 1998 WO₅, 8, 2, 8; 1998 WW₅, 10, 2, 7; 1998 WY₅, 10, 2, 7; 1998 WC₆, 20, 4, 12; 1998 WK₆, 14, 3, 3; 1998 WE₇, 9, 2, 11; 1998 WF₇, 13, 2, 5; 1998 WG₇, 19, 4, 12; 1998 WS₇, 9, 2, 12; 1998 WC₈, 10, 2, 7; 1998 WD₈, 4, 1, 0; 1998 WE₈, 8, 2, 2; 1998 WK₉, 18, 3, 12; 1998 WO₉, 4, 1, 0; 1998 WR₉, 12, 3, 5; 1998 WS₉, 25, 4, 7; 1998 WL₁₀, 15, 3, 11; 1998 WM₁₀, 14, 3, 12; 1998 WP₁₀, 5, 1, 0; 1998 WW₁₀, 25, 4, 7; 1998 WA₁₁, 5, 1, 0; 1998 WF₁₁, 24, 5, 12; 1998 WP₁₁, 5, 1, 0; 1998 WD₁₂, 14, 3, 3; 1998 WE₁₂, 15, 3, 13; 1998 WG₁₂, 4, 1, 0; 1998 WH₁₂, 4, 1, 0; 1998 WO₁₂, 8, 2, 26; 1998 WP₁₂, 7, 2, 7; 1998 WA₁₃, 9, 2, 26; 1998 WF₁₃, 5, 1, 0; 1998 WJ₁₃, 19, 4, 105; 1998 WY₁₃, 17, 4, 12; 1998 WH₁₄, 4, 1, 0; 1998 WM₁₄, 10, 2, 8; 1998 WP₁₄, 4, 1, 0; 1998 WQ₁₄, 4, 1, 0; 1998 WS₁₄, 5, 1, 0; 1998 WD₁₅, 21, 5, 6; 1998 WP₁₅, 5, 1, 0; 1998 WY₁₅, 4, 1, 0; 1998 WB₁₆, 4, 1, 0; 1998 WQ₁₆, 18, 3, 5; 1998 WS₁₆, 13, 3, 13; 1998 WT₁₆, 7, 2, 4; 1998 WZ₁₆, 20, 4, 7; 1998 WA₁₇, 28, 5, 11; 1998 WG₁₇, 14, 3, 5; 1998 WK₁₇, 5, 1, 0; 1998 WM₁₇, 9, 2, 26; 1998 WZ₁₇, 5, 1, 0; 1998 WA₁₈, 5, 1, 0; 1998 WJ₁₈, 7, 2, 4; 1998 WK₁₈, 4, 1, 0; 1998 WY₁₈, 13, 3, 8; 1998 WD₁₉, 9, 2, 26; 1998 WJ₁₉, 15, 3, 11; 1998 WY₁₉, 14, 3, 488; 1998 WA₂₀, 15, 3, 37; 1998 WD₂₀, 14, 3, 26; 1998 WN₂₀, 3, 1, 0; 1998 WR₂₀, 3, 1, 0; 1998 WT₂₀, 3, 1, 0; 1998 WC₂₁, 4, 1, 0; 1998 WZ₂₁, 19, 4, 11; 1998 WB₂₂, 4, 1, 0; 1998 WH₂₂, 9, 2, 33; 1998 WJ₂₂, 5, 1, 0; 1998 WX₂₂, 4, 1, 0; 1998 WL₂₃, 39, 8, 28; 1998 WF₂₄, 5, 1, 0; 1998 WU₃₀, 9, 2, 8; 1998 WY₃₀, 15, 2, 7; 1998 WZ₃₀, 4, 1, 0; 1998 WE₃₁, 5, 1, 0; 1998 WA₃₂, 20, 4, 11; 1998 WK₃₂, 14, 3, 3; 1998 WW₃₂, 4, 1, 0; 1998 WX₃₂, 4, 1, 0; 1998 WY₃₂, 5, 1, 0; 1998 WZ₃₂, 5, 1, 0; 1998 WA₃₃, 5, 1, 0; 1998 WB₃₃, 5, 1, 0; 1998 WC₃₃, 5, 1, 0; 1998 WD₃₃, 4, 1, 0; 1998 WE₃₃, 4, 1, 0; 1998 WF₃₃, 5, 1, 0; 1998 WG₃₃, 4, 1, 0; 1998 WH₃₃, 4, 1, 0; 1998 WJ₃₃, 5, 1, 0; 1998 WK₃₃, 5, 1, 0; 1998 WL₃₃, 5, 1, 0; 1998 WM₃₃, 4, 1, 0; 1998 WN₃₃, 4, 1, 0; 1998 WO₃₃, 4, 1, 0; 1998 WP₃₃, 5, 1, 0; 1998 WQ₃₃, 4, 1, 0; 1998 WR₃₃, 5, 1, 0; 1998 WS₃₃, 4, 1, 0; 1998 WT₃₃, 4, 1, 0; 1998 WU₃₃, 5, 1, 0; 1998 WV₃₃, 4, 1, 0; 1998 WW₃₃, 4, 1, 0; 1998 WX₃₃, 5, 1, 0; 1998 WY₃₃, 5, 1, 0; 1998 WZ₃₃, 5, 1, 0; 1998 WC₃₄, 5, 1, 0; 1998 XN₅, 5, 1, 0; 1998 XH₁, 8, 2, 3; 1998 XN₁, 4, 1, 0; 1998 XP₂, 13, 3, 11; 1998 XT₂, 5, 1, 0; 1998 XA₃, 9, 2, 30; 1998 XE₃, 5, 1, 0; 1998 XR₃, 5, 1, 0; 1998 XS₃, 4, 1, 0; 1998 XU₃, 5, 1, 0; 1998 XW₃, 14, 3, 8; 1998 XS₄, 4, 1, 0; 1998 XB₅, 15, 3, 3; 1998 XL₅, 20, 4, 11; 1998 XM₅, 13, 3, 6; 1998 XZ₈, 5, 1, 0; 1998 XK₉, 14, 3, 7; 1998 XS₉, 14, 3, 8; 1998 XG₁₀, 4, 1, 0; 1998 XO₁₁, 14, 3, 443; 1998 XP₁₁, 3, 1, 0; 1998 XQ₁₂, 5, 1, 0; 1998 XV₁₂, 27, 5, 8; 1998 XB₁₄, 19, 4, 11; 1998 XS₁₅, 5, 1, 0; 1998 XY₁₆, 20, 3, 3; 1998 XB₁₇, 4, 1, 0; 1998 XE₁₇, 37, 6, 11; 1998 XT₁₇, 5, 1, 0; 1998 XN₂₁, 14, 3, 3; 1998 XS₂₂, 14, 3, 6; 1998 XG₂₅, 4, 1, 0; 1998 XH₂₅, 10, 2, 7; 1998 XP₂₇, 15, 3, 12; 1998 XN₂₈, 5, 1, 0; 1998 XO₂₈, 4, 1, 0; 1998 XR₂₈, 5, 1, 0; 1998 XO₂₉, 20, 3, 77; 1998 XY₂₉, 5, 1, 0; 1998 XR₃₁, 5, 1, 0; 1998 XC₃₂, 5, 1, 0; 1998 XZ₃₂, 5, 1, 0; 1998 XA₃₃, 20, 4, 7; 1998 XS₃₃, 27, 6, 12; 1998 XL₃₅, 5, 1, 0; 1998 XR₃₅, 4, 1, 0; 1998 XM₃₆, 4, 1, 0; 1998 XJ₃₇, 5, 1, 0; 1998 XM₃₇, 5, 1, 0; 1998 XW₃₇, 5, 1, 0; 1998 XE₃₈, 5, 1, 0; 1998 XN₃₉, 4, 1, 0; 1998 XR₃₉, 5, 1, 0; 1998 XX₃₉, 8, 2, 61; 1998 XZ₄₀, 10, 2, 7; 1998 XX₄₃, 5, 1, 0; 1998 XZ₄₃, 3, 1, 0; 1998 XT₄₅, 9, 2, 3; 1998 XB₄₆, 5, 1, 0; 1998 XX₄₆, 5, 1, 0; 1998 XU₄₇, 4, 1, 0; 1998 XG₄₈, 10, 2, 7; 1998 XN₄₉, 4, 1, 0; 1998 XV₄₉, 10, 2, 2; 1998 XL₅₀, 4, 1, 0; 1998 XU₅₀, 5, 1, 0; 1998 XB₅₁, 5, 1, 0; 1998 XC₅₁, 6, 2, 1; 1998 XD₅₁, 10, 2, 5; 1998 XP₅₁, 5, 1, 0; 1998 XZ₅₁, 4, 1, 0; 1998 XX₅₂, 5, 1, 0; 1998 XY₅₃, 4, 1, 0; 1998 XD₅₅, 5, 1, 0; 1998 XZ₅₅, 5, 1, 0; 1998 XO₅₆, 5, 1, 0; 1998 XU₅₆, 5, 1, 0; 1998 XN₅₇, 10, 2, 1; 1998 XP₅₇, 5, 1, 0; 1998 XW₅₇, 4, 1, 0; 1998 XC₅₈, 4, 1, 0; 1998 XH₅₉, 9, 2, 12; 1998 XD₆₀, 5, 1, 0; 1998 XF₆₀, 8, 2, 29; 1998 XY₆₀, 8, 2, 6; 1998 XS₆₂, 4, 1, 0; 1998 XT₆₂, 8, 2, 4; 1998 XW₆₂, 5, 1, 0; 1998 XF₆₃, 4, 1, 0; 1998 XS₆₃, 4, 1, 0; 1998 XX₆₃, 8, 2, 2; 1998 XJ₆₄, 14, 3, 85; 1998 XP₆₄, 5, 1, 0; 1998 XF₆₅, 5, 1, 0; 1998 XK₆₅, 5, 1, 0; 1998 XX₆₇, 4, 1, 0; 1998 XZ₆₇, 5, 1, 0; 1998 XJ₆₉, 5, 1, 0; 1998 XP₇₀, 5, 1, 0; 1998 XZ₇₀, 5, 1, 0; 1998 XK₇₂, 10, 2, 8; 1998 XL₇₂, 4, 1, 0; 1998 XS₇₃, 10, 2, 5; 1998 XZ₇₃, 14, 3, 3; 1998 XE₇₅, 5, 1, 0; 1998 XH₇₆, 4, 1, 0; 1998 XF₇₇, 3, 1, 0; 1998 XO₇₇, 13, 3, 10; 1998 XV₇₇, 6, 2, 11; 1998 XX₇₇, 4, 1, 0; 1998 XY₇₇, 5, 1, 0; 1998 XD₇₉, 5, 1, 0; 1998 XU₈₂, 4, 1, 0; 1998 XW₈₂, 29, 6, 11; 1998 XF₈₃, 9, 2, 8; 1998 XH₈₈, 5, 1, 0; 1998 XP₉₁, 10, 2, 58; 1998 XC₉₂, 5, 1, 0; 1998 XR₉₂, 10, 2, 1; 1998 XF₉₃, 5, 1, 0; 1998 YC₁, 18, 4, 11; 1998 YH₁, 3, 1, 0; 1998 YK₁, 5, 1, 0; 1998 YL₁, 20, 4, 11; 1998 YA₃, 3, 1, 0; 1998 YF₃, 11, 3, 6; 1998 YL₃, 5, 1, 0; 1998 YM₃, 13, 3, 413; 1998 YN₃, 5, 1, 0; 1998 YD₄, 4, 1, 0; 1998 YH₄, 4, 1, 0; 1998 YS₅, 3, 1, 0; 1998 YC₆, 5, 1, 0; 1998 YS₆, 5, 1, 0; 1998 YU₆, 3, 1, 0; 1998 YB₇, 4, 1, 0; 1998 YG₇, 4, 1, 0; 1998 YM₇, 5, 1, 0; 1998 YC₈, 5, 1, 0; 1998 YR₈, 19, 4, 9; 1998 YS₈, 3, 1, 0; 1998 YT₈, 17, 4, 474; 1998 YV₈, 18, 4, 5; 1998 YB₉, 5, 1, 0; 1998 YP₉, 4, 1, 0; 1998 YD₁₀, 5, 1, 0; 1998 YE₁₀, 10, 2, 11; 1998 YV₁₁, 10, 2, 7; 1998 YW₁₁, 8, 2, 4; 1998 YM₁₂, 10, 2, 413; 1998 YP₁₂, 5, 1, 0; 1998 YE₁₄, 5, 1, 0; 1998 YU₁₄, 4, 1, 0; 1998 YV₁₆, 5, 1, 0; 1998 YY₁₇, 4, 1, 0; 1998 YN₁₈, 5, 1, 0; 1998 YW₁₈, 5, 1, 0; 1998 YT₂₀, 8, 2, 4; 1998 YO₂₄, 5, 1, 0; 1998 YU₂₇, 4,

1, 0; 1998 YX₂₈, 4, 1, 0; 1999 AA₂₀, 20, 4, 7; 1999 AQ₅, 5, 1, 0; 1999 AS₅, 5, 1, 0; 1999 AL₂, 8, 2, 4; 1999 AC₃, 4, 1, 0; 1999 AK₃, 5, 1, 0; 1999 AC₆, 5, 1, 0; 1999 AM₆, 5, 1, 0; 1999 AZ₈, 5, 1, 0; 1999 AM₉, 10, 2, 27; 1999 AP₉, 5, 1, 0; 1999 AC₁₀, 4, 1, 0; 1999 AH₂₁, 28, 6, 453; 1999 AD₂₃, 14, 3, 137; 1999 AJ₂₃, 5, 1, 0; 1999 AF₂₄, 4, 1, 0; 1999 AD₂₆, 4, 1, 0; 1999 AC₂₇, 5, 1, 0; 1999 BO₁, 5, 1, 0; 1999 BY₁, 5, 1, 0; 1999 BC₄, 4, 1, 0; 1999 BN₅, 8, 2, 3; 1999 BK₈, 3, 1, 0; 1999 BP₉, 4, 1, 0; 1999 BS₉, 5, 1, 0; 1999 BR₁₄, 9, 2, 4; 1999 BS₁₆, 4, 1, 0; 1999 BS₂₁, 10, 2, 29; 1999 BE₂₂, 9, 2, 7; 1999 BG₂₂, 5, 1, 0; 1999 BW₂₅, 5, 1, 0; 1999 BY₂₅, 5, 1, 0; 1999 BV₂₇, 5, 1, 0; 1999 CX₁, 4, 1, 0; 1999 CA₄, 4, 1, 0; 1999 CF₄, 4, 1, 0; 1999 CC₅, 4, 1, 0; 1999 CL₁₀, 7, 2, 12; 1999 CG₁₇, 3, 1, 0; 1999 CS₁₈, 4, 1, 0; 1999 CS₁₉, 5, 1, 0; 1999 CJ₃₅, 5, 1, 0; 1999 CB₄₃, 5, 1, 0; 1999 CG₆₂, 5, 1, 0; 1999 CC₆₃, 5, 1, 0; 1999 CY₈₂, 9, 2, 1; 1999 CM₁₃₆, 4, 1, 0; 1999 FY₂₇, 5, 1, 0; 1999 GJ₄, 14, 3, 12; 1999 GT₄₁, 4, 1, 0; 1999 JY₄₉, 10, 2, 27; 1999 JP₁₁₁, 8, 2, 26; 1999 LD₃₁, 10, 2, 9; 1999 LT₃₃, 5, 1, 0; 1999 NP₈, 9, 2, 27; 1999 NS₃₄, 9, 2, 18; 1999 NV₃₆, 4, 1, 0; 1999 NT₃₈, 8, 2, 131; 1999 NA₃₉, 12, 3, 559; 1999 NE₄₂, 3, 1, 0; 1999 NC₄₃, 5, 1, 0; 1999 NQ₅₉, 5, 1, 0; 1999 NG₆₁, 4, 1, 0; 1999 RE₂, 5, 1, 0; 1999 RL₃, 4, 1, 0; 1999 RX₃, 4, 1, 0; 1999 RM₁₃, 6, 1, 0; 1999 RS₂₀, 35, 1, 0; 1999 RP₂₃, 4, 1, 0; 1999 RW₂₅, 14, 3, 84; 1999 RH₂₇, 5, 1, 0; 1999 RW₂₇, 5, 1, 0; 1999 RM₂₈, 5, 1, 0; 1999 RB₃₁, 9, 2, 15; 1999 RC₃₂, 13, 3, 15; 1999 RN₃₆, 4, 1, 0; 1999 RM₄₉, 18, 4, 558; 1999 RF₅₀, 17, 4, 120; 1999 RO₆₉, 7, 2, 76; 1999 RP₇₅, 5, 1, 0; 1999 RY₉₀, 20, 3, 45; 1999 RY₁₀₁, 4, 1, 0; 1999 RR₁₀₄, 4, 1, 0; 1999 RA₁₀₅, 25, 6, 456; 1999 RU₁₁₄, 4, 1, 0; 1999 RC₁₂₃, 5, 1, 0; 1999 RL₁₃₁, 14, 3, 54; 1999 RL₁₃₃, 12, 3, 71; 1999 RK₁₄₀, 10, 2, 23; 1999 RM₁₄₄, 4, 1, 0; 1999 RX₁₅₃, 5, 1, 0; 1999 RS₁₆₀, 15, 4, 122; 1999 RW₁₆₀, 4, 1, 0; 1999 RW₁₆₂, 5, 1, 0; 1999 RF₁₆₃, 5, 1, 0; 1999 RX₁₆₄, 4, 1, 0; 1999 RK₁₆₉, 3, 1, 0; 1999 RD₁₉₁, 9, 1, 0; 1999 RH₁₉₁, 3, 1, 0; 1999 RQ₁₉₂, 5, 1, 0; 1999 RM₁₉₄, 14, 3, 115; 1999 RT₁₉₄, 8, 2, 84; 1999 RQ₁₉₅, 14, 3, 62; 1999 RS₁₉₇, 9, 2, 73; 1999 RW₁₉₇, 5, 1, 0; 1999 RC₁₉₉, 3, 1, 0; 1999 RJ₂₁₀, 15, 3, 104; 1999 RK₂₁₀, 15, 3, 63; 1999 RA₂₁₁, 5, 1, 0; 1999 RL₂₁₁, 22, 5, 168; 1999 SP₃, 1, 0; 1999 SY₅, 4, 1, 0; 1999 SK₁₀, 5, 1, 0; 1999 TU₄₄, 23, 5, 89; 1999 TV₅, 5, 1, 0; 1999 TR₉, 3, 1, 0; 1999 TX₉, 3, 1, 0; 1999 TP₁₁, 4, 1, 0; 1999 TZ₁₂, 5, 1, 0; 1999 TJ₁₈, 5, 1, 0; 1999 TY₁₈, 5, 1, 0; 1999 TL₁₉, 14, 3, 542; 1999 TS₂₁, 8, 2, 24; 1999 TX₂₄, 4, 1, 0; 1999 TK₂₅, 19, 4, 27; 1999 TS₂₅, 12, 3, 12; 1999 TW₂₆, 14, 3, 12; 1999 TJ₂₇, 20, 4, 33; 1999 TR₂₇, 23, 5, 63; 1999 TU₂₇, 4, 1, 0; 1999 TA₂₈, 15, 3, 12; 1999 TP₃₀, 8, 2, 32; 1999 UY₁, 4, 1, 0; 1999 UP₃, 5, 1, 0; 1999 UY₅, 15, 4, 44; 1999 UN₇, 8, 2, 37; 1999 UQ₁₀, 3, 1, 0; 1999 UG₁₁, 4, 1, 0; 1999 UO₁₃, 10, 2, 41; 1999 UU₁₃, 20, 4, 137; 1999 UM₂₃, 15, 3, 65; 1999 US₂₅, 8, 2, 35; 1999 UD₃₁, 9, 2, 64; 1999 UN₃₅, 5, 1, 0; 1999 UP₃₅, 8, 2, 32; 1999 UQ₃₅, 5, 1, 0; 1999 UC₃₆, 8, 2, 41; 1999 UA₃₈, 15, 3, 12; 1999 VJ₅, 5, 1, 0; 1999 VR₈, 4, 1, 0; 1999 VZ₄, 4, 1, 0; 1999 VT₁, 4, 1, 0; 1999 VW₁, 5, 1, 0; 1999 VC₂, 5, 1, 0; 1999 VO₂, 5, 1, 0; 1999 VX₂, 4, 1, 0; 1999 VY₂, 5, 1, 0; 1999 VZ₅, 4, 1, 0; 1999 VA₆, 5, 1, 0; 1999 VD₆, 4, 1, 0; 1999 VK₆, 5, 1, 0; 1999 VS₇, 5, 1, 0; 1999 VB₈, 5, 1, 0; 1999 VJ₈, 5, 1, 0; 1999 VO₈, 4, 1, 0; 1999 VT₈, 4, 1, 0; 1999 VE₉, 25, 4, 9; 1999 VR₉, 5, 1, 0; 1999 VZ₉, 5, 1, 0; 1999 VH₁₀, 5, 1, 0; 1999 VL₁₀, 5, 1, 0; 1999 VM₁₀, 5, 1, 0; 1999 VQ₁₀, 3, 1, 0; 1999 VS₁₀, 4, 1, 0; 1999 VW₁₀, 5, 1, 0; 1999 VG₁₁, 4, 1, 0; 1999 VD₁₂, 4, 1, 0; 1999 VP₁₂, 4, 1, 0; 1999 VQ₁₂, 5, 1, 0; 1999 VR₁₂, 4, 1, 0; 1999 VJ₁₂, 5, 1, 0; 1999 VJ₁₄, 4, 1, 0; 1999 VJ₁₆, 14, 3, 536; 1999 VC₁₉, 4, 1, 0; 1999 VS₁₉, 5, 1, 0; 1999 VR₂₀, 4, 1, 0; 1999 VB₂₁, 4, 1, 0; 1999 VQ₂₁, 15, 3, 11; 1999 VN₂₁, 4, 1, 0; 1999 VP₂₂, 4, 1, 0; 1999 VE₂₃, 5, 1, 0; 1999 VL₂₃, 3, 1, 0; 1999 VR₂₃, 5, 1, 0; 1999 VV₂₃, 5, 1, 0; 1999 VW₂₃, 5, 1, 0; 1999 VX₂₃, 4, 1, 0; 1999 VN₂₄,

2000 MAR. 20

M.P.C. 38999

1, 0; 1999 VZ₁₀₃, 4, 1, 0; 1999 VE₁₀₄, 10, 1, 0; 1999 VF₁₀₄, 10, 1, 0; 1999 VH₁₀₄, 10, 1, 0; 1999 VJ₁₀₄, 5, 1, 0; 1999 VK₁₀₄, 7, 2, 23; 1999 VX₁₀₄, 5, 1, 0; 1999 VY₁₀₄, 7, 1, 0; 1999 VP₁₀₆, 15, 3, 531; 1999 VW₁₀₈, 4, 1, 0; 1999 VN₁₁₃, 22, 5, 63; 1999 VO₁₁₃, 13, 3, 34; 1999 VP₁₁₆, 14, 3, 34; 1999 VQ₁₁₃, 10, 2, 35; 1999 VR₁₁₃, 14, 3, 64; 1999 VT₁₁₃, 3, 1, 0; 1999 VU₁₁₃, 5, 1, 0; 1999 VG₁₁₄, 13, 3, 93; 1999 VJ₁₁₄, 14, 3, 95; 1999 VT₁₁₄, 18, 4, 91; 1999 VZ₁₁₄, 15, 4, 95; 1999 VA₁₁₅, 12, 3, 64; 1999 VN₁₁₉, 13, 3, 12; 1999 VO₁₁₉, 19, 4, 44; 1999 VS₁₂₉, 5, 1, 0; 1999 VL₁₃₀, 4, 1, 0; 1999 VY₁₃₀, 18, 4, 62; 1999 VA₁₃₁, 8, 2, 10; 1999 VW₁₃₃, 9, 2, 10; 1999 VX₁₃₃, 10, 2, 10; 1999 VD₁₃₄, 5, 1, 0; 1999 VJ₁₃₅, 14, 4, 61; 1999 VL₁₃₅, 5, 1, 0; 1999 VY₁₃₅, 5, 1, 0; 1999 VO₁₃₅, 5, 1, 0; 1999 VR₁₃₅, 15, 3, 65; 1999 VX₁₃₅, 9, 2, 48; 1999 VB₁₃₇, 3, 1, 0; 1999 VC₁₃₇, 4, 1, 0; 1999 VJ₁₃₇, 3, 1, 0; 1999 VZ₁₃₇, 4, 1, 0; 1999 VG₁₃₉, 5, 1, 0; 1999 VQ₁₃₉, 5, 1, 0; 1999 VK₁₄₀, 10, 2, 10; 1999 VW₁₄₀, 3, 1, 0; 1999 VG₁₄₁, 8, 2, 62; 1999 VO₁₄₃, 29, 6, 139; 1999 VP₁₄₃, 10, 2, 11; 1999 VS₁₄₃, 10, 2, 11; 1999 VT₁₄₃, 15, 3, 65; 1999 VU₁₄₃, 8, 2, 10; 1999 VV₁₄₃, 5, 1, 0; 1999 VX₁₄₃, 10, 2, 10; 1999 VY₁₄₃, 10, 2, 11; 1999 VZ₁₄₃, 5, 1, 0; 1999 VA₁₄₄, 14, 3, 63; 1999 VB₁₄₄, 14, 3, 32; 1999 VD₁₄₄, 3, 1, 0; 1999 VJ₁₄₄, 20, 4, 95; 1999 VK₁₄₄, 5, 1, 0; 1999 VL₁₄₄, 5, 1, 0; 1999 VP₁₄₄, 8, 2, 35; 1999 VR₁₄₄, 9, 2, 35; 1999 VU₁₄₇, 4, 1, 0; 1999 VH₁₄₈, 5, 1, 0; 1999 VK₁₄₈, 4, 1, 0; 1999 VA₁₅₀, 5, 1, 0; 1999 VD₁₅₀, 5, 1, 0; 1999 VR₁₅₀, 8, 2, 33; 1999 VO₁₅₁, 4, 1, 0; 1999 VY₁₅₃, 18, 4, 65; 1999 VF₁₅₅, 10, 2, 1; 1999 VN₁₅₅, 9, 2, 7; 1999 VO₁₅₅, 8, 2, 7; 1999 VP₁₅₅, 9, 2, 7; 1999 VR₁₅₅, 8, 2, 7; 1999 VU₁₅₅, 8, 2, 7; 1999 VZ₁₅₅, 8, 2, 7; 1999 VA₁₅₆, 10, 2, 4; 1999 VB₁₅₆, 10, 2, 4; 1999 VC₁₅₆, 9, 2, 4; 1999 VD₁₅₆, 11, 3, 41; 1999 VE₁₅₆, 8, 2, 4; 1999 VF₁₅₆, 8, 2, 4; 1999 VG₁₅₆, 8, 2, 4; 1999 VH₁₅₆, 8, 2, 4; 1999 VJ₁₅₆, 8, 2, 4; 1999 VK₁₅₆, 9, 2, 4; 1999 VL₁₅₆, 9, 2, 4; 1999 VM₁₅₆, 9, 2, 4; 1999 VN₁₅₆, 9, 2, 4; 1999 VO₁₅₆, 8, 2, 4; 1999 VP₁₅₆, 9, 2, 4; 1999 VQ₁₅₆, 8, 2, 4; 1999 VR₁₅₆, 8, 2, 4; 1999 VS₁₅₆, 10, 2, 4; 1999 VT₁₅₆, 8, 2, 4; 1999 VU₁₅₆, 9, 2, 4; 1999 VV₁₅₆, 10, 2, 4; 1999 VW₁₅₆, 10, 2, 4; 1999 VX₁₅₆, 9, 2, 4; 1999 VY₁₅₆, 9, 2, 4; 1999 VZ₁₅₆, 9, 2, 4; 1999 VA₁₅₇, 8, 2, 4; 1999 VB₁₅₇, 10, 2, 4; 1999 VC₁₅₇, 9, 2, 4; 1999 VD₁₅₇, 7, 2, 2; 1999 VE₁₅₇, 17, 4, 53; 1999 VF₁₅₇, 7, 2, 2; 1999 VG₁₅₇, 9, 2, 2; 1999 VH₁₅₇, 7, 2, 2; 1999 VJ₁₅₇, 8, 2, 2; 1999 VK₁₅₇, 10, 2, 2; 1999 VL₁₅₇, 28, 6, 59; 1999 VM₁₅₇, 8, 2, 2; 1999 VN₁₅₇, 10, 2, 2; 1999 VO₁₅₇, 7, 2, 2; 1999 VP₁₅₇, 8, 2, 2; 1999 VQ₁₅₇, 9, 2, 2; 1999 VR₁₅₇, 8, 2, 2; 1999 VS₁₅₇, 8, 2, 2; 1999 VT₁₅₇, 9, 2, 2; 1999 VU₁₅₇, 9, 2, 2; 1999 VV₁₅₇, 10, 2, 2; 1999 VW₁₅₇, 9, 2, 2; 1999 VX₁₅₇, 9, 2, 2; 1999 VY₁₅₇, 9, 2, 2; 1999 VZ₁₅₇, 10, 2, 2; 1999 VA₁₅₈, 10, 2, 2; 1999 VB₁₅₈, 9, 2, 2; 1999 VC₁₅₈, 10, 2, 2; 1999 VD₁₅₈, 8, 2, 2; 1999 VE₁₅₈, 10, 2, 2; 1999 VF₁₅₈, 9, 2, 2; 1999 VG₁₅₈, 10, 2, 2; 1999 VH₁₅₈, 8, 2, 2; 1999 VJ₁₅₈, 8, 2, 2; 1999 VK₁₅₈, 10, 2, 2; 1999 VL₁₅₈, 10, 2, 2; 1999 VM₁₅₈, 13, 2, 2; 1999 VN₁₅₈, 9, 2, 2; 1999 VO₁₅₈, 10, 2, 2; 1999 VP₁₅₈, 8, 2, 2; 1999 VQ₁₅₈, 10, 2, 2; 1999 VR₁₅₈, 9, 2, 2; 1999 VS₁₅₈, 10, 2, 2; 1999 VT₁₅₈, 8, 2, 2; 1999 VU₁₅₈, 9, 2, 2; 1999 VV₁₅₈, 9, 2, 2; 1999 VX₁₅₈, 8, 2, 2; 1999 VY₁₅₈, 8, 2, 2; 1999 VZ₁₅₈, 8, 2, 2; 1999 VA₁₅₉, 10, 2, 2; 1999 VB₁₅₉, 8, 2, 2; 1999 VC₁₅₉, 9, 2, 2; 1999 VD₁₅₉, 8, 2, 2; 1999 VE₁₅₉, 10, 2, 2; 1999 VF₁₅₉, 8, 2, 2; 1999 VG₁₅₉, 9, 2, 2; 1999 VH₁₅₉, 10, 2, 2; 1999 VJ₁₅₉, 9, 2, 2; 1999 VK₁₅₉, 10, 2, 2; 1999 VL₁₅₉, 10, 2, 2; 1999 VM₁₅₉, 10, 2, 2; 1999 VN

2, 2; 1999 VT₁₆₃ *, 9, 2, 2; 1999 VU₁₆₃ *, 9, 2, 2; 1999 VV₁₆₃ *, 9, 2, 2; 1999 VW₁₆₃ *, 9, 2, 2; 1999 VX₁₆₃ *, 8, 2, 2; 1999 VY₁₆₃ *, 9, 2, 2; 1999 VZ₁₆₃ *, 19, 4, 35; 1999 VA₁₆₄ *, 8, 2, 2; 1999 VB₁₆₄ *, 10, 2, 2; 1999 VC₁₆₄ *, 10, 2, 2; 1999 VD₁₆₄ *, 10, 2, 2; 1999 VE₁₆₄ *, 9, 2, 2; 1999 VF₁₆₄ *, 8, 2, 2; 1999 VG₁₆₄ *, 9, 2, 2; 1999 VH₁₆₄ *, 9, 2, 2; 1999 VI₁₆₄ *, 10, 2, 2; 1999 VJ₁₆₄ *, 9, 2, 2; 1999 VK₁₆₄ *, 9, 2, 2; 1999 VL₁₆₄ *, 10, 2, 2; 1999 VM₁₆₄ *, 10, 2, 2; 1999 VN₁₆₄ *, 10, 2, 2; 1999 VO₁₆₄ *, 10, 2, 2; 1999 VP₁₆₄ *, 6, 2, 2; 1999 VQ₁₆₄ *, 9, 2, 2; 1999 VR₁₆₄ *, 10, 2, 2; 1999 VS₁₆₄ *, 10, 2, 2; 1999 VT₁₆₄ *, 10, 2, 2; 1999 VU₁₆₄ *, 10, 2, 2; 1999 VV₁₆₄ *, 10, 2, 2; 1999 VW₁₆₄ *, 10, 2, 2; 1999 VX₁₆₄ *, 10, 2, 2; 1999 VY₁₆₄ *, 9, 2, 2; 1999 VZ₁₆₄ *, 9, 2, 2; 1999 VA₁₆₅ *, 10, 2, 2; 1999 VB₁₆₅ *, 8, 2, 2; 1999 VC₁₆₅ *, 7, 2, 2; 1999 VD₁₆₅ *, 10, 2, 2; 1999 VE₁₆₅ *, 10, 2, 2; 1999 VF₁₆₅ *, 8, 2, 2; 1999 VG₁₆₅ *, 9, 2, 2; 1999 VH₁₆₅ *, 13, 2, 2; 1999 VI₁₆₅ *, 10, 2, 2; 1999 VJ₁₆₅ *, 10, 2, 2; 1999 VK₁₆₅ *, 8, 2, 2; 1999 VL₁₆₅ *, 10, 2, 2; 1999 VM₁₆₅ *, 9, 2, 2; 1999 VN₁₆₅ *, 10, 2, 2; 1999 VO₁₆₅ *, 8, 2, 2; 1999 VP₁₆₅ *, 9, 2, 2; 1999 VQ₁₆₅ *, 8, 2, 2; 1999 VR₁₆₅ *, 8, 2, 2; 1999 VS₁₆₅ *, 8, 2, 2; 1999 VT₁₆₅ *, 9, 2, 2; 1999 VU₁₆₅ *, 8, 2, 2; 1999 VV₁₆₅ *, 8, 2, 2; 1999 VX₁₆₅ *, 10, 2, 2; 1999 VY₁₆₅ *, 6, 2, 2; 1999 VZ₁₆₅ *, 8, 2, 2; 1999 VA₁₆₆ *, 6, 2, 2; 1999 VB₁₆₆ *, 9, 2, 2; 1999 VC₁₆₆ *, 7, 2, 2; 1999 VD₁₆₆ *, 9, 2, 2; 1999 VE₁₆₆ *, 7, 2, 2; 1999 VF₁₆₆ *, 6, 2, 2; 1999 VG₁₆₆ *, 7, 2, 2; 1999 VH₁₆₆ *, 7, 2, 2; 1999 VI₁₆₆ *, 9, 2, 2; 1999 VJ₁₆₆ *, 9, 2, 2; 1999 VK₁₆₆ *, 6, 2, 2; 1999 VL₁₆₆ *, 6, 2, 2; 1999 VM₁₆₆ *, 8, 2, 2; 1999 VN₁₆₆ *, 8, 2, 2; 1999 VO₁₆₆ *, 9, 2, 2; 1999 VP₁₆₆ *, 7, 2, 2; 1999 VQ₁₆₆ *, 8, 2, 2; 1999 VR₁₆₆ *, 8, 2, 2; 1999 VS₁₆₆ *, 10, 2, 2; 1999 VT₁₆₆ *, 8, 2, 2; 1999 VU₁₆₆ *, 9, 2, 2; 1999 VV₁₆₆ *, 10, 2, 2; 1999 VX₁₆₆ *, 9, 2, 2; 1999 VY₁₆₆ *, 9, 2, 2; 1999 VZ₁₆₆ *, 9, 2, 2; 1999 VA₁₆₇ *, 10, 2, 2; 1999 VB₁₆₇ *, 10, 2, 2; 1999 VC₁₆₇ *, 9, 2, 2; 1999 VD₁₆₇ *, 9, 2, 2; 1999 VE₁₆₇ *, 9, 2, 2; 1999 VF₁₆₇ *, 10, 2, 2; 1999 VG₁₆₇ *, 10, 2, 2; 1999 VH₁₆₇ *, 8, 2, 2; 1999 VI₁₆₇ *, 10, 2, 2; 1999 VJ₁₆₇ *, 9, 2, 2; 1999 VK₁₆₇ *, 9, 2, 2; 1999 VL₁₆₇ *, 10, 2, 2; 1999 VM₁₆₇ *, 10, 2, 2; 1999 VN₁₆₇ *, 17, 4, 42; 1999 VO₁₆₇ *, 10, 2, 2; 1999 VP₁₆₇ *, 9, 2, 2; 1999 VQ₁₆₇ *, 10, 2, 2; 1999 VR₁₆₇ *, 8, 2, 2; 1999 VS₁₆₇ *, 9, 2, 2; 1999 VT₁₆₇ *, 10, 2, 2; 1999 VU₁₆₇ *, 10, 2, 2; 1999 VV₁₆₇ *, 9, 2, 2; 1999 VW₁₆₇ *, 8, 2, 2; 1999 VX₁₆₇ *, 10, 2, 2; 1999 VY₁₆₇ *, 10, 2, 2; 1999 VZ₁₆₇ *, 10, 2, 2; 1999 VA₁₆₈ *, 8, 2, 2; 1999 VB₁₆₈ *, 8, 2, 2; 1999 VC₁₆₈ *, 7, 2, 2; 1999 VD₁₆₈ *, 8, 2, 2; 1999 VE₁₆₈ *, 10, 2, 2; 1999 VF₁₆₈ *, 9, 2, 2; 1999 VG₁₆₈ *, 6, 2, 2; 1999 VH₁₆₈ *, 10, 2, 2; 1999 VI₁₆₈ *, 9, 2, 2; 1999 VJ₁₆₈ *, 9, 2, 2; 1999 VK₁₆₈ *, 10, 2, 2; 1999 VL₁₆₈ *, 8, 2, 2; 1999 VM₁₆₈ *, 8, 2, 2; 1999 VN₁₆₈ *, 9, 2, 2; 1999 VO₁₆₈ *, 10, 2, 2; 1999 VP₁₆₈ *, 8, 2, 2; 1999 VQ₁₆₈ *, 10, 2, 2; 1999 VR₁₆₈ *, 10, 2, 2; 1999 VS₁₆₈ *, 10, 2, 2; 1999 VT₁₆₈ *, 9, 2, 2; 1999 VU₁₆₈ *, 9, 2, 2; 1999 VV₁₆₈ *, 9, 2, 2; 1999 VW₁₆₈ *, 10, 2, 2; 1999 VX₁₆₈ *, 10, 2, 2; 1999 VY₁₆₈ *, 10, 2, 2; 1999 VZ₁₆₈ *, 9, 2, 2; 1999 VA₁₆₉ *, 9, 2, 2; 1999 VB₁₆₉ *, 10, 2, 2; 1999 VC₁₆₉ *, 7, 2, 2; 1999 VD₁₆₉ *, 9, 2, 2; 1999 VE₁₆₉ *, 10, 2, 2; 1999 VF₁₆₉ *, 8, 2, 2; 1999 VG₁₆₉ *, 10, 2, 2; 1999 VH₁₆₉ *, 8, 2, 2; 1999 VI₁₆₉ *, 8, 2, 2; 1999 VJ₁₆₉ *, 10, 2, 2; 1999 VK₁₆₉ *, 10, 2, 2; 1999 VL₁₆₉ *, 9, 2, 2; 1999 VM₁₆₉ *, 10, 2, 2; 1999 VN₁₆₉ *, 8, 2, 2; 1999 VO₁₆₉ *, 10, 2, 2; 1999 VP₁₆₉ *, 8, 2, 2; 1999 VQ₁₆₉ *, 10, 2, 2; 1999 VR₁₆₉ *, 9, 2, 2; 1999 VS₁₆₉ *, 8, 2, 2; 1999 VT₁₆₉ *, 8, 2, 2; 1999 VU₁₆₉ *, 9, 2, 2; 1999 VV₁₆₉ *, 7, 2, 2; 1999 VW₁₆₉ *, 9, 2, 2; 1999 VX₁₆₉ *, 10, 2, 2; 1999 VY₁₆₉

37; 1999 WR₇, 4, 1, 0; 1999 WW₇, 3, 1, 0; 1999 WY₇, 5, 1, 0; 1999 WU₈, 4, 1, 0; 1999 WX₈, 5, 1, 0; 1999 WY₈, 5, 1, 0; 1999 WD₉, 4, 1, 0; 1999 WQ₉, 5, 1, 0; 1999 WR₉, 5, 1, 0; 1999 WV₉, 4, 1, 0; 1999 WX₉, 4, 1, 0; 1999 WB₁₀, 4, 1, 0; 1999 WD₁₀, 3, 1, 0; 1999 WE₁₀, 4, 1, 0; 1999 WM₁₁, 3, 1, 0; 1999 WO₁₁, 5, 1, 0; 1999 WR₁₃, 5, 1, 0; 1999 WP₁₄, 9, 1, 0; 1999 WQ₁₆, 5, 1, 0; 1999 WF₁₈, 4, 1, 0; 1999 WR₁₈, 5, 1, 0; 1999 WV₁₈, 5, 1, 0; 1999 WF₁₉, 10, 1, 0; 1999 WW₁₉, 15, 3, 48; 1999 XW, 9, 2, 2; 1999 XY, 5, 1, 0; 1999 XZ, 4, 1, 0; 1999 XA₁, 4, 1, 0; 1999 XE₁, 5, 1, 0; 1999 XF₁, 3, 1, 0; 1999 XG₁, 5, 1, 0; 1999 XK₁, 5, 1, 0; 1999 XL₁, 4, 1, 0; 1999 XZ₁, 5, 1, 0; 1999 XA₂, 4, 1, 0; 1999 XG₂, 4, 1, 0; 1999 XX₂, 18, 3, 12; 1999 XS₃, 4, 1, 0; 1999 XX₅, 4, 1, 0; 1999 XK₆, 3, 1, 0; 1999 XN₆, 19, 4, 42; 1999 XP₆, 25, 5, 88; 1999 XQ₆, 15, 3, 13; 1999 XE₇, 19, 4, 42; 1999 XJ₇, 4, 1, 0; 1999 XK₇, 5, 1, 0; 1999 XN₇, 4, 1, 0; 1999 XO₇, 5, 1, 0; 1999 XP₇, 5, 1, 0; 1999 XS₇, 5, 1, 0; 1999 XT₇, 10, 2, 14; 1999 XC₈, 3, 1, 0; 1999 XG₈, 4, 1, 0; 1999 XL₈, 4, 1, 0; 1999 XH₁₂, 5, 1, 0; 1999 XL₁₂, 4, 1, 0; 1999 XM₁₂, 5, 1, 0; 1999 XP₁₂, 3, 1, 0; 1999 XT₁₂, 5, 1, 0; 1999 XJ₁₃, 4, 1, 0; 1999 XS₁₃, 5, 1, 0; 1999 XT₁₃, 5, 1, 0; 1999 XF₁₄, 3, 1, 0; 1999 XJ₁₄, 5, 1, 0; 1999 XK₁₄, 19, 4, 10; 1999 XL₁₄, 29, 5, 12; 1999 XC₁₅, 3, 1, 0; 1999 XD₁₅, 3, 1, 0; 1999 XF₁₅, 5, 1, 0; 1999 XV₁₅, 3, 1, 0; 1999 XX₁₅, 5, 1, 0; 1999 XY₁₅, 23, 4, 6; 1999 XZ₁₅, 25, 5, 6; 1999 XB₁₆, 9, 2, 14; 1999 XD₁₆, 3, 1, 0; 1999 XU₁₆, 11, 3, 57; 1999 XS₁₇, 15, 3, 62; 1999 XY₁₇, 22, 4, 70; 1999 XN₁₈, 35, 7, 116; 1999 XM₁₉, 31, 5, 116; 1999 XB₂₀, 5, 1, 0; 1999 XV₂₁, 4, 1, 0; 1999 XW₂₁, 3, 1, 0; 1999 XX₂₁, 5, 1, 0; 1999 XZ₂₁, 3, 1, 0; 1999 XA₂₂, 4, 1, 0; 1999 XD₂₂, 30, 5, 9; 1999 XE₂₂, 9, 2, 4; 1999 XF₂₂, 3, 1, 0; 1999 XJ₂₂, 15, 2, 11; 1999 XD₂₃, 15, 3, 12; 1999 XE₂₃, 14, 3, 63; 1999 XG₂₃, 23, 5, 76; 1999 XS₂₃, 19, 4, 27; 1999 XG₂₄, 5, 1, 0; 1999 XA₂₅, 5, 1, 0; 1999 XZ₂₅, 4, 1, 0; 1999 XQ₂₆, 5, 1, 0; 1999 XY₂₆, 19, 4, 27; 1999 XG₂₇, 9, 2, 11; 1999 XY₂₇, 5, 1, 0; 1999 XA₂₈, 14, 3, 13; 1999 XH₂₉, 3, 1, 0; 1999 XS₂₉, 5, 1, 0; 1999 XF₃₀, 4, 1, 0; 1999 XM₃₀, 5, 1, 0; 1999 XT₃₀, 3, 1, 0; 1999 XK₃₁, 3, 1, 0; 1999 XP₃₁, 3, 1, 0; 1999 XT₃₁, 14, 3, 5; 1999 XU₃₁, 5, 1, 0; 1999 XX₃₁, 15, 3, 5; 1999 XY₃₁, 20, 4, 6; 1999 XA₃₂, 5, 1, 0; 1999 XB₃₂, 5, 1, 0; 1999 XC₃₂, 5, 1, 0; 1999 XD₃₂, 5, 1, 0; 1999 XM₃₂, 6, 2, 1; 1999 XT₃₂, 5, 1, 0; 1999 XU₃₂, 3, 1, 0; 1999 XV₃₂, 5, 1, 0; 1999 XW₃₂, 5, 1, 0; 1999 XX₃₂, 5, 1, 0; 1999 XZ₃₂, 10, 2, 4; 1999 XB₃₃, 5, 1, 0; 1999 XC₃₃, 5, 1, 0; 1999 XE₃₃, 5, 1, 0; 1999 XF₃₃, 5, 1, 0; 1999 XG₃₃, 3, 1, 0; 1999 XH₃₃, 5, 1, 0; 1999 XJ₃₃, 5, 1, 0; 1999 XK₃₃, 7, 2, 2; 1999 XL₃₃, 15, 3, 22; 1999 XN₃₃, 5, 1, 0; 1999 XO₃₃, 3, 1, 0; 1999 XP₃₃, 5, 1, 0; 1999 XS₃₃, 5, 1, 0; 1999 XU₃₃, 20, 3, 2; 1999 XV₃₃, 4, 1, 0; 1999 XX₃₃, 10, 2, 6; 1999 XA₃₄, 10, 2, 5; 1999 XB₃₄, 10, 2, 5; 1999 XC₃₄, 30, 5, 7; 1999 XD₃₄, 10, 2, 5; 1999 XF₃₄, 5, 1, 0; 1999 XG₃₄, 9, 2, 5; 1999 XH₃₄, 10, 2, 5; 1999 XJ₃₄, 10, 2, 8; 1999 XK₃₄, 25, 5, 6; 1999 XL₃₄, 10, 2, 5; 1999 XN₃₄, 5, 1, 0; 1999 XP₃₄, 5, 1, 0; 1999 XR₃₄, 5, 1, 0; 1999 XT₃₄, 5, 1, 0; 1999 XU₃₄, 3, 1, 0; 1999 XV₃₄, 10, 2, 5; 1999 XX₃₄, 15, 3, 5; 1999 XZ₃₄, 15, 3, 12; 1999 XA₃₅, 10, 2, 5; 1999 XB₃₅, 8, 2, 8; 1999 XH₃₅, 6, 2, 2; 1999 XQ₃₅, 11, 3, 19; 1999 XW₃₅, 4, 1, 0; 1999 XE₃₆, 4, 1, 0; 1999 XC₃₇, 4, 1, 0; 1999 XD₃₇, 5, 1, 0; 1999 XE₃₇, 3, 1, 0; 1999 XF₃₇, 5, 1, 0; 1999 XH₃₇, 4, 1, 0; 1999 XJ₃₇, 4, 1, 0; 1999 XK₃₇, 14, 3, 4; 1999 XL₃₇, 5, 1, 0; 1999 XP₃₇, 3, 1, 0; 1999 XP₃₈, 9, 2, 8; 1999 XQ₃₈, 9, 2, 8; 1999 XZ₃₉, 4, 1, 0; 1999 XN₄₀, 17, 4, 41; 1999 XS₄₀, 14, 3, 13; 1999 XX₄₀, 15, 3, 12; 1999 XZ₄₁, 5, 1, 0; 1999 XN₄₂, 27, 6, 564; 1999 XJ₄₃, 5, 1, 0; 1999 XK₄₃, 4, 1, 0; 1999 XN₄₃, 9, 2, 2; 1999 XY₄₃, 12, 2, 2; 1999 XC₄₄, 14, 3, 12; 1999 XK₄₄, 4, 1, 0; 1999 XU₄₄, 5, 1, 0; 1999 XB₄₅, 13, 3, 11; 1999 XO₄₅, 15, 3, 13; 1999 XW₄₅, 9, 2, 2; 1999 XX₄₅, 5, 1, 0; 1999 XE₄₆, 14, 3, 13; 1999 XF₄₇, 13, 3, 13; 1999 XD₄₉, 8, 2, 2; 1999 XF₅₂, 12, 3, 13; 1999 XG₅₂, 10, 2, 5; 1999 XM₅₂, 4, 1, 0; 1999 XS₅₂, 12, 3, 7; 1999 XV₅₂, 8, 2, 7; 1999 XR₅₅, 16, 4, 64; 1999 XV₅₅, 15, 3, 52; 1999 XZ₅₅, 13, 3, 13; 1999 XQ₅₆, 4, 1, 0; 1999 XY₅₈, 12, 3, 62; 1999 XS₅₉, 13, 3, 55; 1999 XW₆₁, 5, 1, 0; 1999 XB₆₂, 10, 2, 2; 1999 XL₆₄, 5, 1, 0; 1999 XS₆₄, 5, 1, 0; 1999 XN₆₈, 5, 1, 0; 1999 XR₆₈, 4, 1, 0; 1999 XF₇₁, 4, 1, 0; 1999 XS₇₁, 3, 1, 0; 1999 XV₇₁, 3, 1, 0; 1999 XH₇₂, 3, 1, 0; 1999 XY₇₃, 5, 1, 0; 1999 XG₇₄, 4, 1, 0; 1999 XU₇₅, 3, 1, 0; 1999 XW₇₅, 4, 1, 0; 1999 XY₇₅, 5, 1, 0; 1999 XO₇₆, 4, 1, 0; 1999 XU₇₇, 19, 4, 115; 1999 XB₇₈, 5, 1, 0; 1999 XG₇₈, 9, 2, 2; 1999 XB₈₀, 5, 1, 0; 1999 XO₈₂, 5, 1, 0; 1999 XU₈₂, 4, 1, 0; 1999 XX₈₂, 4, 1, 0; 1999 XP₈₃, 3, 1, 0; 1999 XY₈₃, 8, 2, 59; 1999 XC₈₄, 4, 1, 0; 1999 XK₈₅, 5, 1, 0; 1999 XY₈₅, 5, 1, 0; 1999 XO₈₆, 5, 1, 0; 1999 XZ₈₆, 5, 1, 0; 1999 XO₈₇, 3, 1, 0; 1999 XA₈₈, 4, 1, 0; 1999 XJ₉₀, 5, 1, 0; 1999 XS₉₀, 9, 2, 3; 1999 XJ₉₃, 5, 1, 0; 1999 XL₉₃, 5, 1, 0; 1999 XT₉₄, 5, 1, 0; 1999 XU₉₄, 4, 1, 0; 1999 XV₉₄, 13, 3, 13; 1999 XW₉₄, 20, 4, 37; 1999 XZ₉₄, 5, 1, 0; 1999 XB₉₅, 5, 1, 0; 1999 XQ₉₅, 4, 1, 0; 1999 XE₉₆, 5, 1, 0; 1999 XF₉₆, 4, 1, 0; 1999 XJ₉₆, 27, 5, 91; 1999 XQ₉₆, 5, 1, 0; 1999 XT₉₆, 5, 1, 0; 1999 XB₉₇, 4, 1, 0; 1999 XL₉₇, 23, 6, 116; 1999 XJ₉₈, 3, 1, 0; 1999 XK₉₈, 4, 1, 0; 1999 XM₉₈, 3, 1, 0; 1999 XT₉₈, 4, 1, 0; 1999 XW₉₈, 5, 1, 0; 1999 XY₉₈, 4, 1, 0; 1999 XZ₉₈, 4, 1, 0; 1999 XC₉₉, 4, 1, 0; 1999 XJ₉₉, 8, 2, 565; 1999 XO₉₉, 8, 2, 3; 1999 XR₉₉, 5, 1, 0; 1999 XB₁₀₀, 5, 1, 0; 1999 XE₁₀₀, 5, 1, 0; 1999 XF₁₀₀, 4, 1, 0; 1999 XK₁₀₀, 3, 1, 0; 1999 XQ₁₀₀, 3, 1, 0; 1999 XT₁₀₀, 4, 1, 0; 1999 XZ₁₀₀, 3, 1, 0; 1999 XB₁₀₁, 4, 1, 0; 1999 XF₁₀₁, 4, 1, 0; 1999 XK₁₀₁, 4, 1, 0; 1999 XZ₁₀₁, 5, 1, 0; 1999 XZ₁₀₂, 4, 1, 0; 1999 XG₁₀₃, 4, 1, 0; 1999 XP₁₀₃, 10, 1, 0; 1999 XV₁₀₃, 4, 1, 0; 1999 XD₁₀₄, 5, 1, 0; 1999 XS₁₀₄, 4, 1, 0; 1999 XD₁₀₅, 4, 1, 0; 1999 XE₁₀₅, 4, 1, 0; 1999 XK₁₀₅, 3, 1, 0; 1999 XR₁₀₅, 8, 2, 4; 1999 XB₁₀₆, 5, 1, 0; 1999 XC₁₀₆, 5, 1, 0; 1999 XC₁₀₇, 3, 1, 0; 1999 XP₁₀₇, 16, 4, 33; 1999 XX₁₀₇, 19, 4, 34; 1999 XY₁₀₇, 25, 5, 48; 1999 XA₁₀₈, 16, 4, 33; 1999 XB₁₀₈, 34, 6, 78; 1999 XC₁₀₈, 24, 5, 48; 1999 XT₁₀₈, 18, 4, 35; 1999 XW₁₀₈, 29, 6, 970; 1999 XL₁₀₉, 4, 1, 0; 1999 XS₁₀₉, 5, 1, 0; 1999 XL₁₁₀, 12, 3, 23; 1999 XW₁₁₀, 5, 1, 0; 1999 XY₁₁₀, 5, 1, 0; 1999 XG₁₁₁, 3, 1, 0; 1999 XJ₁₁₁, 18, 4, 8; 1999 XD₁₁₃, 5, 1, 0; 1999 XA₁₁₅, 5, 1, 0; 1999 XH₁₁₅, 9, 2, 2; 1999 XK₁₁₅, 10, 2, 2; 1999 XO₁₁₅, 13, 3, 13; 1999 XN₁₁₆, 20, 4, 35; 1999 XA₁₁₇, 3, 1, 0; 1999 XB₁₁₇, 35, 8, 120; 1999 XD₁₁₇, 5, 1, 0; 1999 XM₁₁₇, 5, 1, 0; 1999 XY₁₁₇, 17, 4, 35; 1999 XD₁₁₈, 4, 1, 0; 1999 XJ₁₁₈,

24, 5, 63; 1999 XK₁₁₈, 19, 4, 35; 1999 XW₁₁₈, 9, 2, 25; 1999 XY₁₁₈, 5, 1, 0; 1999 XZ₁₁₈, 10, 2, 4; 1999 XE₁₁₉, 14, 3, 13; 1999 XK₁₁₉, 5, 1, 0; 1999 XP₁₁₉, 5, 1, 0; 1999 XV₁₁₉, 14, 3, 78; 1999 XX₁₁₉, 17, 4, 35; 1999 XJ₁₂₀, 5, 1, 0; 1999 XL₁₂₀, 17, 4, 41; 1999 XQ₁₂₀, 19, 4, 35; 1999 XT₁₂₀, 5, 1, 0; 1999 XZ₁₂₀, 5, 1, 0; 1999 XA₁₂₁, 15, 3, 13; 1999 XB₁₂₁, 15, 3, 13; 1999 XN₁₂₁, 13, 3, 13; 1999 XY₁₂₂, 8, 2, 52; 1999 XA₁₂₆, 13, 3, 41; 1999 XP₁₂₆, 4, 1, 0; 1999 XS₁₂₆, 23, 5, 61; 1999 XZ₁₂₆, 19, 4, 62; 1999 XJ₁₂₇, 4, 1, 0; 1999 XQ₁₂₇, 4, 1, 0; 1999 XT₁₂₇, 4, 1, 0; 1999 XU₁₂₇, 3, 1, 0; 1999 XW₁₂₇, 4, 1, 0; 1999 XH₁₂₈, 8, 2, 2; 1999 XP₁₂₈, 5, 1, 0; 1999 XZ₁₃₂, 3, 1, 0; 1999 XJ₁₃₃, 5, 1, 0; 1999 XA₁₃₄, 3, 1, 0; 1999 XB₁₃₄, 5, 1, 0; 1999 XG₁₃₄, 3, 1, 0; 1999 XM₁₃₄, 5, 1, 0; 1999 XJ₁₃₅, 4, 1, 0; 1999 XG₁₃₆, 4, 1, 0; 1999 XM₁₃₆, 3, 1, 0; 1999 XO₁₃₆, 9, 2, 8; 1999 XR₁₃₆, 16, 3, 11; 1999 XS₁₃₆, 5, 1, 0; 1999 XT₁₃₆, 4, 1, 0; 1999 XU₁₃₆, 4, 1, 0; 1999 XA₁₃₇, 5, 1, 0; 1999 XP₁₄₁, 5, 1, 0; 1999 XU₁₄₁, 3, 1, 0; 1999 XD₁₄₂, 15, 4, 60; 1999 XG₁₄₂, 3, 1, 0; 1999 XT₁₄₂, 5, 1, 0; 1999 XV₁₄₂, 4, 1, 0; 1999 XF₁₄₃, 5, 1, 0; 1999 XJ₁₄₃, 3, 1, 0; 1999 XK₁₄₃, 4, 1, 0; 1999 XL₁₄₃, 5, 1, 0; 1999 XO₁₄₃, 10, 2, 5; 1999 XE₁₄₄, 4, 1, 0; 1999 XF₁₄₄, 5, 1, 0; 1999 XH₁₄₄, 4, 1, 0; 1999 XQ₁₄₄, 5, 1, 0; 1999 XY₁₄₄, 8, 2, 2; 1999 XB₁₄₈, 13, 3, 25; 1999 XU₁₅₀, 12, 3, 24; 1999 XF₁₅₁, 24, 5, 117; 1999 XW₁₅₁, 5, 1, 0; 1999 XX₁₅₁, 5, 1, 0; 1999 XT₁₅₂, 9, 2, 32; 1999 XF₁₅₃, 5, 1, 0; 1999 XG₁₅₃, 8, 2, 2; 1999 XH₁₅₃, 8, 2, 2; 1999 XL₁₅₃, 22, 5, 62; 1999 XN₁₅₃, 4, 1, 0; 1999 XA₁₅₄, 4, 1, 0; 1999 XC₁₅₄, 8, 2, 58; 1999 XP₁₅₅, 3, 1, 0; 1999 XT₁₅₅, 3, 1, 0; 1999 XZ₁₅₆, 11, 3, 111; 1999 XJ₁₅₇, 4, 1, 0; 1999 XK₁₅₇, 4, 1, 0; 1999 XT₁₅₇, 4, 1, 0; 1999 XC₁₅₈, 5, 1, 0; 1999 XD₁₅₈, 8, 2, 110; 1999 XE₁₅₈, 15, 2, 58; 1999 XR₁₅₉, 5, 1, 0; 1999 XA₁₆₀, 15, 3, 5; 1999 XC₁₆₀, 5, 1, 0; 1999 XJ₁₆₀, 4, 1, 0; 1999 XO₁₆₁, 10, 2, 2; 1999 XP₁₆₁, 11, 3, 31; 1999 XJ₁₆₂, 3, 1, 0; 1999 XS₁₆₂, 10, 2, 31; 1999 XA₁₆₃, 5, 1, 0; 1999 XG₁₆₃, 4, 1, 0; 1999 XV₁₆₃, 4, 1, 0; 1999 XW₁₆₃, 5, 1, 0; 1999 XY₁₆₃, 16, 4, 122; 1999 XE₁₆₄, 5, 1, 0; 1999 XF₁₆₄, 5, 1, 0; 1999 XJ₁₆₄, 5, 1, 0; 1999 XL₁₆₄, 3, 1, 0; 1999 XN₁₆₄, 3, 1, 0; 1999 XO₁₆₄, 3, 1, 0; 1999 XQ₁₆₄, 4, 1, 0; 1999 XT₁₆₄, 4, 1, 0; 1999 XU₁₆₄, 5, 1, 0; 1999 XV₁₆₄, 3, 1, 0; 1999 XX₁₆₄, 14, 3, 22; 1999 XY₁₆₄, 5, 1, 0; 1999 XB₁₆₅, 9, 2, 5; 1999 XC₁₆₅, 15, 3, 6; 1999 XD₁₆₅, 25, 4, 6; 1999 XE₁₆₅, 15, 3, 6; 1999 XH₁₆₅, 16, 4, 66; 1999 XJ₁₆₅, 15, 3, 2; 1999 XK₁₆₅, 18, 4, 10; 1999 XN₁₆₅, 5, 1, 0; 1999 XO₁₆₅, 13, 3, 41; 1999 XR₁₆₅, 5, 1, 0; 1999 XT₁₆₅, 5, 1, 0; 1999 XU₁₆₅, 3, 1, 0; 1999 XY₁₆₅, 29, 6, 38; 1999 XJ₁₆₆, 4, 1, 0; 1999 XP₁₆₆, 5, 1, 0; 1999 XX₁₆₆, 10, 2, 11; 1999 XC₁₆₇, 19, 4, 88; 1999 XE₁₆₇, 10, 2, 151; 1999 XQ₁₆₇, 24, 6, 1060; 1999 XV₁₆₇, 4, 1, 0; 1999 XZ₁₆₇, 4, 1, 0; 1999 XC₁₆₈, 5, 1, 0; 1999 XJ₁₆₈, 5, 1, 0; 1999 XZ₁₆₈, 4, 1, 0; 1999 XA₁₆₉, 13, 3, 51; 1999 XF₁₆₉, 4, 1, 0; 1999 XK₁₆₉, 5, 1, 0; 1999 XM₁₆₉, 10, 2, 617; 1999 XO₁₆₉, 5, 1, 0; 1999 XR₁₆₉, 5, 1, 0; 1999 XW₁₆₉, 4, 1, 0; 1999 XF₁₇₀, 5, 1, 0; 1999 XS₁₇₀, 3, 1, 0; 1999 XR₁₇₂, 4, 1, 0; 1999 XW₁₇₂, 5, 1, 0; 1999 XY₁₇₂, 5, 1, 0; 1999 XZ₁₇₂, 5, 1, 0; 1999 XD₁₇₃, 3, 1, 0; 1999 XF₁₇₃, 5, 1, 0; 1999 XJ₁₇₃, 5, 1, 0; 1999 XR₁₇₃, 10, 2, 565; 1999 XJ₁₇₄, 4, 1, 0; 1999 XE₁₇₅, 3, 1, 0; 1999 XH₁₇₅, 4, 1, 0; 1999 XM₁₇₅, 7, 2, 1; 1999 XS₁₇₅, 12, 3, 55; 1999 XW₁₇₅, 8, 2, 28; 1999 XZ₁₇₅, 4, 1, 0; 1999 XG₁₇₆, 4, 1, 0; 1999 XH₁₇₆, 5, 1, 0; 1999 XK₁₇₆, 4, 1, 0; 1999 XL₁₇₆, 5, 1, 0; 1999 XM₁₇₆, 4, 1, 0; 1999 XV₁₇₆, 5, 1, 0; 1999 XN₁₇₆, 9, 2, 23; 1999 XS₁₇₇, 4, 1, 0; 1999 XF₁₇₈, 5, 1, 0; 1999 XC₁₇₉, 14, 3, 442; 1999 XD₁₈₀, 5, 1, 0; 1999 XK₁₈₀, 4, 1, 0; 1999 XT₁₈₀, 15, 3, 55; 1999 XG₁₈₃, 4, 1, 0; 1999 XN₁₈₃, 8, 2, 17; 1999 XT₁₈₃, 5, 1, 0; 1999 XU₁₈₃, 10, 2, 5; 1999 XH₁₈₅, 14, 3, 28; 1999 XG₁₈₈, 3, 1, 0; 1999 XK₁₈₈, 3, 1, 0; 1999 XP₁₈₈, 3, 1, 0; 1999 XQ₁₈₈, 4, 1, 0; 1999 XD₁₈₉, 5, 1, 0; 1999 XR₁₉₀, 9, 3, 51; 1999 XZ₁₉₀, 3, 1, 0; 1999 XJ₁₉₁, 4, 1, 0; 1999 XF₁₉₂, 5, 1, 0; 1999 XF₁₉₂, 3, 1, 0; 1999 XQ₁₉₃, 5, 1, 0; 1999 XT₁₉₃, 12, 3, 55; 1999 XY₁₉₄, 4, 1,

2000 MAR. 20

M.P.C. 39001

2000 AN₁₁, 8, 2, 4; 2000 AP₁₁, 14, 3, 31; 2000 AQ₁₁, 9, 2, 2; 2000 AS₁₁, 17, 4, 77; 2000 AT₁₁, 4, 1, 0; 2000 AV₁₁, 6, 2, 2; 2000 AA₁₂, 20, 4, 89; 2000 AB₁₂, 11, 3, 31;
2000 AD₁₂, 13, 3, 31; 2000 AE₁₂, 8, 2, 7; 2000 AK₁₂, 6, 2, 2; 2000 AO₁₂, 14, 3, 26; 2000 AP₁₂, 11, 3, 26; 2000 AR₁₂, 10, 3, 28; 2000 AE₁₃, 15, 3, 31; 2000 AN₁₃, 14, 3, 111; 2000 AP₁₃, 12, 3, 23; 2000 AE₁₄, 12, 3, 26; 2000 AS₁₄, 12, 3, 23; 2000 AM₁₆, 12, 3, 111; 2000 AN₁₇, 5, 1, 0; 2000 AO₁₇, 3, 1, 0; 2000 AB₁₈, 5, 1, 0; 2000 AC₁₈, 9, 2, 88; 2000 AN₁₈, 14, 3, 42; 2000 AW₁₈, 18, 4, 52; 2000 AA₁₉, 12, 3, 23; 2000 AC₁₉, 13, 3, 23; 2000 AK₁₉, 11, 3, 31; 2000 AX₂₁, 14, 3, 31; 2000 AW₂₂, 9, 2, 88; 2000 AU₂₅, 3, 1, 0; 2000 AW₂₅, 5, 1, 0; 2000 AA₂₆, 3, 1, 0; 2000 AV₂₇, 4, 1, 0; 2000 AC₂₈, 3, 1, 0; 2000 AX₃₀, 9, 2, 80; 2000 AB₃₂, 10, 2, 80; 2000 AZ₃₂, 5, 1, 0; 2000 AG₃₃, 5, 1, 0; 2000 AK₃₃, 7, 2, 1; 2000 AW₃₃, 5, 1, 0; 2000 AC₃₄, 14, 2, 80; 2000 AF₃₄, 5, 1, 0; 2000 AT₃₄, 9, 2, 80; 2000 AY₃₈, 8, 2, 22; 2000 AG₄₀, 4, 1, 0; 2000 AZ₄₀, 3, 1, 0; 2000 AA₄₁, 8, 2, 80; 2000 AL₄₂, 46, 10, 650; 2000 AU₄₂, 3, 1, 0; 2000 AW₄₂, 8, 2, 2; 2000 AY₄₂, 5, 1, 0; 2000 AD₄₃, 3, 1, 0; 2000 AG₄₃, 8, 2, 91; 2000 AK₄₃, 5, 1, 0; 2000 AQ₄₃, 5, 1, 0; 2000 AF₄₅, 10, 2, 5; 2000 AK₄₅, 18, 4, 111; 2000 AC₄₇, 5, 1, 0; 2000 AG₄₇, 4, 1, 0; 2000 AH₄₇, 3, 1, 0; 2000 AK₄₇, 18, 4, 63; 2000 AM₄₇, 3, 1, 0; 2000 AO₄₇, 5, 1, 0; 2000 AP₄₇, 5, 1, 0; 2000 AR₄₇, 4, 1, 0; 2000 AS₄₇, 10, 2, 59; 2000 AT₄₇, 17, 4, 89; 2000 AU₄₇, 5, 1, 0; 2000 AV₄₇, 10, 2, 5; 2000 AW₄₇, 13, 3, 89; 2000 AX₄₇, 17, 4, 88; 2000 AY₄₇, 9, 2, 6; 2000 AZ₄₇, 20, 4, 30; 2000 AA₄₈, 29, 6, 31; 2000 AC₄₈, 5, 1, 0; 2000 AU₄₉, 14, 4, 42; 2000 AC₅₀, 5, 1, 0; 2000 AM₅₀, 5, 1, 0; 2000 AN₅₀, 10, 2, 5; 2000 AO₅₀, 39, 5, 6; 2000 AP₅₀, 12, 3, 22; 2000 AR₅₀, 9, 2, 67; 2000 AS₅₀, 7, 2, 4; 2000 AU₅₀, 5, 1, 0; 2000 AM₅₁, 12, 3, 64; 2000 AG₅₂, 28, 6, 120; 2000 AK₅₂, 14, 3, 64; 2000 AM₅₂, 20, 4, 34; 2000 AR₅₂, 15, 3, 12; 2000 AE₅₃, 14, 3, 23; 2000 AS₅₃, 4, 1, 0; 2000 AE₅₄, 7, 2, 1; 2000 AE₅₅, 6, 2, 34; 2000 AO₅₅, 5, 1, 0; 2000 AY₅₅, 5, 1, 0; 2000 AB₅₆, 4, 1, 0; 2000 AM₅₇, 3, 1, 0; 2000 AE₅₈, 4, 1, 0; 2000 AF₅₈, 4, 1, 0; 2000 AJ₅₈, 5, 1, 0; 2000 AL₅₈, 5, 1, 0; 2000 AM₅₈, 4, 1, 0; 2000 AO₅₈, 4, 1, 0; 2000 AW₅₈, 4, 1, 0; 2000 AY₅₉, 5, 1, 0; 2000 AU₅₉, 5, 1, 0; 2000 AV₅₉, 3, 1, 0; 2000 AZ₅₉, 5, 1, 0; 2000 AJ₆₀, 5, 1, 0; 2000 AK₆₀, 5, 1, 0; 2000 AL₆₀, 5, 1, 0; 2000 AN₆₀, 8, 2, 29; 2000 AO₆₀, 4, 1, 0; 2000 AQ₆₀, 5, 1, 0; 2000 AT₆₀, 5, 1, 0; 2000 AV₆₀, 4, 1, 0; 2000 AW₆₀, 10, 2, 28; 2000 AE₆₁, 5, 1, 0; 2000 AT₆₁, 5, 1, 0; 2000 AU₆₁, 5, 1, 0; 2000 AV₆₁, 5, 1, 0; 2000 AX₆₁, 10, 2, 8; 2000 AY₆₁, 25, 2, 28; 2000 AZ₆₁, 9, 2, 31; 2000 AA₆₂, 5, 1, 0; 2000 AB₆₂, 5, 1, 0; 2000 AD₆₂, 5, 1, 0; 2000 AE₆₂, 10, 2, 4; 2000 AF₆₂, 5, 1, 0; 2000 AK₆₂, 15, 3, 22; 2000 AL₆₂, 3, 1, 0; 2000 AM₆₂, 5, 1, 0; 2000 AN₆₂, 5, 1, 0; 2000 AO₆₂, 5, 1, 0; 2000 AQ₆₂, 5, 1, 0; 2000 AS₆₂, 5, 1, 0; 2000 AY₆₂, 5, 1, 0; 2000 AZ₆₂, 5, 1, 0; 2000 AB₆₃, 7, 2, 7; 2000 AC₆₃, 7, 2, 29; 2000 AE₆₃, 3, 1, 0; 2000 AJ₆₃, 4, 1, 0; 2000 AK₆₃, 10, 2, 5; 2000 AP₆₃, 4, 1, 0; 2000 AQ₆₃, 4, 1, 0; 2000 AS₆₃, 5, 1, 0; 2000 AT₆₃, 13, 3, 22; 2000 AV₆₃, 3, 1, 0; 2000 AX₆₃, 5, 1, 0; 2000 AZ₆₃, 4, 1, 0; 2000 AA₆₄, 8, 2, 5; 2000 AB₆₄, 5, 1, 0; 2000 AC₆₄, 4, 1, 0; 2000 AD₆₄, 5, 1, 0; 2000 AE₆₄, 5, 1, 0; 2000 AF₆₄, 5, 1, 0; 2000 AG₆₄, 5, 1, 0; 2000 AJ₆₄, 15, 3, 90; 2000 AL₆₄, 5, 1, 0; 2000 AM₆₄, 5, 1, 0; 2000 AN₆₄, 5, 1, 0; 2000 AR₆₄, 3, 1, 0; 2000 AT₆₄, 5, 1, 0; 2000 AU₆₄, 19, 4, 87; 2000 AV₆₄, 13, 3, 8; 2000 AX₆₄, 13, 3, 30; 2000 AZ₆₄, 5, 1, 0; 2000 AA₆₅, 7, 2, 5; 2000 AB₆₅, 5, 1, 0; 2000 AD₆₅, 31, 6, 10; 2000 AE₆₅, 10, 2, 5; 2000 AJ₆₅, 17, 4, 6; 2000 AM₆₅, 6, 2, 5; 2000 AN₆₅, 31, 6, 10; 2000 AR₆₅, 5, 1, 0; 2000 AS₆₅, 23, 5, 34; 2000 AV₆₅, 9, 2, 6; 2000 AW₆₅, 23, 5, 484; 2000 AZ₆₅, 13, 3, 88; 2000 AA₆₆, 15, 3, 10; 2000 AC₆₆, 10, 2, 6; 2000 AD₆₆, 23, 4, 9; 2000 AE₆₆, 15, 3, 5; 2000 AG₆₆, 9, 2, 5; 2000 AL₆₆, 9, 2, 1; 2000 AP₆₆, 25, 5, 89; 2000 AQ₆₆, 29, 5, 30; 2000 AR₆₆, 19, 4, 6; 2000 AT₆₆, 15, 3, 30; 2000 AU₆₆, 9, 2, 5; 2000 AX₆₆, 13, 3, 87; 2000 AZ₆₆, 31, 7, 453; 2000 AH₆₇, 4, 1, 0; 2000 AJ₆₇, 9, 2, 4; 2000 AK₆₇, 5, 1, 0; 2000 AM₆₇, 4, 1, 0; 2000 AP₆₇, 10, 2, 5; 2000 AQ₆₇, 10, 2, 88; 2000 AT₆₇, 48, 9, 37; 2000 AU₆₇, 13, 3, 31; 2000 AX₆₇, 23, 5, 31; 2000 AE₆₈, 15, 3, 12; 2000 AB₆₈, 24, 5, 38; 2000 AC₆₈, 14, 3, 32; 2000 AD₆₈, 10, 2, 8; 2000 AE₆₈, 30, 5, 12; 2000 AM₆₈, 4, 1, 0; 2000 AC₆₉, 14, 3, 23; 2000 AQ₆₉, 34, 7, 126; 2000 AR₆₉, 14, 3, 89; 2000 AX₆₉, 22, 5, 122; 2000 AP₇₀, 5, 1, 0; 2000 AQ₇₀, 19, 4, 120; 2000 AS₇₀, 5, 1, 0; 2000 AA₇₁, 4, 1, 0; 2000 AS₇₁, 14, 3, 89; 2000 AW₇₁, 15, 3, 25; 2000 AG₇₄, 8, 2, 8; 2000 AL₇₅, 8, 2, 8; 2000 AN₇₅, 10, 2, 8; 2000 AV₇₅, 7, 2, 87; 2000 AA₇₆, 11, 3, 50; 2000 AG₇₆, 4, 1, 0; 2000 AO₇₆, 5, 1, 0; 2000 AM₇₇, 4, 1, 0; 2000 AY₇₈, 9, 2, 90; 2000 AK₇₉, 5, 1, 0; 2000 AH₈₀, 4, 1, 0; 2000 AC₈₁, 4, 1, 0; 2000 AH₈₁, 12, 3, 91; 2000 AN₈₁, 4, 1, 0; 2000 AG₈₃, 21, 5, 89; 2000 AW₈₃, 4, 1, 0; 2000 AM₈₄, 5, 1, 0; 2000 AP₈₄, 5, 1, 0; 2000 AQ₈₄, 7, 2, 58; 2000 AV₈₄, 5, 1, 0; 2000 AC₈₅, 7, 2, 1; 2000 AT₈₅, 8, 2, 81; 2000 AX₈₅, 3, 1, 0; 2000 AW₈₆, 5, 1, 0; 2000 AV₈₇, 4, 1, 0; 2000 AX₈₇, 3, 1, 0; 2000 AS₈₈, 5, 1, 0; 2000 AY₈₈, 13, 3, 58; 2000 AA₈₉, 4, 1, 0; 2000 AK₈₉, 13, 3, 52; 2000 AM₈₉, 4, 1, 0; 2000 AN₈₉, 5, 1, 0; 2000 AO₈₉, 5, 1, 0; 2000 AR₈₉, 3, 1, 0; 2000 AZ₈₉, 5, 1, 0; 2000 AU₉₀, 5, 1, 0; 2000 AK₉₁, 5, 1, 0; 2000 AL₉₁, 5, 1, 0; 2000 AU₉₁, 3, 1, 0; 2000 AW₉₁, 5, 1, 0; 2000 AX₉₁, 13, 3, 30; 2000 AZ₉₁, 8, 2, 27; 2000 AB₉₂, 8, 2, 23; 2000 AC₉₂, 5, 1, 0; 2000 AE₉₂, 3, 1, 0; 2000 AG₉₂, 10, 3, 23; 2000 AH₉₂, 20, 4, 30; 2000 AJ₉₂, 25, 5, 61; 2000 AT₉₂, 22, 5, 79; 2000 AN₉₃, 51, 11, 100; 2000 AT₉₃, 5, 1, 0; 2000 AV₉₃, 4, 1, 0; 2000 AD₉₄, 10, 2, 24; 2000 AJ₉₄, 20, 4, 44; 2000 AL₉₄, 13, 3, 51; 2000 AY₉₄, 5, 1, 0; 2000 AB₉₅, 5, 1, 0; 2000 AC₉₅, 5, 1, 0; 2000 AD₉₅, 15, 3, 90; 2000 AE₉₅, 8, 2, 5; 2000 AG₉₅, 9, 2, 6; 2000 AK₉₅, 34, 7, 11; 2000 AM₉₅, 15, 3, 88; 2000 AO₉₅, 18, 3, 7; 2000 AP₉₅, 9, 2, 5; 2000 AQ₉₅, 17, 4, 91; 2000 AR₉₅, 25, 5, 6; 2000 AS₉₅, 10, 2, 5; 2000 AT₉₅, 10, 2, 6; 2000 AU₉₅, 8, 2, 89; 2000 AV₉₅, 10, 2, 5; 2000 AW₉₅, 29, 6, 11; 2000 AX₉₅, 10, 2, 5; 2000 AY₉₅, 10, 2, 5; 2000 AZ₉₅, 11, 3, 5; 2000 AA₉₆, 30, 6, 11; 2000 AB₉₆, 20, 4, 30; 2000 AD₉₆, 25, 5, 30; 2000 AF₉₆, 14, 3, 13; 2000 AG₉₆, 5, 1, 0; 2000 AK₉₆, 20, 4, 98; 2000 AM₉₆, 15, 3, 12; 2000 AN₉₆, 15, 3, 12; 2000 AO₉₆, 20, 4, 11; 2000 AP₉₆, 15, 3, 12; 2000 AQ₉₆, 28, 6, 97; 2000 AR₉₆, 19, 4, 11; 2000 AS₉₆, 20, 4, 12; 2000 AT₉₆, 15, 3, 12; 2000 AW₉₆, 22, 3, 10; 2000 AY₉₆, 10, 2, 8; 2000 AZ₉₆, 28, 6, 11; 2000 AA₉₇,

25, 5, 98; 2000 AB₉₇, 13, 3, 7; 2000 AC₉₇, 19, 4, 12; 2000 AD₉₇, 22, 5, 11; 2000 AE₉₇, 24, 5, 37; 2000 AF₉₇, 51, 10, 36; 2000 AG₉₇, 13, 3, 12; 2000 AH₉₇, 9, 2, 5; 2000 AJ₉₇, 10, 2, 7; 2000 AK₉₇, 20, 4, 13; 2000 AM₉₇, 21, 5, 15; 2000 AN₉₇, 20, 4, 8; 2000 AO₉₇, 20, 4, 37; 2000 AQ₉₇, 8, 2, 5; 2000 AR₉₇, 19, 4, 13; 2000 AS₉₇, 15, 3, 38; 2000 AT₉₇, 15, 3, 8; 2000 AU₉₇, 14, 3, 11; 2000 AV₉₇, 20, 4, 12; 2000 AW₉₇, 14, 3, 11; 2000 AX₉₇, 7, 2, 5; 2000 AY₉₇, 15, 3, 6; 2000 AZ₉₇, 20, 4, 12; 2000 AB₉₈, 10, 2, 8; 2000 AC₉₈, 18, 4, 12; 2000 AD₉₈, 15, 3, 12; 2000 AE₉₈, 18, 4, 37; 2000 AF₉₈, 8, 2, 5; 2000 AG₉₈, 15, 3, 12; 2000 AH₉₈, 19, 4, 37; 2000 AK₉₈, 14, 3, 37; 2000 AL₉₈, 14, 3, 37; 2000 AN₉₈, 15, 3, 12; 2000 AJ₁₀₀, 19, 4, 121; 2000 AO₁₀₀, 10, 2, 30; 2000 AB₁₀₁, 14, 3, 39; 2000 AP₁₀₁, 25, 5, 65; 2000 AE₁₀₂, 20, 4, 55; 2000 AO₁₀₂, 19, 4, 55; 2000 AF₁₀₄, 22, 5, 126; 2000 AM₁₀₅, 14, 3, 90; 2000 AA₁₀₆, 4, 1, 0; 2000 AN₁₀₇, 17, 4, 141; 2000 AP₁₀₇, 4, 1, 0; 2000 AA₁₀₉, 4, 1, 0; 2000 AY₁₁₀, 8, 2, 50; 2000 AX₁₁₁, 3, 1, 0; 2000 AA₁₁₂, 17, 4, 89; 2000 AJ₁₁₂, 8, 2, 81; 2000 AU₁₁₂, 5, 1, 0; 2000 AB₁₁₃, 4, 1, 0; 2000 AC₁₁₃, 5, 1, 0; 2000 AR₁₁₃, 9, 2, 81; 2000 AT₁₁₃, 10, 2, 8; 2000 AW₁₁₃, 13, 3, 58; 2000 AM₁₁₄, 4, 1, 0; 2000 AW₁₁₄, 4, 1, 0; 2000 AD₁₁₅, 5, 1, 0; 2000 AP₁₁₅, 19, 4, 90; 2000 AU₁₁₅, 10, 2, 50; 2000 AC₁₁₆, 3, 1, 0; 2000 AH₁₁₆, 9, 2, 81; 2000 AO₁₁₆, 4, 1, 0; 2000 AP₁₁₆, 10, 2, 81; 2000 AX₁₁₆, 12, 3, 22; 2000 AZ₁₁₆, 5, 1, 0; 2000 AA₁₁₇, 10, 2, 4; 2000 AF₁₁₇, 4, 1, 0; 2000 AJ₁₁₇, 3, 1, 0; 2000 AQ₁₁₇, 5, 1, 0; 2000 AY₁₁₇, 5, 1, 0; 2000 AG₁₁₈, 3, 1, 0; 2000 AH₁₁₈, 10, 2, 8; 2000 AZ₁₁₈, 5, 1, 0; 2000 AG₁₁₉, 5, 1, 0; 2000 AK₁₁₉, 7, 2, 22; 2000 AN₁₁₉, 4, 1, 0; 2000 AU₁₁₉, 4, 1, 0; 2000 AX₁₁₉, 9, 2, 4; 2000 AG₁₂₀, 5, 1, 0; 2000 AM₁₂₀, 5, 1, 0; 2000 AR₁₂₀, 17, 4, 90; 2000 AS₁₂₀, 10, 2, 90; 2000 AV₁₂₀, 5, 1, 0; 2000 AZ₁₂₀, 10, 2, 22; 2000 AB₁₂₁, 5, 1, 0; 2000 AC₁₂₁, 3, 1, 0; 2000 AF₁₂₁, 3, 1, 0; 2000 AH₁₂₁, 9, 2, 22; 2000 AK₁₂₂, 3, 1, 0; 2000 AO₁₂₃, 8, 2, 5; 2000 AP₁₂₃, 5, 1, 0; 2000 AQ₁₂₃, 9, 2, 91; 2000 AR₁₂₃, 9, 2, 89; 2000 AT₁₂₃, 5, 1, 0; 2000 AV₁₂₃, 5, 1, 0; 2000 AW₁₂₃, 5, 1, 0; 2000 AX₁₂₃, 5, 1, 0; 2000 AZ₁₂₃, 5, 1, 0; 2000 AE₁₂₄, 3, 1, 0; 2000 AF₁₂₄, 9, 2, 29; 2000 AJ₁₂₄, 5, 1, 0; 2000 AL₁₂₄, 9, 2, 27; 2000 AM₁₂₄, 5, 1, 0; 2000 AP₁₂₄, 4, 1, 0; 2000 AS₁₂₄, 5, 1, 0; 2000 AV₁₂₄, 5, 1, 0; 2000 AW₁₂₄, 5, 1, 0; 2000 AX₁₂₄, 14, 3, 92; 2000 AY₁₂₄, 4, 1, 0; 2000 AZ₁₂₄, 13, 3, 22; 2000 AB₁₂₅, 5, 1, 0; 2000 AC₁₂₅, 5, 1, 0; 2000 AE₁₂₅, 10, 2, 4; 2000 AF₁₂₅, 4, 1, 0; 2000 AJ₁₂₅, 5, 1, 0; 2000 AN₁₂₅, 5, 1, 0; 2000 AO₁₂₅, 4, 1, 0; 2000 AQ₁₂₅, 4, 1, 0; 2000 AR₁₂₅, 5, 1, 0; 2000 AS₁₂₅, 5, 1, 0; 2000 AU₁₂₅, 4, 1, 0; 2000 AW₁₂₅, 5, 1, 0; 2000 AX₁₂₅, 10, 2, 22; 2000 AY₁₂₅, 4, 1, 0; 2000 AA₁₂₆, 5, 1, 0; 2000 AD₁₂₆, 5, 1, 0; 2000 AF₁₂₆, 19, 4, 26; 2000 AG₁₂₆, 9, 2, 28; 2000 AL₁₂₆, 5, 1, 0; 2000 AM₁₂₆, 5, 1, 0; 2000 AN₁₂₆, 12, 2, 28; 2000 AP₁₂₆, 5, 1, 0; 2000 AQ₁₂₆, 5, 1, 0; 2000 AS₁₂₆, 5, 1, 0; 2000 AT₁₂₆, 19, 4, 89; 2000 AV₁₂₆, 5, 1, 0; 2000 AW₁₂₆, 10, 2, 22; 2000 AZ₁₂₆, 5, 1, 0; 2000 AA₁₂₇, 5, 1, 0; 2000 AB₁₂₇, 5, 1, 0; 2000 AC₁₂₇, 9, 2, 28; 2000 AD₁₂₇, 5, 1, 0; 2000 AE₁₂₇, 10, 2, 4; 2000 AJ₁₂₇, 4, 1, 0; 2000 AK₁₂₇, 4, 1, 0; 2000 AL₁₂₇, 5, 1, 0; 2000 AM₁₂₇, 10, 2, 4; 2000 AO₁₂₇, 20, 3, 2; 2000 AP₁₂₇, 8, 2, 89; 2000 AQ₁₂₇, 5, 1, 0; 2000 AR₁₂₇, 5, 1, 0; 2000 AS₁₂₇, 4, 1, 0; 2000 AT₁₂₇, 15, 3, 9; 2000 AW₁₂₇, 5, 2, 23; 2000 AX₁₂₇, 10, 2, 5; 2000 AY₁₂₇, 15, 3, 5; 2000 AZ₁₂₇, 6, 2, 23; 2000 AA₁₂₈, 25, 4, 6; 2000 AB₁₂₈, 9, 2, 89; 2000 AE₁₂₈, 15, 3, 9; 2000 AF₁₂₈, 10, 2, 5; 2000 AH₁₂₈, 28, 6, 30; 2000 AJ₁₂₈, 5, 1, 0; 2000 AK₁₂₈, 10, 2, 5; 2000 AM₁₂₈, 5, 1, 0; 2000 AO₁₂₈, 5, 1, 0; 2000 AP₁₂₈, 5, 1, 0; 2000 AQ₁₂₈, 10, 2, 5; 2000 AR₁₂₈, 12, 3, 23; 2000 AS₁₂₈, 15, 3, 5; 2000 AT₁₂₈, 4, 1, 0; 2000 AU₁₂₈, 14, 3, 30; 2000 AW₁₂₈, 13, 3, 6; 2000 AY₁₂₈, 5, 1, 0; 2000 AA₁₂₉, 5, 1, 0; 2000 AD₁₂₉, 5, 1, 0; 2000 AE₁₂₉, 4, 1, 0; 2000 AF₁₂₉, 8, 2, 27; 2000 AH₁₂₉, 5, 1, 0; 2000 AN₁₂₉, 11, 2, 28; 2000 AP₁₂₉, 14, 2, 29; 2000 AQ₁₂₉, 9, 2, 4; 2000 AS₁₂₉, 4, 1, 0; 2000 AU₁₂₉, 5, 1, 0; 2000 AV₁₂₉, 5, 1, 0; 2000 AW₁₂₉, 5, 1, 0; 2000 AX₁₂₉, 4, 1, 0; 2000 AY₁₂₉, 10, 3, 9; 2000 AC₁₃₀, 5, 1, 0; 2000 AD₁₃₀, 5, 1, 0; 2000 AH₁₃₀, 3, 1, 0; 2000 AM₁₃₀, 10, 2, 6; 2000 AO₁₃₀, 3, 1, 0; 2000 AQ₁₃₀, 4, 1, 0; 2000 AF₁₃₁, 5, 1, 0;

5, 1, 0; 2000 AW₁₄₄, 25, 5, 15; 2000 AY₁₄₄, 19, 4, 37; 2000 AZ₁₄₄, 4, 1, 0; 2000 AA₁₄₅, 11, 3, 12; 2000 AH₁₄₅, 8, 2, 3; 2000 AL₁₄₅, 9, 2, 29; 2000 AM₁₄₅, 3, 1, 0; 2000 AQ₁₄₅, 28, 6, 92; 2000 AX₁₄₅, 38, 8, 137; 2000 AP₁₄₆, 4, 1, 0; 2000 AW₁₄₆, 9, 2, 4; 2000 AA₁₄₇, 24, 5, 476; 2000 AH₁₄₈, 37, 6, 90; 2000 AX₁₄₈, 5, 1, 0; 2000 AZ₁₄₈, 5, 1, 0; 2000 AA₁₄₉, 5, 1, 0; 2000 AD₁₄₉, 4, 1, 0; 2000 AE₁₄₉, 8, 2, 122; 2000 AF₁₄₉, 4, 1, 0; 2000 AW₁₄₉, 4, 1, 0; 2000 AU₁₅₀, 17, 4, 564; 2000 AV₁₅₀, 5, 1, 0; 2000 AY₁₅₀, 15, 3, 5; 2000 AS₁₅₂, 3, 1, 0; 2000 AH₁₅₃, 9, 2, 2; 2000 AJ₁₅₃, 5, 1, 0; 2000 AG₁₅₄, 9, 2, 88; 2000 AQ₁₅₄, 20, 4, 34; 2000 AT₁₅₄, 19, 4, 34; 2000 AW₁₅₄, 19, 4, 34; 2000 AY₁₅₄, 17, 4, 42; 2000 AZ₁₅₄, 19, 4, 34; 2000 AD₁₅₅, 14, 3, 25; 2000 AH₁₅₅, 13, 3, 31; 2000 AY₁₅₈, 7, 2, 47; 2000 AL₁₅₉, 5, 1, 0; 2000 AS₁₅₉, 7, 2, 11; 2000 AY₁₆₀, 4, 1, 0; 2000 AN₁₆₁, 4, 1, 0; 2000 AS₁₆₁, 20, 4, 96; 2000 AT₁₆₁, 25, 5, 120; 2000 AX₁₆₁, 4, 1, 0; 2000 AG₁₆₂, 5, 1, 0; 2000 AJ₁₆₂, 10, 2, 4; 2000 AK₁₆₂, 4, 1, 0; 2000 AR₁₆₂, 14, 3, 13; 2000 AS₁₆₂, 18, 4, 11; 2000 AT₁₆₂, 5, 1, 0; 2000 AU₁₆₂, 5, 1, 0; 2000 AH₁₆₃, 14, 3, 89; 2000 AD₁₆₄, 5, 1, 0; 2000 AF₁₆₄, 15, 3, 5; 2000 AG₁₆₄, 21, 5, 92; 2000 AK₁₆₄, 19, 4, 486; 2000 AL₁₆₄, 14, 3, 88; 2000 AN₁₆₄, 22, 5, 563; 2000 AO₁₆₄, 10, 2, 2; 2000 AP₁₆₄, 7, 2, 1; 2000 AQ₁₆₄, 9, 2, 4; 2000 AE₁₆₅, 19, 4, 80; 2000 AL₁₆₅, 4, 1, 0; 2000 AN₁₆₅, 5, 1, 0; 2000 AR₁₆₅, 4, 1, 0; 2000 AD₁₆₆, 4, 1, 0; 2000 AG₁₆₇, 4, 1, 0; 2000 AM₁₆₇, 5, 1, 0; 2000 AN₁₆₇, 20, 4, 58; 2000 AO₁₆₇, 4, 1, 0; 2000 AY₁₆₇, 34, 7, 95; 2000 AA₁₆₈, 11, 3, 473; 2000 AG₁₆₈, 5, 1, 0; 2000 AN₁₆₈, 20, 4, 6; 2000 AG₁₆₉, 10, 2, 30; 2000 AY₁₆₉, 4, 1, 0; 2000 AZ₁₆₉, 5, 1, 0; 2000 AD₁₇₀, 18, 4, 120; 2000 AO₁₇₀, 5, 1, 0; 2000 AY₁₇₀, 5, 1, 0; 2000 AE₁₇₁, 15, 3, 59; 2000 AG₁₇₅, 5, 1, 0; 2000 AJ₁₇₅, 18, 4, 137; 2000 AR₁₇₇, 4, 1, 0; 2000 AH₁₈₂, 5, 1, 0; 2000 AN₁₈₂, 5, 1, 0; 2000 AY₁₈₂, 5, 1, 0; 2000 AU₁₈₃, 9, 2, 9; 2000 AD₁₈₅, 5, 1, 0; 2000 AG₁₈₅, 8, 2, 4; 2000 AJ₁₈₅, 4, 1, 0; 2000 AM₁₈₅, 13, 3, 63; 2000 AA₁₈₇, 5, 1, 0; 2000 AX₁₈₇, 8, 2, 93; 2000 AC₁₈₈, 14, 3, 93; 2000 AE₁₈₈, 18, 4, 173; 2000 AN₁₈₈, 10, 2, 65; 2000 AQ₁₈₈, 4, 1, 0; 2000 AY₁₈₉, 4, 1, 0; 2000 AM₁₉₀, 3, 1, 0; 2000 AO₁₉₀, 7, 2, 63; 2000 AG₁₉₁, 5, 1, 0; 2000 AF₁₉₂, 4, 1, 0; 2000 AQ₁₉₂, 5, 1, 0; 2000 AS₁₉₂, 5, 1, 0; 2000 AT₁₉₂, 5, 1, 0; 2000 AC₁₉₃, 4, 1, 0; 2000 AN₁₉₃, 24, 5, 95; 2000 AQ₁₉₃, 5, 1, 0; 2000 AY₁₉₃, 8, 2, 4; 2000 AZ₁₉₃, 18, 4, 92; 2000 AA₁₉₄, 5, 1, 0; 2000 AB₁₉₄, 5, 1, 0; 2000 AH₁₉₄, 5, 1, 0; 2000 AQ₁₉₄, 10, 2, 30; 2000 AU₁₉₄, 3, 1, 0; 2000 AB₁₉₅, 10, 2, 3; 2000 AD₁₉₅, 5, 1, 0; 2000 AE₁₉₅, 5, 1, 0; 2000 AL₁₉₅, 13, 3, 83; 2000 AS₁₉₅, 3, 1, 0; 2000 AU₁₉₅, 4, 1, 0; 2000 AL₁₉₆, 8, 2, 91; 2000 AM₁₉₆, 3, 1, 0; 2000 AN₁₉₆, 15, 3, 34; 2000 AP₁₉₆, 3, 1, 0; 2000 AZ₁₉₆, 3, 1, 0; 2000 AC₁₉₇, 4, 1, 0; 2000 AF₁₉₇, 28, 6, 83; 2000 AL₁₉₇, 3, 1, 0; 2000 AP₁₉₇, 3, 1, 0; 2000 AR₁₉₇, 15, 3, 83; 2000 AW₁₉₇, 3, 1, 0; 2000 AY₁₉₇, 4, 1, 0; 2000 AE₁₉₈, 5, 1, 0; 2000 AF₁₉₈, 5, 1, 0; 2000 AG₁₉₈, 5, 1, 0; 2000 AL₁₉₈, 4, 1, 0; 2000 AM₁₉₈, 8, 2, 1; 2000 AR₁₉₈, 5, 1, 0; 2000 AG₁₉₉, 18, 4, 79; 2000 AL₁₉₉, 17, 4, 79; 2000 AQ₁₉₉, 14, 3, 464; 2000 AC₂₀₀, 9, 2, 18; 2000 AS₂₀₀, 4, 1, 0; 2000 AY₂₀₀, 15, 4, 79; 2000 AM₂₀₁, 5, 1, 0; 2000 AQ₂₀₁, 14, 3, 32; 2000 AT₂₀₁, 10, 2, 28; 2000 AW₂₀₁, 14, 3, 81; 2000 AZ₂₀₁, 14, 3, 5; 2000 AA₂₀₂, 10, 2, 5; 2000 AU₂₀₂, 7, 2, 28; 2000 AV₂₀₂, 12, 3, 86; 2000 AW₂₀₂, 23, 5, 38; 2000 AZ₂₀₂, 13, 3, 15; 2000 AE₂₀₃, 17, 4, 88; 2000 AG₂₀₃, 5, 1, 0; 2000 AJ₂₀₃, 5, 1, 0; 2000 AK₂₀₃, 5, 1, 0; 2000 AR₂₀₃, 11, 3, 33; 2000 AT₂₀₃, 13, 3, 32; 2000 AV₂₀₃, 5, 1, 0; 2000 AW₂₀₃, 18, 4, 488; 2000 AY₂₀₃, 13, 3, 88; 2000 AZ₂₀₃, 4, 1, 0; 2000 AD₂₀₄, 5, 1, 0; 2000 AJ₂₀₄, 8, 2, 4; 2000 AK₂₀₄, 23, 5, 66; 2000 AN₂₀₄, 5, 1, 0; 2000 AR₂₀₄, 19, 4, 84; 2000 AC₂₀₅, 3, 1, 0; 2000 AR₂₀₅, 5, 1, 0; 2000 AK₂₀₇, 11, 2, 32; 2000 AM₂₀₇, 10, 2, 3; 2000 AN₂₀₇, 21, 5, 36; 2000 AQ₂₀₇, 20, 4, 30; 2000 AC₂₀₉, 9, 2, 60; 2000 AD₂₀₉, 4, 1, 0; 2000 AW₂₁₁, 8, 2, 7; 2000 AA₂₁₂, 8, 2, 3; 2000 AC₂₁₂, 9, 2, 7; 2000 AD₂₁₂, 13, 3, 6; 2000 AG₂₁₂, 13, 3, 5; 2000 AJ₂₁₂, 19, 5, 11; 2000 AK₂₁₂, 14, 3, 11; 2000 AM₂₁₂, 25, 5, 11; 2000 AO₂₁₂, 8, 2, 2; 2000 AO₂₁₄, 11, 3, 538; 2000 AW₂₁₅, 20, 4, 11; 2000 AZ₂₁₅, 27, 6, 38; 2000 AA₂₁₆, 15, 3, 11; 2000 AB₂₁₆, 5, 1, 0; 2000 AK₂₁₆, 11, 3, 23; 2000 AB₂₁₈, 4, 1, 0; 2000 AD₂₂₂, 13, 3, 21; 2000 AF₂₂₂, 33, 7, 28; 2000 AG₂₂₅, 4, 1, 0; 2000 AA₂₂₇, 4, 1, 0; 2000 AF₂₂₇, 44, 8, 11; 2000 AJ₂₂₇, 8, 2, 3; 2000 AK₂₂₇, 21, 5, 36; 2000 AL₂₂₇, 14, 3, 11; 2000 AN₂₂₇, 12, 3, 11; 2000 AO₂₂₇, 22, 5, 11; 2000 AQ₂₂₇, 15, 3, 11; 2000 AR₂₂₇, 14, 3, 11; 2000 AT₂₂₇, 12, 3, 11; 2000 AW₂₂₇, 18, 4, 27; 2000 AQ₂₂₈, 25, 5, 196; 2000 AS₂₂₈, 19, 4, 93; 2000 AT₂₂₈, 15, 3, 45; 2000 AA₂₂₉, 3, 1, 0; 2000 AB₂₂₉, 5, 1, 0; 2000 AP₂₃₀, 5, 1, 0; 2000 AT₂₃₀, 19, 1, 0; 2000 AC₂₃₁, 5, 1, 0; 2000 AD₂₃₁, 10, 2, 58; 2000 AC₂₃₃, 5, 1, 0; 2000 AD₂₃₃, 39, 7, 10; 2000 AG₂₃₃, 30, 5, 38; 2000 AJ₂₃₃, 24, 5, 38; 2000 AK₂₃₃, 15, 3, 12; 2000 AL₂₃₃, 4, 1, 0; 2000 AN₂₃₃, 20, 3, 12; 2000 AO₂₃₃, 14, 3, 11; 2000 AP₂₃₃, 15, 3, 11; 2000 AX₂₃₅, 5, 1, 0; 2000 AG₂₃₆, 12, 3, 92; 2000 AH₂₃₆, 16, 4, 57; 2000 AO₂₃₆, 23, 5, 90; 2000 AQ₂₃₆, 9, 2, 5; 2000 AR₂₃₆, 32, 7, 455; 2000 AS₂₃₆, 36, 8, 562; 2000 AT₂₃₆, 10, 2, 5; 2000 AU₂₃₆, 8, 2, 5; 2000 AV₂₃₆, 9, 2, 5; 2000 AZ₂₃₆, 42, 9, 484; 2000 AA₂₃₇, 9, 2, 4; 2000 AD₂₃₇, 12, 3, 35; 2000 AF₂₃₇, 20, 4, 11; 2000 AH₂₃₇, 6, 1, 0; 2000 AJ₂₃₇, 4, 1, 0; 2000 AL₂₃₇, 14, 3, 11; 2000 AN₂₃₇, 15, 3, 5; 2000 AO₂₃₇, 24, 4, 11; 2000 AP₂₃₇, 33, 7, 38; 2000 AQ₂₃₇, 17, 4, 11; 2000 AR₂₃₇, 9, 2, 5; 2000 AS₂₃₇, 10, 2, 4; 2000 AT₂₃₇, 18, 4, 32; 2000 AZ₂₃₇, 5, 1, 0; 2000 AQ₂₄₂, 14, 3, 39; 2000 AQ₂₃₈, 24, 5, 13; 2000 AR₂₃₉, 15, 3, 41; 2000 AS₂₃₉, 15, 3, 41; 2000 AV₂₃₉, 12, 3, 30; 2000 AZ₂₃₉, 32, 7, 35; 2000 AA₂₄₀, 10, 2, 9; 2000 AB₂₄₀, 4, 1, 0; 2000 AC₂₄₀, 23, 5, 66; 2000 AD₂₄₀, 15, 3, 10; 2000 AE₂₄₀, 16, 4, 68; 2000 AO₂₄₀, 26, 6, 620; 2000 AF₂₄₁, 23, 1, 0; 2000 AU₂₄₁, 9, 2, 29; 2000 AX₂₄₁, 4, 1, 0; 2000 AB₂₄₂, 4, 1, 0; 2000 AN₂₄₂, 8, 2, 7; 2000 AQ₂₄₂, 17, 4, 13; 2000 AR₂₄₂, 25, 4, 12; 2000 AS₂₄₂, 29, 5, 8; 2000 AU₂₄₂, 5, 1, 0; 2000 AY₂₄₂, 13, 3, 31; 2000 AA₂₄₃, 18, 4, 621; 2000 AC₂₄₃, 23, 5, 90; 2000 AD₂₄₃, 5, 1, 0; 2000 AE₂₄₃, 10, 2, 5; 2000 AG₂₄₃, 9, 2, 8; 2000 AH₂₄₃, 9, 2, 34; 2000 AK₂₄₃, 4, 1, 0; 2000 AO₂₄₃, 10, 2, 7; 2000 AP₂₄₃, 34, 7, 99; 2000 AV₂₄₃, 5, 1, 0; 2000 AW₂₄₃, 10, 2, 7; 2000 AX₂₄₃, 23, 5, 487; 2000 AA₂₄₄, 20, 4, 8; 2000 AX₂₄₄, 4, 1, 0; 2000 AZ₂₄₄, 30, 6, 37; 2000 AJ₂₄₅, 10, 3, 39; 2000 AK₂₄₅, 4, 1, 0; 2000 AN₂₄₅, 14, 3, 488; 2000 AO₂₄₅, 5, 1, 0; 2000 AD₂₄₆, 10, 2, 2; 2000 AJ₂₄₆, 17, 4, 63;

2000 BC, 8, 2, 6; 2000 BD, 10, 2, 12; 2000 BO, 28, 5, 8; 2000 BD₁, 5, 1, 0; 2000 BY₁, 7, 2, 3; 2000 BC₂, 15, 3, 11; 2000 BE₂, 5, 1, 0; 2000 BG₂, 20, 4, 6; 2000 BH₂, 22, 4, 26; 2000 BP₂, 13, 3, 72; 2000 BW₂, 4, 1, 0; 2000 BA₃, 5, 1, 0; 2000 BC₃, 4, 1, 0; 2000 BD₃, 14, 3, 60; 2000 BE₃, 9, 2, 5; 2000 BF₃, 15, 3, 5; 2000 BG₃, 33, 7, 64; 2000 BH₃, 9, 2, 26; 2000 BJ₃, 8, 2, 61; 2000 BK₃, 9, 2, 61; 2000 BM₃, 39, 8, 114; 2000 BN₃, 17, 4, 89; 2000 BP₃, 13, 3, 13; 2000 BQ₃, 30, 5, 13; 2000 BR₃, 10, 2, 6; 2000 BS₃, 13, 3, 5; 2000 BT₃, 33, 7, 117; 2000 BU₃, 32, 6, 13; 2000 BV₃, 25, 4, 12; 2000 BW₃, 10, 2, 5; 2000 BX₃, 23, 5, 13; 2000 BY₃, 10, 2, 11; 2000 BZ₃, 19, 4, 9; 2000 BA₄, 19, 4, 11; 2000 BB₄, 13, 3, 7; 2000 BH₄, 15, 4, 118; 2000 BJ₅, 16, 4, 117; 2000 BX₆, 4, 1, 0; 2000 BY₆, 5, 1, 0; 2000 BZ₆, 5, 1, 0; 2000 BS₉, 5, 1, 0; 2000 BS₁₀, 8, 2, 58; 2000 BV₁₀, 9, 2, 8; 2000 BX₁₀, 5, 1, 0; 2000 BD₁₁, 9, 2, 2; 2000 BG₁₂, 17, 4, 6; 2000 BJ₁₂, 3, 1, 0; 2000 BP₁₂, 17, 4, 8; 2000 BU₁₂, 4, 1, 0; 2000 BA₁₃, 3, 1, 0; 2000 BE₁₃, 13, 3, 4; 2000 BE₁₃, 52, 9, 113; 2000 BO₁₃, 3, 1, 0; 2000 BT₁₃, 10, 3, 59; 2000 BW₁₃, 5, 1, 0; 2000 BX₁₃, 12, 3, 11; 2000 BY₁₃, 3, 1, 0; 2000 BZ₁₃, 8, 2, 5; 2000 BA₁₄, 13, 3, 89; 2000 BB₁₄, 5, 1, 0; 2000 BC₁₄, 10, 2, 5; 2000 BD₁₄, 14, 3, 65; 2000 BE₁₄, 14, 3, 68; 2000 BF₁₄, 4, 1, 0; 2000 BG₁₄, 26, 6, 62; 2000 BH₁₄, 16, 4, 8; 2000 BJ₁₄, 38, 7, 12; 2000 BK₁₄, 9, 2, 8; 2000 BL₁₄, 20, 4, 65; 2000 BN₁₄, 18, 4, 65; 2000 BO₁₄, 10, 2, 8; 2000 BP₁₄, 10, 2, 8; 2000 BQ₁₄, 19, 4, 72; 2000 BR₁₄, 29, 5, 12; 2000 BS₁₄, 19, 4, 7; 2000 BT₁₄, 29, 6, 117; 2000 BV₁₄, 8, 2, 69; 2000 BW₁₄, 22, 5, 474; 2000 BX₁₄, 19, 3, 95; 2000 BY₁₄, 9, 2, 8; 2000 BZ₁₄, 9, 2, 8; 2000 BA₁₅, 12, 3, 88; 2000 BD₁₅, 8, 2, 8; 2000 BE₁₅, 14, 3, 69; 2000 BF₁₅, 11, 3, 41; 2000 BH₁₅, 12, 3, 66; 2000 BL₁₅, 4, 1, 0; 2000 BO₁₅, 3, 1, 0; 2000 BU₁₅, 4, 1, 0; 2000 BB₁₈, 10, 2, 20; 2000 BG₁₈, 10, 2, 1; 2000 BJ₁₈, 36, 7, 58; 2000 BZ₁₈, 4, 1, 0; 2000 BG₁₉, 20, 4, 12; 2000 BH₁₉, 9, 2, 5; 2000 BP₂₀, 5, 1, 0; 2000 BS₂₀, 19, 4, 6; 2000 BU₂₀, 8, 2, 60; 2000 BF₂₁, 3, 1, 0; 2000 BL₂₁, 5, 1, 0; 2000 BQ₂₁, 20, 4, 6; 2000 BB₂₂, 18, 4, 11; 2000 BE₂₂, 5, 1, 0; 2000 BF₂₂, 7, 2, 3; 2000 BM₂₂, 8, 2, 462; 2000 BN₂₂, 17, 4, 34; 2000 BP₂₂, 8, 2, 30; 2000 BQ₂₂, 4, 1, 0; 2000 BR₂₂, 10, 2, 5; 2000 BS₂₂, 9, 2, 25; 2000 BT₂₂, 31, 6, 11; 2000 BW₂₂, 4, 1, 0; 2000 BX₂₂, 5, 1, 0; 2000 BY₂₂, 4, 1, 0; 2000 BZ₂₂, 14, 3, 59; 2000 BB₂₃, 9, 2, 444; 2000 BC₂₃, 18, 4, 26; 2000 BE₂₃, 5, 1, 0; 2000 BF₂₃, 8, 2, 5; 2000 BH₂₃, 3, 1, 0; 2000 BK₂₃, 12, 3, 61; 2000 BP₂₄, 4, 1, 0; 2000 BT₂₄, 4, 1, 0; 2000 BX₂₄, 5, 1, 0; 2000 BF₂₅, 5, 1, 0; 2000 BM₂₅, 4, 1, 0; 2000 BN₂₅, 13, 2, 2; 2000 BQ₂₅, 4, 1, 0; 2000 BV₂₅, 10, 2, 60; 2000 BY₂₅, 5, 1, 0; 2000 BB₂₆, 5, 1, 0; 2000 BC₂₆, 4, 1, 0; 2000 BD₂₆, 19, 4, 30; 2000 BH₂₆, 4, 1, 0; 2000 BJ₂₆, 12, 3, 58; 2000 BK₂₆, 22, 5, 89; 2000 BL₂₆, 15, 3, 11; 2000 BN₂₆, 11, 3, 87; 2000 BO₂₆, 10, 2, 2; 2000 BQ₂₆, 3, 1, 0; 2000 BR₂₆, 10, 2, 5; 2000 BS₂₆, 7, 2, 58; 2000 BU₂₆, 30, 7, 62; 2000 BV₂₆, 43, 10, 116; 2000 BW₂₆, 15, 3, 22; 2000 BX₂₆, 9, 2, 5; 2000 BY₂₆, 37, 5, 6; 2000 BA₂₇, 24, 5, 9; 2000 BB₂₇, 13, 3, 6; 2000 BD₂₇, 9, 2, 5; 2000 BE₂₇, 10, 2, 5; 2000 BF₂₇, 14, 3, 29; 2000 BH₂₇, 26, 5, 9; 2000 BJ₂₇, 39, 8, 114; 2000 BK₂₇, 15, 3, 5; 2000 BL₂₇, 29, 5, 89; 2000 BM₂₇, 25, 4, 8; 2000 BN₂₇, 20, 4, 89; 2000 BQ₂₇, 17, 4, 28; 2000 BS₂₇, 9, 2, 2; 2000 BT₂₇, 8, 2, 6; 2000 BU₂₇, 12, 3, 59; 2000 BW₂₇, 10, 2, 5; 2000 BX₂₇, 38, 8, 30; 2000 BZ₂₇, 25, 5, 11; 2000 BB₂₈, 17, 4, 87; 2000 BN₂₈, 9, 2, 8; 2000 BT₂₈, 20, 4, 9; 2000 BU₂₈, 10, 2, 55; 2000 BW₂₈, 18, 4, 57; 2000 BY₂₈, 19, 4, 11; 2000 BZ₂₈, 15, 3, 13; 2000 BA₂₉, 22, 5, 89; 2000 BL₂₉, 9, 2, 26; 2000 BZ₂₉, 9, 2, 6; 2000 BA₃₀, 18, 4, 58; 2000 BB₃₀, 10, 2, 5; 2000 BC₃₀, 32, 7, 114; 2000 BG₃₀, 13, 3, 13; 2000 BK₃₀, 29, 5, 6; 2000 BM₃₀, 18, 4, 9; 2000 BN₃₀, 8, 2, 8; 2000 BD₃₁ *, 6, 2, 1; 2000 CA, 8, 2, 69; 2000 CC, 5, 1, 0; 2000 CD, 8, 2, 59; 2000 CF, 9, 2, 5; 2000 CH, 9, 2, 5; 2000 CJ, 20, 4, 1037; 2000 CK, 5, 1, 0; 2000 CL, 14, 3, 11; 2000 CN, 24, 5, 11; 2000 CP, 10, 2, 3; 2000 CQ, 3, 1, 0; 2000 CR, 4, 1, 0; 2000 CS, 14, 3, 5; 2000 CU, 38, 8, 66; 2000 CV, 38, 8, 98; 2000 CW, 20, 4, 11; 2000 CX, 15, 3, 11; 2000 CY, 14, 3, 12; 2000 CZ, 9, 2, 9; 2000 CA₁, 29, 6, 11; 2000 CB₁, 25, 5, 9; 2000 CC₁, 14, 3, 9; 2000 CD₁, 28, 6, 38; 2000 CE₁, 25, 5, 11; 2000 CF₁, 24, 6, 64; 2000 CG₁, 22, 5, 58; 2000 CH₁, 7, 2, 560; 20

2000 MAR. 20

M.P.C. 39003

16, 4, 62; 2000 CS₂₄, 29, 6, 58; 2000 CT₂₄, 8, 2, 5; 2000 CU₂₄, 14, 4, 58; 2000 CV₂₄, 10, 2, 5; 2000 CW₂₄, 22, 5, 476; 2000 CY₂₄, 5, 1, 0; 2000 CZ₂₄, 19, 3, 89; 2000 CA₂₅, 5, 1, 0; 2000 CB₂₅, 3, 1, 0; 2000 CC₂₅, 13, 3, 6; 2000 CD₂₅, 22, 5, 57; 2000 CE₂₅, 5, 1, 0; 2000 CH₂₅, 9, 2, 25; 2000 CK₂₅, 4, 1, 0; 2000 CN₂₅, 15, 3, 5; 2000 CO₂₅, 21, 5, 478; 2000 CR₂₅, 9, 2, 3; 2000 CS₂₅, 9, 2, 3; 2000 CT₂₅, 12, 3, 58; 2000 CU₂₅, 31, 7, 61; 2000 CV₂₅, 13, 3, 5; 2000 CW₂₅, 20, 4, 58; 2000 CZ₂₅, 15, 3, 58; 2000 CA₂₆, 13, 3, 5; 2000 CB₂₆, 14, 3, 5; 2000 CC₂₆, 13, 3, 5; 2000 CD₂₆, 20, 5, 6; 2000 CE₂₆, 20, 5, 58; 2000 CF₂₆, 27, 6, 1033; 2000 CH₂₆, 15, 3, 5; 2000 CK₂₆, 8, 2, 3; 2000 CL₂₆, 15, 3, 5; 2000 CM₂₆, 20, 4, 9; 2000 CN₂₆, 25, 5, 6; 2000 CP₂₆, 19, 4, 9; 2000 CQ₂₆, 17, 4, 91; 2000 CR₂₆, 36, 8, 90; 2000 CS₂₆, 18, 4, 22; 2000 CT₂₆, 15, 3, 5; 2000 CU₂₆, 20, 4, 58; 2000 CV₂₆, 15, 3, 5; 2000 CY₂₆, 23, 5, 22; 2000 CZ₂₆, 19, 4, 22; 2000 CB₂₇, 8, 2, 1; 2000 CC₂₇, 13, 3, 5; 2000 CG₂₇, 19, 4, 22; 2000 CH₂₇, 15, 3, 5; 2000 CJ₂₇, 18, 4, 22; 2000 CK₂₇, 17, 4, 57; 2000 CL₂₇, 8, 2, 59; 2000 CP₂₇, 22, 5, 33; 2000 CT₂₇, 43, 9, 95; 2000 CU₂₇, 20, 4, 11; 2000 CV₂₇, 20, 4, 11; 2000 CW₂₇, 17, 4, 9; 2000 CX₂₇, 23, 5, 473; 2000 CY₂₇, 12, 3, 5; 2000 CZ₂₇, 19, 4, 26; 2000 CA₂₈, 15, 3, 5; 2000 CB₂₈, 19, 4, 11; 2000 CD₂₈, 24, 5, 28; 2000 CE₂₈, 32, 7, 486; 2000 CF₂₈, 15, 3, 5; 2000 CG₂₈, 25, 5, 28; 2000 CH₂₈, 15, 3, 5; 2000 CJ₂₈, 23, 5, 28; 2000 CK₂₈, 11, 3, 8; 2000 CL₂₈, 12, 3, 11; 2000 CM₂₈, 41, 9, 88; 2000 CN₂₈, 10, 2, 1; 2000 CS₂₈, 24, 5, 28; 2000 CU₂₈, 39, 8, 97; 2000 CV₂₈, 20, 4, 11; 2000 CW₂₈, 14, 3, 11; 2000 CX₂₈, 23, 5, 63; 2000 CY₂₈, 43, 9, 97; 2000 CZ₂₈, 33, 7, 64; 2000 CA₂₉, 20, 4, 11; 2000 CB₂₉, 14, 3, 11; 2000 CD₂₉, 20, 4, 11; 2000 CE₂₉, 23, 5, 28; 2000 CF₂₉, 33, 7, 11; 2000 CG₂₉, 26, 6, 28; 2000 CH₂₉, 13, 3, 11; 2000 CN₂₉, 20, 4, 11; 2000 CO₂₉, 43, 9, 487; 2000 CP₂₉, 29, 6, 28; 2000 CQ₂₉, 20, 4, 11; 2000 CR₂₉, 23, 5, 28; 2000 CS₂₉, 8, 2, 2; 2000 CT₂₉, 32, 7, 97; 2000 CU₂₉, 8, 2, 2; 2000 CV₂₉, 18, 4, 11; 2000 CW₂₉, 25, 5, 11; 2000 CY₂₉, 3, 1, 0; 2000 CZ₂₉, 19, 4, 11; 2000 CA₃₀, 23, 5, 11; 2000 CB₃₀, 23, 5, 97; 2000 CC₃₀, 15, 3, 11; 2000 CD₃₀, 24, 5, 28; 2000 CE₃₀, 19, 4, 11; 2000 CF₃₀, 32, 7, 63; 2000 CG₃₀, 23, 5, 28; 2000 CH₃₀, 37, 8, 63; 2000 CK₃₀, 20, 4, 11; 2000 CL₃₀, 35, 6, 64; 2000 CM₃₀, 28, 6, 28; 2000 CN₃₀, 18, 4, 28; 2000 CU₃₀, 10, 2, 58; 2000 CF₃₁, 9, 2, 5; 2000 CG₃₁, 5, 1, 0; 2000 CH₃₁, 4, 1, 0; 2000 CI₃₁, 12, 3, 564; 2000 CO₃₁, 4, 1, 0; 2000 CP₃₁, 17, 4, 6; 2000 CQ₃₁, 9, 2, 5; 2000 CR₃₁, 23, 5, 6; 2000 CS₃₁, 17, 4, 60; 2000 CU₃₁, 10, 2, 3; 2000 CV₃₁, 7, 2, 2; 2000 CY₃₁, 20, 3, 5; 2000 CZ₃₁, 18, 4, 11; 2000 CB₃₂, 15, 3, 5; 2000 CC₃₂, 15, 3, 5; 2000 CF₃₂, 19, 4, 28; 2000 CG₃₂, 24, 5, 473; 2000 CH₃₂, 20, 4, 11; 2000 CJ₃₂, 20, 4, 11; 2000 CN₃₂, 4, 1, 0; 2000 CO₃₂, 10, 2, 5; 2000 CR₃₂, 20, 4, 11; 2000 CS₃₂, 23, 5, 27; 2000 CT₃₂, 20, 4, 11; 2000 CU₃₂, 20, 4, 11; 2000 CY₃₂, 27, 6, 11; 2000 CZ₃₂, 14, 3, 11; 2000 CA₃₃, 23, 5, 11; 2000 CB₃₃, 18, 4, 11; 2000 CC₃₃, 15, 3, 8; 2000 CD₃₃, 22, 5, 11; 2000 CE₃₃, 13, 3, 11; 2000 CF₃₃, 25, 5, 572; 2000 CG₃₃, 27, 6, 97; 2000 CH₃₃, 20, 4, 36; 2000 CN₃₃, 5, 1, 0; 2000 CQ₃₃, 17, 4, 58; 2000 CR₃₃, 19, 4, 30; 2000 CS₃₃, 19, 4, 58; 2000 CT₃₃, 56, 11, 67; 2000 CU₃₃, 18, 4, 11; 2000 CV₃₃, 19, 4, 13; 2000 CW₃₃, 25, 5, 36; 2000 CX₃₃, 19, 4, 37; 2000 CY₃₃, 18, 4, 37; 2000 CZ₃₃, 18, 4, 36; 2000 CA₃₄, 30, 7, 36; 2000 CB₃₄, 10, 2, 7; 2000 CC₃₄, 14, 3, 11; 2000 CD₃₄, 27, 6, 116; 2000 CE₃₄, 21, 5, 445; 2000 CF₃₄, 19, 4, 38; 2000 CG₃₄, 19, 4, 11; 2000 CJ₃₄, 29, 6, 452; 2000 CK₃₄, 15, 3, 11; 2000 CL₃₄, 20, 4, 38; 2000 CP₃₄, 10, 3, 12; 2000 CQ₃₄, 15, 3, 11; 2000 CS₃₄, 10, 2, 37; 2000 CT₃₄, 5, 1, 0; 2000 CX₃₄, 4, 1, 0; 2000 CY₃₄, 5, 1, 0; 2000 CZ₃₄, 5, 1, 0; 2000 CA₃₅, 5, 1, 0; 2000 CB₃₅, 19, 4, 67; 2000 CC₃₅, 15, 3, 83; 2000 CD₃₅, 23, 5, 92; 2000 CE₃₅, 8, 2, 92; 2000 CF₃₅, 5, 1, 0; 2000 CG₃₅, 5, 1, 0; 2000 CH₃₅, 42, 9, 63; 2000 CI₃₅, 27, 5, 11; 2000 CJ₃₅, 19, 4, 11; 2000 CK₃₅, 9, 2, 99; 2000 CL₃₅, 22, 5, 28; 2000 CM₃₅, 20, 4, 11; 2000 CN₃₅, 29, 7, 97; 2000 CO₃₅, 4, 1, 0; 2000 CP₃₅, 29, 6, 63; 2000 CQ₃₅, 17, 4, 455; 2000 CR₃₅, 18, 4, 66; 2000 CS₃₅, 8, 2, 17; 2000 CT₃₅, 7, 2, 12; 2000 CU₃₅, 13, 3, 68; 2000 CV₃₅, 11, 3, 12; 2000 CW₃₅, 11, 3, 30; 2000 CX₃₅, 29, 6, 859; 2000 CY₃₅, 18, 4, 28; 2000 CZ₃₅, 14, 3, 11; 2000 CA₃₆, 28, 5, 11; 2000 CB₃₆, 19, 5, 30; 2000 CC₃₆, 14, 3, 11; 2000 CD₃₆, 12, 3, 11; 2000 CE₃₆, 29, 6, 15; 2000 CF₃₆, 23, 5, 15; 2000 CG₃₆, 13, 3, 11; 2000 CH₃₆, 14, 3, 11; 2000 CI₃₆, 18, 4, 11; 2000 CJ₃₆, 29, 5, 11; 2000 CK₃₆, 14, 3, 11; 2000 CL₃₆, 14, 3, 11; 2000 CM₃₆, 14, 3, 11; 2000 CN₃₆, 14, 3, 11; 2000 CO₃₆, 14, 3, 11; 2000 CP₃₆, 14, 3, 11; 2000 CQ₃₆, 14, 3, 11; 2000 CR₃₆, 14, 3, 11; 2000 CS₃₆, 19, 5, 30; 2000 CT₃₆, 14, 3, 11; 2000 CV₃₆, 12, 3, 11; 2000 CW₃₆, 29, 6, 15; 2000 CX₃₆, 23, 5, 15; 2000 CY₃₆, 13, 3, 11; 2000 CZ₃₆, 14, 3, 11; 2000 CA₃₇, 23, 5, 66; 2000 CB₃₇, 14, 3, 11; 2000 CC₃₇, 23, 5, 445; 2000 CD₃₇, 29, 5, 11; 2000 CE₃₇, 20, 4, 11; 2000 CF₃₇, 14, 3, 11; 2000 CG₃₇, 17, 4, 11; 2000 CH₃₇, 24, 5, 15; 2000 CI₃₇, 5, 1, 0; 2000 CJ₃₇, 4, 1, 0; 2000 CK₃₇, 4, 1, 0; 2000 CL₃₇, 8, 2, 60; 2000 CM₃₇, 4, 1, 0; 2000 CN₃₇, 3, 1, 0; 2000 CO₃₇, 3, 1, 0; 2000 CP₃₇, 3, 1, 0; 2000 CQ₃₇, 3, 1, 0; 2000 CR₃₇, 3, 1, 0; 2000 CS₃₇, 3, 1, 0; 2000 CT₃₇, 3, 1, 0; 2000 CU₃₇, 3, 1, 0; 2000 CV₃₇, 3, 1, 0; 2000 CW₃₇, 3, 1, 0; 2000 CX₃₇, 3, 1, 0; 2000 CY₃₇, 3, 1, 0; 2000 CZ₃₇, 3, 1, 0; 2000 CA₃₈, 23, 5, 90; 2000 CB₃₈, 24, 5, 65; 2000 CC₃₈, 14, 3, 58; 2000 CD₃₈, 14, 3, 58; 2000 CE₃₈, 5, 1, 0; 2000 CF₃₈, 10, 2, 7; 2000 CG₃₈, 14, 3, 64; 2000 CH₃₈, 32, 6, 12; 2000 CI₃₈, 25, 5, 11; 2000 CJ₃₈, 25, 5, 11; 2000 CK₃₈, 25, 5, 11; 2000 CL₃₈, 19, 4, 559; 2000 CM₃₈, 14, 3, 7; 2000 CN₃₈, 4, 1, 0; 2000 CO₃₈, 5, 1, 0; 2000 CP₃₈, 13, 3, 30; 2000 CQ₃₈, 14, 3, 30; 2000 CR₃₈, 37, 8, 95; 2000 CS₃₈, 13, 3, 60; 2000 CT₃₈, 34, 6, 54; 2000 CU₃₈, 24, 5, 32; 2000 CV₃₈, 11, 3, 12; 2000 CW₃₈, 24, 5, 11; 2000 CX₃₈, 24, 5, 11; 2000 CY₃₈, 10, 2, 7; 2000 CZ₃₈, 14, 3, 64; 2000 CA₃₉, 32, 6, 12; 2000 CB₃₉, 25, 5, 11; 2000 CC₃₉, 25, 5, 11; 2000 CD₃₉, 25, 5, 11; 2000 CE₃₉, 19, 4, 559; 2000 CF₃₉, 14, 3, 7; 2000 CG₃₉, 14, 3, 7; 2000 CH₃₉, 4, 1, 0; 2000 CI₃₉, 5, 1, 0; 2000 CJ₃₉, 13, 3, 30; 2000 CK₃₉, 14, 3, 30; 2000 CL₃₉, 14, 3, 30; 2000 CM₃₉, 14, 3, 30; 2000 CN₃₉, 14, 3, 30; 2000 CO₃₉, 14, 3, 30; 2000 CP₃₉, 14, 3, 30; 2000 CQ₃₉, 14, 3, 30; 2000 CR₃₉, 37, 8, 95; 2000 CS₃₉, 13, 3, 60; 2000 CT₃₉, 34, 6, 54; 2000 CU₃₉, 24, 5, 32; 2000 CV₃₉, 11, 3, 12; 2000 CW₃₉, 24, 5, 11; 2000 CX₃₉, 24, 5, 11; 2000 CY₃₉, 10, 2, 7; 2000 CZ₃₉, 14, 3, 64; 2000 CA₄₀, 32, 6, 12; 2000 CB₄₀, 25, 5, 11; 2000 CC₄₀, 25, 5, 11; 2000 CD₄₀, 25, 5, 11; 2000 CE₄₀, 19, 4, 559; 2000 CF₄₀, 14, 3, 7; 2000 CG₄₀, 14, 3, 7; 2000 CH₄₀, 4, 1, 0; 2000 CI₄₀, 5, 1, 0; 2000 CJ₄₀, 13, 3, 30; 2000 CK₄₀, 14, 3, 30; 2000 CL₄₀, 14, 3, 30; 2000 CM₄₀, 14, 3, 30; 2000 CN₄₀, 14, 3, 30; 2000 CO₄₀, 14, 3, 30; 2000 CP₄₀, 14, 3, 30; 2000 CQ₄₀, 14, 3, 30; 2000 CR₄₀, 37, 8, 95; 2000 CS₄₀, 13, 3, 60; 2000 CT₄₀, 34, 6, 54; 2000 CU₄₀, 24, 5, 32; 2000 CV₄₀, 11, 3, 12; 2000 CW₄₀, 24, 5, 11; 2000 CX₄₀, 24, 5, 11; 2000 CY₄₀, 10, 2, 7; 2000 CZ₄₀, 14, 3, 64; 2000 CA₄₁, 32, 6, 12; 2000 CB₄₁, 25, 5, 11; 2000 CC₄₁, 25, 5, 11; 2000 CD₄₁, 25, 5, 11; 2000 CE₄₁, 19, 4, 559; 2000 CF₄₁, 14, 3, 7; 2000 CG₄₁, 14, 3, 7; 2000 CH₄₁, 4, 1, 0; 2000 CI₄₁, 5, 1, 0; 2000 CJ₄₁, 13, 3, 30; 2000 CK₄₁, 14, 3, 30; 2000 CL₄₁, 14, 3, 30; 2000 CM₄₁, 14, 3, 30; 2000 CN₄₁, 14, 3, 30; 2000 CO₄₁, 14, 3, 30; 2000 CP₄₁, 14, 3, 30; 2000 CQ₄₁, 14, 3, 30; 2000 CR₄₁, 37, 8, 95; 2000 CS₄₁, 13, 3, 60; 2000 CT₄₁, 34, 6, 54; 2000 CU₄₁, 24, 5, 32; 2000 CV₄₁, 11, 3, 12; 2000 CW₄₁, 24, 5, 11; 2000 CX₄₁, 24, 5, 11; 2000 CY₄₁, 10, 2, 7; 2000 CZ₄₁, 14, 3, 64; 2000 CA₄₂, 32, 6, 12; 2000 CB₄₂, 25, 5, 11; 2000 CC₄₂, 25, 5, 11; 2000 CD₄₂, 25, 5, 11; 2000 CE₄₂, 19, 4, 559; 2000 CF₄₂, 14, 3, 7; 2000 CG₄₂, 14, 3, 7; 2000 CH₄₂, 4, 1, 0; 2000 CI₄₂, 5, 1, 0; 2000 CJ₄₂, 13, 3, 30; 2000 CK₄₂, 14, 3, 30; 2000 CL₄₂, 14, 3, 30; 2000 CM₄₂, 14, 3, 30; 2000 CN₄₂, 14, 3, 30; 2000 CO₄₂, 14, 3, 30; 2000 CP₄₂, 14, 3, 30; 2000 CQ₄₂, 14, 3, 30; 2000 CR₄₂, 37, 8, 95; 2000 CS₄₂, 13, 3, 60; 2000 CT₄₂, 34, 6, 54; 2000 CU₄₂, 24, 5, 32; 2000 CV₄₂, 11, 3, 12; 2000 CW₄₂, 24, 5, 11; 2000 CX₄₂, 24, 5, 11; 2000 CY₄₂, 10, 2, 7; 2000 CZ₄₂, 14, 3, 64; 2000 CA₄₃, 32, 6, 12; 2000 CB₄₃, 25, 5, 11; 2000 CC₄₃, 25, 5, 11; 2000 CD₄₃, 25, 5, 11; 2000 CE₄₃, 19, 4, 559; 2000 CF₄₃, 14, 3, 7; 2000 CG₄₃, 14, 3, 7; 2000 CH₄₃, 4, 1, 0; 2000 CI₄₃, 5, 1, 0; 2000 CJ₄₃, 13, 3, 30; 2000 CK₄₃, 14, 3, 30; 2000 CL₄₃, 14, 3, 30; 2000 CM₄₃, 14, 3, 30; 2000 CN₄₃, 14, 3, 30; 2000 CO₄₃, 14, 3, 30; 2000 CP₄₃, 14, 3, 30; 2000 CQ₄₃, 14, 3, 30; 2000 CR₄₃, 37, 8, 95; 2000 CS₄₃, 13, 3, 60; 2000 CT₄₃, 34, 6, 54; 2000 CU₄₃, 24, 5, 32; 2000 CV₄₃, 11, 3, 12; 2000 CW₄₃, 24, 5, 11; 2000 CX₄₃, 24, 5, 11; 2000 CY₄₃, 10, 2, 7; 2000 CZ₄₃, 14, 3, 64; 2000 CA₄₄, 32, 6, 12; 2000 CB₄₄, 25, 5, 11; 2000 CC₄₄, 25, 5, 11; 2000 CD₄₄, 25, 5, 11; 2000 CE₄₄, 19, 4, 559; 2000 CF₄₄, 14, 3, 7; 2000 CG₄₄, 14, 3, 7; 2000 CH₄₄, 4, 1, 0; 2000 CI₄₄, 5, 1, 0; 2000 CJ₄₄, 13, 3, 30; 2000 CK₄₄, 14, 3, 30; 2000 CL₄₄, 14, 3, 30; 2000 CM₄₄, 14, 3, 30; 2000 CN₄₄, 14, 3, 30; 2000 CO₄₄, 14, 3, 30; 2000 CP₄₄, 14, 3, 30; 2000 CQ₄₄, 14, 3, 30; 2000 CR₄₄, 37, 8, 95; 2000 CS₄₄, 13, 3, 60; 2000 CT₄₄, 34, 6, 54; 2000 CU₄₄, 24, 5, 32; 2000 CV₄₄, 11, 3, 12; 2000 CW₄₄, 24, 5, 11; 2000 CX₄₄, 24, 5, 11; 2000 CY₄₄, 10, 2, 7; 2000 CZ₄₄, 14, 3, 64; 2000 CA₄₅, 32, 6, 12; 2000 CB₄₅, 25, 5, 11; 2000 CC₄₅, 25, 5, 11; 2000 CD₄₅, 25, 5, 11; 2000 CE₄₅, 19, 4, 559; 2000 CF₄₅, 14, 3, 7; 2000 CG₄₅, 14, 3, 7; 2000 CH₄₅, 4, 1, 0; 2000 CI₄₅, 5, 1, 0; 2000 CJ₄₅, 13, 3, 30; 2000 CK₄₅, 14, 3, 30; 2000 CL₄₅, 14, 3, 30; 2000 CM₄₅, 14, 3, 30; 2000 CN₄₅, 14, 3, 30; 2000 CO₄₅, 14, 3, 30; 2000 CP₄₅, 14, 3, 30; 2000 CQ₄₅, 14, 3, 30; 2000 CR₄₅, 37, 8, 95; 2000 CS₄₅, 13, 3, 60; 2000 CT₄₅, 34, 6, 54; 2000 CU₄₅, 24, 5, 32; 2000 CV₄₅, 11, 3, 12; 2000 CW₄₅, 24, 5, 11; 2000 CX₄₅, 24, 5, 11; 2000 CY₄₅, 10, 2, 7; 2000 CZ₄₅, 14, 3, 64; 2000 CA₄₆, 32, 6, 12; 2000 CB₄₆, 25, 5, 11; 2000 CC₄₆, 25, 5, 11; 2000 CD₄₆, 25, 5, 11; 2000 CE₄₆, 19, 4, 559; 2000 CF₄₆, 14, 3, 7; 2000 CG₄₆, 14, 3, 7; 2000 CH₄₆, 4, 1, 0; 2000 CI₄₆, 5, 1, 0; 2000 CJ₄₆, 13, 3, 30; 2000 CK₄₆, 14, 3, 30; 2000 CL₄₆, 14, 3, 30; 2000 CM₄₆, 14, 3, 30; 2000 CN₄₆, 14, 3, 30; 2000 CO₄₆, 14, 3, 30; 2000 CP₄₆, 14, 3, 30; 2000 CQ₄₆, 14, 3, 30; 2000 CR₄₆, 37, 8, 95; 2000 CS₄₆, 13, 3, 60; 2000 CT₄₆, 34, 6, 54; 2000 CU₄₆, 24, 5, 32; 2000 CV₄₆, 11, 3, 12; 2000 CW₄₆, 24, 5, 11; 2000 CX₄₆, 24, 5, 11; 2000 CY₄₆, 10, 2, 7; 2000 CZ₄₆, 14, 3, 64; 2000 CA₄₇, 32, 6, 12; 2000 CB₄₇, 25, 5, 11; 2000 CC₄₇, 25, 5, 11; 2000 CD₄₇, 25, 5, 11; 2000 CE₄₇, 19, 4, 559; 2000 CF₄₇, 14, 3, 7; 2000 CG₄₇, 14, 3, 7; 2000 CH₄₇, 4, 1, 0; 2000 CI₄₇, 5, 1, 0; 2000 CJ₄₇, 13, 3, 30; 2000 CK₄₇, 14, 3, 30; 2000 CL₄₇, 14, 3, 30; 2000 CM₄₇, 14, 3, 30; 2000 CN₄₇, 14, 3, 30; 2

13, 3, 11; 2000 CH₈₀, 28, 6, 59; 2000 CK₈₀, 18, 4, 94; 2000 CM₈₀, 17, 4, 59; 2000 CO₈₀, 10, 2, 4; 2000 CW₈₀, 15, 3, 58; 2000 CY₈₀, 28, 6, 473; 2000 CZ₈₀, 40, 8, 116; 2000 CB₈₁, 18, 4, 58; 2000 CD₈₁, 31, 5, 6; 2000 CE₈₁, 11, 3, 60; 2000 CF₈₁, 16, 4, 5; 2000 CG₈₁, 10, 2, 3; 2000 CH₈₁, 36, 8, 64; 2000 CJ₈₁, 15, 3, 5; 2000 CK₈₁, 13, 3, 9; 2000 CM₈₁, 5, 1, 0; 2000 CN₈₁, 35, 7, 11; 2000 CO₈₁, 25, 5, 11; 2000 CP₈₁, 12, 3, 9; 2000 CQ₈₁, 31, 7, 11; 2000 CR₈₁, 24, 5, 14; 2000 CS₈₁, 17, 4, 10; 2000 CT₈₁, 14, 3, 61; 2000 CU₈₁, 20, 5, 29; 2000 CV₈₁, 19, 4, 22; 2000 CW₈₁, 23, 5, 26; 2000 CX₈₁, 35, 7, 452; 2000 CY₈₁, 18, 4, 1033; 2000 CZ₈₁, 22, 5, 29; 2000 CA₈₂, 22, 4, 62; 2000 CB₈₂, 13, 3, 10; 2000 CC₈₂, 27, 6, 64; 2000 CD₈₂, 15, 3, 5; 2000 CE₈₂, 24, 4, 11; 2000 CF₈₂, 20, 4, 11; 2000 CG₈₂, 29, 6, 450; 2000 CH₈₂, 8, 2, 6; 2000 CJ₈₂, 25, 6, 98; 2000 CK₈₂, 28, 6, 12; 2000 CL₈₂, 7, 2, 6; 2000 CM₈₂, 24, 5, 11; 2000 CN₈₂, 20, 4, 11; 2000 CO₈₂, 19, 4, 11; 2000 CP₈₂, 10, 2, 6; 2000 CQ₈₂, 20, 4, 11; 2000 CR₈₂, 19, 4, 11; 2000 CS₈₂, 13, 3, 8; 2000 CT₈₂, 25, 5, 11; 2000 CU₈₂, 20, 4, 11; 2000 CV₈₂, 10, 2, 6; 2000 CW₈₂, 19, 4, 13; 2000 CX₈₂, 15, 3, 13; 2000 CY₈₂, 9, 2, 6; 2000 CZ₈₂, 15, 3, 12; 2000 CB₈₃, 9, 2, 6; 2000 CC₈₃, 10, 2, 6; 2000 CD₈₃, 15, 3, 12; 2000 CE₈₃, 20, 4, 6; 2000 CF₈₃, 18, 4, 12; 2000 CG₈₃, 24, 5, 11; 2000 CH₈₃, 25, 5, 11; 2000 CK₈₃, 12, 3, 91; 2000 CL₈₃, 13, 3, 13; 2000 CM₈₃, 13, 3, 13; 2000 CN₈₃, 20, 4, 11; 2000 CO₈₃, 9, 2, 5; 2000 CP₈₃, 14, 3, 13; 2000 CQ₈₃, 10, 2, 7; 2000 CR₈₃, 25, 6, 487; 2000 CS₈₃, 25, 5, 11; 2000 CT₈₃, 19, 4, 13; 2000 CV₈₃, 13, 3, 10; 2000 CW₈₃, 9, 2, 7; 2000 CX₈₃, 30, 6, 116; 2000 CZ₈₃, 25, 5, 11; 2000 CA₈₄, 18, 4, 11; 2000 CB₈₄, 28, 6, 98; 2000 CC₈₄, 18, 5, 11; 2000 CD₈₄, 15, 3, 8; 2000 CF₈₄, 18, 4, 12; 2000 CG₈₄, 24, 5, 13; 2000 CH₈₄, 15, 3, 11; 2000 CK₈₄, 20, 4, 11; 2000 CL₈₄, 20, 4, 11; 2000 CM₈₄, 20, 4, 11; 2000 CN₈₄, 20, 4, 11; 2000 CO₈₄, 11, 3, 7; 2000 CP₈₄, 18, 4, 7; 2000 CR₈₄, 13, 4, 13; 2000 CT₈₄, 20, 5, 98; 2000 CU₈₄, 19, 4, 7; 2000 CW₈₄, 14, 3, 13; 2000 CY₈₄, 22, 5, 483; 2000 CZ₈₄, 10, 2, 7; 2000 CA₈₅, 19, 4, 7; 2000 CB₈₅, 33, 7, 572; 2000 CC₈₅, 13, 3, 7; 2000 CD₈₅, 5, 1, 0; 2000 CE₈₅, 18, 3, 7; 2000 CF₈₅, 28, 6, 11; 2000 CG₈₅, 28, 6, 481; 2000 CH₈₅, 10, 2, 6; 2000 CJ₈₅, 9, 2, 1; 2000 CK₈₅, 7, 2, 3; 2000 CL₈₅, 25, 4, 8; 2000 CM₈₅, 14, 3, 7; 2000 CN₈₅, 8, 2, 7; 2000 CQ₈₅, 24, 5, 87; 2000 CR₈₅, 17, 4, 11; 2000 CS₈₅, 17, 4, 11; 2000 CT₈₅, 29, 6, 12; 2000 CU₈₅, 10, 2, 3; 2000 CV₈₅, 15, 3, 12; 2000 CW₈₅, 15, 3, 12; 2000 CX₈₅, 43, 9, 101; 2000 CY₈₅, 23, 5, 12; 2000 CZ₈₅, 17, 4, 11; 2000 CA₈₆, 19, 4, 11; 2000 CB₈₆, 25, 5, 11; 2000 CC₈₆, 15, 3, 11; 2000 CD₈₆, 19, 4, 11; 2000 CE₈₆, 25, 5, 11; 2000 CF₈₆, 23, 5, 12; 2000 CG₈₆, 10, 2, 7; 2000 CH₈₆, 20, 4, 7; 2000 CJ₈₆, 18, 4, 12; 2000 CK₈₆, 23, 5, 485; 2000 CL₈₆, 17, 3, 8; 2000 CM₈₆, 22, 5, 8; 2000 CN₈₆, 29, 5, 12; 2000 CP₈₆, 30, 6, 485; 2000 CQ₈₆, 10, 2, 6; 2000 CR₈₆, 10, 2, 7; 2000 CS₈₆, 14, 3, 6; 2000 CT₈₆, 10, 2, 7; 2000 CU₈₆, 20, 4, 8; 2000 CV₈₆, 13, 3, 65; 2000 CW₈₆, 14, 3, 8; 2000 CX₈₆, 25, 5, 11; 2000 CY₈₆, 20, 4, 11; 2000 CZ₈₆, 15, 3, 11; 2000 CA₈₇, 24, 5, 11; 2000 CB₈₇, 15, 3, 11; 2000 CC₈₇, 22, 5, 11; 2000 CD₈₇, 24, 5, 487; 2000 CE₈₇, 20, 4, 12; 2000 CF₈₇, 20, 4, 11; 2000 CG₈₇, 24, 5, 451; 2000 CH₈₇, 10, 2, 7; 2000 CL₈₇, 14, 3, 10; 2000 CM₈₇, 22, 5, 559; 2000 CN₈₇, 19, 3, 12; 2000 CO₈₇, 18, 4, 58; 2000 CP₈₇, 8, 2, 3; 2000 CQ₈₇, 17, 4, 11; 2000 CR₈₇, 30, 6, 11; 2000 CS₈₇, 15, 3, 8; 2000 CV₈₇, 10, 2, 3; 2000 CW₈₇, 20, 3, 7; 2000 CY₈₇, 4, 1, 0; 2000 CZ₈₇, 24, 5, 11; 2000 CA₈₈, 19, 4, 11; 2000 CB₈₈, 10, 2, 4; 2000 CC₈₈, 25, 5, 11; 2000 CD₈₈, 9, 2, 7; 2000 CE₈₈, 10, 2, 5; 2000 CF₈₈, 15, 3, 12; 2000 CG₈₈, 19, 4, 11; 2000 CH₈₈, 19, 4, 12; 2000 CJ₈₈, 15, 3, 12; 2000 CL₈₈, 15, 3, 12; 2000 CM₈₈, 26, 5, 68; 2000 CN₈₈, 15, 3, 12; 2000 CO₈₈, 20, 4, 12; 2000 CR₈₈, 10, 2, 5; 2000 CT₈₈, 15, 3, 12; 2000 CU₈₈, 14, 3, 12; 2000 CV₈₈, 14, 3, 12; 2000 CW₈₈, 10, 2, 7; 2000 CY₈₈, 14, 3, 12; 2000 CZ₈₈, 10, 2, 7; 2000 CA₈₉, 9, 2, 5; 2000 CB₈₉, 10, 2, 7; 2000 CG₈₉, 20, 4, 12; 2000 CH₈₉, 13, 3, 12; 2000 CK₈₉, 9, 2, 7; 2000 CL₈₉, 14, 2, 7; 2000 CM₈₉, 14, 3, 12; 2000 CP₈₉, 9, 2, 5; 2000 CQ₈₉, 10, 2, 7; 2000 CR₈₉, 22, 5, 37; 2000 CG₉₀, 14, 3, 5; 2000 CH₉₀, 18, 4, 36; 2000 CJ₉₀, 9, 2, 1; 2000 CK₉₀, 19, 4, 37; 2000 CL₉₀, 9, 2, 3; 2000 CN₉₀, 25, 6, 11; 2000 CO₉₀, 4, 1, 0; 2000 CU₉₀, 8, 2, 4; 2000 CA₉₁, 14, 3, 11; 2000 CB₉₁, 25, 5, 11; 2000 CC₉₁, 28, 6, 15; 2000 CD₉₁, 15, 3, 11; 2000 CE₉₁, 34, 6, 11; 2000 CF₉₁, 28, 6, 39; 2000 CG₉₁, 24, 5, 11; 2000 CH₉₁, 17, 4, 11; 2000 CJ₉₁, 19, 4, 11; 2000 CK₉₁, 14, 3, 4; 2000 CL₉₁, 23, 5, 11; 2000 CM₉₁, 30, 6, 453; 2000 CN₉₁, 19, 4, 11; 2000 CO₉₁, 10, 2, 3; 2000 CP₉₁, 14, 3, 11; 2000 CS₉₁, 12, 3, 11; 2000 CT₉₁, 24, 5, 67; 2000 CU₉₁, 14, 3, 11; 2000 CV₉₁, 15, 3, 8; 2000 CW₉₁, 32, 7, 448; 2000 CX₉₁, 13, 3, 55; 2000 CY₉₁, 14, 3, 11; 2000 CZ₉₁, 10, 2, 7; 2000 CA₉₂, 22, 5, 97; 2000 CB₉₂, 18, 4, 11; 2000 CC₉₂, 13, 3, 9; 2000 CD₉₂, 15, 3, 11; 2000 CE₉₂, 13, 3, 8; 2000 CF₉₂, 22, 3, 8; 2000 CG₉₂, 15, 3, 15; 2000 CH₉₂, 8, 2, 3; 2000 CZ₉₂, 15, 3, 11; 2000 CA₉₃, 10, 2, 3; 2000 CB₉₃, 15, 3, 11; 2000 CC₉₃, 24, 4, 67; 2000 CD₉₃, 14, 3, 11; 2000 CE₉₃, 22, 5, 67; 2000 CF₉₃, 24, 5, 11; 2000 CG₉₃, 27, 6, 483; 2000 CH₉₃, 17, 4, 12; 2000 CI₉₃, 8, 2, 441; 2000 CK₉₃, 11, 3, 64; 2000 CL₉₃, 14, 3, 12; 2000 CM₉₃, 16, 4, 65; 2000 CN₉₃, 14, 3, 5; 2000 CO₉₃, 22, 5, 11; 2000 CP₉₃, 22, 5, 9; 2000 CQ₉₃, 15, 3, 5; 2000 CR₉₃, 19, 4, 11; 2000 CS₉₃, 21, 5, 36; 2000 CA₉₄, 8, 2, 8; 2000 CB₉₄, 17, 4, 63; 2000 CC₉₄, 10, 2, 3; 2000 CE₉₄, 5, 1, 0; 2000 CF₉₄, 13, 3, 11; 2000 CG₉₄, 4, 1, 0; 2000 CH₉₄, 5, 1, 0; 2000 CJ₉₄, 14, 3, 3; 2000 CL₉₄, 13, 3, 11; 2000 CM₉₄, 17, 4, 67; 2000 CN₉₄, 17, 4, 11; 2000 CP₉₄, 18, 4, 63; 2000 CQ₉₄, 20, 4, 63; 2000 CV₉₄, 8, 2, 2; 2000 CW₉₄, 5, 1, 0; 2000 CB₉₅, 5, 1, 0; 2000 CC₉₅, 14, 3, 11; 2000 CD₉₅, 30, 6, 34; 2000 CE₉₅, 13, 3, 11; 2000 CF₉₅, 9, 2, 1; 2000 CG₉₅, 13, 3, 8; 2000 CH₉₅, 19, 4, 11; 2000 CI₉₅, 20, 4, 32; 2000 CK₉₅, 12, 3, 62; 2000 CL₉₅, 24, 5, 30; 2000 CM₉₅, 9, 2, 3; 2000 CN₉₅, 26, 6, 63; 2000 CO₉₅, 19, 4, 12; 2000 CP₉₅, 6, 2, 5; 2000 CR₉₅, 10, 2, 3; 2000 CS₉₅, 20, 4, 3; 2000 CT₉₅, 7, 2, 3; 2000 CU₉₅, 8, 2, 3; 2000 CV₉₅, 5, 1, 0; 2000 CW₉₅, 14, 3, 11; 2000 CX₉₅, 16, 4, 31; 2000 CY₉₅, 10, 2, 2; 2000 CZ₉₅, 26, 5, 30; 2000 CA₉₆, 20, 5, 484; 2000 CB₉₆, 13, 3, 5; 2000 CC₉₆, 4, 1, 0; 2000 CD₉₆, 18, 4, 22; 2000 CE₉₆, 13, 3, 37; 2000 CF₉₆, 23, 5, 61; 2000 CG₉₆, 18, 4, 30; 2000 CH₉₆, 10, 2, 4; 2000 CI₉₆, 31, 5, 6; 2000 CJ₉₆, 16, 4, 5; 2000 CK₉₆, 10, 2, 3; 2000 CL₉₆, 36, 8, 64; 2000 CM₉₆, 25, 5, 11; 2000 CN₉₆, 35, 7, 11; 2000 CO₉₆, 25, 5, 11; 2000 CP₉₆, 12, 3, 9; 2000 CQ₉₆, 31, 7, 11; 2000 CR₉₆, 24, 5, 14; 2000 CS₉₆, 17, 4, 10; 2000 CT₉₆, 14, 3, 61; 2000 CU₉₆, 20, 5, 29; 2000 CV₉₆, 19, 4, 22; 2000 CW₉₆, 23, 5, 26; 2000 CX₉₆, 35, 7, 452; 2000 CY₉₆, 18, 4, 1033; 2000 CZ₉₆, 22, 5, 29; 2000 CA₉₇, 22, 4, 62; 2000 CB₉₇, 13, 3, 10; 2000 CC₉₇, 27, 6, 64; 2000 CD₉₇, 15, 3, 5; 2000 CE₉₇, 24, 4, 11; 2000 CF₉₇, 20, 4, 11; 2000 CG₉₇, 29, 6, 450; 2000 CH₉₇, 8, 2, 6; 2000 CJ₉₇, 25, 6, 98; 2000 CK₉₇, 28, 6, 12; 2000 CL₉₇, 7, 2, 6; 2000 CM₉₇, 24, 5, 11; 2000 CN₉₇, 20, 4, 11; 2000 CO₉₇, 19, 4, 11; 2000 CP₉₇, 10, 2, 6; 2000 CQ₉₇, 20, 4, 11; 2000 CR₉₇, 19, 4, 11; 2000 CS₉₇, 13, 3, 8; 2000 CT₉₇, 25, 5, 11; 2000 CU₉₇, 20, 4, 11; 2000 CV₉₇, 10, 2, 6; 2000 CW₉₇, 19, 4, 13; 2000 CX₉₇, 15, 3, 13; 2000 CY₉₇, 9, 2, 6; 2000 CZ₉₇, 15, 3, 12; 2000 CB₉₈, 9, 2, 6; 2000 CC₉₈, 10, 2, 6; 2000 CD₉₈, 15, 3, 12; 2000 CE₉₈, 20, 4, 6; 2000 CF₉₈, 18, 4, 12; 2000 CG₉₈, 24, 5, 11; 2000 CH₉₈, 25, 5, 11; 2000 CK₉₈, 12, 3, 91; 2000 CL₉₈, 13, 3, 13; 2000 CM₉₈, 13, 3, 13; 2000 CN₉₈, 20, 4, 11; 2000 CO₉₈, 9, 2, 5; 2000 CP₉₈, 14, 3, 13; 2000 CQ₉₈, 10, 2, 7; 2000 CR₉₈, 25, 6, 487; 2000 CS₉₈, 25, 5, 11; 2000 CT₉₈, 19, 4, 13; 2000 CV₉₈, 13, 3, 10; 2000 CW₉₈, 9, 2, 7; 2000 CX₉₈, 30, 6, 116; 2000 CZ₉₈, 25, 5, 11; 2000 CA₉₉, 18, 4, 11; 2000 CB₉₉, 28, 6, 98; 2000 CC₉₉, 18, 5, 11; 2000 CD₉₉, 15, 3, 8; 2000 CE₉₉, 18, 4, 12; 2000 CF₉₉, 24, 5, 13; 2000 CG₉₉, 15, 3, 11; 2000 CH₉₉, 20, 4, 11; 2000 CI₉₉, 20, 4, 11; 2000 CJ₉₉, 18, 4, 7; 2000 CK₉₉, 13, 4, 13; 2000 CL₉₉, 20, 5, 98; 2000 CM₉₉, 19, 4, 7; 2000 CN₉₉, 14, 3, 13; 2000 CO₉₉, 11, 3, 7; 2000 CP₉₉, 18, 4, 7; 2000 CQ₉₉, 14, 3, 13; 2000 CV₉₉, 10, 2, 7; 2000 CW₉₉, 14, 3, 13; 2000 CX₉₉, 22, 5, 483; 2000 CY₉₉, 23, 5, 12; 2000 CZ₉₉, 17, 4, 11; 2000 CA₁₀₀, 19, 4, 11; 2000 CB₁₀₀, 25, 5, 11; 2000 CC₁₀₀, 15, 3, 11; 2000 CD₁₀₀, 19, 4, 11; 2000 CE₁₀₀, 25, 5, 11; 2000 CF₁₀₀, 23, 5, 12; 2000 CG₁₀₀, 10, 2, 7; 2000 CH₁₀₀, 20, 4, 7; 2000 CI₁₀₀, 20, 4, 7; 2000 CJ₁₀₀, 18, 4, 12; 2000 CK₁₀₀, 23, 5, 485; 2000 CL₁₀₀, 17, 3, 8; 2000 CM₁₀₀, 22, 5, 8; 2000 CN₁₀₀, 29, 5, 12; 2000 CO₁₀₀, 10, 2, 6; 2000 CP₁₀₀, 30, 6, 485; 2000 CQ₁₀₀, 10, 2, 6; 2000 CR₁₀₀, 10, 2, 7; 2000 CS₁₀₀, 14, 3, 6; 2000 CT₁₀₀, 10, 2, 7; 2000 CU₁₀₀, 20, 4, 8; 2000 CV₁₀₀, 13, 3, 65; 2000 CW₁₀₀, 14, 3, 8; 2000 CX₁₀₀, 25, 5, 11; 2000 CY₁₀₀, 20, 4, 11; 2000 CZ₁₀₀, 15, 3, 11; 2000 CA₁₀₁, 24, 5, 11; 2000 CB₁₀₁, 15, 3, 11; 2000 CC₁₀₁, 22, 5, 11; 2000 CD₁₀₁, 19, 4, 11; 2000 CE₁₀₁, 25, 5, 11; 2000 CF₁₀₁, 18, 4, 12; 2000 CG₁₀₁, 10, 2, 7; 2000 CH₁₀₁, 20, 4, 7; 2000 CI₁₀₁, 20, 4, 7; 2000 CJ₁₀₁, 18, 4, 12; 2000 CK₁₀₁, 23, 5, 485; 2000 CL₁₀₁, 17, 3, 8; 2000 CM₁₀₁, 22, 5, 8; 2000 CN₁₀₁, 29, 5, 12; 2000 CO₁₀₁, 10, 2, 6; 2000 CP₁₀₁, 30, 6, 485; 2000 CQ₁₀₁, 10, 2, 6; 2000 CR₁₀₁, 10, 2, 7; 2000 CS₁₀₁, 14, 3, 6; 2000 CT₁₀₁, 10, 2, 7; 2000 CU₁₀₁, 20, 4, 8; 2000 CV₁₀₁, 13, 3, 65; 2000 CW₁₀₁, 14, 3, 8; 2000 CX₁₀₁, 25, 5, 11; 2000 CY₁₀₁, 20, 4, 11; 2000 CZ₁₀₁, 15, 3, 11; 2000 CA₁₀₂, 24, 5, 11; 2000 CB₁₀₂, 15, 3, 11; 2000 CC₁₀₂, 22, 5, 11; 2000 CD₁₀₂, 19, 4, 11; 2000 CE₁₀₂, 25, 5, 11; 2000 CF₁₀₂, 18, 4, 12; 2000 CG₁₀₂, 10, 2, 7; 2000 CH₁₀₂, 20, 4, 7; 2000 CI₁₀₂, 20, 4, 7; 2000 CJ₁₀₂, 18, 4, 12; 2000 CK₁₀₂, 23, 5, 485; 2000 CL₁₀₂, 17, 3, 8; 2000 CM₁₀₂, 22, 5, 8; 2000 CN₁₀₂, 29, 5, 12; 2000 CO₁₀₂, 10, 2, 6; 2000 CP₁₀₂, 30, 6, 485; 2000 CQ₁₀₂, 10, 2, 6; 2000 CR₁₀₂, 10, 2, 7; 2000 CS₁₀₂, 14, 3, 6; 2000 CT₁₀₂, 10, 2, 7; 2000 CU₁₀₂, 20, 4, 8; 2000 CV₁₀₂, 13, 3, 65; 2000 CW₁₀₂, 14, 3, 8; 2000 CX₁₀₂, 25, 5, 11; 2000 CY₁₀₂, 20, 4, 11; 2000 CZ₁₀₂, 15, 3, 11; 2000 CA₁₀₃, 24, 5, 11; 2000 CB₁₀₃, 15, 3, 11; 2000 CC₁₀₃, 22, 5, 11; 2000 CD₁₀₃, 19, 4, 11; 2000 CE₁₀₃, 25, 5, 11; 2000 CF₁₀₃, 18, 4, 12; 2000 CG₁₀₃, 10, 2, 7; 2000 CH₁₀₃, 20, 4, 7; 2000 CI₁₀₃, 20, 4, 7; 2000 CJ₁₀₃, 18, 4, 12; 2000 CK₁₀₃, 23, 5, 485; 2000 CL₁₀₃, 17, 3, 8; 2000 CM₁₀₃, 22, 5, 8; 2000 CN₁₀₃, 29, 5, 12; 2000 CO₁₀₃, 10, 2, 6; 2000 CP₁₀₃, 30, 6, 485; 2000 CQ₁₀₃, 10, 2, 6; 2000 CR₁₀₃, 10, 2, 7; 2000 CS₁₀₃, 14, 3, 6; 2000 CT₁₀₃, 10, 2, 7; 2000 CU₁₀₃, 20, 4, 8; 2000 CV₁₀₃, 13, 3, 65; 2000 CW₁₀₃, 14, 3, 8; 2000 CX₁₀₃, 25, 5, 11; 2000 CY₁₀₃, 20, 4, 11; 2000 CZ₁₀₃, 15, 3, 11; 2000 CA₁₀₄, 24, 5, 11; 2000 CB₁₀₄, 15, 3, 11; 2000 CC₁₀₄, 22, 5, 11; 2000 CD₁₀₄, 19, 4, 11; 2000 CE₁₀₄, 25, 5, 11; 2000 CF₁₀₄, 18, 4, 12; 2000 CG₁₀₄, 10, 2, 7; 2000 CH₁₀₄, 20, 4,

2000 MAR. 20

M.P.C. 39005

18, 4, 38; 2000 DO₁₃ *, 9, 2, 3; 2000 DP₁₃ *, 9, 2, 3; 2000 DQ₁₃ *, 18, 4, 34; 2000 DR₁₃ *, 15, 3, 11; 2000 DT₁₃ *, 13, 3, 11; 2000 DU₁₃ *, 4, 1, 0; 2000 DV₁₃ *, 15, 3, 11; 2000 DW₁₃ *, 5, 1, 0; 2000 DX₁₃ *, 4, 1, 0; 2000 DY₁₃ *, 9, 2, 3; 2000 DZ₁₃ *, 10, 2, 3; 2000 DA₁₄ *, 4, 1, 0; 2000 DB₁₄ *, 14, 3, 11; 2000 DD₁₄ *, 9, 2, 3; 2000 DE₁₄ *, 5, 1, 0; 2000 DF₁₄ *, 9, 2, 3; 2000 DG₁₄ *, 9, 2, 3; 2000 DH₁₄ *, 4, 1, 0; 2000 DI₁₄ *, 5, 1, 0; 2000 DK₁₄ *, 20, 4, 8; 2000 DL₁₄ *, 7, 2, 3; 2000 DM₁₄ *, 19, 4, 37; 2000 DN₁₄ *, 20, 4, 37; 2000 DO₁₄ *, 25, 5, 37; 2000 DP₁₄ *, 15, 3, 12; 2000 DQ₁₄ *, 24, 5, 37; 2000 DR₁₄ *, 24, 5, 37; 2000 DS₁₄ *, 25, 5, 37; 2000 DT₁₄ *, 29, 7, 64; 2000 DU₁₄ *, 24, 5, 37; 2000 DV₁₄ *, 8, 2, 30; 2000 DX₁₄ *, 14, 3, 30; 2000 DY₁₄ *, 14, 3, 64; 2000 DZ₁₄ *, 15, 3, 11; 2000 DC₁₅ *, 21, 5, 63; 2000 DD₁₅ *, 17, 4, 64; 2000 DE₁₅ *, 10, 2, 30; 2000 DG₁₅ *, 8, 2, 30; 2000 DJ₁₅ *, 10, 2, 30; 2000 DK₁₅ *, 12, 3, 30; 2000 DL₁₅ *, 5, 1, 0; 2000 DM₁₅ *, 5, 1, 0; 2000 DN₁₅ *, 12, 3, 30; 2000 DO₁₅ *, 10, 2, 30; 2000 DS₁₅ *, 20, 4, 30; 2000 DT₁₅ *, 11, 3, 30; 2000 DU₁₅ *, 18, 4, 11; 2000 DV₁₅ *, 9, 2, 3; 2000 DW₁₅ *, 14, 3, 29; 2000 DX₁₅ *, 5, 1, 0; 2000 DY₁₅ *, 5, 1, 0; 2000 DA₁₆ *, 5, 1, 0; 2000 DB₁₆ *, 17, 4, 29; 2000 DC₁₆ *, 27, 6, 71; 2000 DD₁₆ *, 9, 2, 4; 2000 DE₁₆ *, 17, 3, 3; 2000 DF₁₆ *, 4, 1, 0; 2000 DG₁₆ *, 13, 3, 451; 2000 DH₁₆ *, 12, 3, 31; 2000 DI₁₆ *, 9, 2, 1; 2000 DK₁₆ *, 9, 2, 1; 2000 DL₁₆ *, 10, 2, 1; 2000 DM₁₆ *, 5, 1, 0; 2000 DO₁₆ *, 9, 2, 3; 2000 DP₁₆ *, 14, 3, 11; 2000 DQ₁₆ *, 15, 3, 11; 2000 DR₁₆ *, 10, 2, 3; 2000 DS₁₆ *, 10, 2, 3; 2000 DT₁₆ *, 10, 2, 3; 2000 DU₁₆ *, 10, 2, 3; 2000 DV₁₆ *, 10, 2, 3; 2000 DW₁₆ *, 9, 2, 3; 2000 DX₁₆ *, 9, 2, 3; 2000 DY₁₆ *, 8, 2, 3; 2000 DZ₁₆ *, 48, 10, 36; 2000 DA₁₇ *, 9, 2, 3; 2000 DB₁₇ *, 9, 2, 3; 2000 DC₁₇ *, 9, 2, 3; 2000 DD₁₇ *, 14, 3, 11; 2000 DE₁₇ *, 8, 2, 3; 2000 DF₁₇ *, 19, 4, 12; 2000 DG₁₇ *, 13, 3, 11; 2000 DH₁₇ *, 9, 2, 3; 2000 DI₁₇ *, 29, 6, 36; 2000 DK₁₇ *, 9, 2, 3; 2000 DL₁₇ *, 14, 3, 11; 2000 DM₁₇ *, 8, 2, 3; 2000 DN₁₇ *, 9, 2, 3; 2000 DO₁₇ *, 14, 3, 11; 2000 DP₁₇ *, 22, 4, 11; 2000 DQ₁₇ *, 8, 2, 3; 2000 DR₁₇ *, 9, 2, 3; 2000 DS₁₇ *, 8, 2, 3; 2000 DT₁₇ *, 14, 3, 11; 2000 DX₁₇ *, 13, 3, 32; 2000 DA₁₈ *, 9, 2, 3; 2000 DB₁₈ *, 30, 6, 37; 2000 DC₁₈ *, 12, 3, 10; 2000 DE₁₈ *, 36, 8, 37; 2000 DF₁₈ *, 22, 6, 27; 2000 DG₁₈ *, 28, 6, 34; 2000 DH₁₈ *, 17, 4, 12; 2000 DI₁₈ *, 12, 3, 6; 2000 DJ₁₈ *, 8, 2, 4; 2000 DK₁₈ *, 16, 4, 23; 2000 DL₁₈ *, 14, 3, 6; 2000 DM₁₈ *, 27, 6, 29; 2000 DN₁₈ *, 17, 4, 6; 2000 DO₁₈ *, 18, 4, 6; 2000 DP₁₈ *, 8, 2, 4; 2000 DQ₁₈ *, 10, 2, 3; 2000 DR₁₈ *, 14, 3, 5; 2000 DS₁₈ *, 9, 2, 3; 2000 DT₁₈ *, 10, 2, 3; 2000 DU₁₈ *, 11, 3, 5; 2000 DV₁₈ *, 10, 2, 3; 2000 DW₁₈ *, 23, 5, 30; 2000 DX₁₈ *, 26, 6, 58; 2000 DY₁₈ *, 8, 2, 3; 2000 DZ₁₈ *, 8, 2, 3; 2000 DA₁₉ *, 22, 5, 6; 2000 DB₁₉ *, 20, 3, 5; 2000 DC₁₉ *, 8, 2, 3; 2000 DD₁₉ *, 9, 2, 3; 2000 DE₁₉ *, 16, 3, 4; 2000 DF₁₉ *, 9, 2, 3; 2000 DG₁₉ *, 9, 2, 3; 2000 DH₁₉ *, 15, 3, 5; 2000 DI₁₉ *, 9, 2, 3; 2000 DJ₁₉ *, 14, 3, 5; 2000 DK₁₉ *, 14, 3, 5; 2000 DL₁₉ *, 22, 5, 26; 2000 DM₁₉ *, 32, 7, 34; 2000 DN₁₉ *, 20, 4, 6; 2000 DO₁₉ *, 18, 4, 9; 2000 DP₁₉ *, 12, 3, 5; 2000 DQ₁₉ *, 31, 7, 62; 2000 DR₁₉ *, 10, 2, 3; 2000 DS₁₉ *, 24, 6, 35; 2000 DT₁₉ *, 23, 5, 9; 2000 DU₁₉ *, 15, 3, 5; 2000 DV₁₉ *, 9, 2, 3; 2000 DW₁₉ *, 29, 5, 26; 2000 DX₁₉ *, 14, 3, 9; 2000 DY₁₉ *, 20, 4, 9; 2000 DZ₁₉ *, 13, 3, 5; 2000 DA₂₀ *, 10, 2, 3; 2000 DB₂₀ *, 15, 3, 5; 2000 DC₂₀ *, 9, 2, 3; 2000 DD₂₀ *, 8, 2, 3; 2000 DE₂₀ *, 8, 2, 3; 2000 DF₂₀ *, 8, 2, 3; 2000 DG₂₀ *, 8, 2, 3; 2000 DH₂₀ *, 10, 2, 3; 2000 DI₂₀ *, 10, 2, 3; 2000 DJ₂₀ *, 12, 3, 5; 2000 DK₂₀ *, 12, 3, 5; 2000 DL₂₀ *, 10, 2, 3; 2000 DM₂₀ *, 8, 2, 3; 2000 DN₂₀ *, 8, 2, 3; 2000 DO₂₀ *, 8, 2, 3; 2000 DP₂₀ *, 14, 3, 5; 2000 DQ₂₀ *, 15, 3, 5; 2000 DR₂₀ *, 12, 3, 5; 2000 DS₂₀ *, 7, 2, 3; 2000 DT₂₀ *, 9, 2, 3; 2000 DU₂₀ *, 9, 2, 3; 2000 DV₂₀ *, 13, 3, 9; 2000 DW₂₀ *, 7, 2, 3; 2000 DX₂₀ *, 11, 3, 4; 2000 DY₂₀ *, 17, 4, 8; 2000 DZ₂₀ *, 8, 2, 3; 2000 DA₂₁ *, 14, 3, 5; 2000 DB₂₁ *, 10, 2, 3; 2000 DC₂₁ *, 24, 5, 30; 2000 DD₂₁ *, 31, 6, 27; 2000 DE₂₁ *, 10, 2, 3; 2000 DF₂₁ *, 10, 2, 3; 2000 DG₂₁ *, 15, 4, 9; 2000 DH₂₁ *, 19, 4, 9; 2000 DI₂₁ *, 20, 4, 32; 2000 DJ₂₁ *, 18, 4, 31; 2000 DK₂₁ *, 9, 2, 3; 2000 DL₂₁ *, 9, 2, 3; 2000 DM₂₁ *, 18, 4, 9; 2000 DN₂₁ *, 15, 3, 5; 2000 DO₂₁ *, 28, 6, 38; 2000 DP₂₁ *, 14, 3, 5; 2000 DQ₂₁ *, 15, 3, 5; 2000 DR₂₁ *, 9, 2, 3; 2000 DS₂₁ *, 6, 2, 3; 2000 DT₂₁ *, 7, 2, 3; 2000 DU₂₁ *, 23, 5, 34; 2000 DV₂₁ *, 19, 4, 32; 2000 DW₂₁ *, 13, 3, 5; 2000 DX₂₁ *, 13, 3, 5; 2000 DY₂₁ *, 8, 2, 3; 2000 DZ₂₁ *, 9, 2, 3; 2000 DA₂₂ *, 9, 2, 3; 2000 DB₂₂ *, 6, 2, 3; 2000 DC₂₂ *, 19, 4, 31; 2000 DD₂₂ *, 7, 2, 3; 2000 DE₂₂ *, 9, 2, 3; 2000 DF₂₂ *, 9, 2, 3; 2000 DG₂₂ *, 7, 2, 3; 2000 DH₂₂ *, 6, 2, 3; 2000 DI₂₂ *, 7, 2, 3; 2000 DJ₂₂ *, 8, 2, 3; 2000 DK₂₂ *, 8, 2, 3; 2000 DL₂₂ *, 7, 2, 3; 2000 DM₂₂ *, 7, 2, 3; 2000 DN₂₂ *, 14, 3, 4; 2000 DO₂₂ *, 9, 2, 3; 2000 DP₂₂ *, 7, 2, 3; 2000 DQ₂₂ *, 12, 3, 9; 2000 DR₂₂ *, 6, 2, 3; 2000 DS₂₂ *, 7, 2, 3; 2000 DT₂₂ *, 7, 2, 3; 2000 DU₂₂ *, 11, 3, 5; 2000 DV₂₂ *, 6, 2, 3; 2000 DW₂₂ *, 21, 5, 11; 2000 DX₂₂ *, 8, 2, 3; 2000 DY₂₂ *, 24, 6, 11; 2000 DZ₂₂ *, 7, 2, 3; 2000 DA₂₃ *, 9, 2, 3; 2000 DB₂₃ *, 29, 7, 37; 2000 DC₂₃ *, 9, 2, 3; 2000 DD₂₃ *, 33, 7, 37; 2000 DE₂₃ *, 8, 2, 3; 2000 DF₂₃ *, 12, 3, 5; 2000 DG₂₃ *, 10, 2, 3; 2000 DH₂₃ *, 14, 3, 5; 2000 DI₂₃ *, 14, 3, 5; 2000 DJ₂₃ *, 12, 3, 5; 2000 DK₂₃ *, 12, 3, 5; 2000 DL₂₃ *, 9, 2, 3; 2000 DM₂₃ *, 10, 2, 3; 2000 DN₂₃ *, 15, 3, 5; 2000 DO₂₃ *, 7, 2, 3; 2000 DP₂₃ *, 7, 2, 3; 2000 DQ₂₃ *, 19, 4, 9; 2000 DR₂₃ *, 8, 2, 3; 2000 DS₂₃ *, 25, 6, 11; 2000 DT₂₃ *, 11, 3, 4; 2000 DU₂₃ *, 24, 5, 11; 2000 DV₂₃ *, 23, 5, 28; 2000 DW₂₃ *, 14, 3, 5; 2000 DX₂₃ *, 17, 4, 11; 2000 DY₂₃ *, 14, 3, 5; 2000 DZ₂₃ *, 23, 5, 28; 2000 DA₂₄ *, 9, 2, 3; 2000 DB₂₄ *, 23, 5, 28; 2000 DC₂₄ *, 14, 3, 5; 2000 DD₂₄ *, 19, 4, 11; 2000 DE₂₄ *, 9, 2, 3; 2000 DF₂₄ *, 27, 6, 36; 2000 DG₂₄ *, 29, 6, 37; 2000 DH₂₄ *, 29, 6, 29; 2000 DI₂₄ *, 10, 2, 3; 2000 DJ₂₄ *, 13, 3, 9; 2000 DK₂₄ *, 14, 3, 11; 2000 DL₂₄ *, 7, 2, 3; 2000 DM₂₄ *, 13, 3, 9; 2000 DN₂₄ *, 21, 5, 6; 2000 DO₂₄ *, 23, 5, 11; 2000 DP₂₄ *, 9, 2, 3; 2000 DQ₂₄ *, 17, 4, 11; 2000 DS₂₄ *, 10, 2, 3; 2000 DT₂₄ *, 11, 3, 5; 2000 DU₂₄ *, 13, 3, 5; 2000 DV₂₄ *, 34, 7, 37; 2000 DW₂₄ *, 26, 6, 29; 2000 DX₂₄ *, 8, 2, 3; 2000 DY₂₄ *, 21, 5, 11; 2000 DZ₂₄ *, 30, 7, 38; 2000 DA₂₅ *, 21, 5, 11; 2000 DB₂₅ *, 34, 7, 32; 2000 DC₂₅ *, 17, 4, 5; 2000 DD₂₅ *, 20, 4, 11; 2000 DE₂₅ *, 15, 4, 11; 2000 DF₂₅ *, 8, 2, 3; 2000 DG₂₅ *, 18, 4, 11; 2000 DH₂₅ *, 22, 5, 38; 2000 DI₂₅ *, 8, 2, 3; 2000 DK₂₅ *, 18, 4, 38; 2000 DL₂₅ *, 10, 2, 3; 2000 DM₂₅ *, 10, 2, 3; 2000 DN₂₅ *, 9,

2, 3; 2000 DO₂₅ *, 20, 4, 38; 2000 DP₂₅ *, 7, 2, 3; 2000 DQ₂₅ *, 16, 4, 32; 2000 DR₂₅ *, 29, 7, 38; 2000 DS₂₅ *, 39, 8, 64; 2000 DT₂₅ *, 28, 6, 29; 2000 DU₂₅ *, 8, 2, 3; 2000 DV₂₅ *, 11, 3, 11; 2000 DW₂₅ *, 18, 4, 11; 2000 DX₂₅ *, 20, 4, 9; 2000 DY₂₅ *, 6, 2, 3; 2000 DZ₂₅ *, 45, 10, 116; 2000 DA₂₆ *, 11, 3, 5; 2000 DB₂₆ *, 9, 2, 3; 2000 DC₂₆ *, 20, 4, 11; 2000 DD₂₆ *, 8, 2, 3; 2000 DE₂₆ *, 28, 6, 9; 2000 DF₂₆ *, 19, 4, 29; 2000 DG₂₆ *, 14, 4, 11; 2000 DH₂₆ *, 16, 4, 5; 2000 DI₂₆ *, 16, 4, 11; 2000 DJ₂₆ *, 23, 5, 11; 2000 DK₂₆ *, 18, 5, 23; 2000 DL₂₆ *, 12, 3, 5; 2000 DM₂₆ *, 12, 3, 30; 2000 DN₂₆ *, 14, 3, 5; 2000 DO₂₆ *, 12, 3, 5; 2000 DP₂₆ *, 12, 3, 5; 2000 DQ₂₆ *, 12, 3, 5; 2000 DR₂₆ *, 11, 3, 5; 2000 DS₂₆ *, 18, 4, 11; 2000 DT₂₆ *, 28, 5, 11; 2000 DU₂₆ *, 17, 4, 11; 2000 DV₂₆ *, 9, 2, 3; 2000 DW₂₆ *, 18, 4, 5; 2000 DX₂₆ *, 10, 3, 11; 2000 DY₂₆ *, 29, 6, 38; 2000 DZ₂₆ *, 14, 3, 5; 2000 DA₂₇ *, 20, 4, 11; 2000 DB₂₇ *, 14, 3, 5; 2000 DC₂₇ *, 9, 2, 3; 2000 DE₂₇ *, 10, 2, 3; 2000 DF₂₇ *, 12, 3, 11; 2000 DG₂₇ *, 8, 2, 3; 2000 DH₂₇ *, 20, 4, 38; 2000 DI₂₇ *, 8, 2, 3; 2000 DJ₂₇ *, 8, 2, 3; 2000 DK₂₇ *, 22, 5, 38; 2000 DL₂₇ *, 13, 3, 6; 2000 DM₂₇ *, 10, 2, 3; 2000 DN₂₇ *, 12, 3, 6; 2000 DO₂₇ *, 10, 2, 3; 2000 DP₂₇ *, 8, 2, 3; 2000 DQ₂₇ *, 12, 3, 5; 2000 DR₂₇ *, 8, 2, 3; 2000 DS₂₇ *, 21, 5, 11; 2000 DT₂₇ *, 15, 3, 11; 2000 DU₂₇ *, 7, 2, 3; 2000 DV₂₇ *, 18, 4, 11; 2000 DW₂₇ *, 17, 4, 23; 2000 DX₂₇ *, 8, 2, 3; 2000 DY₂₇ *, 24, 5, 11; 2000 DZ₂₇ *, 28, 6, 29; 2000 DA₂₈ *, 19, 4, 11; 2000 DB₂₈ *, 18, 4, 11; 2000 DC₂₈ *, 13, 3, 5; 2000 DD₂₈ *, 8, 2, 3; 2000 DE₂₈ *, 17, 4, 9; 2000 DF₂₈ *, 20, 5, 11; 2000 DG₂₈ *, 11, 3, 5; 2000 DH₂₈ *, 31, 7, 11; 2000 DI₂₈ *, 10, 2, 3; 2000 DJ₂₈ *, 8, 2, 3; 2000 DK₂₈ *, 8, 2, 3; 2000 DL₂₈ *, 13, 3, 5; 2000 DM₂₈ *, 32, 7, 29; 2000 DN₂₈ *, 19, 4, 11; 2000 DO₂₈ *, 23, 5, 36; 2000 DP₂₈ *, 19, 4, 11; 2000 DQ₂₈ *, 8, 2, 3; 2000 DR₂₈ *, 14, 3, 5; 2000 DS₂₈ *, 12, 3, 5; 2000 DT₂₈ *, 18, 4, 11; 2000 DU₂₈ *, 18, 4, 11; 2000 DV₂₈ *, 10, 2, 3; 2000 DW₂₈ *, 19, 4, 26; 2000 DX₂₈ *, 11, 3, 11; 2000 DY₂₈ *, 14, 3, 5; 2000 DZ₂₈ *, 37, 8, 36; 2000 DA₂₉ *, 6, 2, 3; 2000 DB₂₉ *, 27, 6, 11; 2000 DC₂₉ *, 33, 7, 38; 2000 DD₂₉ *, 26, 6, 470; 2000 DE₂₉ *, 22, 5, 11; 2000 DF₂₉ *, 23, 5, 36; 2000 DG₂₉ *, 8, 2, 3; 2000 DH₂₉ *, 9, 2, 3; 2000 DI₂₉ *, 20, 4, 11; 2000 DJ₂₉ *, 20, 4, 11; 2000 DK₂₉ *, 13, 3, 21; 2000 DL₂₉ *, 13, 3, 21; 2000 DM₂₉ *, 13, 3, 5; 2000 DN₂₉ *, 10, 2, 3; 2000 DO₂₉ *, 8, 2, 3; 2000 DP₂₉ *, 9, 2, 3; 2000 DQ₂₉ *, 14, 3, 5; 2000 DR₂₉ *, 8, 2, 3; 2000 DT₂₉ *, 19, 4, 11; 2000 DU₂₉ *, 17, 4, 32; 2000 DV₂₉ *, 18, 4, 11; 2000 DW₂₉ *, 14, 4, 11; 2000 DX₂₉ *, 41, 8, 11; 2000 DY₂₉ *, 19, 4, 9; 2000 DZ₂₉ *, 8, 2, 3; 2000 DA₃₀ *, 18, 4, 9; 2000 DB₃₀ *, 13, 3, 5; 2000 DC₃₀ *, 9, 2, 3; 2000 DD₃₀ *, 18, 4, 11; 2000 DE₃₀ *, 28, 6, 11; 2000 DF₃₀ *, 15, 3, 4; 2000 DG₃₀ *, 19, 4, 11; 2000 DH₃₀ *, 30, 6, 38; 2000 DI₃₀ *, 22, 5, 36; 2000 DJ₃₀ *, 15, 3, 9; 2000 DK₃₀ *, 10, 2, 3; 2000 DL₃₀ *, 18, 4, 11; 2000 DM₃₀ *, 10, 2, 3; 2000 DN₃₀ *, 9, 2, 3; 2000 DO₃₀ *, 14, 3, 9; 2000 DP₃₀ *, 9, 2, 3; 2000 DQ₃₀ *, 10, 2, 3; 2000 DR₃₀ *, 10, 2, 3; 2000 DS₃₀ *, 15, 3, 11; 2000 DT₃₀ *, 10, 2, 3; 2000 DU₃₀ *, 14, 3, 11; 2000 DV₃₀ *, 10, 2, 3; 2000 DW₃₀ *, 10, 2, 3; 2000 DX₃₀ *, 10, 2, 3; 2000 DY₃₀ *, 8, 2, 3; 2000 DZ₃₀ *, 15, 3, 11; 2000 DA₃₁ *, 15, 3, 11; 2000 DB₃₁ *, 8, 2, 3; 2000 DC₃₁ *, 8, 2, 3; 2000 DD₃₁ *, 17, 4, 6; 2000 DE₃₁ *, 12, 3, 4; 2000 DF₃₁ *, 9, 2, 3; 2000 DG₃₁ *, 14, 3, 11; 2000 DH₃₁ *, 11, 3, 5; 2000 DI₃₁ *, 11, 3, 4; 2000 DJ₃₁ *, 27, 6, 11; 2000 DK₃₁ *, 7, 2, 3; 2000 DL₃₁ *, 8, 2, 3; 2000 DN₃₁ *, 13, 3, 11; 2000 DO₃₁ *, 16, 4, 24; 2000 DP₃₁ *, 7, 2, 3; 2000 DQ₃₁ *, 9, 2, 3; 2000 DR₃₁ *, 9, 2, 3; 2000 DS₃₁ *, 7, 2, 3; 2000 DT₃₁ *, 8, 2, 3; 2000 DU₃₁ *, 9, 3, 9; 2000 DV₃₁ *, 16, 4, 9; 2000 DW₃₁ *, 6, 2, 3; 2000 DX₃₁ *, 7, 2, 3; 2000 DY₃₁ *, 7, 2, 3; 2000 DZ₃₁ *, 6, 2, 3; 2000 DA₃₂ *, 8, 2, 3; 2000 DB₃₂ *, 7, 2, 3; 2000 DC₃₂ *, 7, 2, 3; 2000 DD₃₂ *, 7, 2, 3; 2000 DE₃₂ *, 14, 3, 5; 2000 DF₃₂ *, 18, 4, 11; 2000 DG₃₂ *, 13, 3, 5; 2000 DH₃₂ *, 10, 2, 3; 2000 DI₃₂ *, 8, 2, 3; 2000 DJ₃₂ *, 8, 2, 3; 2000 DK₃₂ *, 25, 5, 11; 2000 DL₃₂ *, 17, 4, 11; 2000 DN₃₂ *, 10, 2, 3; 2000 DO₃₂ *, 17, 4, 11; 2000 DP₃₂ *, 20, 4, 5; 2000 DQ₃₂ *, 14, 3, 11; 2000 DR₃₂ *, 15, 3, 11; 2000 DS₃₂ *, 8, 2, 3; 2000 DT₃₂ *, 14, 3, 4; 2000 DU₃₂ *, 20, 4, 11; 2000 DV₃₂ *, 14, 3, 4; 2000 DW₃₂ *, 15, 3, 4; 2000 DX₃₂ *, 19, 4, 11; 2000 DY₃₂ *, 15, 3, 4; 2000 DZ₃₂ *, 7, 2, 3; 2000 DA₃₃ *, 18, 4, 11; 2000 DB₃₃ *, 17, 4, 5; 2000 DC₃₃ *, 10, 2, 3; 2000 DD₃₃ *, 9, 2, 3; 2000 DE₃₃ *, 27, 6, 38; 2000 DF₃₃ *, 18, 5, 28; 2000 DG₃₃ *, 12, 3, 4; 2000 DH₃₃ *, 30, 7, 34; 2000 DI₃₃ *, 31, 6, 11;

28, 6, 36; 2000 DO₃₆ *, 15, 3, 5; 2000 DP₃₆ *, 7, 2, 3; 2000 DQ₃₆ *, 8, 2, 3; 2000 DR₃₆ *, 9, 2, 3; 2000 DS₃₆ *, 9, 2, 3; 2000 DT₃₆ *, 12, 2, 3; 2000 DU₃₆ *, 18, 4, 29; 2000 DV₃₆ *, 15, 2, 3; 2000 DW₃₆ *, 9, 2, 3; 2000 DX₃₆ *, 19, 4, 11; 2000 DY₃₆ *, 12, 3, 5; 2000 DZ₃₆ *, 10, 2, 3; 2000 DA₃₇ *, 8, 2, 3; 2000 DB₃₇ *, 19, 4, 11; 2000 DC₃₇ *, 11, 3, 5; 2000 DD₃₇ *, 14, 3, 5; 2000 DE₃₇ *, 25, 5, 30; 2000 DF₃₇ *, 8, 2, 3; 2000 DG₃₇ *, 19, 4, 11; 2000 DH₃₇ *, 7, 2, 3; 2000 DJ₃₇ *, 13, 3, 5; 2000 DK₃₇ *, 14, 3, 11; 2000 DL₃₇ *, 29, 7, 30; 2000 DM₃₇ *, 10, 2, 3; 2000 DN₃₇ *, 22, 5, 6; 2000 DO₃₇ *, 9, 2, 3; 2000 DP₃₇ *, 13, 3, 11; 2000 DQ₃₇ *, 14, 3, 11; 2000 DR₃₇ *, 8, 2, 3; 2000 DS₃₇ *, 9, 2, 3; 2000 DT₃₇ *, 9, 2, 3; 2000 DU₃₇ *, 15, 3, 11; 2000 DV₃₇ *, 10, 2, 3; 2000 DW₃₇ *, 23, 5, 29; 2000 DX₃₇ *, 8, 2, 3; 2000 DY₃₇ *, 13, 3, 11; 2000 DZ₃₇ *, 18, 4, 11; 2000 DA₃₈ *, 10, 2, 3; 2000 DB₃₈ *, 18, 4, 36; 2000 DC₃₈ *, 24, 5, 11; 2000 DD₃₈ *, 10, 2, 3; 2000 DE₃₈ *, 14, 3, 11; 2000 DF₃₈ *, 13, 3, 5; 2000 DG₃₈ *, 32, 7, 38; 2000 DH₃₈ *, 10, 2, 3; 2000 DJ₃₈ *, 22, 5, 11; 2000 DK₃₈ *, 10, 2, 3; 2000 DL₃₈ *, 22, 5, 29; 2000 DM₃₈ *, 16, 4, 11; 2000 DN₃₈ *, 7, 2, 3; 2000 DO₃₈ *, 24, 5, 11; 2000 DP₃₈ *, 20, 4, 11; 2000 DQ₃₈ *, 16, 4, 5; 2000 DR₃₈ *, 22, 5, 11; 2000 DS₃₈ *, 17, 4, 11; 2000 DT₃₈ *, 14, 3, 11; 2000 DU₃₈ *, 15, 3, 11; 2000 DV₃₈ *, 7, 2, 3; 2000 DW₃₈ *, 14, 3, 11; 2000 DX₃₈ *, 12, 3, 11; 2000 DY₃₈ *, 10, 2, 3; 2000 DZ₃₈ *, 13, 3, 11; 2000 DA₃₉ *, 19, 4, 11; 2000 DB₃₉ *, 17, 4, 11; 2000 DC₃₉ *, 20, 3, 11; 2000 DD₃₉ *, 10, 2, 3; 2000 DE₃₉ *, 9, 2, 3; 2000 DF₃₉ *, 24, 5, 28; 2000 DG₃₉ *, 24, 5, 11; 2000 DH₃₉ *, 18, 4, 5; 2000 DJ₃₉ *, 9, 2, 3; 2000 DK₃₉ *, 20, 4, 5; 2000 DL₃₉ *, 7, 2, 3; 2000 DM₃₉ *, 12, 3, 11; 2000 DN₃₉ *, 8, 2, 3; 2000 DO₃₉ *, 10, 2, 3; 2000 DP₃₉ *, 20, 4, 11; 2000 DQ₃₉ *, 9, 2, 3; 2000 DR₃₉ *, 9, 2, 3; 2000 DS₃₉ *, 13, 3, 9; 2000 DT₃₉ *, 13, 3, 11; 2000 DU₃₉ *, 9, 2, 3; 2000 DV₃₉ *, 8, 2, 3; 2000 DW₃₉ *, 15, 3, 11; 2000 DX₃₉ *, 14, 3, 11; 2000 DY₃₉ *, 12, 3, 11; 2000 DZ₃₉ *, 14, 2, 3; 2000 DA₄₀ *, 8, 2, 3; 2000 DB₄₀ *, 39, 7, 473; 2000 DC₄₀ *, 9, 2, 3; 2000 DD₄₀ *, 10, 2, 3; 2000 DE₄₀ *, 18, 4, 11; 2000 DF₄₀ *, 18, 4, 11; 2000 DG₄₀ *, 34, 7, 38; 2000 DH₄₀ *, 38, 8, 38; 2000 DJ₄₀ *, 24, 5, 11; 2000 DK₄₀ *, 33, 6, 11; 2000 DL₄₀ *, 9, 2, 3; 2000 DM₄₀ *, 24, 6, 11; 2000 DN₄₀ *, 20, 4, 11; 2000 DO₄₀ *, 23, 5, 11; 2000 DP₄₀ *, 18, 4, 11; 2000 DQ₄₀ *, 9, 2, 3; 2000 DR₄₀ *, 20, 4, 11; 2000 DS₄₀ *, 10, 2, 3; 2000 DT₄₀ *, 25, 5, 11; 2000 DU₄₀ *, 9, 2, 3; 2000 DV₄₀ *, 9, 2, 3; 2000 DW₄₀ *, 34, 7, 36; 2000 DX₄₀ *, 25, 5, 11; 2000 DY₄₀ *, 8, 2, 3; 2000 DZ₄₀ *, 7, 2, 3; 2000 DA₄₁ *, 15, 3, 11; 2000 DB₄₁ *, 10, 2, 3; 2000 DC₄₁ *, 10, 2, 3; 2000 DD₄₁ *, 15, 3, 11; 2000 DE₄₁ *, 18, 4, 29; 2000 DF₄₁ *, 9, 2, 3; 2000 DG₄₁ *, 12, 3, 11; 2000 DH₄₁ *, 14, 3, 11; 2000 DJ₄₁ *, 19, 4, 11; 2000 DK₄₁ *, 10, 2, 3; 2000 DL₄₁ *, 14, 3, 11; 2000 DM₄₁ *, 19, 3, 11; 2000 DN₄₁ *, 27, 6, 29; 2000 DO₄₁ *, 8, 2, 3; 2000 DP₄₁ *, 20, 4, 11; 2000 DQ₄₁ *, 15, 3, 5; 2000 DR₄₁ *, 18, 4, 11; 2000 DS₄₁ *, 27, 6, 30; 2000 DT₄₁ *, 14, 3, 5; 2000 DU₄₁ *, 10, 2, 3; 2000 DV₄₁ *, 9, 2, 3; 2000 DW₄₁ *, 17, 4, 11; 2000 DX₄₁ *, 20, 5, 11; 2000 DY₄₁ *, 10, 2, 3; 2000 DZ₄₁ *, 20, 4, 11; 2000 DA₄₂ *, 24, 5, 11; 2000 DB₄₂ *, 13, 3, 11; 2000 DC₄₂ *, 10, 2, 3; 2000 DD₄₂ *, 25, 5, 11; 2000 DE₄₂ *, 20, 4, 11; 2000 DF₄₂ *, 14, 3, 4; 2000 DG₄₂ *, 14, 3, 4; 2000 DH₄₂ *, 18, 4, 5; 2000 DJ₄₂ *, 19, 4, 11; 2000 DK₄₂ *, 26, 5, 11; 2000 DL₄₂ *, 19, 4, 11; 2000 DM₄₂ *, 17, 4, 11; 2000 DN₄₂ *, 10, 2, 3; 2000 DO₄₂ *, 15, 3, 11; 2000 DP₄₂ *, 18, 4, 11; 2000 DQ₄₂ *, 19, 4, 11; 2000 DR₄₂ *, 20, 4, 11; 2000 DS₄₂ *, 17, 4, 11; 2000 DT₄₂ *, 34, 7, 36; 2000 DU₄₂ *, 8, 2, 3; 2000 DV₄₂ *, 24, 5, 11; 2000 DW₄₂ *, 54, 11, 560; 2000 DX₄₂ *, 26, 6, 29; 2000 DY₄₂ *, 18, 4, 9; 2000 DZ₄₂ *, 27, 6, 29; 2000 DA₄₃ *, 18, 4, 9; 2000 DB₄₃ *, 19, 4, 11; 2000 DC₄₃ *, 21, 5, 11; 2000 DD₄₃ *, 17, 4, 11; 2000 DE₄₃ *, 7, 2, 3; 2000 DF₄₃ *, 20, 4, 11; 2000 DG₄₃ *, 20, 4, 11; 2000 DH₄₃ *, 20, 4, 9; 2000 DJ₄₃ *, 8, 2, 3; 2000 DK₄₃ *, 9, 2, 3; 2000 DL₄₃ *, 18, 4, 11; 2000 DM₄₃ *, 18, 4, 11; 2000 DN₄₃ *, 8, 2, 3; 2000 DO₄₃ *, 23, 5, 11; 2000 DP₄₃ *, 11, 3, 9; 2000 DQ₄₃ *, 9, 2, 3; 2000 DR₄₃ *, 18, 4, 11; 2000 DS₄₃ *, 16, 3, 5; 2000 DT₄₃ *, 9, 2, 3; 2000 DU₄₃ *, 9, 2, 3; 2000 DV₄₃ *, 11, 3, 11; 2000 DW₄₃ *, 20, 4, 11; 2000 DX₄₃ *, 15, 3, 11; 2000 DY₄₃ *, 10, 2, 3; 2000 DZ₄₃ *, 9, 2, 3; 2000 DA₄₄ *, 8, 2, 3; 2000 DB₄₄ *, 10, 2, 3; 2000 DC₄₄ *, 10, 2, 3; 2000 DD₄₄ *, 20, 4, 11; 2000 DE₄₄ *, 15, 3, 11; 2000 DF₄₄ *, 15, 3, 11; 2000 DG₄₄ *, 13, 3, 4; 2000 DH₄₄ *, 19, 4, 38; 2000 DJ₄₄ *, 15, 3, 11; 2000 DK₄₄ *, 10, 2, 3; 2000 DL₄₄ *, 9, 2, 3; 2000 DM₄₄ *, 10, 2, 3; 2000 DN₄₄ *, 10, 2, 3; 2000 DO₄₄ *, 9, 2, 3; 2000 DP₄₄ *, 9, 2, 3; 2000 DQ₄₄ *, 8, 2, 3; 2000 DR₄₄ *, 10, 2, 3; 2000 DS₄₄ *, 9, 2, 3; 2000 DT₄₄ *, 13, 3, 11; 2000 DU₄₄ *, 9, 2, 3; 2000 DV₄₄ *, 15, 3, 11; 2000 DW₄₄ *, 10, 2, 3; 2000 DX₄₄ *, 14, 3, 11; 2000 DY₄₄ *, 14, 3, 11; 2000 DZ₄₄ *, 14, 3, 11; 2000 DA₄₅ *, 10, 2, 3; 2000 DB₄₅ *, 13, 3, 11; 2000 DC₄₅ *, 14, 3, 11; 2000 DD₄₅ *, 10, 2, 3; 2000 DE₄₅ *, 10, 2, 3; 2000 DF₄₅ *, 7, 2, 3; 2000 DG₄₅ *, 10, 2, 3; 2000 DH₄₅ *, 9, 2, 3; 2000 DJ₄₅ *, 9, 2, 3; 2000 DK₄₅ *, 15, 3, 11; 2000 DL₄₅ *, 9, 2, 3; 2000 DM₄₅ *, 7, 2, 3; 2000 DN₄₅ *, 13, 3, 11; 2000 DO₄₅ *, 18, 4, 34; 2000 DP₄₅ *, 13, 3, 11; 2000 DQ₄₅ *, 9, 2, 3; 2000 DR₄₅ *, 14, 3, 11; 2000 DS₄₅ *, 8, 2, 3; 2000 DT₄₅ *, 13, 3, 11; 2000 DU₄₅ *, 9, 2, 3; 2000 DV₄₅ *, 12, 3, 11; 2000 DW₄₅ *, 10, 2, 3; 2000 DX₄₅ *, 10, 2, 3; 2000 DY₄₅ *, 14, 3, 11; 2000 DZ₄₅ *, 7, 2, 3; 2000 DA₄₆ *, 10, 2, 3; 2000 DB₄₆ *, 15, 3, 11; 2000 DC₄₆ *, 9, 2, 3; 2000 DD₄₆ *, 14, 3, 11; 2000 DE₄₆ *, 10, 2, 3; 2000 DF₄₆ *, 10, 2, 3; 2000 DG₄₆ *, 15, 3, 11; 2000 DH₄₆ *, 12, 3, 11; 2000 DJ₄₆ *, 10, 2, 3; 2000 DK₄₆ *, 9, 2, 3; 2000 DL₄₆ *, 8, 2, 3; 2000 DM₄₆ *, 7, 2, 3; 2000 DN₄₆ *, 15, 3, 11; 2000 DO₄₆ *, 10, 2, 3; 2000 DP₄₆ *, 14, 3, 11; 2000 DQ₄₆ *, 10, 2, 3; 2000 DR₄₆ *, 12, 3, 11; 2000 DS₄₆ *, 10, 2, 3; 2000 DT₄₆ *, 11, 3, 11; 2000 DU₄₆ *, 9, 2, 3; 2000 DV₄₆ *, 15, 3, 11; 2000 DW₄₆ *, 14, 3, 11; 2000 DX₄₆ *, 14, 3, 11; 2000 DY₄₆ *, 15, 3, 11; 2000 DZ₄₆ *, 13, 3, 11; 2000 DA₄₇ *, 10, 2, 3; 2000 DB₄₇ *, 14, 3, 11; 2000 DC₄₇ *, 15, 3, 11; 2000 DD₄₇ *, 14, 3, 11; 2000 DE₄₇ *, 12, 3, 11; 2000 DF₄₇ *, 9, 2, 3; 2000 DG₄₇ *, 9, 2, 3; 2000 DH₄₇ *, 10, 2, 3; 2000 DJ₄₇ *, 15, 3, 11; 2000 DK₄₇ *, 9,

2, 3; 2000 DL₄₇ *, 10, 2, 3; 2000 DM₄₇ *, 9, 2, 3; 2000 DN₄₇ *, 10, 2, 3; 2000 DO₄₇ *, 9, 2, 3; 2000 DP₄₇ *, 15, 3, 11; 2000 DQ₄₇ *, 10, 2, 3; 2000 DR₄₇ *, 19, 4, 11; 2000 DS₄₇ *, 13, 3, 11; 2000 DT₄₇ *, 14, 3, 11; 2000 DU₄₇ *, 7, 2, 3; 2000 DV₄₇ *, 12, 3, 11; 2000 DW₄₇ *, 9, 2, 3; 2000 DX₄₇ *, 15, 3, 11; 2000 DY₄₇ *, 10, 2, 3; 2000 DZ₄₇ *, 10, 2, 3; 2000 DA₄₈ *, 9, 2, 3; 2000 DB₄₈ *, 7, 2, 3; 2000 DC₄₈ *, 8, 2, 3; 2000 DD₄₈ *, 7, 2, 3; 2000 DE₄₈ *, 8, 2, 3; 2000 DF₄₈ *, 14, 3, 11; 2000 DG₄₈ *, 13, 3, 11; 2000 DH₄₈ *, 10, 2, 3; 2000 DJ₄₈ *, 15, 3, 11; 2000 DK₄₈ *, 16, 4, 6; 2000 DL₄₈ *, 14, 3, 11; 2000 DM₄₈ *, 15, 3, 11; 2000 DN₄₈ *, 15, 3, 11; 2000 DO₄₈ *, 7, 2, 3; 2000 DP₄₈ *, 8, 2, 3; 2000 DQ₄₈ *, 9, 2, 3; 2000 DR₄₈ *, 8, 2, 3; 2000 DS₄₈ *, 8, 2, 3; 2000 DT₄₈ *, 12, 3, 4; 2000 DU₄₈ *, 8, 2, 3; 2000 DV₄₈ *, 8, 2, 3; 2000 DW₄₈ *, 9, 2, 3; 2000 DX₄₈ *, 9, 2, 3; 2000 DY₄₈ *, 9, 2, 3; 2000 DZ₄₈ *, 9, 2, 3; 2000 DA₄₉ *, 13, 3, 5; 2000 DB₄₉ *, 9, 2, 3; 2000 DC₄₉ *, 8, 2, 3; 2000 DD₄₉ *, 9, 2, 3; 2000 DE₄₉ *, 9, 2, 3; 2000 DF₄₉ *, 13, 3, 5; 2000 DG₄₉ *, 9, 2, 3; 2000 DH₄₉ *, 8, 2, 3; 2000 DJ₄₉ *, 18, 4, 11; 2000 DK₄₉ *, 6, 2, 3; 2000 DL₄₉ *, 9, 2, 3; 2000 DM₄₉ *, 8, 2, 3; 2000 DN₄₉ *, 19, 5, 24; 2000 DO₄₉ *, 8, 2, 3; 2000 DP₄₉ *, 15, 4, 11; 2000 DQ₄₉ *, 7, 2, 3; 2000 DR₄₉ *, 8, 2, 3; 2000 DS₄₉ *, 9, 2, 3; 2000 DT₄₉ *, 8, 2, 3; 2000 DU₄₉ *, 11, 3, 11; 2000 DV₄₉ *, 18, 4, 5; 2000 DW₄₉ *, 9, 2, 3; 2000 DX₄₉ *, 7, 2, 3; 2000 DY₄₉ *, 7, 2, 3; 2000 DZ₄₉ *, 8, 2, 3; 2000 DA₅₀ *, 17, 4, 11; 2000 DB₅₀ *, 6, 2, 3; 2000 DC₅₀ *, 13, 3, 5; 2000 DD₅₀ *, 8, 2, 3; 2000 DE₅₀ *, 8, 2, 3; 2000 DF₅₀ *, 8, 2, 3; 2000 DG₅₀ *, 9, 2, 3; 2000 DH₅₀ *, 8, 2, 3; 2000 DJ₅₀ *, 9, 2, 3; 2000 DK₅₀ *, 12, 3, 11; 2000 DL₅₀ *, 6, 2, 3; 2000 DM₅₀ *, 7, 2, 3; 2000 DN₅₀ *, 8, 2, 3; 2000 DO₅₀ *, 8, 2, 3; 2000 DP₅₀ *, 13, 3, 11; 2000 DQ₅₀ *, 9, 2, 3; 2000 DR₅₀ *, 7, 2, 3; 2000 DS₅₀ *, 8, 2, 3; 2000 DT₅₀ *, 8, 2, 3; 2000 DU₅₀ *, 8, 2, 3; 2000 DV₅₀ *, 9, 2, 3; 2000 DW₅₀ *, 7, 2, 3; 2000 DX₅₀ *, 7, 2, 3; 2000 DY₅₀ *, 7, 2, 3; 2000 DZ₅₀ *, 10, 2, 3; 2000 DA₅₁ *, 10, 2, 3; 2000 DB₅₁ *, 17, 4, 11; 2000 DC₅₁ *, 8, 2, 3; 2000 DD₅₁ *, 26, 6, 11; 2000 DE₅₁ *, 23, 5, 11; 2000 DF₅₁ *, 19, 4, 11; 2000 DG₅₁ *, 18, 4, 11; 2000 DH₅₁ *, 21, 5, 11; 2000 DJ₅₁ *, 20, 5, 9; 2000 DK₅₁ *, 36, 8, 11; 2000 DL₅₁ *, 29, 7, 11; 2000 DM₅₁ *, 38, 9, 36; 2000 DN₅₁ *, 32, 7, 11; 2000 DO₅₁ *, 30, 6, 11; 2000 DP₅₁ *, 34, 8, 36; 2000 DQ₅₁ *, 7, 2, 3; 2000 DR₅₁ *, 13, 3, 4; 2000 DS₅₁ *, 14, 3, 11; 2000 DT₅₁ *, 32, 7, 29; 2000 DU₅₁ *, 13, 3, 11; 2000 DV₅₁ *, 7, 2, 3; 2000 DW₅₁ *, 15, 3, 11; 2000 DX₅₁ *, 13, 3, 11; 2000 DY₅₁ *, 13, 3, 11; 2000 DZ₅₁ *, 14, 3, 11; 2000 DA₅₂ *, 9, 2, 3; 2000 DB₅₂ *, 15, 3, 11; 2000 DC₅₂ *, 14, 3, 11; 2000 DD₅₂ *, 18, 4, 29; 2000 DE₅₂ *, 18, 4, 29; 2000 DF₅₂ *, 10, 2, 3; 2000 DG₅₂ *, 9, 2, 3; 2000 DH₅₂ *, 9, 2, 3; 2000 DJ₅₂ *, 21, 5, 97; 2000 DK₅₂ *, 8, 2, 3; 2000 DL₅₂ *, 13, 3, 11; 2000 DM₅₂ *, 9, 2, 3; 2000 DN₅₂ *, 12, 3, 11; 2000 DO₅₂ *, 12, 3, 11; 2000 DP₅₂ *, 14, 3, 11; 2000 DQ₅₂ *, 8, 2, 3; 2000 DR₅₂ *, 18, 4, 38; 2000 DS₅₂ *, 13, 3, 11; 2000 DT₅₂ *, 9, 2, 3; 2000 DU₅₂ *, 12, 3, 11; 2000 DV₅₂ *, 13, 3, 11; 2000 DW₅₂ *, 14, 3, 11; 2000 DX₅₂ *, 18, 4, 11; 2000 DY₅₂ *, 15, 3, 11; 2000 DZ₅₂ *, 12, 3, 11; 2000 DA₅₃ *, 14, 3, 11; 2000 DB₅₃ *, 13, 3, 11; 2000 DC₅₃ *, 13, 3, 11; 2000 DD₅₃ *, 9, 2, 3; 2000 DE₅₃ *, 14, 3, 11; 2000 DF₅₃ *, 9, 2, 3; 2000 DG₅₃ *, 14, 3, 11; 2000 DH₅₃ *, 14, 3, 11; 2000 DJ₅₃ *, 15, 3, 11; 2000 DK₅₃ *, 13, 3, 30; 2000 DL₅₃ *, 14, 3, 11; 2000 DM₅₃ *, 8, 2, 3; 2000 DQ₅₃ *, 14, 3, 11; 2000 DR₅₃ *, 16, 4, 34; 2000 DS₅₃ *, 14, 3, 11; 2000 DT₅₃ *, 13, 3, 11; 2000 DU₅₃ *, 8, 2, 3; 2000 DV₅₃ *, 17, 4, 38; 2000 DW₅₃ *, 26, 6, 453; 2000 DX₅₃ *, 8, 2, 3; 2000 DY₅₃ *, 13, 3, 11; 2000 DZ₅₃ *, 13, 3, 11; 2000 DA₅₄ *, 16, 4, 11; 2000 DB₅₄ *, 8, 2, 3; 2000 DC₅₄ *, 8, 2, 3; 2000 DD₅₄ *, 8, 2, 3; 2000 DE₅₄ *, 13, 3, 11; 2000 DF₅₄ *, 18, 4, 11; 2000 DG₅₄ *, 29, 6, 11; 2000 DH₅₄ *, 21, 5, 11; 2000 DJ₅₄ *, 17, 4, 11; 2000 DK₅₄ *, 17, 4, 11; 2000 DL₅₄ *, 27, 5, 11; 2000 DM₅₄ *, 15, 4, 11; 2000 DN₅₄ *, 19, 3, 9; 2000 DO₅₄ *, 23, 4, 11; 2000 DP₅₄ *, 28, 6, 11; 2000 DQ₅₄ *, 21, 5, 11; 2000 DR₅₄ *, 13, 3, 9; 2000 DS₅₄ *, 29, 7, 34; 2000 DT₅₄ *, 16, 4, 9; 2000 DU₅₄ *, 18, 4, 11; 2000 DV₅₄ *, 22, 5, 11; 2000 DW₅₄ *, 14, 3, 11; 2000 DX₅₄ *, 12, 3, 11; 2000 DY₅₄ *, 12, 3, 11; 2000 DZ₅₄ *, 14, 3, 11; 2000 DA₅₅ *, 9, 2, 3; 2000 DB₅₅ *, 14, 3, 11; 2000 DC₅₅ *, 13, 3, 11; 2000 DD₅₅ *, 14, 3, 11; 2000 DE₅₅ *, 14, 3, 11; 2000 DF₅₅ *, 14, 3, 11; 2000 DG₅₅ *, 7, 2, 3; 2000 DH₅₅ *, 8, 2, 3; 2000 DJ₅₅ *, 9, 2, 3; 2000 DK₅₅ *, 26, 6, 29; 2000 DL₅₅ *, 17, 4, 11; 2000 DM₅₅ *, 28, 6, 29; 2000 DN₅₅ *, 7, 2, 3; 2000 DO₅₅ *, 22, 5, 23; 2000 DP₅₅ *, 27, 6, 30; 2000 DQ₅₅ *, 14, 3, 11; 2000 DR₅₅ *, 14, 3, 11; 2000 DS₅₅ *, 12, 3, 11; 2000 DT₅₅ *, 18, 4, 11; 2000 DU₅₅ *, 12, 3, 11; 2000 DV₅₅ *, 19, 4, 11; 2000 DW₅₅ *, 20, 4, 11; 2000 DX₅₅ *, 23, 5, 11; 2000 DY₅₅ *, 18, 4, 11; 2000 DZ₅₅

2000 MAR. 20

M.P.C. 39007

2000 DO₅₈ *, 14, 3, 11; 2000 DP₅₈ *, 8, 2, 3; 2000 DQ₅₈ *, 14, 3, 11; 2000 DR₅₈ *, 15, 3, 11; 2000 DS₅₈ *, 9, 2, 3; 2000 DT₅₈ *, 14, 3, 11; 2000 DU₅₈ *, 15, 3, 11; 2000 DV₅₈ *, 11, 3, 11; 2000 DW₅₈ *, 12, 3, 11; 2000 DX₅₈ *, 12, 3, 11; 2000 DY₅₈ *, 14, 3, 11; 2000 DZ₅₈ *, 17, 4, 38; 2000 DA₅₉ *, 9, 2, 3; 2000 DB₅₉ *, 18, 4, 452; 2000 DC₅₉ *, 8, 2, 3; 2000 DD₅₉ *, 19, 4, 11; 2000 DE₅₉ *, 19, 4, 11; 2000 DF₅₉ *, 14, 3, 11; 2000 DG₅₉ *, 14, 3, 11; 2000 DH₅₉ *, 19, 4, 11; 2000 DJ₅₉ *, 14, 3, 11; 2000 DK₅₉ *, 9, 2, 3; 2000 DL₅₉ *, 16, 4, 11; 2000 DM₅₉ *, 15, 4, 11; 2000 DN₅₉ *, 13, 3, 11; 2000 DO₅₉ *, 13, 3, 11; 2000 DP₅₉ *, 13, 3, 11; 2000 DQ₅₉ *, 19, 4, 11; 2000 DR₅₉ *, 12, 3, 11; 2000 DS₅₉ *, 13, 3, 11; 2000 DT₅₉ *, 13, 3, 11; 2000 DU₅₉ *, 8, 2, 3; 2000 DV₅₉ *, 26, 6, 450; 2000 DW₅₉ *, 13, 3, 11; 2000 DX₅₉ *, 23, 5, 29; 2000 DY₅₉ *, 17, 4, 11; 2000 DZ₅₉ *, 14, 3, 11; 2000 DA₆₀ *, 18, 4, 11; 2000 DB₆₀ *, 11, 3, 11; 2000 DC₆₀ *, 18, 4, 11; 2000 DD₆₀ *, 9, 2, 3; 2000 DE₆₀ *, 19, 4, 11; 2000 DF₆₀ *, 8, 2, 3; 2000 DG₆₀ *, 14, 3, 11; 2000 DH₆₀ *, 14, 3, 11; 2000 DJ₆₀ *, 10, 3, 11; 2000 DK₆₀ *, 7, 2, 3; 2000 DL₆₀ *, 9, 2, 3; 2000 DM₆₀ *, 14, 3, 11; 2000 DN₆₀ *, 12, 3, 11; 2000 DO₆₀ *, 14, 3, 11; 2000 DP₆₀ *, 14, 3, 12; 2000 DQ₆₀ *, 17, 4, 12; 2000 DR₆₀ *, 13, 3, 12; 2000 DS₆₀ *, 26, 6, 97; 2000 DT₆₀ *, 13, 3, 12; 2000 DU₆₀ *, 28, 6, 857; 2000 DV₆₀ *, 14, 4, 12; 2000 DW₆₀ *, 12, 3, 11; 2000 DX₆₀ *, 18, 4, 12; 2000 DY₆₀ *, 13, 3, 11; 2000 DZ₆₀ *, 14, 3, 11; 2000 DA₆₁ *, 13, 3, 11; 2000 DB₆₁ *, 9, 2, 3; 2000 DC₆₁ *, 13, 3, 11; 2000 DD₆₁ *, 14, 3, 11; 2000 DE₆₁ *, 19, 4, 29; 2000 DF₆₁ *, 13, 3, 11; 2000 DG₆₁ *, 14, 3, 11; 2000 DH₆₁ *, 17, 4, 29; 2000 DJ₆₁ *, 13, 3, 11; 2000 DK₆₁ *, 12, 3, 11; 2000 DL₆₁ *, 10, 3, 11; 2000 DM₆₁ *, 14, 3, 11; 2000 DN₆₁ *, 13, 3, 11; 2000 DO₆₁ *, 13, 3, 11; 2000 DP₆₁ *, 9, 3, 11; 2000 DQ₆₁ *, 13, 3, 11; 2000 DR₆₁ *, 13, 3, 11; 2000 DS₆₁ *, 9, 2, 3; 2000 DT₆₁ *, 14, 3, 11; 2000 DU₆₁ *, 13, 3, 11; 2000 DV₆₁ *, 14, 3, 11; 2000 DW₆₁ *, 13, 3, 11; 2000 DX₆₁ *, 10, 3, 11; 2000 DY₆₁ *, 17, 4, 38; 2000 DZ₆₁ *, 13, 3, 11; 2000 DA₆₂ *, 9, 2, 3; 2000 DB₆₂ *, 14, 3, 11; 2000 DC₆₂ *, 14, 3, 11; 2000 DD₆₂ *, 14, 3, 11; 2000 DE₆₂ *, 13, 3, 11; 2000 DF₆₂ *, 13, 3, 11; 2000 DG₆₂ *, 11, 3, 11; 2000 DH₆₂ *, 13, 3, 11; 2000 DJ₆₂ *, 13, 3, 11; 2000 DK₆₂ *, 14, 3, 11; 2000 DL₆₂ *, 14, 3, 11; 2000 DM₆₂ *, 13, 3, 11; 2000 DN₆₂ *, 14, 3, 11; 2000 DO₆₂ *, 14, 3, 11; 2000 DP₆₂ *, 14, 3, 11; 2000 DQ₆₂ *, 13, 3, 11; 2000 DS₆₂ *, 14, 3, 11; 2000 DT₆₂ *, 11, 3, 11; 2000 DU₆₂ *, 14, 3, 11; 2000 DV₆₂ *, 14, 3, 11; 2000 DW₆₂ *, 10, 3, 11; 2000 DX₆₂ *, 9, 2, 3; 2000 DY₆₂ *, 22, 5, 11; 2000 DZ₆₂ *, 9, 2, 3; 2000 DA₆₃ *, 24, 5, 11; 2000 DB₆₃ *, 17, 4, 34; 2000 DC₆₃ *, 17, 4, 11; 2000 DD₆₃ *, 24, 5, 11; 2000 DE₆₃ *, 12, 3, 11; 2000 DF₆₃ *, 18, 4, 11; 2000 DG₆₃ *, 14, 3, 11; 2000 DH₆₃ *, 13, 3, 11; 2000 DJ₆₃ *, 14, 3, 11; 2000 DK₆₃ *, 9, 2, 3; 2000 DL₆₃ *, 9, 2, 3; 2000 DM₆₃ *, 13, 3, 11; 2000 DN₆₃ *, 9, 2, 3; 2000 DO₆₃ *, 14, 3, 11; 2000 DP₆₃ *, 8, 2, 3; 2000 DQ₆₃ *, 17, 4, 11; 2000 DR₆₃ *, 13, 3, 11; 2000 DS₆₃ *, 17, 4, 11; 2000 DT₆₃ *, 22, 5, 11; 2000 DU₆₃ *, 9, 2, 3; 2000 DV₆₃ *, 13, 3, 8; 2000 DW₆₃ *, 13, 3, 11; 2000 DX₆₃ *, 21, 5, 35; 2000 DY₆₃ *, 13, 3, 11; 2000 DZ₆₃ *, 22, 5, 481; 2000 DA₆₄ *, 19, 5, 11; 2000 DB₆₄ *, 12, 3, 11; 2000 DC₆₄ *, 12, 3, 11; 2000 DD₆₄ *, 12, 3, 11; 2000 DE₆₄ *, 23, 5, 11; 2000 DF₆₄ *, 16, 4, 5; 2000 DG₆₄ *, 20, 5, 5; 2000 DH₆₄ *, 19, 4, 11; 2000 DJ₆₄ *, 17, 4, 11; 2000 DK₆₄ *, 18, 4, 11; 2000 DL₆₄ *, 24, 5, 11; 2000 DM₆₄ *, 18, 4, 11; 2000 DN₆₄ *, 24, 5, 11; 2000 DO₆₄ *, 17, 4, 11; 2000 DP₆₄ *, 17, 4, 11; 2000 DF₆₄ *, 20, 5, 11; 2000 DR₆₄ *, 8, 2, 3; 2000 DS₆₄ *, 16, 4, 34; 2000 DT₆₄ *, 14, 3, 11; 2000 DU₆₄ *, 13, 3, 11; 2000 DV₆₄ *, 13, 3, 11; 2000 DW₆₄ *, 14, 3, 11; 2000 DX₆₄ *, 17, 4, 11; 2000 DY₆₄ *, 16, 4, 11; 2000 DZ₆₄ *, 23, 5, 11; 2000 DA₆₅ *, 19, 4, 11; 2000 DB₆₅ *, 14, 3, 11; 2000 DC₆₅ *, 19, 4, 11; 2000 DD₆₅ *, 28, 5, 11; 2000 DE₆₅ *, 6, 2, 3; 2000 DF₆₅ *, 24, 5, 29; 2000 DG₆₅ *, 12, 3, 11; 2000 DH₆₅ *, 11, 3, 4; 2000 DJ₆₅ *, 8, 2, 3; 2000 DK₆₅ *, 13, 3, 11; 2000 DL₆₅ *, 8, 2, 3; 2000 DM₆₅ *, 11, 3, 11; 2000 DN₆₅ *, 8, 2, 3; 2000 DO₆₅ *, 8, 2, 3; 2000 DP₆₅ *, 8, 2, 3; 2000 DQ₆₅ *, 7, 2, 3; 2000 DR₆₅ *, 8, 2, 3; 2000 DS₆₅ *, 14, 3, 11; 2000 DT₆₅ *, 10, 3, 11; 2000 DU₆₅ *, 11, 3, 11; 2000 DV₆₅ *, 18, 4, 11; 2000 DW₆₅ *, 7, 2, 3; 2000 DX₆₅ *, 6, 2, 3; 2000 DY₆₅ *, 8, 2, 3; 2000 DZ₆₅ *, 8, 2, 3; 2000 DA₆₆ *, 13, 3, 11; 2000 DB₆₆ *, 13, 3, 11; 2000 DC₆₆ *, 8, 2, 3; 2000 DD₆₆ *, 8, 2, 3; 2000 DE₆₆ *, 10, 3, 11; 2000 DF₆₆ *, 7, 2, 3; 2000 DG₆₆ *, 8, 2, 3; 2000 DH₆₆ *, 11, 3, 11; 2000 DJ₆₆ *, 8, 2, 3; 2000 DK₆₆ *, 11, 3, 5; 2000 DL₆₆ *, 7, 2, 3; 2000 DM₆₆ *, 12, 3, 4; 2000 DN₆₆ *, 16, 4, 34; 2000 DO₆₆ *, 12, 3, 11; 2000 DP₆₆ *, 6, 2, 3; 2000 DQ₆₆ *, 8, 2, 3; 2000 DR₆₆ *, 7, 2, 3; 2000 DS₆₆ *, 11, 3, 11; 2000 DT₆₆ *, 12, 3, 11; 2000 DU₆₆ *, 13, 3, 11; 2000 DV₆₆ *, 17, 4, 11; 2000 DW₆₆ *, 13, 3, 11; 2000 DX₆₆ *, 17, 4, 11; 2000 DY₆₆ *, 13, 3, 11; 2000 DZ₆₆ *, 13, 3, 4; 2000 DA₆₇ *, 17, 4, 11; 2000 DB₆₇ *, 8, 2, 3; 2000 DC₆₇ *, 8, 2, 3; 2000 DD₆₇ *, 11, 3, 5; 2000 DE₆₇ *, 16, 4, 11; 2000 DF₆₇ *, 11, 3, 4; 2000 DG₆₇ *, 8, 2, 3; 2000 DH₆₇ *, 27, 6, 34; 2000 DJ₆₇ *, 8, 2, 3; 2000 DK₆₇ *, 11, 3, 11; 2000 DL₆₇ *, 8, 2, 3; 2000 DM₆₇ *, 8, 2, 3; 2000 DN₆₇ *, 12, 3, 11; 2000 DO₆₇ *, 12, 3, 11; 2000 DP₆₇ *, 13, 3, 11; 2000 DQ₆₇ *, 11, 3, 11; 2000 DR₆₇ *, 12, 3, 11; 2000 DS₆₇ *, 11, 3, 11; 2000 DT₆₇ *, 12, 3, 11; 2000 DU₆₇ *, 7, 2, 3; 2000 DV₆₇ *, 17, 4, 11; 2000 DW₆₇ *, 12, 3, 11; 2000 DX₆₇ *, 13, 3, 11; 2000 DY₆₇ *, 12, 3, 11; 2000 DZ₆₇ *, 14, 3, 11; 2000 DA₆₈ *, 8, 2, 3; 2000 DB₆₈ *, 14, 3, 11; 2000 DC₆₈ *, 23, 5, 12; 2000 DD₆₈ *, 15, 3, 11; 2000 DE₆₈ *, 13, 3, 11; 2000 DF₆₈ *, 14, 3, 11; 2000 DG₆₈ *, 17, 4, 11; 2000 DH₆₈ *, 19, 4, 11; 2000 DJ₆₈ *, 19, 4, 11; 2000 DK₆₈ *, 13, 3, 11; 2000 DL₆₈ *, 13, 3, 11; 2000 DM₆₈ *, 19, 4, 11; 2000 DN₆₈ *, 29, 5, 11; 2000 DO₆₈ *, 30, 6, 11; 2000 DP₆₈ *, 24, 4, 11; 2000 DQ₆₈ *, 13, 3, 11; 2000 DR₆₈ *, 15, 3, 11; 2000 DS₆₈ *, 18, 4, 38; 2000 DT₆₈ *, 27, 6, 30; 2000 DU₆₈ *, 15, 3, 11; 2000 DV₆₈ *, 27, 6, 35; 2000 DW₆₈ *, 15, 3, 11; 2000 DX₆₈ *, 14, 3, 11; 2000 DY₆₈ *, 18, 4, 11; 2000 DZ₆₈ *, 20, 4, 11; 2000 DA₆₉ *, 17, 4, 11; 2000 DB₆₉ *, 15, 3, 11; 2000 DC₆₉ *, 24, 4, 11; 2000 DD₆₉ *, 22, 5, 39; 2000 DE₆₉ *, 15, 3, 11; 2000 DF₆₉ *, 13, 3, 11; 2000 DG₆₉ *, 15, 3, 11; 2000 DH₆₉ *, 23, 5, 12; 2000 DJ₆₉ *, 14, 3, 11; 2000 DK₆₉ *, 15,

3, 11; 2000 DL₆₉ *, 23, 5, 32; 2000 DM₆₉ *, 12, 2, 3; 2000 DN₆₉ *, 13, 3, 11; 2000 DO₆₉ *, 18, 4, 11; 2000 DP₆₉ *, 14, 3, 11; 2000 DQ₆₉ *, 18, 4, 32; 2000 DR₆₉ *, 15, 3, 11; 2000 DS₆₉ *, 14, 3, 11; 2000 DT₆₉ *, 18, 4, 11; 2000 DU₆₉ *, 14, 3, 4; 2000 DV₆₉ *, 9, 2, 3; 2000 DW₆₉ *, 19, 4, 15; 2000 DX₆₉ *, 13, 3, 11; 2000 DY₆₉ *, 13, 3, 11; 2000 DZ₆₉ *, 14, 3, 11; 2000 DA₇₀ *, 10, 2, 3; 2000 DB₇₀ *, 25, 4, 11; 2000 DC₇₀ *, 29, 5, 29; 2000 DD₇₀ *, 12, 3, 4; 2000 DE₇₀ *, 13, 3, 11; 2000 DF₇₀ *, 15, 3, 11; 2000 DG₇₀ *, 10, 2, 3; 2000 DH₇₀ *, 15, 3, 11; 2000 DJ₇₀ *, 10, 2, 3; 2000 DK₇₀ *, 10, 2, 3; 2000 DL₇₀ *, 15, 3, 11; 2000 DM₇₀ *, 19, 3, 11; 2000 DN₇₀ *, 13, 3, 11; 2000 DO₇₀ *, 9, 2, 3; 2000 DP₇₀ *, 14, 3, 11; 2000 DQ₇₀ *, 18, 4, 29; 2000 DR₇₀ *, 18, 4, 11; 2000 DS₇₀ *, 25, 5, 30; 2000 DT₇₀ *, 14, 3, 11; 2000 DU₇₀ *, 15, 3, 11; 2000 DV₇₀ *, 14, 3, 11; 2000 DW₇₀ *, 24, 5, 11; 2000 DX₇₀ *, 24, 5, 32; 2000 DY₇₀ *, 15, 3, 11; 2000 DZ₇₀ *, 13, 3, 11; 2000 DA₇₁ *, 9, 2, 3; 2000 DB₇₁ *, 22, 5, 32; 2000 DC₇₁ *, 14, 3, 11; 2000 DD₇₁ *, 21, 5, 32; 2000 DE₇₁ *, 14, 3, 11; 2000 DF₇₁ *, 14, 3, 11; 2000 DG₇₁ *, 28, 6, 34; 2000 DH₇₁ *, 23, 5, 32; 2000 DJ₇₁ *, 13, 3, 11; 2000 DK₇₁ *, 28, 6, 32; 2000 DL₇₁ *, 15, 3, 11; 2000 DM₇₁ *, 18, 4, 11; 2000 DN₇₁ *, 16, 4, 11; 2000 DO₇₁ *, 18, 4, 11; 2000 DP₇₁ *, 32, 7, 38; 2000 DQ₇₁ *, 19, 4, 11; 2000 DR₇₁ *, 19, 4, 11; 2000 DS₇₁ *, 18, 4, 11; 2000 DT₇₁ *, 14, 3, 11; 2000 DU₇₁ *, 18, 4, 450; 2000 DV₇₁ *, 13, 3, 11; 2000 DW₇₁ *, 15, 3, 11; 2000 DX₇₁ *, 14, 3, 11; 2000 DY₇₁ *, 13, 3, 11; 2000 DZ₇₁ *, 14, 3, 11; 2000 DA₇₂ *, 12, 3, 11; 2000 DB₇₂ *, 14, 3, 11; 2000 DC₇₂ *, 12, 3, 11; 2000 DD₇₂ *, 13, 3, 11; 2000 DE₇₂ *, 14, 3, 11; 2000 DF₇₂ *, 14, 3, 11; 2000 DG₇₂ *, 8, 2, 3; 2000 DH₇₂ *, 9, 2, 3; 2000 DJ₇₂ *, 9, 2, 3; 2000 DK₇₂ *, 14, 3, 11; 2000 DL₇₂ *, 19, 4, 12; 2000 DM₇₂ *, 14, 3, 11; 2000 DN₇₂ *, 22, 5, 31; 2000 DO₇₂ *, 17, 4, 12; 2000 DP₇₂ *, 14, 3, 11; 2000 DQ₇₂ *, 17, 4, 12; 2000 DR₇₂ *, 13, 3, 11; 2000 DS₇₂ *, 14, 3, 11; 2000 DT₇₂ *, 29, 29, 7, 454; 2000 DU₇₂ *, 7, 2, 3; 2000 DV₇₂ *, 13, 3, 11; 2000 DW₇₂ *, 18, 4, 12; 2000 DX₇₂ *, 16, 4, 12; 2000 DY₇₂ *, 9, 2, 3; 2000 DZ₇₂ *, 13, 3, 11; 2000 DA₇₃ *, 19, 4, 11; 2000 DB₇₃ *, 18, 4, 12; 2000 DC₇₃ *, 22, 5, 12; 2000 DD₇₃ *, 17, 4, 11; 2000 DE₇₃ *, 23, 5, 63; 2000 DF₇₃ *, 13, 3, 11; 2000 DG₇₃ *, 14, 3, 11; 2000 DH₇₃ *, 14, 3, 11; 2000 DJ₇₃ *, 8, 2, 3; 2000 DK₇₃ *, 14, 3, 11; 2000 DL₇₃ *, 9, 2, 3; 2000 DM₇₃ *, 13, 3, 11; 2000 DN₇₃ *, 9, 2, 3; 2000 DO₇₃ *, 15, 3, 11; 2000 DP₇₃ *, 8, 2, 3; 2000 DQ₇₃ *, 14, 3, 11; 2000 DR₇₃ *, 18, 3, 11; 2000 DS₇₃ *, 19, 4, 11; 2000 DT₇₃ *, 14, 3, 5; 2000 DU₇₃ *, 12, 3, 11; 2000 DV₇₃ *, 8, 2, 3; 2000 DW₇₃ *, 18, 4, 15; 2000 DX₇₃ *, 18, 4, 11; 2000 DY₇₃ *, 18, 4, 32; 2000 DZ₇₃ *, 14, 3, 11; 2000 DA₇₄ *, 13, 3, 11; 2000 DB₇₄ *, 12, 3, 11; 2000 DC₇₄ *, 24, 5, 15; 2000 DD₇₄ *, 13, 3, 11; 2000 DE₇₄ *, 9, 2, 3; 2000 DF₇₄ *, 14, 3, 11; 2000 DG₇₄ *, 14, 3, 11; 2000 DH₇₄ *, 20, 4, 11; 2000 DJ₇₄ *, 12, 3, 11; 2000 DK₇₄ *, 19, 4, 11; 2000 DL₇₄ *, 20, 5, 32; 2000 DM₇₄ *, 14, 3, 11; 2000 DN₇₄ *, 7, 2, 3; 2000 DO₇₄ *, 8, 2, 3; 2000 DP₇₄ *, 14, 3, 11; 2000 DQ₇₄ *, 9, 2, 3; 2000 DR₇₄ *, 23, 5, 32; 2000 DS₇₄ *, 18, 4, 11; 2000 DT₇₄ *, 18, 4, 11; 2000 DU₇₄ *, 17, 4, 11; 2000 DV₇₄ *, 18, 4, 11; 2000 DW₇₄ *, 12, 3, 11; 2000 DX₇₄ *, 22, 5, 32; 2000 DY₇₄ *, 22, 5, 63; 2000 DZ₇₄ *, 8, 2, 3; 2000 DA₇₅ *, 9, 2, 3; 2000 DB₇₅ *, 14, 3, 11; 2000 DC₇₅ *, 14, 3, 11; 2000 DD₇₅ *, 19, 5, 34; 2000 DE₇₅ *, 10, 3, 11; 2000 DF₇₅ *, 7, 2, 3; 2000 DG₇₅ *, 27, 6, 450; 2000 DH₇₅ *, 15, 4, 11; 2000 DJ₇₅ *, 13, 3, 11; 2000 DK₇₅ *, 12, 3, 11; 2000 DL₇₅ *, 8, 2, 3; 2000 DM₇₅ *, 13, 3, 11; 2000 DN₇₅ *, 14, 3, 11; 2000 DO₇₅ *, 12, 3, 11; 2000 DP₇₅ *, 13, 3, 11; 2000 DQ₇₅ *, 13, 3, 11; 2000 DR₇₅ *, 9, 2, 3; 2000 DS₇₅ *, 12, 3, 11; 2000 DT₇₅ *, 13, 3, 11; 2000 DU₇₅ *, 13, 3, 11; 2000 DV₇₅ *, 11, 3, 11; 2000 DW₇₅ *, 7, 2, 3; 2000 DX₇₅ *, 13, 3, 11; 2000 DY₇₅ *, 13, 3, 11; 2000 DZ₇₅ *, 8, 2, 3; 2000 DA₇₆ *, 12, 3, 11; 2000 DB₇₆ *, 13, 3, 11; 2000 DC₇₆ *, 13, 3, 11; 2000 DD₇₆ *, 14, 3, 11; 2000 DE₇₆ *, 22, 4, 15; 2000 DF₇₆ *, 11, 3, 11; 2000 DG₇₆ *, 28, 5, 11; 2000 DH₇₆ *, 17, 4, 38; 2000 DJ₇₆ *, 19, 4, 11; 2000 DK₇₆ *, 18, 3, 11; 2000 DL₇₆ *, 7, 2, 3; 2000 DM₇₆ *, 26, 6, 39; 2000 DN₇₆ *, 22, 5, 38; 2000 DO₇₆ *, 22, 5, 12; 2000 DP₇₆ *, 11, 3, 9; 2000 DQ₇₆ *, 8, 2, 3; 2000 DR₇₆ *, 13, 3, 11; 2000 DS₇₆ *, 13, 3, 11; 2000 DT₇₆ *, 16, 4, 12; 2000 DU₇₆ *, 18, 4, 12; 2000 DV₇₆ *, 17, 4, 11; 2000 DW₇₆ *, 23, 5, 12; 2000 DX₇₆ *, 13, 3, 11; 2000 DY₇₆ *, 12, 3, 11; 2000 DZ₇₆ *, 13, 3, 11; 2000 DA₇₇ *, 13, 3, 11; 2000 DB₇₇ *, 17, 4, 11; 2000 DC₇₇ *, 13, 3, 11; 2000 DE₇₇ *, 17, 4, 11; 2000 DF₇₇ *, 13, 3, 11; 2000 DG₇₇ *, 14, 3, 11; 2000 DH₇₇ *, 9, 2, 3; 2000 DJ₇₇ *, 13, 3, 11; 2000 DK₇₇ *, 12, 3, 11; 2000 DL₇₇ *, 8, 2, 3; 2000 DM₇₇ *, 23, 4, 11; 2000 DN₇₇ *, 19, 3, 4; 2000 DO₇₇ *, 19, 3, 4; 2000 DP₇₇ *, 13, 3, 11; 2000 DQ₇₇ *, 13, 3, 11;

2000 DH₈₀ *, 9, 2, 5; 2000 DJ₈₀ *, 22, 5, 109; 2000 DK₈₀ *, 14, 3, 10; 2000 DL₈₀ *, 10, 2, 5; 2000 DM₈₀ *, 18, 4, 34; 2000 DN₈₀ *, 10, 2, 5; 2000 DO₈₀ *, 15, 3, 6; 2000 DP₈₀ *, 14, 3, 6; 2000 DQ₈₀ *, 10, 2, 5; 2000 DR₈₀ *, 10, 2, 5; 2000 DS₈₀ *, 17, 4, 10; 2000 DT₈₀ *, 10, 2, 5; 2000 DU₈₀ *, 10, 2, 5; 2000 DV₈₀ *, 10, 2, 5; 2000 DW₈₀ *, 10, 2, 5; 2000 DX₈₀ *, 10, 2, 5; 2000 DY₈₀ *, 8, 2, 5; 2000 DZ₈₀ *, 8, 2, 5; 2000 DA₈₁ *, 22, 5, 60; 2000 DB₈₁ *, 8, 2, 5; 2000 DC₈₁ *, 8, 2, 5; 2000 DD₈₁ *, 15, 3, 22; 2000 DE₈₁ *, 7, 2, 5; 2000 DF₈₁ *, 7, 2, 5; 2000 DG₈₁ *, 7, 2, 5; 2000 DH₈₁ *, 8, 2, 5; 2000 DJ₈₁ *, 8, 2, 5; 2000 DK₈₁ *, 8, 2, 5; 2000 DL₈₁ *, 8, 2, 5; 2000 DM₈₁ *, 8, 2, 5; 2000 DN₈₁ *, 8, 2, 5; 2000 DO₈₁ *, 7, 2, 5; 2000 DP₈₁ *, 11, 3, 6; 2000 DQ₈₁ *, 7, 2, 5; 2000 DR₈₁ *, 8, 2, 5; 2000 DS₈₁ *, 8, 2, 5; 2000 DT₈₁ *, 8, 2, 5; 2000 DU₈₁ *, 9, 2, 5; 2000 DV₈₁ *, 9, 2, 5; 2000 DW₈₁ *, 9, 2, 5; 2000 DX₈₁ *, 8, 2, 5; 2000 DY₈₁ *, 6, 2, 5; 2000 DZ₈₁ *, 6, 2, 5; 2000 DA₈₂ *, 6, 2, 5; 2000 DB₈₂ *, 9, 2, 5; 2000 DC₈₂ *, 7, 2, 5; 2000 DD₈₂ *, 12, 3, 30; 2000 DE₈₂ *, 9, 2, 5; 2000 DF₈₂ *, 8, 2, 5; 2000 DG₈₂ *, 10, 2, 5; 2000 DH₈₂ *, 10, 2, 5; 2000 DI₈₂ *, 9, 2, 5; 2000 DJ₈₂ *, 10, 2, 5; 2000 DK₈₂ *, 9, 2, 5; 2000 DL₈₂ *, 9, 2, 5; 2000 DM₈₂ *, 10, 2, 5; 2000 DN₈₂ *, 10, 2, 5; 2000 DO₈₂ *, 10, 2, 5; 2000 DP₈₂ *, 9, 2, 5; 2000 DQ₈₂ *, 20, 4, 30; 2000 DR₈₂ *, 28, 6, 95; 2000 DS₈₂ *, 10, 2, 5; 2000 DT₈₂ *, 20, 4, 30; 2000 DU₈₂ *, 10, 2, 5; 2000 DV₈₂ *, 10, 2, 5; 2000 DW₈₂ *, 10, 2, 5; 2000 DX₈₂ *, 19, 4, 30; 2000 DY₈₂ *, 8, 2, 5; 2000 DZ₈₂ *, 8, 2, 5; 2000 DA₈₃ *, 10, 2, 5; 2000 DB₈₃ *, 17, 3, 6; 2000 DC₈₃ *, 40, 7, 65; 2000 DD₈₃ *, 18, 3, 6; 2000 DE₈₃ *, 9, 2, 5; 2000 DF₈₃ *, 14, 3, 10; 2000 DG₈₃ *, 25, 5, 31; 2000 DH₈₃ *, 10, 2, 5; 2000 DI₈₃ *, 27, 6, 35; 2000 DJ₈₃ *, 15, 3, 6; 2000 DK₈₃ *, 13, 3, 6; 2000 DL₈₃ *, 10, 2, 5; 2000 DM₈₃ *, 17, 4, 10; 2000 DN₈₃ *, 23, 5, 27; 2000 DO₈₃ *, 8, 2, 5; 2000 DP₈₃ *, 14, 2, 5; 2000 DQ₈₃ *, 9, 2, 5; 2000 DR₈₃ *, 9, 2, 5; 2000 DS₈₃ *, 11, 3, 10; 2000 DT₈₃ *, 9, 2, 5; 2000 DU₈₃ *, 9, 2, 5; 2000 DV₈₃ *, 24, 5, 31; 2000 DW₈₃ *, 12, 3, 22; 2000 DX₈₃ *, 12, 3, 10; 2000 DY₈₃ *, 7, 2, 5; 2000 DZ₈₃ *, 23, 5, 13; 2000 DA₈₄ *, 7, 2, 5; 2000 DB₈₄ *, 7, 2, 5; 2000 DC₈₄ *, 9, 2, 5; 2000 DD₈₄ *, 9, 2, 5; 2000 DE₈₄ *, 7, 2, 5; 2000 DF₈₄ *, 9, 2, 5; 2000 DG₈₄ *, 9, 2, 5; 2000 DH₈₄ *, 7, 2, 5; 2000 DI₈₄ *, 8, 2, 5; 2000 DJ₈₄ *, 8, 2, 5; 2000 DK₈₄ *, 8, 2, 5; 2000 DL₈₄ *, 16, 4, 10; 2000 DM₈₄ *, 14, 3, 5; 2000 DN₈₄ *, 11, 3, 5; 2000 DO₈₄ *, 17, 4, 6; 2000 DP₈₄ *, 9, 2, 4; 2000 DQ₈₄ *, 9, 2, 4; 2000 DR₈₄ *, 18, 4, 30; 2000 DS₈₄ *, 8, 2, 4; 2000 DT₈₄ *, 8, 2, 4; 2000 DU₈₄ *, 6, 2, 4; 2000 DV₈₄ *, 13, 2, 4; 2000 DW₈₄ *, 11, 3, 11; 2000 DX₈₄ *, 10, 2, 4; 2000 DY₈₄ *, 10, 2, 4; 2000 DZ₈₄ *, 10, 2, 4; 2000 DA₈₅ *, 14, 2, 4; 2000 DB₈₅ *, 10, 2, 4; 2000 DC₈₅ *, 17, 4, 35; 2000 DD₈₅ *, 17, 3, 9; 2000 DE₈₅ *, 10, 2, 4; 2000 DF₈₅ *, 7, 2, 4; 2000 DG₈₅ *, 13, 3, 30; 2000 DH₈₅ *, 10, 2, 4; 2000 DI₈₅ *, 10, 2, 4; 2000 DJ₈₅ *, 10, 2, 4; 2000 DK₈₅ *, 15, 3, 9; 2000 DL₈₅ *, 20, 4, 30; 2000 DM₈₅ *, 23, 5, 12; 2000 DN₈₅ *, 13, 3, 9; 2000 DO₈₅ *, 27, 5, 9; 2000 DP₈₅ *, 18, 4, 9; 2000 DQ₈₅ *, 41, 8, 35; 2000 DR₈₅ *, 8, 2, 4; 2000 DS₈₅ *, 10, 2, 4; 2000 DT₈₅ *, 12, 3, 8; 2000 DU₈₅ *, 10, 2, 4; 2000 DV₈₅ *, 17, 4, 12; 2000 DW₈₅ *, 15, 3, 3, 6; 2000 DX₈₅ *, 12, 3, 12; 2000 DY₈₅ *, 14, 3, 9; 2000 DZ₈₅ *, 10, 2, 4; 2000 DA₈₆ *, 37, 6, 38; 2000 DB₈₆ *, 20, 3, 5; 2000 DC₈₆ *, 33, 6, 38; 2000 DD₈₆ *, 26, 5, 38; 2000 DE₈₆ *, 29, 3, 5; 2000 DF₈₆ *, 11, 2, 4; 2000 DG₈₆ *, 43, 8, 38; 2000 DH₈₆ *, 9, 4, 9; 2000 DI₈₆ *, 24, 5, 30; 2000 DJ₈₆ *, 9, 2, 4; 2000 DK₈₆ *, 10, 2, 4; 2000 DL₈₆ *, 9, 2, 4; 2000 DM₈₆ *, 9, 2, 4; 2000 DN₈₆ *, 9, 2, 4; 2000 DO₈₆ *, 10, 2, 4; 2000 DP₈₆ *, 9, 2, 4; 2000 DQ₈₆ *, 7, 2, 4; 2000 DR

2, 6; 2000 DF₉₅ *, 8, 2, 6; 2000 DG₉₅ *, 9, 2, 6; 2000 DD₉₅ *, 8, 2, 6; 2000 DE₉₅ *, 24, 5, 38; 2000 DF₉₅ *, 9, 2, 6; 2000 DG₉₅ *, 8, 2, 6; 2000 DH₉₅ *, 16, 4, 30; 2000 DJ₉₅ *, 18, 4, 30; 2000 DK₉₅ *, 9, 2, 6; 2000 DL₉₅ *, 12, 3, 13; 2000 DM₉₅ *, 7, 2, 6; 2000 DN₉₅ *, 9, 2, 6; 2000 DO₉₅ *, 9, 2, 6; 2000 DP₉₅ *, 15, 4, 13; 2000 DQ₉₅ *, 9, 2, 6; 2000 DR₉₅ *, 24, 5, 38; 2000 DS₉₅ *, 12, 3, 10; 2000 DT₉₅ *, 33, 7, 38; 2000 DU₉₅ *, 8, 2, 6; 2000 DV₉₅ *, 7, 2, 6; 2000 DW₉₅ *, 8, 2, 6; 2000 DX₉₅ *, 9, 2, 6; 2000 DY₉₅ *, 7, 2, 6; 2000 DZ₉₅ *, 12, 3, 23; 2000 DA₉₆ *, 7, 2, 6; 2000 DB₉₆ *, 10, 2, 5; 2000 DC₉₆ *, 10, 2, 5; 2000 DD₉₆ *, 10, 2, 5; 2000 DE₉₆ *, 12, 3, 9; 2000 DF₉₆ *, 15, 4, 34; 2000 DG₉₆ *, 10, 2, 5; 2000 DH₉₆ *, 28, 6, 37; 2000 DJ₉₆ *, 20, 3, 9; 2000 DK₉₆ *, 18, 4, 11; 2000 DL₉₆ *, 7, 2, 5; 2000 DM₉₆ *, 6, 2, 6; 2000 DN₉₆ *, 9, 2, 5; 2000 DO₉₆ *, 9, 2, 5; 2000 DP₉₆ *, 9, 2, 5; 2000 DQ₉₆ *, 9, 2, 5; 2000 DR₉₆ *, 8, 2, 5; 2000 DS₉₆ *, 10, 2, 5; 2000 DT₉₆ *, 8, 2, 5; 2000 DU₉₆ *, 10, 2, 5; 2000 DV₉₆ *, 10, 2, 5; 2000 DW₉₆ *, 7, 2, 6; 2000 DX₉₆ *, 8, 2, 5; 2000 DY₉₆ *, 7, 2, 5; 2000 DZ₉₆ *, 9, 2, 5; 2000 DA₉₇ *, 8, 2, 5; 2000 DB₉₇ *, 8, 2, 6; 2000 DC₉₇ *, 7, 2, 6; 2000 DD₉₇ *, 20, 4, 27; 2000 DE₉₇ *, 8, 2, 5; 2000 DF₉₇ *, 10, 2, 5; 2000 DG₉₇ *, 9, 2, 5; 2000 DH₉₇ *, 8, 2, 5; 2000 DJ₉₇ *, 14, 4, 38; 2000 DK₉₇ *, 7, 2, 5; 2000 DL₉₇ *, 23, 5, 29; 2000 DM₉₇ *, 8, 2, 5; 2000 DN₉₇ *, 27, 5, 35; 2000 DO₉₇ *, 10, 2, 5; 2000 DP₉₇ *, 8, 2, 5; 2000 DQ₉₇ *, 10, 2, 5; 2000 DR₉₇ *, 11, 3, 8; 2000 DS₉₇ *, 22, 5, 38; 2000 DT₉₇ *, 8, 2, 5; 2000 DU₉₇ *, 15, 3, 12; 2000 DV₉₇ *, 10, 2, 5; 2000 DW₉₇ *, 25, 5, 38; 2000 DX₉₇ *, 30, 6, 38; 2000 DY₉₇ *, 10, 2, 5; 2000 DZ₉₇ *, 28, 5, 6, 38; 2000 DA₉₈ *, 30, 6, 37; 2000 DB₉₈ *, 14, 3, 12; 2000 DC₉₈ *, 31, 7, 117; 2000 DD₉₈ *, 10, 2, 5; 2000 DE₉₈ *, 9, 2, 5; 2000 DF₉₈ *, 36, 6, 38; 2000 DG₉₈ *, 14, 3, 9; 2000 DH₉₈ *, 13, 3, 9; 2000 DJ₉₈ *, 28, 6, 30; 2000 DK₉₈ *, 14, 3, 8; 2000 DL₉₈ *, 8, 2, 5; 2000 DM₉₈ *, 19, 4, 30; 2000 DN₉₈ *, 8, 2, 5; 2000 DO₉₈ *, 30, 6, 38; 2000 DP₉₈ *, 20, 4, 12; 2000 DQ₉₈ *, 18, 4, 9; 2000 DR₉₈ *, 10, 3, 23; 2000 DS₉₈ *, 8, 2, 5; 2000 DT₉₈ *, 11, 3, 9; 2000 DU₉₈ *, 9, 2, 5; 2000 DV₉₈ *, 9, 2, 5; 2000 DW₉₈ *, 8, 2, 5; 2000 DX₉₈ *, 23, 5, 30; 2000 DY₉₈ *, 7, 2, 5; 2000 DZ₉₈ *, 8, 2, 5; 2000 DA₉₉ *, 7, 2, 5; 2000 DB₉₉ *, 11, 3, 9; 2000 DC₉₉ *, 14, 3, 12; 2000 DD₉₉ *, 9, 2, 5; 2000 DE₉₉ *, 7, 2, 5; 2000 DF₉₉ *, 9, 2, 5; 2000 DG₉₉ *, 28, 6, 451; 2000 DH₉₉ *, 9, 2, 5; 2000 DI₉₉ *, 9, 2, 5; 2000 DJ₉₉ *, 19, 4, 36; 2000 DK₉₉ *, 8, 2, 5; 2000 DL₉₉ *, 12, 3, 8; 2000 DM₉₉ *, 38, 8, 460; 2000 DN₉₉ *, 23, 5, 38; 2000 DO₉₉ *, 23, 5, 30; 2000 DP₉₉ *, 32, 7, 37; 2000 DQ₉₉ *, 24, 5, 30; 2000 DR₉₉ *, 19, 4, 12; 2000 DS₉₉ *, 15, 3, 12; 2000 DU₉₉ *, 28, 6, 38; 2000 DV₉₉ *, 20, 4, 12; 2000 DW₉₉ *, 30, 5, 38; 2000 DX₉₉ *, 20, 4, 12; 2000 DY₉₉ *, 25, 5, 38; 2000 DZ₉₉ *, 14, 3, 12; 2000 DA₁₀₀ *, 18, 4, 30; 2000 DB₁₀₀ *, 10, 2, 5; 2000 DC₁₀₀ *, 9, 2, 5; 2000 DD₁₀₀ *, 9, 2, 5; 2000 DE₁₀₀ *, 13, 3, 12; 2000 DF₁₀₀ *, 15, 3, 12; 2000 DG₁₀₀ *, 8, 2, 5; 2000 DH₁₀₀ *, 10, 2, 5; 2000 DI₁₀₀ *, 10, 2, 5; 2000 DJ₁₀₀ *, 10, 2, 5; 2000 DK₁₀₀ *, 10, 2, 5; 2000 DL₁₀₀ *, 8, 2, 5; 2000 DM₁₀₀ *, 9, 2, 5; 2000 DN₁₀₀ *, 10, 2, 5; 2000 DO₁₀₀ *, 15, 3, 12; 2000 DP₁₀₀ *, 10, 2, 5; 2000 DQ₁₀₀ *, 15, 3, 12; 2000 DR₁₀₀ *, 19, 4, 30; 2000 DS₁₀₀ *, 13, 3, 12; 2000 DT₁₀₀ *, 24, 5, 68; 2000 DU₁₀₀ *, 13, 3, 12; 2000 DV₁₀₀ *, 13, 3, 12; 2000 DW₁₀₀ *, 18, 4, 30; 2000 DX₁₀₀ *, 10, 2, 5; 2000 DY₁₀₀ *, 10, 2, 5; 2000 DZ₁₀₀ *, 9, 2, 5; 2000 DA₁₀₁ *, 20, 4, 30; 2000 DB₁₀₁ *, 19, 4, 30; 2000 DC₁₀₁ *, 20, 4, 30; 2000 DD₁₀₁ *, 10, 2, 5; 2000 DE₁₀₁ *, 24, 5, 37; 2000 DF₁₀₁ *, 10, 2, 5; 2000 DG₁₀₁ *, 10, 2, 5; 2000 DH₁₀₁ *, 14, 3, 12; 2000 DI₁₀₁ *, 15, 3, 12; 2000 DJ₁₀₁ *, 24, 5, 37; 2000 DK₁₀₁ *, 13, 3, 12; 20

2000 MAR. 20

M.P.C. 39009

1, 5; 2000 DA₁₀₆ *, 9, 2, 5; 2000 DB₁₀₆ *, 7, 2, 5; 2000 DC₁₀₆ *, 12, 3, 12; 2000 DD₁₀₆ *, 15, 4, 12; 2000 DE₁₀₆ *, 13, 3, 12; 2000 DF₁₀₆ *, 8, 2, 5; 2000 DG₁₀₆ *, 12, 3, 12; 2000 DH₁₀₆ *, 13, 5, 474; 2000 DI₁₀₆ *, 20, 5, 474; 2000 DJ₁₀₆ *, 8, 2, 5; 2000 DL₁₀₆ *, 7, 2, 5; 2000 DM₁₀₆ *, 23, 3, 12; 2000 DN₁₀₆ *, 17, 4, 37; 2000 DO₁₀₆ *, 8, 2, 5; 2000 DP₁₀₆ *, 8, 2, 5; 2000 DQ₁₀₆ *, 8, 2, 5; 2000 DR₁₀₆ *, 2, 5; 2000 DS₁₀₆ *, 16, 4, 37; 2000 DT₁₀₆ *, 23, 5, 37; 2000 DU₁₀₆ *, 10, 2, 5; 2000 DV₁₀₆ *, 12, 3, 12; 2000 DW₁₀₆ *, 20, 4, 37; 2000 DX₁₀₆ *, 13, 3, 12; 2000 DY₁₀₆ *, 15, 4, 451; 2000 DZ₁₀₆ *, 12, 3, 12; 2000 DA₁₀₇ *, 15, 3, 12; 2000 DB₁₀₇ *, 12, 3, 12; 2000 DC₁₀₇ *, 12, 3, 12; 2000 DD₁₀₇ *, 8, 2, 5; 2000 DE₁₀₇ *, 13, 3, 12; 2000 DF₁₀₇ *, 8, 2, 5; 2000 DG₁₀₇ *, 19, 4, 37; 2000 DH₁₀₇ *, 20, 4, 30; 2000 DJ₁₀₇ *, 8, 2, 5; 2000 DL₁₀₇ *, 9, 2, 5; 2000 DM₁₀₇ *, 13, 3, 12; 2000 DN₁₀₇ *, 8, 2, 5; 2000 DO₁₀₇ *, 13, 3, 12; 2000 DP₁₀₇ *, 13, 3, 11; 2000 DQ₁₀₇ *, 29, 4, 9; 2000 DR₁₀₇ *, 9, 2, 5; 2000 DS₁₀₇ *, 10, 2, 5; 2000 DT₁₀₇ *, 10, 2, 5; 2000 DU₁₀₇ *, 8, 2, 5; 2000 DV₁₀₇ *, 8, 2, 5; 2000 DW₁₀₇ *, 8, 2, 5; 2000 DX₁₀₇ *, 10, 2, 5; 2000 DY₁₀₇ *, 9, 2, 5; 2000 DZ₁₀₇ *, 9, 2, 6; 2000 DA₁₀₈ *, 10, 2, 6; 2000 DB₁₀₈ *, 9, 2, 6; 2000 DC₁₀₈ *, 9, 2, 5; 2000 DE₁₀₈ *, 8, 2, 5; 2000 DF₁₀₈ *, 9, 2, 6; 2000 DG₁₀₈ *, 11, 3, 13; 2000 DH₁₀₈ *, 20, 5, 30; 2000 DI₁₀₈ *, 10, 2, 3; 2000 DJ₁₀₈ *, 9, 2, 4; 2000 DK₁₀₈ *, 9, 2, 5; 2000 DL₁₀₈ *, 9, 2, 3; 2000 DM₁₀₈ *, 9, 2, 3; 2000 DN₁₀₈ *, 7, 2, 3; 2000 DO₁₀₈ *, 13, 3, 11; 2000 DP₁₀₈ *, 20, 3, 11; 2000 DQ₁₀₈ *, 7, 2, 3; 2000 DR₁₀₈ *, 8, 2, 5; 2000 DS₁₀₈ *, 16, 2, 4; 2000 DT₁₀₈ *, 14, 2, 4; 2000 DU₁₀₈ *, 36, 8, 864; 2000 DV₁₀₈ *, 10, 2, 5; 2000 DW₁₀₈ *, 7, 2, 5; 2000 DX₁₀₈ *, 13, 2, 5; 2000 DY₁₀₈ *, 10, 2, 4; 2000 DZ₁₀₈ *, 23, 5, 29; 2000 DA₁₀₉ *, 9, 2, 5; 2000 DB₁₀₉ *, 10, 2, 3; 2000 DC₁₀₉ *, 8, 2, 3; 2000 DE₁₀₉ *, 8, 2, 3; 2000 DF₁₀₉ *, 10, 2, 3; 2000 DG₁₀₉ *, 9, 2, 3; 2000 DH₁₀₉ *, 14, 3, 11; 2000 DI₁₀₉ *, 9, 2, 5; 2000 DJ₁₀₉ *, 9, 2, 5; 2000 DK₁₀₉ *, 24, 5, 38; 2000 DL₁₀₉ *, 8, 2, 3; 2000 DM₁₀₉ *, 15, 3, 12; 2000 DN₁₀₉ *, 25, 5, 38; 2000 DO₁₀₉ *, 9, 2, 3; 2000 DP₁₀₉ *, 14, 3, 11; 2000 DQ₁₀₉ *, 10, 2, 5; 2000 DR₁₀₉ *, 15, 3, 12; 2000 DS₁₀₉ *, 11, 3, 11; 2000 DT₁₀₉ *, 13, 3, 11; 2000 DU₁₀₉ *, 13, 3, 11; 2000 DV₁₀₉ *, 12, 3, 11; 2000 DW₁₀₉ *, 10, 2, 3; 2000 DX₁₀₉ *, 8, 2, 3; 2000 DY₁₀₉ *, 8, 2, 5; 2000 DZ₁₀₉ *, 25, 4, 11; 2000 DA₁₁₀ *, 9, 2, 3; 2000 DB₁₁₀ *, 15, 3, 11; 2000 DC₁₁₀ *, 8, 2, 3; 2000 DD₁₁₀ *, 9, 2, 3; 2000 DE₁₁₀ *, 8, 2, 3; 2000 DF₁₁₀ *, 13, 3, 11; 2000 DG₁₁₀ *, 12, 3, 8; 2000 DH₁₁₀ *, 5, 1, 0; 2000 DI₁₁₀ *, 4, 1, 0; 2000 DJ₁₁₀ *, 15, 3, 36; 2000 DK₁₁₀ *, 8, 2, 30; 2000 DL₁₁₀ *, 12, 3, 4; 2000 DM₁₁₀ *, 28, 6, 449; 2000 DN₁₁₀ *, 34, 7, 10; 2000 EA₁ *, 18, 4, 1; 2000 EB₁ *, 8, 2, 6; 2000 EC₁ *, 24, 5, 11; 2000 ED₁ *, 8, 2, 7; 2000 EE₁ *, 10, 2, 11; 2000 EF₁ *, 4, 1, 0; 2000 EG₁ *, 24, 5, 11; 2000 EH₁ *, 7, 2, 24; 2000 EI₁ *, 4, 1, 0; 2000 EJ₁ *, 10, 2, 7; 2000 EK₁ *, 4, 1, 0; 2000 EL₁ *, 5, 1, 0; 2000 EM₁ *, 9, 2, 4; 2000 EN₁ *, 9, 2, 4; 2000 EO₁ *, 9, 2, 4; 2000 EP₁ *, 10, 2, 7; 2000 EQ₁ *, 4, 1, 0; 2000 ER₁ *, 5, 1, 0; 2000 ES₁ *, 5, 1, 0; 2000 ET₁ *, 9, 2, 7; 2000 EU₁ *, 9, 2, 4; 2000 EV₁ *, 3, 1, 0; 2000 EW₁ *, 8, 2, 1; 2000 EX₁ *, 9, 2, 1; 2000 EY₁ *, 7, 2, 1; 2000 EZ₁ *, 9, 2, 1; 2000 EA₂ *, 8, 2, 1; 2000 EB₂ *, 8, 2, 1; 2000 EC₂ *, 18, 4, 31; 2000 ED₂ *, 24, 5, 11; 2000 EE₂ *, 22, 5, 11; 2000 EF₂ *, 9, 2, 1; 2000 EG₂ *, 7, 2, 1; 2000 EH₂ *, 7, 2, 1; 2000 EI₂ *, 9, 2, 1; 2000 EJ₂ *, 12, 3, 2; 2000 EK₂ *, 9, 2, 1; 2000 EL₂ *, 9, 2, 1; 2000 EM₂ *, 9, 2, 1; 2000 EN₂ *, 8, 2, 1; 2000 EO₂ *, 8, 2, 1; 2000 EP₂ *, 9, 2, 1; 2000 EQ₂ *, 14, 3, 8; 2000 ER₂ *, 8, 2, 1; 2000 ES₂ *, 9, 2, 1; 2000 ET₂ *, 12, 3, 2; 2000 EU₂ *, 15, 3, 2; 2000 EV₂ *, 11, 3, 8; 2000 EW₂ *, 9,

3, 8; 2000 EH₁₀ *, 14, 3, 8; 2000 EJ₁₀ *, 23, 5, 11; 2000 EK₁₀ *, 19, 4, 8; 2000 EL₁₀ *, 17, 4, 9; 2000 EM₁₀ *, 14, 3, 8; 2000 EN₁₀ *, 19, 4, 8; 2000 EO₁₀ *, 13, 3, 8; 2000 EP₁₀ *, 21, 5, 11; 2000 EQ₁₀ *, 14, 3, 8; 2000 ER₁₀ *, 8, 2, 1; 2000 ES₁₀ *, 13, 2, 1; 2000 ET₁₀ *, 13, 2, 2; 2000 EU₁₀ *, 17, 4, 10; 2000 EV₁₀ *, 29, 5, 8; 2000 EW₁₀ *, 12, 3, 7; 2000 EX₁₀ *, 8, 2, 1; 2000 EY₁₀ *, 19, 3, 5; 2000 EZ₁₀ *, 14, 3, 8; 2000 EA₁₁ *, 11, 3, 8; 2000 EB₁₁ *, 10, 2, 1; 2000 EC₁₁ *, 14, 3, 8; 2000 ED₁₁ *, 10, 2, 1; 2000 EE₁₁ *, 15, 3, 8; 2000 EF₁₁ *, 33, 7, 90; 2000 EG₁₁ *, 8, 2, 1; 2000 EH₁₁ *, 14, 3, 5; 2000 EJ₁₁ *, 8, 2, 1; 2000 EK₁₁ *, 7, 2, 1; 2000 EL₁₁ *, 18, 4, 92; 2000 EM₁₁ *, 29, 7, 95; 2000 EN₁₁ *, 17, 4, 30; 2000 EO₁₁ *, 7, 2, 1; 2000 EP₁₁ *, 17, 4, 8; 2000 EQ₁₁ *, 17, 4, 8; 2000 ER₁₁ *, 18, 3, 5; 2000 ES₁₁ *, 17, 3, 5; 2000 ET₁₁ *, 8, 2, 2; 2000 EU₁₁ *, 18, 4, 8; 2000 EV₁₁ *, 7, 2, 2; 2000 EW₁₁ *, 13, 3, 8; 2000 EX₁₁ *, 12, 3, 5; 2000 EY₁₁ *, 13, 3, 8; 2000 EZ₁₁ *, 12, 3, 5; 2000 EA₁₂ *, 12, 3, 8; 2000 EB₁₂ *, 17, 4, 8; 2000 EC₁₂ *, 10, 2, 1; 2000 ED₁₂ *, 10, 2, 1; 2000 EE₁₂ *, 17, 4, 8; 2000 EF₁₂ *, 14, 3, 5; 2000 EG₁₂ *, 23, 5, 38; 2000 EH₁₂ *, 18, 4, 8; 2000 EJ₁₂ *, 24, 5, 38; 2000 EK₁₂ *, 18, 4, 5; 2000 EL₁₂ *, 23, 5, 8; 2000 EM₁₂ *, 24, 5, 8; 2000 EN₁₂ *, 18, 4, 5; 2000 EO₁₂ *, 13, 3, 8; 2000 EP₁₂ *, 14, 3, 8; 2000 EQ₁₂ *, 19, 4, 38; 2000 ER₁₂ *, 15, 3, 8; 2000 ES₁₂ *, 27, 6, 38; 2000 ET₁₂ *, 22, 5, 8; 2000 EU₁₂ *, 17, 4, 8; 2000 EV₁₂ *, 9, 2, 1; 2000 EW₁₂ *, 15, 3, 8; 2000 EX₁₂ *, 14, 3, 8; 2000 EY₁₂ *, 14, 3, 8; 2000 EZ₁₂ *, 15, 3, 8; 2000 EA₁₃ *, 10, 2, 1; 2000 EB₁₃ *, 11, 3, 8; 2000 EC₁₃ *, 19, 4, 8; 2000 ED₁₃ *, 10, 2, 2; 2000 EE₁₃ *, 15, 3, 8; 2000 EF₁₃ *, 7, 2, 2; 2000 EG₁₃ *, 10, 2, 1; 2000 EH₁₃ *, 18, 4, 6; 2000 EI₁₃ *, 22, 5, 29; 2000 EJ₁₃ *, 19, 4, 4; 2000 EK₁₃ *, 23, 5, 6; 2000 EL₁₃ *, 10, 2, 1; 2000 EM₁₃ *, 6, 2, 1; 2000 EN₁₃ *, 27, 5, 30; 2000 EO₁₃ *, 9, 2, 1; 2000 EP₁₃ *, 13, 3, 7; 2000 ER₁₃ *, 13, 3, 7; 2000 ES₁₃ *, 13, 3, 7; 2000 ET₁₃ *, 12, 3, 7; 2000 EU₁₃ *, 13, 3, 7; 2000 EV₁₃ *, 7, 2, 1; 2000 EW₁₃ *, 30, 6, 11; 2000 EX₁₃ *, 10, 2, 2; 2000 EY₁₃ *, 28, 6, 7; 2000 EZ₁₃ *, 15, 2, 2; 2000 EA₁₄ *, 15, 3, 3; 2000 EB₁₄ *, 17, 4, 6; 2000 EC₁₄ *, 10, 2, 1; 2000 ED₁₄ *, 10, 2, 1; 2000 EF₁₄ *, 13, 2, 1; 2000 EG₁₄ *, 15, 3, 3; 2000 EH₁₄ *, 14, 3, 3; 2000 EI₁₄ *, 15, 3, 3; 2000 EJ₁₄ *, 10, 2, 1; 2000 EK₁₄ *, 10, 2, 1; 2000 EL₁₄ *, 4, 1, 0; 2000 EM₁₄ *, 13, 3, 37; 2000 EN₁₄ *, 5, 1, 0; 2000 EO₁₄ *, 9, 2, 3; 2000 EP₁₄ *, 13, 3, 11; 2000 EQ₁₄ *, 8, 2, 3; 2000 ER₁₄ *, 9, 2, 2; 2000 ES₁₄ *, 9, 2, 1; 2000 ET₁₄ *, 9, 2, 2; 2000 EU₁₄ *, 9, 2, 1; 2000 EV₁₄ *, 14, 3, 8; 2000 EW₁₄ *, 23, 5, 37; 2000 EX₁₄ *, 15, 3, 6; 2000 EY₁₄ *, 39, 8, 29; 2000 EZ₁₄ *, 9, 2, 1; 2000 EA₁₅ *, 5, 1, 0; 2000 EB₁₅ *, 5, 1, 0; 2000 EC₁₅ *, 4, 1, 0; 2000 ED₁₅ *, 3, 1, 0; 2000 EE₁₅ *, 10, 2, 2; 2000 EF₁₅ *, 5, 1, 0; 2000 EG₁₅ *, 10, 2, 2; 2000 EH₁₅ *, 5, 1, 0; 2000 EI₁₅ *, 5, 1, 0; 2000 EJ₁₅ *, 5, 1, 0; 2000 EK₁₅ *, 8, 2, 3; 2000 EL₁₅ *, 5, 1, 0; 2000 EM₁₅ *, 5, 1, 0; 2000 EN₁₅ *, 15, 3, 5; 2000 EO₁₅ *, 5, 1, 0; 2000 EP₁₅ *, 5, 1, 0; 2000 EQ₁₅ *, 14, 2, 1; 2000 ER₁₅ *, 3, 1, 0; 2000 ES₁₅ *, 4, 1, 0; 2000 ET₁₅ *, 4, 1, 0; 2000 EU₁₅ *, 4, 1, 0; 2000 EV₁₅ *, 4, 1, 0; 2000 EW₁₅ *, 4, 1, 0; 2000 EX₁₅ *, 4, 1, 0; 2000 EY₁₅ *, 4, 1, 0; 2000 EZ₁₅ *, 4, 1, 0; 2000 EA₁₆ *, 13, 2, 1; 2000 EB₁₆ *, 3, 1, 0; 2000 EC₁₆ *, 3, 1, 0; 2000 ED₁₆ *, 5, 1, 0; 2000 EE₁₆ *, 9, 2, 7; 2000 EF₁₆ *, 11, 2, 5; 2000 EG₁₆ *, 14, 3, 9; 2000 EH₁₆ *, 8, 2, 5; 2000 EI₁₆ *, 25, 5, 11; 2000 EJ₁₆ *, 22, 5, 11; 2000 EK₁₆ *, 13, 3, 8; 2000 EL₁₆ *, 13, 3, 8; 2000 EM₁₆ *, 13, 3, 8; 2000 EN₁₆ *, 10, 2, 5; 2000 EO₁₆ *, 8, 2, 5; 2000 EP₁₆ *, 8, 2, 5; 2000 EQ₁₆ *, 7, 2, 5; 2000 ER₁₆ *, 13, 3, 8; 2000 ES₁₆ *, 15, 3, 8; 2000 ET₁₆ *, 20, 4, 32; 2000 EU₁₆

2, 1; 2000 EU₂₃, 4, 1, 0; 2000 EV₂₃, 10, 2, 1; 2000 EW₂₃, 4, 1, 0; 2000 EX₂₃, 4, 1, 0; 2000 EY₂₃, 10, 2, 1; 2000 EA₂₄, 8, 2, 1; 2000 EC₂₄, 8, 2, 1; 2000 EE₂₄, 3, 1, 0; 2000 EF₂₄, 10, 2, 1; 2000 EH₂₄, 3, 1, 0; 2000 EJ₂₄, 3, 1, 0; 2000 EL₂₄, 9, 2, 1; 2000 EM₂₄, 9, 2, 1; 2000 EN₂₄, 8, 2, 1; 2000 EO₂₄, 9, 2, 1; 2000 EQ₂₄, 3, 1, 0; 2000 ER₂₄, 10, 2, 1; 2000 ES₂₄, 3, 1, 0; 2000 ET₂₄, 8, 2, 1; 2000 EU₂₄, 10, 2, 1; 2000 EV₂₄, 10, 2, 1; 2000 EX₂₄, 11, 2, 1; 2000 EZ₂₄, 5, 1, 0; 2000 EB₂₅, 4, 1, 0; 2000 EC₂₅, 9, 2, 1; 2000 ED₂₅, 3, 1, 0; 2000 EH₂₅, 15, 3, 3; 2000 EJ₂₅, 9, 2, 1; 2000 EK₂₅, 4, 1, 0; 2000 EN₂₅, 19, 2, 1; 2000 EO₂₅, 14, 2, 1; 2000 EP₂₅, 12, 2, 1; 2000 EQ₂₅, 20, 3, 3; 2000 ER₂₅, 15, 2, 1; 2000 ES₂₅, 20, 3, 2; 2000 ET₂₅, 4, 1, 0; 2000 EV₂₅, 13, 2, 1; 2000 EW₂₅, 16, 4, 3; 2000 EZ₂₅, 25, 4, 3; 2000 EB₂₆, 12, 3, 2; 2000 EC₂₆, 20, 4, 3; 2000 EF₂₆, 12, 3, 4; 2000 EH₂₆, 4, 1, 0; 2000 EJ₂₆, 8, 2, 5; 2000 EK₂₆, 13, 3, 4; 2000 EL₂₆, 14, 3, 4; 2000 EM₂₆, 17, 4, 4; 2000 EN₂₆, 5, 1, 0; 2000 EP₂₆, 15, 3, 3; 2000 EQ₂₆, 12, 3, 3; 2000 ER₂₆, 13, 3, 3; 2000 ES₂₆, 14, 3, 2; 2000 ET₂₆, 12, 3, 2; 2000 EV₂₆, 7, 2, 1; 2000 EW₂₆, 10, 2, 1; 2000 EX₂₆, 7, 2, 1; 2000 EZ₂₆, 11, 3, 9; 2000 EB₂₇, 10, 3, 8; 2000 EC₂₇, 13, 3, 8; 2000 ED₂₇, 8, 2, 6; 2000 EH₂₇, 14, 3, 8; 2000 EJ₂₇, 13, 3, 8; 2000 EK₂₇, 15, 3, 8; 2000 EL₂₇, 14, 3, 8; 2000 EM₂₇, 15, 3, 8; 2000 EN₂₇, 15, 3, 8; 2000 EO₂₇, 15, 3, 8; 2000 EP₂₇, 9, 2, 6; 2000 EQ₂₇, 8, 2, 5; 2000 ER₂₇, 6, 2, 5; 2000 ES₂₇, 8, 2, 5; 2000 ET₂₇, 9, 3, 8; 2000 EU₂₇, 15, 3, 8; 2000 EV₂₇, 13, 3, 8; 2000 EW₂₇, 14, 3, 8; 2000 EX₂₇, 7, 2, 5; 2000 EZ₂₇, 8, 2, 5; 2000 EB₂₈, 13, 3, 8; 2000 EC₂₈, 18, 4, 38; 2000 ED₂₈, 13, 3, 8; 2000 EE₂₈, 14, 3, 8; 2000 EF₂₈, 15, 3, 8; 2000 EG₂₈, 15, 3, 8; 2000 EH₂₈, 15, 3, 8; 2000 EJ₂₈, 10, 2, 5; 2000 EK₂₈, 20, 4, 38; 2000 EL₂₈, 8, 2, 5; 2000 EM₂₈, 15, 3, 8; 2000 EN₂₈, 10, 2, 5; 2000 EO₂₈, 15, 3, 8; 2000 EP₂₈, 10, 2, 5; 2000 EQ₂₈, 19, 4, 38; 2000 ER₂₈, 15, 3, 8; 2000 ES₂₈, 13, 3, 8; 2000 ET₂₈, 7, 2, 5; 2000 EV₂₈, 9, 2, 5; 2000 EW₂₈, 8, 2, 5; 2000 EX₂₈, 15, 3, 11; 2000 EY₂₈, 7, 2, 5; 2000 EZ₂₈, 8, 2, 5; 2000 EB₂₉, 9, 2, 5; 2000 EC₂₉, 15, 3, 8; 2000 ED₂₉, 15, 3, 8; 2000 EE₂₉, 10, 2, 5; 2000 EF₂₉, 15, 3, 11; 2000 EG₂₉, 8, 2, 4; 2000 EH₂₉, 8, 2, 4; 2000 EJ₂₉, 9, 2, 4; 2000 EK₂₉, 9, 2, 4; 2000 EL₂₉, 11, 2, 4; 2000 EM₂₉, 14, 2, 4; 2000 EN₂₉, 18, 3, 7; 2000 EO₂₉, 15, 2, 4; 2000 EP₂₉, 9, 2, 4; 2000 EQ₂₉, 9, 2, 4; 2000 ER₂₉, 9, 2, 4; 2000 ES₂₉, 19, 4, 13; 2000 ET₂₉, 10, 2, 4; 2000 EU₂₉, 13, 3, 7; 2000 EV₂₉, 13, 2, 4; 2000 EW₂₉, 10, 2, 4; 2000 EX₂₉, 12, 3, 7; 2000 EY₂₉, 10, 2, 4; 2000 EZ₂₉, 10, 2, 4; 2000 EB₃₀, 14, 3, 7; 2000 EC₃₀, 15, 3, 7; 2000 ED₃₀, 19, 4, 37; 2000 EE₃₀, 27, 6, 68; 2000 EF₃₀, 15, 3, 7; 2000 EG₃₀, 23, 5, 38; 2000 EH₃₀, 10, 2, 4; 2000 EJ₃₀, 15, 3, 7; 2000 EK₃₀, 19, 3, 7; 2000 EL₃₀, 19, 4, 37; 2000 EM₃₀, 15, 3, 7; 2000 EN₃₀, 7, 2, 4; 2000 EO₃₀, 14, 3, 7; 2000 EP₃₀, 10, 2, 4; 2000 EQ₃₀, 15, 3, 7; 2000 ER₃₀, 27, 6, 66; 2000 ES₃₀, 18, 4, 38; 2000 ET₃₀, 10, 2, 4; 2000 EV₃₀, 15, 3, 7; 2000 EW₃₀, 10, 2, 4; 2000 EX₃₀, 10, 2, 4; 2000 EY₃₀, 8, 2, 4; 2000 EZ₃₀, 10, 2, 4; 2000 EB₃₁, 14, 3, 7; 2000 EC₃₁, 10, 2, 4; 2000 ED₃₁, 10, 2, 4; 2000 EE₃₁, 23, 5, 65; 2000 EF₃₁, 13, 3, 7; 2000 EG₃₁, 15, 3, 7; 2000 EH₃₁, 15, 3, 7; 2000 EJ₃₁, 10, 2, 4; 2000 EK₃₁, 21, 5, 30; 2000 EL₃₁, 9, 2, 4; 2000 EM₃₁, 6, 2, 4; 2000 EN₃₁, 14, 3, 7; 2000 EO₃₁, 18, 4, 38; 2000 EP₃₁, 9, 2, 4; 2000 EQ₃₁, 8, 2, 4; 2000 ER₃₁, 12, 3, 27; 2000 ES₃₁, 8, 2, 4; 2000 ET₃₁, 12, 3, 7; 2000 EU₃₁, 8, 2, 4; 2000 EV₃₁, 14, 3, 6; 2000 EW₃₁, 9, 2, 4; 2000 EX₃₁, 17, 4, 30; 2000 EY₃₁, 29, 5, 30; 2000 EZ₃₁, 12, 3, 7; 2000 EB₃₂, 9, 2, 4; 2000 EC₃₂, 13, 3, 7; 2000 ED₃₂, 29, 6, 454; 2000 EE₃₂, 10, 2, 4; 2000 EF₃₂, 10, 2, 4; 2000 EG₃₂, 14, 3, 7; 2000 EH₃₂, 14, 3, 32; 2000 EJ₃₂, 15, 4, 30; 2000 EK₃₂, 10, 2, 4; 2000 EL₃₂, 13, 3, 6; 2000 EM₃₂, 15, 3, 7; 2000 EN₃₂, 18, 4, 37; 2000 EO₃₂, 15, 3, 7; 2000 EP₃₂, 9, 2, 4; 2000 EQ₃₂, 10, 2, 4; 2000 ER₃₂, 10, 2, 4; 2000 ES₃₂, 7, 2, 4; 2000 ET₃₂, 15, 3, 7; 2000 EV₃₂, 15, 3, 7; 2000 EW₃₂, 10, 2, 4; 2000 EX₃₂, 15, 3, 7; 2000 EY₃₂, 7, 2, 4; 2000 EZ₃₂, 8, 2, 4; 2000 EB₃₃, 10, 2, 4; 2000 EC₃₃, 7, 2, 4; 2000 ED₃₃, 7, 2, 4; 2000 EE₃₃, 15, 3, 7; 2000 EF₃₃, 8, 2, 4; 2000 EG₃₃, 12, 3, 7; 2000 EH₃₃, 8, 2, 4; 2000 EJ₃₃, 9, 2, 4; 2000 EK₃₃, 12, 2, 4; 2000 EL₃₃, 16, 4, 12; 2000 EM₃₃, 14, 3, 7; 2000 EN₃₃, 18, 3, 7; 2000 EO₃₃, 10, 2, 4; 2000 EP₃₃, 15, 3, 7; 2000 EQ₃₃, 10, 3, 7; 2000 ER₃₃, 9, 2, 4; 2000 ES₃₃, 8, 2, 4; 2000 ET₃₃, 19, 4, 7; 2000 EU₃₃, 9, 2, 4; 2000 EV₃₃, 8, 2, 4; 2000 EW₃₃, 10, 2, 4; 2000 EX₃₃, 11, 3, 7; 2000 EY₃₃, 13, 3, 7; 2000 EZ₃₃, 9, 2, 4; 2000 EB₃₄, 13, 3, 7; 2000 EC₃₄, 19, 4, 37; 2000 ED₃₄, 15, 3, 7; 2000 EF₃₄, 29, 6, 488; 2000 EG₃₄, 12, 3, 7; 2000 EH₃₄, 7, 2, 4; 2000 EJ₃₄, 13, 3, 7; 2000 EK₃₄, 12, 3, 7; 2000 EL₃₄, 13, 3, 7; 2000 EM₃₄, 12, 3, 7; 2000 EN₃₄, 10, 3, 7; 2000 EO₃₄, 13, 3, 7; 2000 EP₃₄, 13, 3, 7; 2000 EQ₃₄, 12, 3, 6; 2000 ER₃₄, 13, 3, 10; 2000 ES₃₄, 6, 2, 4; 2000 ET₃₄, 7, 2, 4; 2000 EU₃₄, 9, 3, 7; 2000 EV₃₄, 10, 2, 3; 2000 EW₃₄, 12, 3, 3; 2000 EX₃₄, 9, 2, 3; 2000 EY₃₄, 19, 4, 8; 2000 EZ₃₄, 8, 2, 3; 2000 EB₃₅, 8, 2, 3; 2000 EC₃₅, 7, 2, 3; 2000 ED₃₅, 10, 3, 32; 2000 EF₃₅, 14, 2, 1; 2000 EG₃₅, 16, 4, 5; 2000 EH₃₅, 9, 2, 1; 2000 EJ₃₅, 10, 2, 1; 2000 EK₃₅, 18, 4, 27; 2000 EL₃₅, 10, 2, 1; 2000 EM₃₅, 8, 2, 1; 2000 EN₃₅, 15, 3, 4; 2000 EO₃₅, 7, 2, 1; 2000 EP₃₅, 13, 3, 4; 2000 EQ₃₅, 14, 3, 4; 2000 ER₃₅, 8, 2, 1; 2000 ES₃₅, 18, 3, 8; 2000 ET₃₅, 8, 2, 1; 2000 EU₃₅, 7, 2, 1; 2000 EV₃₅, 7, 2, 1; 2000 EW₃₅, 18, 3, 8; 2000 EX₃₅, 17, 3, 8; 2000 EY₃₅, 14, 3, 8; 2000 EZ₃₅, 13, 3, 8; 2000 EB₃₆, 12, 3, 8; 2000 EC₃₆, 20, 3, 8; 2000 ED₃₆, 13, 3, 8; 2000 EE₃₆, 18, 4, 11; 2000 EF₃₆, 14, 3, 7; 2000 EG₃₆, 15, 2, 5; 2000 EH₃₆, 13, 3, 7; 2000 EJ₃₆, 9, 2, 5; 2000 EK₃₆, 14, 3, 7; 2000 EL₃₆, 24, 4, 8; 2000 EM₃₆, 14, 3, 7; 2000 EN₃₆, 13, 3, 7; 2000 EO₃₆, 18, 4, 11; 2000 EP₃₆, 19, 4, 11; 2000 EQ₃₆, 17, 4, 11; 2000 ER₃₆, 14, 3, 3; 2000 ES₃₆, 15, 3, 3; 2000 ET₃₆, 19, 4, 11; 2000 EV₃₆, 23, 5, 66; 2000 EW₃₆, 15, 3, 3; 2000 EX₃₆, 15, 3, 3; 2000 EY₃₆, 15, 3, 3; 2000 EZ₃₆, 15, 3, 3; 2000 EB₃₇, 15, 3, 3; 2000 EC₃₇, 15, 3, 3; 2000 ED₃₇, 15, 3, 3; 2000 EE₃₇, 13, 3, 3; 2000 EF₃₇, 18, 4, 11; 2000 EG₃₇, 15, 3, 3; 2000 EH₃₇, 14, 3, 3; 2000 EJ₃₇, 14, 3, 3; 2000 EK₃₇, 15, 3, 3; 2000 EL₃₇, 15, 3, 3; 2000 EM₃₇, 14, 3, 3; 2000 EN₃₇, 14, 3, 3; 2000 EO₃₇, 14, 3, 3; 2000 EP₃₇, 15, 3, 3; 2000 EQ₃₇, 13, 3, 3; 2000 ER₃₇, 15, 3, 3; 2000 ES₃₇, 14, 3, 3; 2000 ET₃₇, 18, 4, 11; 2000 EV₃₇, 13, 3, 3; 2000 EW₃₇, 13, 3, 3; 2000 EX₃₇, 14, 3, 3; 2000 EY₃₇, 15, 3, 3; 2000 EZ₃₇, 18, 4, 11; 2000 EB₃₈, 15, 3, 3; 2000 EC₃₈, 15, 3, 3; 2000 ED₃₈, 14, 3, 3; 2000 EF₃₈, 14, 3, 3; 2000 EG₃₈, 15, 3, 3; 2000 EH₃₈, 15, 3, 3; 2000 EJ₃₈, 15, 3, 3; 2000 EK₃₈, 14, 3, 3; 2000 EL₃₈, 14, 3, 3; 2000 EM₃₈, 15, 3, 3; 2000 EN₃₈, 15, 3, 3; 2000 EO₃₈, 15, 3, 3; 2000 EP₃₈, 12, 3, 3; 2000 EQ₃₈, 14, 3, 3; 2000 ER₃₈, 15, 3, 3; 2000 ES₃₈, 15, 3, 3; 2000 ET₃₈, 13, 3, 3; 2000 EV₃₈, 15, 3, 3; 2000 EW₃₈, 15, 3, 3; 2000 EX₃₈, 15, 3, 3; 2000 EY₃₈, 15, 3, 3; 2000 EZ₃₈, 15, 3, 3; 2000 EB₃₉, 12, 3, 3; 2000 EC₃₉, 13, 3, 3; 2000 ED₃₉, 15, 3, 3; 2000 EE₃₉, 15, 3, 3; 2000 EF₃₉, 12, 3, 3; 2000 EG₃₉, 14, 3, 3; 2000 EH₃₉, 13, 3, 3; 2000 EJ₃₉, 11, 3, 3; 2000 EK₃₉, 15, 3, 3; 2000 EL₃₉, 15, 3, 3; 2000 EM₃₉, 14, 3, 3; 2000 EN₃₉, 14, 3, 3; 2000 EO₃₉, 14, 3, 3; 2000 EP₃₉, 15, 3, 3; 2000 EQ₃₉, 14, 3, 3; 2000 ER₃₉, 15, 3, 3; 2000 ES₃₉, 11, 3, 3; 2000 ET₃₉, 14, 3, 3; 2000 EV₃₉, 14, 3, 3; 2000 EW₃₉, 14, 3, 3; 2000 EX₃₉, 14, 3, 3; 2000 EY₃₉, 13, 3, 3; 2000 EZ₃₉, 15, 3, 3; 2000 EB₄₀, 15, 3, 3; 2000 EC₄₀, 14, 3, 3; 2000 ED₄₀, 14, 3, 3; 2000 EE₄₀, 14, 3, 3; 2000 EF₄₀, 10, 2, 2; 2000 EG₄₀, 10, 2, 2; 2000 EH₄₀, 10, 2, 2; 2000 EI₄₀, 15, 3, 3; 2000 EJ₄₀, 14, 3, 3; 2000 EK₄₀, 16, 3, 3; 2000 EL₄₀, 15, 3, 3; 2000 EM₄₀, 14, 3, 3; 2000 EN₄₀, 14, 3, 3; 2000 EO₄₀, 14, 2, 2; 2000 EP₄₀, 10, 2, 2; 2000 EQ₄₀, 14, 3, 4; 2000 ER₄₀, 20, 3, 3; 2000 ES₄₀, 20, 3, 3; 2000 ET₄₀, 13, 3, 3; 2000 EV₄₀, 13, 3, 3; 2000 EW₄₀, 13, 3, 3; 2000 EX₄₀, 14, 3, 3; 2000 EY₄₀, 14, 3, 3; 2000 EZ₄₀, 13, 3, 3; 2000 EB₄₁, 14, 3, 3; 2000 EC₄₁, 14, 3, 3; 2000 ED₄₁, 12, 3, 3; 2000 EE₄₁, 14, 3, 3; 2000 EF₄₁, 14, 3, 3; 2000 EG₄₁, 14, 3, 3; 2000 EH₄₁, 10, 2, 2; 2000 EI₄₁, 13, 3, 3; 2000 EJ₄₁, 12, 3, 3; 2000 EK₄₁, 14, 3, 3; 2000 EL₄₁, 10, 2, 2; 2000 EM₄₁, 13, 3, 3; 2000 EN₄₁, 10, 2, 2; 2000 EO₄₁, 10, 2, 2; 2000 EP₄₁, 10, 2, 2; 2000 EQ₄₁, 7, 2, 2; 2000 ER₄₁, 9, 2, 2; 2000 ES₄₁, 9, 2, 2; 2000 ET₄₁, 9, 2, 2; 2000 EV₄₁, 14, 3, 3; 2000 EW₄₁, 14, 3, 3; 2000 EX₄₁, 13, 3, 3; 2000 EY₄₁, 14, 3, 3; 2000 EZ₄₁, 13, 3, 3; 2000 EB₄₂, 8, 2, 2; 2000 EC₄₂, 14, 3, 3; 2000 ED₄₂, 14, 3, 3; 2000 EE₄₂, 14, 3, 3; 2000 EF₄₂, 13, 3, 3; 2000 EG₄₂, 13, 3, 3; 2000 EH₄₂, 13, 3, 3; 2000 EI₄₂, 14, 3, 3; 2000 EJ₄₂, 14, 3, 3; 2000 EK₄₂, 8, 2, 2; 2000 EL₄₂, 8, 2, 2; 2000 EM₄₂, 13, 3, 3; 2000 EN₄₂, 14, 3, 3; 2000 EO₄₂, 11, 3, 3; 2000 EP₄₂, 13, 3, 3; 2000 EQ₄₂, 12, 3, 3; 2000 ER₄₂, 13, 3, 3; 2000 ES₄₂, 13, 3, 3; 2000 ET₄₂, 14, 3, 3; 2000 EV₄₂, 13, 3, 3; 2000 EW₄₂, 13, 3, 3; 2000 EX₄₂, 13, 3, 3; 2000 EY₄₂, 13, 3, 3; 2000 EZ₄₂, 13, 3, 3; 2000 EB₄₃, 14, 3, 3; 2000 EC₄₃, 14, 3, 3; 2000 ED₄₃, 16, 3, 3; 2000 EF₄₃, 17, 3, 3; 2000 EG₄₃, 17, 3, 3; 2000 EH₄₃, 17, 3, 3; 2000 EI₄₃, 13, 3, 5; 2000 EJ₄₃, 21, 5, 5; 2000 EK₄₃, 6, 2, 2; 2000 EL₄₃, 13, 3, 3; 2000 EM₄₃, 13, 3, 3; 2000 EN₄₃, 13, 3, 3; 2000 EO₄₃, 12, 3, 3; 2000 EP₄₃, 11, 3, 3; 2000 EQ₄₃, 13, 3, 3; 2000 ER₄₃, 13, 3, 3; 2000 ES₄₃, 9, 2, 2; 2000 ET₄₃, 9, 2, 2; 2000 EV₄₃, 13, 3, 3; 2000 EW₄₃, 13, 3, 3; 2000 EX₄₃, 8, 2, 2; 2000 EY₄₃, 9, 2, 2; 2000 EZ₄₃, 12, 3, 3; 2000 EB₄₄, 10, 3, 3; 2000 EC₄₄, 18, 3, 3; 2000 ED₄₄, 11, 3, 3; 2000 EE₄₄, 9, 2, 1; 2000 EF₄₄, 14, 3, 2; 2000 EG₄₄, 14, 3, 2; 2000 EH₄₄, 14, 3, 2; 2000 EI₄₄, 13, 3, 2; 2000 EJ₄₄, 13, 3, 2; 2000 EK₄₄, 14, 3, 2; 2000 EL₄₄, 15, 3, 2; 2000 EM₄₄, 15, 3, 2; 2000 EN₄₄, 6, 2, 1; 2000 EO₄₄, 10, 2, 1; 2000 EP₄₄, 14, 3, 2; 2000 EQ₄₄, 11, 3, 2; 2000 ER₄₄, 15, 3, 2; 2000 ES₄₄, 10, 3, 2; 2000 ET₄₄, 15, 3, 2; 2000 EV₄₄, 15, 3, 2; 2000 EW₄₄, 15, 3, 2; 2000 EX₄₄, 13, 3, 2; 2000 EY₄₄, 14, 3, 2; 2000 EZ₄₄, 13, 3, 2; 2000 EB₄₅, 13, 3, 2; 2000 EC₄₅, 14, 3, 2; 2000 ED₄₅, 14, 3, 2; 2000 EE₄₅, 15, 3, 2; 2000 EF₄₅, 15, 3, 2; 2000 EG₄₅, 15, 3, 2; 2000 EH₄₅, 15, 3, 2; 2000 EI₄₅, 15, 3, 2; 2000 EJ₄₅, 15, 3, 2; 2000 EK₄₅, 15, 3, 2; 2000 EL₄₅, 15, 3, 2; 2000 EM₄₅, 15, 3, 2; 2000 EN₄₅, 10, 2, 1; 2000 EO₄₅, 14, 3, 2; 2000 EP₄₅, 15, 3, 2; 2000 EQ₄₅, 14, 3, 2; 2000 ER₄₅, 10, 3, 2; 2000 ES₄₅, 13, 3, 2; 2000 ET₄₅, 15, 3, 2; 2000 EV₄₅, 14, 3, 2; 2000 EW₄₅, 15, 3, 2; 2000 EX₄₅, 15, 3, 2; 2000 EY₄₅, 11, 3, 2; 2000 EZ₄₅, 15, 3, 2; 2000 EB₄₆, 14, 3, 2; 2000 EC₄₆, 14, 3, 2; 2000 ED₄₆, 14, 3, 2; 2000 EF₄₆, 14, 3, 2; 2000 EG₄₆, 14, 3, 2; 2000 EH₄₆, 14, 3, 2; 2000 EI₄₆, 14, 3, 2; 2000 EJ₄₆, 14, 3, 2; 2000 EK₄₆, 14, 3, 2; 2000 EL₄₆, 14, 3, 2; 2000 EM₄₆, 12, 3, 2; 2000 EN₄₆, 14, 3, 2; 2000 EO₄₆, 14, 3, 2; 2000 EP₄₆, 11, 3, 2; 2000 EQ₄₆, 13, 3, 2; 2000 ER

2000 MAR. 20

M.P.C. 39011

2, 1; 2000 EF₄₇ *, 14, 3, 2; 2000 EG₄₇ *, 13, 3, 2; 2000 EH₄₇ *, 12, 3, 2; 2000 EJ₄₇ *, 14, 3, 2; 2000 EK₄₇ *, 14, 3, 2; 2000 EL₄₇ *, 10, 2, 1; 2000 EM₄₇ *, 10, 2, 1; 2000 EN₄₇ *, 10, 2, 1; 2000 EO₄₇ *, 8, 2, 1; 2000 EP₄₇ *, 10, 2, 1; 2000 EQ₄₇ *, 7, 2, 1; 2000 ER₄₇ *, 10, 2, 1; 2000 ES₄₇ *, 9, 2, 1; 2000 ET₄₇ *, 14, 3, 2; 2000 EU₄₇ *, 9, 2, 1; 2000 EV₄₇ *, 10, 2, 1; 2000 EW₄₇ *, 10, 2, 1; 2000 EX₄₇ *, 9, 2, 1; 2000 EY₄₇ *, 10, 2, 1; 2000 EZ₄₇ *, 10, 2, 1; 2000 EA₄₈ *, 10, 2, 1; 2000 EB₄₈ *, 8, 2, 1; 2000 EC₄₈ *, 10, 2, 1; 2000 ED₄₈ *, 8, 2, 1; 2000 EE₄₈ *, 10, 2, 1; 2000 EF₄₈ *, 7, 2, 1; 2000 EG₄₈ *, 8, 2, 1; 2000 EH₄₈ *, 9, 2, 1; 2000 EJ₄₈ *, 10, 2, 1; 2000 EK₄₈ *, 9, 2, 1; 2000 EL₄₈ *, 7, 2, 1; 2000 EM₄₈ *, 8, 2, 1; 2000 EN₄₈ *, 9, 2, 1; 2000 EO₄₈ *, 9, 2, 1; 2000 EP₄₈ *, 9, 2, 1; 2000 EQ₄₈ *, 9, 2, 1; 2000 ER₄₈ *, 10, 2, 1; 2000 ES₄₈ *, 10, 2, 1; 2000 ET₄₈ *, 9, 2, 1; 2000 EU₄₈ *, 9, 2, 1; 2000 EV₄₈ *, 9, 2, 1; 2000 EW₄₈ *, 14, 3, 2; 2000 EX₄₈ *, 12, 3, 2; 2000 EY₄₈ *, 14, 3, 2; 2000 EZ₄₈ *, 12, 3, 2; 2000 EA₄₉ *, 12, 3, 2; 2000 EB₄₉ *, 12, 3, 2; 2000 EC₄₉ *, 7, 2, 1; 2000 ED₄₉ *, 8, 2, 1; 2000 EE₄₉ *, 9, 2, 1; 2000 EF₄₉ *, 9, 2, 1; 2000 EG₄₉ *, 9, 2, 1; 2000 EH₄₉ *, 6, 2, 1; 2000 EJ₄₉ *, 10, 3, 2; 2000 EK₄₉ *, 10, 3, 2; 2000 EL₄₉ *, 11, 3, 3; 2000 EM₄₉ *, 14, 3, 3; 2000 EN₄₉ *, 11, 3, 3; 2000 EO₄₉ *, 7, 2, 1; 2000 EP₄₉ *, 7, 2, 1; 2000 EQ₄₉ *, 24, 5, 63; 2000 ER₄₉ *, 10, 3, 3; 2000 ES₄₉ *, 8, 2, 1; 2000 ET₄₉ *, 8, 2, 1; 2000 EU₄₉ *, 7, 2, 1; 2000 EW₄₉ *, 5, 1, 0; 2000 EX₄₉ *, 20, 5, 67; 2000 EY₄₉ *, 10, 2, 1; 2000 EA₅₀ *, 5, 1, 0; 2000 ED₅₀ *, 3, 1, 0; 2000 EF₅₀ *, 3, 1, 0; 2000 EH₅₀ *, 10, 2, 3; 2000 EN₅₀ *, 10, 2, 1; 2000 EO₅₀ *, 5, 1, 0; 2000 EP₅₀ *, 4, 1, 0; 2000 EQ₅₀ *, 5, 1, 0; 2000 ES₅₀ *, 5, 1, 0; 2000 EW₅₀ *, 5, 1, 0; 2000 EX₅₁ *, 6, 2, 6; 2000 ED₅₁ *, 4, 1, 0; 2000 EH₅₁ *, 3, 1, 0; 2000 EK₅₁ *, 5, 1, 0; 2000 EM₅₁ *, 7, 2, 8; 2000 EZ₅₁ *, 5, 1, 0; 2000 ED₅₂ *, 3, 1, 0; 2000 EF₅₂ *, 9, 2, 8; 2000 EH₅₂ *, 8, 2, 8; 2000 ER₅₂ *, 7, 2, 8; 2000 EL₅₃ *, 9, 2, 1; 2000 EU₅₄ *, 5, 1, 0; 2000 EB₅₅ *, 8, 2, 4; 2000 EK₅₅ *, 5, 1, 0; 2000 EP₅₅ *, 8, 2, 7; 2000 EQ₅₅ *, 7, 2, 6; 2000 ER₅₅ *, 9, 2, 6; 2000 ES₅₅ *, 15, 3, 7; 2000 ET₅₅ *, 9, 2, 6; 2000 EU₅₅ *, 9, 2, 6; 2000 EV₅₅ *, 7, 2, 6; 2000 EW₅₅ *, 7, 2, 6; 2000 EX₅₅ *, 10, 2, 6; 2000 EY₅₅ *, 9, 2, 6; 2000 EZ₅₅ *, 12, 2, 6; 2000 EA₅₆ *, 10, 2, 6; 2000 EB₅₆ *, 15, 3, 7; 2000 EC₅₆ *, 8, 2, 6; 2000 ED₅₆ *, 9, 2, 3; 2000 EE₅₆ *, 9, 2, 3; 2000 EF₅₆ *, 8, 2, 3; 2000 EG₅₆ *, 9, 2, 3; 2000 EH₅₆ *, 8, 2, 3; 2000 EJ₅₆ *, 13, 3, 8; 2000 EK₅₆ *, 9, 2, 3; 2000 EL₅₆ *, 13, 3, 11; 2000 EM₅₆ *, 9, 2, 3; 2000 EN₅₆ *, 10, 2, 3; 2000 EO₅₆ *, 13, 3, 32; 2000 EP₅₆ *, 10, 2, 3; 2000 EQ₅₆ *, 29, 6, 864; 2000 ER₅₆ *, 13, 3, 63; 2000 ES₅₆ *, 8, 2, 3; 2000 ET₅₆ *, 8, 2, 3; 2000 EU₅₆ *, 10, 2, 3; 2000 EV₅₆ *, 10, 2, 3; 2000 EW₅₆ *, 10, 2, 3; 2000 EX₅₆ *, 9, 2, 3; 2000 EY₅₆ *, 9, 2, 3; 2000 EZ₅₆ *, 10, 2, 3; 2000 EA₅₇ *, 10, 2, 3; 2000 EB₅₇ *, 21, 5, 66; 2000 EC₅₇ *, 9, 2, 3; 2000 ED₅₇ *, 10, 2, 3; 2000 EF₅₇ *, 13, 3, 32; 2000 EG₅₇ *, 10, 2, 3; 2000 EH₅₇ *, 8, 2, 3; 2000 EJ₅₇ *, 9, 2, 3; 2000 EK₅₇ *, 9, 2, 3; 2000 EL₅₇ *, 9, 2, 3; 2000 EM₅₇ *, 8, 2, 3; 2000 EN₅₇ *, 9, 2, 3; 2000 EO₅₇ *, 9, 2, 3; 2000 EP₅₇ *, 10, 2, 3; 2000 EQ₅₇ *, 15, 3, 7; 2000 ER₅₇ *, 13, 3, 7; 2000 ES₅₇ *, 15, 3, 7; 2000 ET₅₇ *, 13, 3, 5; 2000 EU₅₇ *, 9, 2, 3; 2000 EV₅₇ *, 9, 2, 3; 2000 EW₅₇ *, 9, 2, 3; 2000 EX₅₇ *, 8, 2, 3; 2000 EY₅₇ *, 13, 3, 11; 2000 EZ₅₇ *, 9, 2, 3; 2000 EA₅₈ *, 9, 2, 3; 2000 EB₅₈ *, 10, 2, 3; 2000 EC₅₈ *, 13, 3, 11; 2000 ED₅₈ *, 10, 2, 3; 2000 EF₅₈ *, 7, 2, 3; 2000 EG₅₈ *, 14, 3, 7; 2000 EH₅₈ *, 8, 2, 3; 2000 EI₅₈ *, 8, 2, 3; 2000 EJ₅₈ *, 8, 2, 3; 2000 EK₅₈ *, 8, 2, 3; 2000 EL₅₈ *, 9, 2, 3; 2000 EM₅₈ *, 9, 2, 3; 2000 EN₅₈ *, 8, 2, 3; 2000 EO₅₈ *, 8, 2, 3; 2000 EP₅₈ *, 7, 2, 3; 2000 EQ₅₈ *, 7, 2, 3; 2000 ER₅₈ *, 8, 2, 3; 2000 ES₅₈ *, 13, 3, 3; 2000 ET₅₈ *, 7, 2, 3; 2000 EU₅₈ *, 8, 2, 2; 2000 EV₅₈ *, 10, 2, 2; 2000 EW₅₈ *, 7, 2, 2; 2000 EX₅₈ *, 8, 2, 2; 2000 EY₅₈ *, 8, 2, 2; 2000 EZ₅₈ *, 9, 2, 2; 2000 EA₅₉ *, 9, 2, 2; 2000 EB₅₉ *, 9, 2, 2; 2000 EC₅₉ *, 8, 2, 2; 2000 ED₅₉ *, 9, 2, 2; 2000 EE₅₉ *, 9, 2, 2; 2000 EF₅₉ *, 7, 2, 2; 2000 EG₅₉ *, 8, 2, 2; 2000 EH₅₉ *, 11, 2, 2; 2000 EI₅₉ *, 7, 2, 2; 2000 EJ₅₉ *, 12, 2, 2; 2000 EK₅₉ *, 8, 2, 2; 2000 EL₅₉ *, 8, 2, 2; 2000 EM₅₉ *, 6, 2, 1; 2000 EN₅₉ *, 8, 2, 1; 2000 EO₅₉ *, 6, 2, 1; 2000 EP₅₉ *, 10, 2, 1; 2000 EQ₅₉ *, 10, 2, 1; 2000 ER₅₉ *, 10, 2, 1; 2000 ES₅₉ *, 10, 2, 1; 2000 ET₅₉ *, 8, 2, 1; 2000 EU₅₉ *, 6, 2, 1; 2000 EV₅₉ *, 10, 2, 1; 2000 EW₅₉ *, 7, 2, 1; 2000 EX₅₉ *, 6, 2, 1; 2000 EY₅₉ *, 10, 2, 1; 2000 EZ₅₉ *, 10, 2, 1; 2000 EA₆₀ *, 10, 2, 1; 2000 EB₆₀ *, 10, 2, 1; 2000 EC₆₀ *, 10, 2, 1; 2000 ED₆₀ *, 8, 2, 1; 2000 EE₆₀ *, 9, 2, 1; 2000 EF₆₀ *, 8, 2, 1; 2000 EG₆₀ *, 10, 2, 1; 2000 EH₆₀ *, 9, 2, 1; 2000 EI₆₀ *, 9, 2, 1; 2000 EK₆₀ *, 10, 2, 1; 2000 EL₆₀ *, 10, 2, 1; 2000 EM₆₀ *, 10, 2, 1; 2000 EN₆₀ *, 10, 2, 1; 2000 EO₆₀ *, 10, 2, 1; 2000 EP₆₀ *, 10, 2, 1; 2000 EQ₆₀ *, 9, 2, 1; 2000 ER₆₀ *, 10, 2, 1; 2000 ES₆₀ *, 9, 2, 1; 2000 ET₆₀ *, 10, 2, 1; 2000 EU₆₀ *, 10, 2, 1; 2000 EV₆₀ *, 9, 2, 1; 2000 EW₆₀ *, 10, 2, 1; 2000 EX₆₀ *, 8, 2, 1; 2000 EY₆₀ *, 10, 2, 1; 2000 EZ₆₀ *, 8, 2, 1; 2000 EA₆₁ *, 10, 2, 1; 2000 EB₆₁ *, 10, 2, 1; 2000 EC₆₁ *, 10, 2, 1; 2000 ED₆₁ *, 16, 4, 11; 2000 EE₆₁ *, 10, 2, 1; 2000 EF₆₁ *, 9, 2, 1; 2000 EG₆₁ *, 10, 2, 1; 2000 EH₆₁ *, 9, 2, 1; 2000 EI₆₁ *, 9, 2, 1; 2000 EK₆₁ *, 8, 2, 1; 2000 EL₆₁ *, 10, 2, 1; 2000 EM₆₁ *, 10, 2, 1; 2000 EN₆₁ *, 8, 2, 1; 2000 EO₆₁ *, 8, 2, 1; 2000 EP₆₁ *, 10, 2, 1; 2000 EQ₆₁ *, 8, 2, 1; 2000 ER₆₁ *, 10, 2, 1; 2000 ES₆₁ *, 10, 2, 1; 2000 ET₆₁ *, 10, 2, 1; 2000 EU₆₁ *, 14, 2, 1; 2000 EV₆₁ *, 10, 2, 1; 2000 EW₆₁ *, 9, 2, 1; 2000 EX₆₁ *, 9, 2, 1; 2000 EY₆₁ *, 10, 2, 1; 2000 EZ₆₁ *, 10, 2, 1; 2000 EA₆₂ *, 9, 2, 1; 2000 EB₆₂ *, 9, 2, 1; 2000 EC₆₂ *, 8, 2, 1; 2000 ED₆₂ *, 9, 2, 1; 2000 EF₆₂ *, 10, 2, 1; 2000 EG₆₂ *, 10, 2, 1; 2000 EH₆₂ *, 9, 2, 1; 2000 EI₆₂ *, 9, 2, 1; 2000 EJ₆₂ *, 7, 2, 1; 2000 EK₆₂ *, 10, 2, 1; 2000 EL₆₂ *, 10, 2, 1; 2000 EM₆₂ *, 10, 2, 1; 2000 EN₆₂ *, 10, 2, 1; 2000 EO₆₂ *, 10, 2, 1; 2000 EP₆₂ *, 9, 2, 1; 2000 EQ₆₂ *, 10, 2, 1; 2000 ER₆₂ *, 10, 2, 1; 2000 ES₆₂ *, 10, 2, 1; 2000 ET₆₂ *, 10, 2, 1; 2000 EU₆₂ *, 10, 2, 1; 2000 EV₆₂ *, 10, 2, 1; 2000 EW₆₂ *, 14, 3, 29; 2000 EX₆₂ *, 9, 2, 1; 2000 EY₆₂ *, 10, 2, 1; 2000 EZ₆₂ *, 10, 2, 1; 2000 EA₆₃ *, 10, 2, 1; 2000 EB₆₃ *, 9, 2, 1; 2000 EC₆₃ *, 10, 2, 1; 2000 ED₆₃ *, 9, 2, 1; 2000 EE₆₃ *, 10, 2, 1; 2000 EF₆₃ *, 9, 2, 1; 2000 EG₆₃ *, 10, 2, 1; 2000 EH₆₃ *, 10, 2, 1; 2000 EI₆₃ *, 10, 2, 1; 2000 EK₆₃ *, 10, 2, 1; 2000 EL₆₃ *, 10, 2, 1; 2000 EM₆₃ *, 10, 2, 1; 2000 EN₆₃ *, 10, 2, 1; 2000 EO₆₃ *, 10,

2, 1; 2000 EP₆₃ *, 10, 2, 1; 2000 EQ₆₃ *, 10, 2, 1; 2000 ER₆₃ *, 10, 2, 1; 2000 ES₆₃ *, 8, 2, 1; 2000 ET₆₃ *, 9, 2, 1; 2000 EU₆₃ *, 8, 2, 1; 2000 EV₆₃ *, 10, 2, 1; 2000 EW₆₃ *, 9, 2, 1; 2000 EX₆₃ *, 9, 2, 1; 2000 EY₆₃ *, 8, 2, 1; 2000 EZ₆₃ *, 19, 4, 5; 2000 EA₆₄ *, 9, 2, 1; 2000 EB₆₄ *, 10, 2, 1; 2000 EC₆₄ *, 10, 2, 1; 2000 ED₆₄ *, 10, 2, 1; 2000 EE₆₄ *, 10, 2, 1; 2000 EF₆₄ *, 10, 2, 1; 2000 EG₆₄ *, 10, 2, 1; 2000 EH₆₄ *, 10, 2, 1; 2000 EI₆₄ *, 9, 2, 1; 2000 EJ₆₄ *, 9, 2, 1; 2000 EK₆₄ *, 10, 2, 1; 2000 EL₆₄ *, 7, 2, 1; 2000 EM₆₄ *, 9, 2, 1; 2000 EN₆₄ *, 9, 2, 1; 2000 EO₆₄ *, 10, 2, 1; 2000 EP₆₄ *, 9, 2, 1; 2000 EQ₆₄ *, 9, 2, 1; 2000 ER₆₄ *, 10, 2, 1; 2000 ES₆₄ *, 10, 2, 1; 2000 ET₆₄ *, 10, 2, 1; 2000 EU₆₄ *, 10, 2, 1; 2000 EV₆₄ *, 10, 2, 1; 2000 EW₆₄ *, 9, 2, 1; 2000 EX₆₄ *, 9, 2, 1; 2000 EY₆₄ *, 8, 2, 1; 2000 EZ₆₄ *, 10, 2, 1; 2000 EA₆₅ *, 7, 2, 1; 2000 EB₆₅ *, 12, 2, 1; 2000 EC₆₅ *, 10, 2, 1; 2000 ED₆₅ *, 9, 2, 1; 2000 EE₆₅ *, 9, 2, 1; 2000 EF₆₅ *, 9, 2, 1; 2000 EG₆₅ *, 7, 2, 1; 2000 EH₆₅ *, 10, 2, 1; 2000 EI₆₅ *, 8, 2, 1; 2000 EK₆₅ *, 8, 2, 1; 2000 EL₆₅ *, 10, 2, 1; 2000 EM₆₅ *, 8, 2, 1; 2000 EN₆₅ *, 7, 2, 1; 2000 EO₆₅ *, 9, 2, 1; 2000 EP₆₅ *, 9, 2, 1; 2000 EQ₆₅ *, 9, 2, 1; 2000 ER₆₅ *, 15, 3, 3; 2000 ES₆₅ *, 9, 2, 1; 2000 ET₆₅ *, 10, 2, 1; 2000 EU₆₅ *, 12, 3, 3; 2000 EV₆₅ *, 7, 2, 1; 2000 EW₆₅ *, 8, 2, 1; 2000 EX₆₅ *, 8, 2, 1; 2000 EY₆₅ *, 8, 2, 1; 2000 EZ₆₅ *, 9, 2, 1; 2000 EA₆₆ *, 8, 2, 1; 2000 EB₆₆ *, 9, 2, 1; 2000 EC₆₆ *, 9, 2, 1; 2000 ED₆₆ *, 7, 2, 1; 2000 EE₆₆ *, 12, 3, 3; 2000 EF₆₆ *, 9, 2, 1; 2000 EG₆₆ *, 7, 2, 1; 2000 EH₆₆ *, 8, 2, 1; 2000 EI₆₆ *, 9, 2, 1; 2000 EJ₆₆ *, 8, 2, 1; 2000 EK₆₆ *, 8, 2, 1; 2000 EL₆₆ *, 10, 2, 1; 2000 EM₆₆ *, 10, 2, 1; 2000 EN₆₆ *, 10, 2, 1; 2000 EO₆₆ *, 14, 3, 2; 2000 EP₆₆ *, 7, 2, 1; 2000 EQ₆₆ *, 10, 2, 1; 2000 ER₆₆ *, 9, 2, 1; 2000 ES₆₆ *, 15, 3, 3; 2000 ET₆₆ *, 6, 2, 1; 2000 EU₆₆ *, 10, 2, 1; 2000 EV₆₆ *, 7, 2, 1; 2000 EW₆₆ *, 9, 2, 1; 2000 EX₆₆ *, 9, 2, 1; 2000 EY₆₆ *, 8, 2, 1; 2000 EZ₆₆ *, 8, 2, 1; 2000 EA₆₇ *, 8, 2, 1; 2000 EB₆₇ *, 8, 2, 1; 2000 EC₆₇ *, 10, 2, 1; 2000 ED₆₇ *, 9, 2, 1; 2000 EE₆₇ *, 10, 2, 1; 2000 EF₆₇ *, 8, 2, 1; 2000 EG₆₇ *, 9, 2, 1; 2000 EH₆₇ *, 9, 2, 1; 2000 EI₆₇ *, 6, 2, 1; 2000 EK₆₇ *, 8, 2, 1; 2000 EL₆₇ *, 9, 2, 1; 2000 EM₆₇ *, 8, 2, 1; 2000 EN₆₇ *, 7, 2, 1; 2000 EO₆₇ *, 9, 2, 1; 2000 EP₆₇ *, 9, 2, 1; 2000 EQ₆₇ *, 7, 2, 1; 2000 ER₆₇ *, 9, 2, 1; 2000 ES₆₇ *, 8, 2, 1; 2000 ET₆₇ *, 9, 2, 1; 2000 EU₆₇ *, 8, 2, 1; 2000 EV₆₇ *, 8, 2, 1; 2000 EW₆₇ *, 7, 2, 1; 2000 EX₆₇ *, 7, 2, 1; 2000 EY₆₇ *, 12, 3, 3; 2000 EZ₆₇ *, 8, 2, 1; 2000 EA₆₈ *, 8, 2, 1; 2000 EB₆₈ *, 6, 2, 1; 2000 EC₆₈ *, 9, 2, 1; 2000 ED₆₈ *, 13, 3, 3; 2000 EF₆₈ *, 8, 2, 1; 2000 EG₆₈ *, 8, 2, 1; 2000 EH₆₈ *, 7, 2, 1; 2000 EI₆₈ *, 6, 2, 1; 2000 EK₆₈ *, 12, 2, 1; 2000 EL₆₈ *, 8, 2, 1; 2000 EM₆₈ *, 6, 2, 1; 2000 EN₆₈ *, 7, 2, 1; 2000 EO₆₈ *, 8, 2, 1; 2000 EP₆₈ *, 13, 2, 1; 2000 EQ₆₈ *, 7, 2, 1; 2000 ER₆₈ *, 8, 2, 1; 2000 ES₆₈ *, 12, 2, 1; 2000 ET₆₈ *, 7, 2, 1; 2000 EU₆₈ *, 17, 3, 3; 2000 EV₆₈ *, 16, 3, 3; 2000 EW₆₈ *, 7, 2, 1; 2000 EX₆₈ *, 15, 2, 1; 2000 EY₆₈ *, 15, 2, 1; 2000 EZ₆₈ *, 7, 2, 1; 2000 EA₆₉ *, 6, 2, 1; 2000 EB₆₉ *, 8, 2, 1; 2000 EC₆₉ *, 8, 2, 1; 2000 ED₆₉ *, 8, 2, 1; 2000 EE₆₉ *, 7, 2, 1; 2000 EF₆₉ *, 8, 2, 1; 2000 EG₆₉ *, 8, 2, 1; 2000 EH₆₉ *, 10, 2, 1; 2000 EI₆₉ *, 10, 2, 1; 2000 EJ₆₉ *, 9, 2, 1; 2000 EK₆₉ *, 9, 2, 1; 2000 EL₆₉ *, 9, 2, 1; 2000 EM₆₉ *, 9, 2, 1; 2000 EN₆₉ *, 9, 2, 1; 2000 EO₆₉ *, 9, 2, 1; 2000 EP₆₉ *, 9, 2, 1; 2000 EQ₆₉ *, 9, 2, 1; 2000 ER₆₉ *, 9, 2, 1; 2000 ES₆₉ *, 9, 2, 1; 2000 ET₆₉ *, 8, 2, 1; 2000 EU₆₉ *, 9, 2, 1; 2000 EV₆₉ *, 7, 2, 1; 2000 EW₆₉ *, 8, 2, 1; 2000 EX₆₉ *, 8, 2, 1; 2000 EY₆₉ *, 9, 2, 1; 2000 EZ₆₉ *, 8, 2, 1; 2000 EA₇₀ *, 8, 2, 1; 2000 EB₇₀ *, 7, 2, 1; 2000 EC₇₀ *, 9, 2, 1; 2000 ED₇₀ *, 8, 2, 1; 2000 EE₇₀ *, 9, 2, 1; 2000 EF₇₀ *, 8, 2, 1; 2000 EG₇₀ *, 9, 2, 1; 2000 EH₇₀ *, 11, 2, 1; 2000 EI₇₀ *, 7, 2, 1; 2000 EK₇₀ *, 7, 2, 1; 2000 EL₇₀ *, 7, 2, 1; 2000 EM₇₀ *, 7, 2, 1; 2000 EN₇₀ *, 8, 2, 1; 2000 EO₇₀ *, 7, 2, 1; 2000 EP₇₀ *, 6, 2, 1; 2000 EQ₇₀ *, 7, 2, 1; 2000 ER₇₀ *, 4, 1, 0; 2000 ES₇₀ *, 9, 2, 4; 2000 ET₇₀ *, 19, 3, 4; 2000 EU₇₀ *, 16, 4, 4; 2000 EV₇₀ *, 29, 5, 5; 2000 EW₇₀ *, 38, 4, 4; 2000 EX₇₀ *, 4, 1, 0; 2000 EY₇₀ *, 4, 1, 0; 2000 EZ₇₀ *, 4, 1, 0; 2000 EA₇₁ *, 4, 1, 0; 2000 EB₇₁ *, 4, 1, 0; 2000 EC₇₁ *, 4, 1, 0; 2000 ED₇₁ *, 4, 1, 0; 2000 EE₇₁ *, 4, 1, 0; 2000 EF₇₁ *, 4, 1, 0; 2000 EG₇₁ *, 4, 1, 0; 2000 EH₇₁ *, 4, 1, 0; 2000 EI₇₁ *, 4, 1, 0; 2000 EK₇₁ *, 4, 1, 0; 2000 EL₇₁ *, 4, 1, 0; 2000 EM₇₁ *, 4, 1, 0; 2000 EN₇₁ *, 4, 1, 0; 2000 EO₇₁ *, 4, 1, 0; 2000 EP₇₁ *, 4, 1, 0; 2000 EQ₇₁ *, 4, 1, 0; 2000 ER₇₁ *, 4, 1, 0; 2000 ES₇₁ *, 4, 1, 0; 2000 ET₇₁ *, 4, 1, 0; 2000 EU₇₁ *, 4, 1, 0; 2000 EV₇₁ *, 4,

7; 2000 EL79 *, 10, 2, 7; 2000 EM79 *, 9, 2, 7; 2000 EN79 *, 20, 4, 37; 2000 EO79 *, 10, 2, 7; 2000 EP79 *, 7, 2, 7; 2000 EQ79 *, 9, 2, 7; 2000 ER79 *, 8, 2, 7; 2000 ES79 *, 10, 2, 7; 2000 ET79 *, 9, 2, 7; 2000 EU79 *, 8, 2, 7; 2000 EV79 *, 10, 2, 7; 2000 EW79 *, 10, 2, 7; 2000 EX79 *, 10, 2, 7; 2000 EY79 *, 10, 2, 7; 2000 EZ79 *, 9, 2, 7; 2000 EA80 *, 9, 2, 7; 2000 EB80 *, 10, 2, 7; 2000 EC80 *, 10, 2, 7; 2000 ED80 *, 9, 2, 7; 2000 EE80 *, 9, 2, 7; 2000 EF80 *, 10, 2, 7; 2000 EG80 *, 10, 2, 7; 2000 EH80 *, 10, 2, 7; 2000 EI80 *, 6, 2, 7; 2000 EK80 *, 10, 2, 7; 2000 EL80 *, 14, 2, 7; 2000 EM80 *, 9, 2, 7; 2000 EN80 *, 10, 2, 7; 2000 EO80 *, 9, 2, 7; 2000 EP80 *, 10, 2, 7; 2000 EQ80 *, 8, 2, 7; 2000 ER80 *, 10, 2, 7; 2000 ES80 *, 10, 2, 7; 2000 ET80 *, 10, 2, 7; 2000 EU80 *, 10, 2, 7; 2000 EV80 *, 7, 2, 7; 2000 EW80 *, 10, 2, 7; 2000 EX80 *, 10, 2, 7; 2000 EY80 *, 10, 2, 7; 2000 EZ80 *, 10, 2, 7; 2000 EA81 *, 10, 2, 7; 2000 EB81 *, 10, 2, 7; 2000 EC81 *, 8, 2, 7; 2000 ED81 *, 9, 2, 7; 2000 EE81 *, 10, 2, 7; 2000 EF81 *, 9, 2, 7; 2000 EG81 *, 10, 2, 7; 2000 EH81 *, 7, 2, 7; 2000 EI81 *, 10, 2, 7; 2000 EK81 *, 9, 2, 7; 2000 EL81 *, 8, 2, 7; 2000 EM81 *, 9, 2, 7; 2000 EN81 *, 9, 2, 7; 2000 EO81 *, 10, 2, 7; 2000 EP81 *, 9, 2, 7; 2000 EQ81 *, 9, 2, 7; 2000 ER81 *, 8, 2, 7; 2000 ES81 *, 8, 2, 7; 2000 ET81 *, 10, 2, 7; 2000 EU81 *, 9, 2, 7; 2000 EV81 *, 10, 2, 7; 2000 EW81 *, 10, 2, 7; 2000 EX81 *, 9, 2, 7; 2000 EY81 *, 9, 2, 7; 2000 EZ81 *, 9, 2, 7; 2000 EA82 *, 10, 2, 7; 2000 EB82 *, 10, 2, 7; 2000 EC82 *, 10, 2, 7; 2000 ED82 *, 7, 2, 7; 2000 EE82 *, 9, 2, 7; 2000 EF82 *, 10, 2, 7; 2000 EG82 *, 9, 2, 7; 2000 EH82 *, 10, 2, 7; 2000 EI82 *, 9, 2, 7; 2000 EK82 *, 8, 2, 7; 2000 EL82 *, 8, 2, 7; 2000 EM82 *, 10, 2, 7; 2000 EN82 *, 14, 3, 30; 2000 EO82 *, 9, 2, 7; 2000 EP82 *, 10, 2, 7; 2000 EQ82 *, 10, 2, 7; 2000 ER82 *, 10, 2, 7; 2000 ES82 *, 10, 2, 7; 2000 ET82 *, 9, 2, 7; 2000 EU82 *, 10, 2, 7; 2000 EV82 *, 9, 2, 7; 2000 EW82 *, 10, 2, 7; 2000 EX82 *, 8, 2, 7; 2000 EY82 *, 10, 2, 7; 2000 EZ82 *, 10, 2, 7; 2000 EA83 *, 10, 2, 7; 2000 EB83 *, 9, 2, 7; 2000 EC83 *, 10, 2, 7; 2000 ED83 *, 9, 2, 7; 2000 EF83 *, 9, 2, 7; 2000 EG83 *, 9, 2, 7; 2000 EH83 *, 10, 2, 7; 2000 EI83 *, 7, 2, 7; 2000 EK83 *, 10, 2, 7; 2000 EL83 *, 10, 2, 7; 2000 EM83 *, 8, 2, 7; 2000 EN83 *, 8, 2, 7; 2000 EO83 *, 8, 2, 7; 2000 EP83 *, 9, 2, 7; 2000 EQ83 *, 10, 2, 7; 2000 ER83 *, 10, 2, 7; 2000 ES83 *, 12, 2, 7; 2000 ET83 *, 9, 2, 3; 2000 EU83 *, 8, 2, 7; 2000 EV83 *, 9, 2, 7; 2000 EW83 *, 8, 2, 7; 2000 EX83 *, 9, 2, 7; 2000 EY83 *, 7, 2, 7; 2000 EZ83 *, 8, 2, 7; 2000 EA84 *, 8, 2, 7; 2000 EB84 *, 9, 2, 7; 2000 EC84 *, 8, 2, 7; 2000 ED84 *, 9, 2, 7; 2000 EF84 *, 6, 2, 7; 2000 EG84 *, 6, 2, 7; 2000 EH84 *, 9, 2, 6; 2000 EI84 *, 6, 2, 7; 2000 EK84 *, 18, 4, 33; 2000 EL84 *, 8, 2, 6; 2000 EM84 *, 8, 2, 6; 2000 EN84 *, 8, 2, 1; 2000 EO84 *, 10, 2, 5; 2000 EP84 *, 10, 2, 5; 2000 EQ84 *, 10, 2, 5; 2000 ER84 *, 8, 2, 5; 2000 ES84 *, 9, 2, 5; 2000 ET84 *, 9, 2, 5; 2000 EU84 *, 8, 2, 5; 2000 EV84 *, 6, 2, 5; 2000 EW84 *, 8, 2, 5; 2000 EX84 *, 10, 2, 5; 2000 EY84 *, 10, 2, 4; 2000 EZ84 *, 10, 2, 4; 2000 EA85 *, 8, 2, 5; 2000 EB85 *, 7, 2, 5; 2000 EC85 *, 12, 3, 34; 2000 ED85 *, 8, 2, 5; 2000 EF85 *, 13, 3, 34; 2000 EG85 *, 18, 3, 5; 2000 EH85 *, 20, 4, 34; 2000 EI85 *, 9, 2, 5; 2000 EK85 *, 8, 2, 4; 2000 EL85 *, 9, 2, 5; 2000 EM85 *, 6, 2, 5; 2000 EN85 *, 10, 2, 5; 2000 EO85 *, 7, 2, 5; 2000 EP85 *, 7, 2, 5; 2000 EQ85 *, 6, 2, 5; 2000 ER85 *, 13, 3, 34; 2000 ES85 *, 9, 2, 4; 2000 ET85 *, 13, 3, 64; 2000 EU85 *, 7, 2, 4; 2000 EV85 *, 8, 2, 4; 2000 EW85 *, 8, 2, 4; 2000 EX85 *, 9, 2, 4; 2000 EY85 *, 8, 2, 4; 2000 EZ85 *, 9, 2, 4; 2000 EA86 *, 7, 2, 4; 2000 EB86 *, 12, 2, 4; 2000 EC86 *, 8, 2, 4; 2000 ED86 *, 9, 2, 4; 2000 EF86 *, 9, 2, 4; 2000 EG86 *, 11, 2, 5; 2000 EH86 *, 8, 2, 5; 2000 EI86 *, 7, 2, 5; 2000 EK86 *, 11, 2, 5; 2000 EL86 *, 11, 2, 5; 2000 EM86 *, 8, 2, 5; 2000 EN86 *, 10, 2, 5; 2000 EO86 *, 8, 2, 5; 2000 EP86 *, 7, 2, 5; 2000 EQ86 *, 8, 2, 5; 2000 ER86 *, 7, 2, 5; 2000 ES86 *, 9, 2, 5; 2000 ET86 *, 10, 2, 5; 2000 EU86 *, 10, 2, 5; 2000 EV86 *, 20, 4, 88; 2000 EW86 *, 9, 2, 5; 2000 EX86 *, 8, 2, 5; 2000 EY86 *, 9, 2, 5; 2000 EZ86 *, 8, 2, 5; 2000 EA87 *, 10, 2, 3; 2000 EB87 *, 7, 2, 5; 2000 EC87 *, 6, 2, 5; 2000 ED87 *, 10, 2, 5; 2000 EE87 *, 10, 2, 5; 2000 EF87 *, 9, 2, 5; 2000 EG87 *, 9, 2, 5; 2000 EH87 *, 7, 2, 5; 2000 EI87 *, 10, 2, 3; 2000 EK87 *, 8, 2, 5; 2000 EL87 *, 10, 2, 5; 2000 EM87 *, 7, 2, 4; 2000 EN87 *, 16, 4, 64; 2000 EO87 *, 8, 2, 4; 2000 EP87 *, 7, 2, 4; 2000 EQ87 *, 7, 2, 4; 2000 ER87 *, 9, 2, 3; 2000 ES87 *, 8, 2, 5; 2000 ET87 *, 7, 2, 4; 2000 EU87 *, 8, 2, 4; 2000 EV87 *, 7, 2, 4; 2000 EW87 *, 9, 2, 4; 2000 EX87 *, 10, 2, 2; 2000 EY87 *, 10, 2, 4; 2000 EZ87 *, 10, 2, 4; 2000 EA88 *, 8, 2, 4; 2000 EB88 *, 9, 2, 4; 2000 EC88 *, 9, 2, 4; 2000 ED88 *, 7, 2, 4; 2000 EF88 *, 8, 2, 3; 2000 EG88 *, 9, 2, 4; 2000 EH88 *, 22, 5, 88; 2000 EI88 *, 10, 2, 3; 2000 EK88 *, 8, 2, 4; 2000 EL88 *, 9, 2, 3;

0, 2, 4; 2000 EC₉₁ *, 10, 2, 4; 2000 ED₉₁ *, 8, 2, 4; 2000 EE₉₁ *, 8, 2, 4; 2000 EF₉₁ *, 7, 2, 4; 2000 EG₉₁ *, 8, 2, 4; 2000 EH₉₁ *, 9, 2, 4; 2000 EJ₉₁ *, 14, 2, 4; 2000 EK₉₁ *, 8, 2, 4; 2000 EL₉₁ *, 10, 2, 4; 2000 EM₉₁ *, 9, 2, 4; 2000 EN₉₁ *, 9, 2, 4; 2000 EO₉₁ *, 10, 2, 4; 2000 EP₉₁ *, 8, 2, 4; 2000 EQ₉₁ *, 10, 2, 4; 2000 ER₉₁ *, 7, 2, 4; 2000 ES₉₁ *, 10, 2, 4; 2000 ET₉₁ *, 10, 2, 4; 2000 EU₉₁ *, 8, 2, 4; 2000 EV₉₁ *, 8, 2, 4; 2000 EW₉₁ *, 10, 2, 4; 2000 EX₉₁ *, 8, 2, 4; 2000 EY₉₁ *, 10, 2, 4; 2000 EZ₉₁ *, 10, 2, 4; 2000 EA₉₂ *, 10, 2, 4; 2000 EB₉₂ *, 9, 2, 4; 2000 EC₉₂ *, 8, 2, 4; 2000 ED₉₂ *, 10, 2, 4; 2000 EE₉₂ *, 7, 2, 4; 2000 EF₉₂ *, 9, 2, 4; 2000 EG₉₂ *, 10, 2, 4; 2000 EH₉₂ *, 9, 2, 4; 2000 EJ₉₂ *, 9, 2, 4; 2000 EK₉₂ *, 8, 2, 4; 2000 EL₉₂ *, 9, 2, 4; 2000 EM₉₂ *, 8, 2, 4; 2000 EN₉₂ *, 8, 2, 4; 2000 EO₉₂ *, 8, 2, 4; 2000 EP₉₂ *, 10, 2, 4; 2000 EQ₉₂ *, 9, 2, 4; 2000 ER₉₂ *, 10, 2, 4; 2000 ES₉₂ *, 7, 2, 3; 2000 ET₉₂ *, 11, 3, 2; 2000 EU₉₂ *, 8, 2, 3; 2000 EV₉₂ *, 7, 2, 4; 2000 EW₉₂ *, 7, 2, 4; 2000 EX₉₂ *, 8, 2, 4; 2000 EY₉₂ *, 7, 2, 4; 2000 EZ₉₂ *, 7, 2, 4; 2000 EA₉₃ *, 7, 2, 3; 2000 EB₉₃ *, 7, 2, 4; 2000 EC₉₃ *, 10, 2, 3; 2000 ED₉₃ *, 9, 2, 3; 2000 EE₉₃ *, 10, 2, 3; 2000 EF₉₃ *, 10, 2, 4; 2000 EG₉₃ *, 9, 2, 4; 2000 EH₉₃ *, 8, 2, 4; 2000 EJ₉₃ *, 7, 2, 4; 2000 EK₉₃ *, 10, 2, 4; 2000 EL₉₃ *, 10, 2, 4; 2000 EM₉₃ *, 10, 2, 4; 2000 EN₉₃ *, 9, 2, 4; 2000 EO₉₃ *, 10, 2, 4; 2000 EP₉₃ *, 10, 2, 4; 2000 EQ₉₃ *, 9, 2, 4; 2000 ER₉₃ *, 9, 2, 4; 2000 ES₉₃ *, 7, 2, 4; 2000 ET₉₃ *, 10, 2, 4; 2000 EU₉₃ *, 23, 5, 63; 2000 EV₉₃ *, 10, 2, 4; 2000 EW₉₃ *, 9, 2, 4; 2000 EX₉₃ *, 10, 2, 4; 2000 EY₉₃ *, 13, 2, 4; 2000 EZ₉₃ *, 8, 2, 4; 2000 EA₉₄ *, 8, 2, 4; 2000 EB₉₄ *, 8, 2, 4; 2000 EC₉₄ *, 9, 2, 3; 2000 ED₉₄ *, 8, 2, 4; 2000 EF₉₄ *, 10, 2, 3; 2000 EG₉₄ *, 7, 2, 4; 2000 EH₉₄ *, 7, 2, 4; 2000 EI₉₄ *, 8, 2, 4; 2000 EJ₉₄ *, 8, 2, 4; 2000 EK₉₄ *, 8, 2, 4; 2000 EL₉₄ *, 8, 2, 4; 2000 EM₉₄ *, 8, 2, 4; 2000 EN₉₄ *, 6, 2, 4; 2000 EO₉₄ *, 8, 2, 4; 2000 EP₉₄ *, 8, 2, 4; 2000 EQ₉₄ *, 8, 2, 4; 2000 ER₉₄ *, 15, 4, 64; 2000 ES₉₄ *, 7, 2, 4; 2000 ET₉₄ *, 8, 2, 4; 2000 EU₉₄ *, 7, 2, 4; 2000 EV₉₄ *, 12, 3, 6; 2000 EW₉₄ *, 8, 2, 4; 2000 EX₉₄ *, 13, 3, 6; 2000 EY₉₄ *, 7, 2, 4; 2000 EZ₉₄ *, 8, 2, 4; 2000 EA₉₅ *, 8, 2, 4; 2000 EB₉₅ *, 7, 2, 4; 2000 EC₉₅ *, 7, 2, 4; 2000 ED₉₅ *, 8, 2, 4; 2000 EE₉₅ *, 6, 2, 4; 2000 EF₉₅ *, 6, 2, 4; 2000 EG₉₅ *, 8, 2, 4; 2000 EH₉₅ *, 8, 2, 3; 2000 EJ₉₅ *, 8, 2, 4; 2000 EK₉₅ *, 7, 2, 4; 2000 EL₉₅ *, 15, 2, 3; 2000 EM₉₅ *, 10, 2, 2; 2000 EN₉₅ *, 19, 2, 2; 2000 EO₉₅ *, 10, 2, 2; 2000 EP₉₅ *, 10, 2, 1; 2000 EQ₉₅ *, 8, 2, 2, 1; 2000 ER₉₅ *, 9, 2, 1; 2000 ES₉₅ *, 8, 2, 1; 2000 ET₉₅ *, 8, 2, 1; 2000 EU₉₅ *, 8, 2, 1; 2000 EV₉₅ *, 8, 2, 1; 2000 EW₉₅ *, 9, 2, 1; 2000 EX₉₅ *, 10, 2, 1; 2000 EY₉₅ *, 9, 2, 1; 2000 EZ₉₅ *, 14, 3, 30; 2000 EA₉₆ *, 8, 2, 1; 2000 EB₉₆ *, 9, 2, 1; 2000 EC₉₆ *, 8, 2, 1; 2000 ED₉₆ *, 10, 2, 1; 2000 EE₉₆ *, 10, 2, 1; 2000 EF₉₆ *, 10, 2, 1; 2000 EG₉₆ *, 9, 2, 1; 2000 EH₉₆ *, 9, 2, 1; 2000 EJ₉₆ *, 9, 2, 1; 2000 EK₉₆ *, 10, 2, 1; 2000 EL₉₆ *, 19, 5, 62; 2000 EM₉₆ *, 7, 2, 1; 2000 EN₉₆ *, 12, 2, 1; 2000 EO₉₆ *, 8, 2, 1; 2000 EP₉₆ *, 8, 2, 1; 2000 EQ₉₆ *, 13, 3, 65; 2000 ER₉₆ *, 7, 2, 1; 2000 ES₉₆ *, 6, 2, 1; 2000 ET₉₆ *, 10, 2, 4; 2000 EU₉₆ *, 10, 2, 4; 2000 EV₉₆ *, 10, 2, 4; 2000 EW₉₆ *, 10, 2, 4; 2000 EX₉₆ *, 10, 2, 4; 2000 EY₉₆ *, 10, 2, 4; 2000 EZ₉₆ *, 9, 2, 4; 2000 EA₉₇ *, 10, 2, 4; 2000 EB₉₇ *, 9, 2, 4; 2000 EC₉₇ *, 10, 2, 4; 2000 ED₉₇ *, 9, 2, 4; 2000 EE₉₇ *, 9, 2, 4; 2000 EF₉₇ *, 8, 2, 4; 2000 EG₉₇ *, 9, 2, 4; 2000 EH₉₇ *, 7, 2, 4; 2000 EJ₉₇ *, 9, 2, 4; 2000 EK₉₇ *, 9, 2, 4; 2000 EL₉₇ *, 9, 2, 4; 2000 EM₉₇ *, 9, 2, 4; 2000 EN₉₇ *, 9, 2, 4; 2000 EO₉₇ *, 9, 2, 4; 2000 EP₉₇ *, 8, 2, 4; 2000 EQ₉₇ *, 10, 2, 4; 2000 ER₉₇ *, 9, 2, 4; 2000 ES₉₇ *, 9, 2, 4; 2000 ET₉₇ *, 9, 2, 3; 2000 EU

2000 MAR. 20

M.P.C. 39013

9, 2, 4; 4298 T-1, 23, 5, 11; 4302 T-1, 5, 1, 0; 4406 T-1, 3, 1, 0; 4841 T-1, 5, 1, 0; 4845 T-1, 5, 1, 0; 1004 T-2, 4, 1, 0; 1044 T-2, 9, 2, 3; 1139 T-2, 8, 2, 1; 1259 T-2, 10, 2, 5; 1343 T-2, 4, 1, 0; 1494 T-2, 3, 1, 0; 2052 T-2, 9, 2, 2; 2078 T-2, 10, 2, 1; 2124 T-2, 19, 4, 6; 2127 T-2, 8, 2, 2; 2144 T-2, 18, 4, 11; 2244 T-2, 15, 3, 7; 2266 T-2, 27, 6, 11; 3063 T-2, 5, 1, 0; 3071 T-2, 9, 2, 4; 3072 T-2, 9, 2, 4; 3092 T-2, 10, 2, 8; 3162 T-2, 15, 3, 8; 3178 T-2, 15, 3, 7; 3222 T-2, 5, 1, 0; 3335 T-2, 8, 2, 7; 3336 T-2, 15, 3, 11; 3356 T-2, 5, 1, 0; 4153 T-2, 10, 2, 7; 4231 T-2, 3, 1, 0; 4257 T-2, 4, 1, 0; 4258 T-2, 3, 1, 0; 4263 T-2, 8, 2, 10; 4278 T-2, 24, 5, 15; 5137 T-2, 8, 2, 4; 5167 T-2, 5, 1, 0; 5205 T-2, 5, 1, 0; 5482 T-2, 8, 2, 4; 1032 T-3, 10, 2, 5; 1055 T-3, 5, 1, 0; 1061 T-3, 3, 1, 0; 1088 T-3, 9, 2, 5; 1089 T-3, 5, 1, 0; 1093 T-3, 4, 1, 0; 1107 T-3, 5, 1, 0; 1144 T-3, 24, 5, 11; 1156 T-3, 10, 2, 2; 1182 T-3, 20, 4, 11; 2110 T-3, 3, 1, 0; 2139 T-3, 4, 1, 0; 2151 T-3, 9, 2, 4; 2271 T-3, 10, 2, 34; 2288 T-3, 19, 4, 11; 2466 T-3, 18, 4, 12; 3042 T-3, 9, 2, 8; 3101 T-3, 10, 2, 8; 3149 T-3, 15, 3, 3; 3152 T-3, 10, 2, 3; 3175 T-3, 9, 2, 2; 3178 T-3, 6, 2, 1; 3268 T-3, 5, 1, 0; 3320 T-3, 3, 1, 0; 3417 T-3, 5, 1, 0; 3437 T-3, 17, 4, 11; 3447 T-3, 4, 1, 0; 3508 T-3, 43, 10, 1046; 3574 T-3, 3, 1, 0; 4032 T-3, 15, 3, 12; 4043 T-3, 5, 1, 0; 4072 T-3, 5, 1, 0; 4203 T-3, 3, 1, 0; 4310 T-3, 9, 2, 12; 4327 T-3, 9, 2, 7; 4336 T-3, 9, 2, 12; 4672 T-3, 9, 2, 5; 5038 T-3, 10, 2, 32; 5082 T-3, 9, 2, 5; 5089 T-3, 4, 1, 0; 5092 T-3, 4, 1, 0; 5168 T-3, 12, 3, 13; 5193 T-3, 4, 1, 0; (6), 2, 1, 0; (15), 1, 1, 0; (17), 3, 1, 0; (25), 5, 1, 0; (34), 3, 1, 0; (35), 4, 2, 7; (42), 5, 8; (43), 1, 1, 0; (45), 3, 1, 0; (46), 6, 2, 6; (49), 1, 1, 0; (51), 1, 1, 0; (52), 1, 1, 0; (54), 4, 1, 0; (59), 4, 1, 0; (62), 3, 1, 0; (65), 3, 1, 0; (70), 5, 2, 7; (72), 5, 1, 0; (75), 5, 2, 11; (87), 1, 1, 0; (98), 6, 2, 8; (103), 1, 1, 0; (107), 3, 1, 0; (110), 3, 1, 0; (119), 4, 1, 0; (126), 16, 3, 3; (130), 12, 3, 8; (133), 5, 2, 5; (137), 7, 2, 5; (138), 2, 1, 0; (147), 4, 1, 0; (150), 5, 1, 0; (152), 1, 1, 0; (155), 5, 1, 0; (161), 2, 1, 0; (163), 2, 1, 0; (167), 5, 1, 0; (171), 3, 1, 0; (175), 8, 2, 7; (181), 7, 2, 7; (183), 9, 2, 10; (185), 3, 1, 0; (188), 4, 1, 0; (195), 5, 1, 0; (197), 3, 1, 0; (200), 4, 1, 0; (201), 8, 3, 5; (212), 5, 1, 0; (216), 4, 1, 0; (217), 17, 4, 11; (226), 4, 1, 0; (229), 4, 1, 0; (231), 22, 5, 9; (233), 1, 1, 0; (236), 3, 1, 0; (238), 3, 1, 0; (239), 3, 1, 0; (245), 6, 3, 12; (246), 7, 2, 8; (250), 2, 1, 0; (252), 5, 2, 5; (253), 4, 1, 0; (255), 3, 1, 0; (256), 9, 2, 5; (257), 8, 2, 2; (258), 2, 1, 0; (263), 5, 1, 0; (265), 20, 4, 11; (268), 3, 1, 0; (269), 18, 4, 11; (270), 5, 2, 5; (274), 2, 1, 0; (277), 21, 6, 11; (281), 5, 1, 0; (282), 15, 3, 7; (284), 7, 2, 4; (286), 4, 1, 0; (287), 3, 1, 0; (288), 15, 4, 7; (293), 3, 1, 0; (294), 3, 1, 0; (295), 11, 3, 11; (301), 18, 4, 11; (302), 13, 3, 5; (304), 4, 1, 0; (305), 7, 2, 5; (307), 1, 1, 0; (308), 7, 2, 6; (310), 4, 1, 0; (312), 5, 1, 0; (314), 8, 2, 7; (315), 5, 1, 0; (317), 5, 1, 0; (319), 16, 4, 11; (321), 5, 1, 0; (322), 9, 2, 4; (329), 4, 1, 0; (330), 9, 2, 4; (333), 11, 3, 11; (335), 3, 1, 0; (339), 4, 1, 0; (345), 7, 2, 5; (352), 5, 1, 0; (354), 4, 1, 0; (357), 3, 1, 0; (359), 5, 1, 0; (362), 4, 1, 0; (365), 4, 1, 0; (368), 5, 2, 4; (371), 10, 2, 4; (373), 3, 1, 0; (379), 15, 4, 9; (380), 7, 2, 12; (383), 8, 2, 11; (398), 9, 2, 3; (400), 8, 2, 3; (409), 1, 1, 0; (410), 2, 1, 0; (414), 5, 1, 0; (424), 3, 1, 0; (429), 10, 2, 4; (432), 5, 1, 0; (434), 14, 3, 5; (435), 12, 3, 11; (437), 16, 4, 12; (439), 4, 1, 0; (444), 12, 2, 5; (447), 4, 1, 0; (450), 5, 1, 0; (453), 7, 2, 5; (457), 3, 1, 0; (458), 3, 1, 0; (460), 4, 1, 0; (462), 15, 3, 8; (464), 10, 2, 8; (474), 5, 1, 0; (475), 10, 2, 8; (482), 3, 1, 0; (487), 4, 1, 0; (490), 5, 1, 0; (497), 5, 1, 0; (500), 4, 1, 0; (510), 5, 1, 0; (513), 14, 3, 12; (515), 3, 1, 0; (517), 7, 2, 5; (521), 7, 2, 8; (522), 5, 1, 0; (525), 5, 1, 0; (531), 4, 1, 0; (533), 5, 1, 0; (542), 7, 2, 3; (552), 4, 1, 0; (554), 5, 1, 0; (557), 4, 1, 0; (564), 10, 2, 17; (565), 8, 2, 4; (568), 4, 1, 0; (571), 2, 1, 0; (572), 8, 2, 5; (576), 9, 2, 5; (580), 1, 1, 0; (585), 5, 1, 0; (588), 1, 1, 0; (589), 10, 3, 12; (592), 2, 1, 0; (596), 10, 2, 7; (600), 3, 1, 0; (601), 4, 1, 0; (606), 13, 3, 6; (607), 4, 1, 0; (609), 10, 2, 4; (610), 5, 1, 0; (611), 4, 1, 0; (614), 5, 1, 0; (618), 5, 1, 0; (619), 11, 3, 12; (620), 2, 1, 0; (623), 4, 1, 0; (624), 2, 1, 0; (630), 5, 1, 0; (633), 13, 3, 5; (635), 5, 1, 0; (640), 1, 1, 0; (642), 5, 1, 0; (645), 5, 1, 0; (647), 5, 1, 0; (648), 8, 2, 5; (658), 17, 4, 11; (662), 8, 2, 1; (668), 10, 3, 12; (669), 9, 2, 5; (670), 15, 4, 11; (674), 1, 1, 0; (676), 13, 4, 12; (677), 5, 1, 0; (678), 5, 2, 5; (679), 10, 2, 5; (681), 3, 1, 0; (683), 1, 1, 0; (688), 5, 1, 0; (689), 5, 1, 0; (690), 3, 1, 0; (691), 2, 1, 0; (695), 8, 2, 4; (709), 2, 1, 0; (710), 19, 3, 3; (714), 1, 1, 0; (718), 3, 2, 4; (721), 5, 1, 0; (726), 3, 1, 0; (728), 19, 4, 13; (731), 3, 1, 0; (732), 4, 1, 0; (735), 10, 2, 8; (745), 4, 1, 0; (746), 4, 1, 0; (749), 4, 1, 0; (750), 1, 0; (756), 5, 1, 0; (759), 3, 1, 0; (760), 9, 2, 14; (762), 8, 3, 12; (764), 4, 1, 0; (765), 20, 4, 11; (766), 7, 2, 4; (769), 3, 1, 0; (770), 5, 1, 0; (776), 6, 2, 11; (783), 7, 2, 12; (789), 5, 1, 0; (790), 3, 1, 0; (791), 5, 1, 0; (793), 13, 3, 7; (798), 10, 2, 4; (799), 12, 4, 11; (802), 2, 1, 0; (803), 5, 1, 0; (804), 4, 1, 0; (805), 5, 1, 0; (806), 5, 1, 0; (809), 20, 4, 11; (810), 5, 1, 0; (812), 6, 2, 6; (816), 3, 1, 0; (817), 4, 1, 0; (824), 7, 2, 6; (830), 4, 2, 1; (831), 24, 5, 11; (832), 5, 1, 0; (835), 3, 1, 0; (842), 8, 2, 3; (846), 10, 2, 1; (848), 25, 5, 6; (853), 5, 2, 5; (854), 8, 2, 4; (856), 3, 1, 0; (857), 14, 3, 12; (858), 12, 3, 8; (861), 3, 1, 0; (865), 3, 1, 0; (866), 9, 2, 8; (869), 1, 1, 0; (874), 5, 1, 0; (876), 4, 1, 0; (877), 1, 1, 0; (879), 10, 2, 4; (881), 3, 1, 0; (883), 5, 1, 0; (886), 1, 1, 0; (896), 9, 2, 3; (899), 10, 2, 4; (901), 14, 2, 5; (907), 7, 2, 4; (910), 4, 2, 4; (911), 3, 1, 0; (913), 20, 4, 12; (918), 5, 1, 0; (922), 5, 1, 0; (927), 5, 1, 0; (929), 3, 1, 0; (933), 9, 2, 8; (934), 12, 3, 12; (936), 1, 1, 0; (942), 5, 1, 0; (951), 12, 3, 12; (952), 5, 1, 0; (953), 2, 1, 0; (956), 4, 1, 0; (960), 5, 1, 0; (968), 5, 1, 0; (969), 17, 4, 11; (970), 5, 1, 0; (971), 4, 1, 0; (978), 5, 1, 0; (984), 7, 2, 4; (985), 5, 1, 0; (993), 5, 1, 0; (997), 4, 1, 0; (1000), 4, 1, 0; (1001), 8, 2, 5; (1004), 5, 1, 0; (1007), 15, 2, 4; (1016), 10, 2, 5; (1023), 5, 1, 0; (1025), 3, 1, 0; (1026), 7, 2, 12; (1030), 5, 1, 0; (1033), 5, 1, 0; (1035), 18, 4, 11; (1037), 5, 1, 0; (1039), 5, 1, 0; (1041), 3, 1, 0; (1042), 2, 1, 0; (1043), 4, 1, 0; (1047), 4, 1, 0; (1050), 2, 1, 0; (1052), 15, 3, 5; (1056), 5, 1, 0; (1059), 4, 1, 0; (1062), 1, 1, 0; (1063), 5, 1, 0; (1073), 17, 4, 11; (1080), 2, 1, 0; (1081), 10, 2, 5; (1088), 5, 1, 0; (1093), 4, 1, 0; (1097), 21, 5, 11; (1100), 11, 3, 11; (1102), 5, 1, 0; (1106), 11, 3, 5; (1110), 8, 2, 4; (1111), 3, 1, 0; (1112), 2, 1, 0; (1114), 5, 1, 0; (1117), 5, 1, 0; (1119), 5, 1, 0; (1127), 1, 1, 0; (1129), 10,

2, 5; (1131), 5, 1, 0; (1136), 5, 1, 0; (1140), 9, 2, 11; (1147), 9, 2, 4; (1149), 4, 1, 0; (1157), 4, 1, 0; (1160), 4, 1, 0; (1161), 2, 1, 0; (1164), 19, 4, 9; (1171), 10, 3, 3; (1177), 4, 1, 0; (1183), 8, 2, 1; (1187), 4, 1, 0; (1188), 18, 4, 11; (1190), 10, 2, 5; (1191), 9, 2, 8; (1192), 4, 1, 0; (1193), 3, 1, 0; (1194), 10, 2, 4; (1201), 10, 2, 5; (1209), 14, 3, 12; (1213), 8, 2, 1; (1214), 5, 2, 1; (1217), 5, 1, 0; (1220), 6, 2, 7; (1222), 1, 1, 0; (1225), 9, 2, 1; (1226), 9, 2, 14; (1240), 18, 4, 11; (1241), 10, 2, 4; (1245), 14, 4, 11; (1249), 8, 2, 1; (1251), 5, 1, 0; (1253), 4, 1, 0; (1261), 9, 3, 3; (1262), 3, 1, 0; (1268), 3, 1, 0; (1271), 15, 3, 10; (1273), 5, 1, 0; (1274), 3, 1, 0; (1275), 11, 3, 2; (1276), 5, 1, 0; (1280), 9, 2, 4; (1284), 8, 2, 4; (1288), 8, 2, 1; (1290), 3, 1, 0; (1291), 4, 1, 0; (1292), 7, 2, 5; (1298), 3, 1, 0; (1299), 12, 3, 11; (1300), 4, 1, 0; (1305), 5, 1, 0; (1306), 10, 2, 4; (1308), 5, 1, 0; (1313), 9, 2, 5; (1315), 1, 1, 0; (1317), 9, 2, 4; (1319), 5, 1, 0; (1320), 5, 1, 0; (1328), 10, 2, 4; (1335), 5, 1, 0; (1337), 5, 1, 0; (1338), 1, 1, 0; (1343), 5, 1, 0; (1349), 4, 1, 0; (1351), 2, 1, 0; (1352), 13, 3, 11; (1355), 4, 1, 0; (1357), 5, 1, 0; (1358), 10, 2, 6; (1364), 10, 2, 8; (1376), 5, 1, 0; (1377), 5, 1, 0; (1379), 10, 2, 12; (1386), 5, 1, 0; (1393), 15, 3, 12; (1394), 14, 4, 11; (1399), 5, 1, 0; (1400), 4, 1, 0; (1401), 13, 3, 12; (1406), 30, 6, 11; (1410), 8, 2, 5; (1411), 10, 2, 4; (1412), 5, 1, 0; (1413), 4, 1, 0; (1415), 18, 4, 11; (1416), 10, 2, 5; (1419), 4, 1, 0; (1424), 10, 2, 8; (1425), 4, 1, 0; (1427), 8, 2, 7; (1431), 3, 1, 0; (1433), 21, 4, 4; (1437), 3, 1, 0; (1440), 5, 1, 0; (1443), 3, 1, 0; (1444), 15, 3, 4; (1451), 5, 1, 0; (1459), 5, 1, 0; (1462), 12, 3, 11; (1463), 2, 1, 0; (1465), 4, 1, 0; (1466), 5, 1, 0; (1472), 3, 1, 0; (1474), 10, 2, 4; (1476), 5, 1, 0; (1477), 5, 1, 0; (1478), 28, 6, 13; (1480), 16, 4, 10; (1482), 5, 1, 0; (1483), 5, 1, 0; (1490), 10, 2, 4; (1491), 5, 1, 0; (1493), 5, 1, 0; (1495), 5, 1, 0; (1497), 25, 5, 11; (1500), 17, 4, 12; (1506), 5, 1, 0; (1509), 4, 1, 0; (1510), 23, 5, 11; (1511), 5, 1, 0; (1515), 5, 1, 0; (1518), 4, 1, 0; (1520), 2, 1, 0; (1528), 5, 1, 0; (1530), 5, 1, 0; (1531), 5, 1, 0; (1536), 13, 3, 3; (1537), 5, 1, 0; (1538), 8, 2, 5; (1546), 10, 2, 5; (1548), 10, 2, 11; (1549), 2, 1, 0; (1550), 17, 4, 4; (1552), 5, 1, 0; (1553), 5, 1, 0; (1556), 7, 2, 10; (1557), 8, 2, 5; (1558), 6, 2, 5; (1564), 13, 4, 11; (1571), 10, 2, 4; (1572), 5, 1, 0; (1576), 23, 5, 11; (1581), 4, 1, 0; (1583), 1, 1, 0; (1584), 9, 2, 14; (1586), 3, 1, 0; (1593), 13, 3, 5; (1596), 10, 2, 4; (1598), 9, 2, 5; (1606), 10, 2, 4; (1607), 4, 1, 0; (1608), 5, 1, 0; (1609), 7, 2, 10; (1611), 5, 1, 0; (1615), 27, 6, 15; (1618), 20, 3, 13; (1623), 5, 1, 0; (1627), 13, 3, 14; (1628), 3, 1, 0; (1630), 4, 1, 0; (1635), 5, 1, 0; (1636), 3, 1, 0; (1643), 5, 1, 0; (1645), 15, 3, 9; (1648), 5, 1, 0; (1650), 5, 1, 0; (1651), 7, 2, 5; (1655), 3, 1, 0; (1658), 5, 1, 0; (1666), 10, 2, 2; (1670), 5, 1, 0; (1673), 13, 2, 1; (1674), 4, 1, 0; (1679), 10, 2, 3; (1685), 5, 1, 0; (1686), 24, 5, 11; (1692), 9, 2, 1; (1693), 7, 2, 7; (1695), 10, 2, 4; (1696), 3, 1, 0; (1697), 4, 1, 0; (1700), 19, 4, 13; (1707), 14, 3, 3; (1708), 3, 1, 0; (1709), 4, 1, 0; (1710), 13, 3, 3; (1713), 8, 2, 6; (1717), 2, 1, 0; (1720), 14, 3, 2; (1721), 1, 1, 0; (1732), 24, 5, 6; (1733), 13, 3, 3; (1734), 14, 3, 11; (1735), 5, 1, 0; (1737), 10, 2, 4; (1738), 19, 3, 12; (1742), 4, 1, 0; (1745), 9, 2, 1; (1747), 4, 1, 0; (1749), 2, 1, 0; (1751), 11, 3, 9; (1756), 8, 2, 4; (1759), 15, 3, 9; (1760), 5, 1, 0; (1763), 5, 1, 0; (1766), 5, 1, 0; (1769), 20, 4, 11; (1776), 5, 1, 0; (1777), 10, 2, 5; (1779), 4, 1, 0; (1781), 4, 1, 0; (1783), 12, 3, 12; (1787), 5, 1, 0; (1788), 14, 3, 3; (1790), 4, 1, 0; (1795), 4, 1, 0; (1799), 10, 2, 4; (1802), 16, 4, 11; (1806), 5, 1, 0; (1807), 5, 1, 0; (1815), 3, 1, 0; (1816), 5, 1, 0; (1817), 1, 1, 0; (1820), 4, 1, 0; (1822), 4, 1, 0; (1823), 9, 2, 5; (1825), 5, 1, 0; (1827), 3, 1, 0; (1828), 4, 1, 0; (1829), 5, 1, 0; (1832), 4, 2, 2; (1845), 10, 2, 12; (1847), 5, 1, 0; (1857), 6, 2, 4; (1860), 15, 3, 20; (1866), 15, 3, 10; (1874), 25, 3, 3; (1875), 10, 2, 5; (1877), 4, 1, 0; (1881), 9, 2, 5; (1882), 5, 1, 0; (1883), 17, 4, 15; (1887), 7, 2, 4; (1892), 4, 1, 0; (1893), 9, 2, 8; (1897), 8, 2, 2; (1898), 4, 1, 0; (1899), 10, 2, 8; (1902), 5, 1, 0; (1906), 15, 3, 2; (1910), 3, 1, 0; (1911), 7, 2, 1; (1914), 7, 2, 12; (1917), 5, 1, 0; (1923), 24, 5, 11; (1931), 19, 4, 11; (1935), 5, 1, 0; (1936), 5, 1, 0; (1938), 5, 1, 0; (1939), 11, 3, 3; (1943), 5, 1, 0; (1944), 4, 1, 0; (1952), 3, 1, 0; (1954), 10, 2, 5; (1956), 3, 1, 0; (1958), 5, 1, 0; (1960), 3, 1, 0; (1964), 4, 1, 0; (1966), 5, 1, 0; (1967), 19, 4, 15; (1968), 14, 3, 13; (1973), 5, 1, 0; (1974), 4, 1, 0; (1975), 34, 6, 15; (1991), 30, 6, 11; (1996), 15, 3, 12; (1999), 5, 1, 0; (2001), 14, 3, 3; (2003), 5, 1, 0; (2004), 15, 3, 5; (2005), 5, 1, 0; (2006), 3, 1, 0; (2013), 5, 1, 0; (2017), 16, 4, 11; (2018), 5, 1, 0; (2022), 5, 1, 0; (2024), 10, 2, 8; (2026), 5, 1, 0; (2029), 10, 2, 5; (2032), 25, 4, 6; (2033), 5, 1, 0; (2034), 5, 1, 0; (2053), 5, 1, 0; (2056), 5, 1, 0; (2066), 5, 1, 0; (2068), 4, 1, 0; (2069), 4, 1, 0; (2070), 15, 3, 2; (2074), 5, 1, 0; (2076), 10, 2, 4; (2077), 5, 1, 0; (2086), 10, 2, 1; (2089), 4, 1, 0; (2090), 10, 2, 4; (2092), 14, 3, 13; (2097), 15, 3, 5; (2104), 10, 2, 6; (2106), 4, 1, 0; (2109), 5, 1, 0; (2110), 15, 3, 11; (2119), 5, 1, 0; (2123), 14, 3, 11; (2125), 25, 5, 11; (2130), 14, 3, 11; (2131), 5, 1, 0; (2133), 3, 1, 0; (2136), 5, 1, 0; (2139), 14, 3, 11; (2140), 5, 1, 0; (2141), 3, 1, 0; (2142), 19, 4, 15; (2144), 5, 1, 0; (2146), 8, 2, 3; (2147), 10, 2, 5; (2149), 5, 1, 0; (2158), 5, 1, 0; (2166), 15, 3, 3; (2172), 29, 4, 8; (2173), 5, 1, 0; (2178), 10, 2, 6; (2179), 14, 3, 12; (2180), 3, 1, 0; (2184), 5, 1, 0; (2189), 19, 4, 7; (2191), 5, 1, 0; (2192), 5, 1, 0; (2194), 5, 1, 0; (2197), 18, 4, 13; (2199), 5, 1, 0; (2200), 5, 1, 0; (2208), 28, 6, 12; (2210), 4, 1, 0; (2216), 5, 1, 0; (2220), 5, 1, 0; (2227), 10, 2, 4; (2242), 18, 4, 15; (2243), 4, 1, 0; (2247), 4, 1, 0; (2253), 24, 5, 11; (2254), 5, 1, 0; (2256), 5, 1, 0; (2257), 8, 2, 7; (2266), 5, 1, 0; (2272), 5, 1, 0; (2277), 5, 1, 0; (2282), 14, 3, 12; (2284), 5, 1, 0; (2291), 3, 1, 0; (2292), 5, 1, 0; (2294), 5, 1, 0; (2295), 10, 2, 4; (2302), 9, 2, 4; (2303), 3, 1, 0; (2309), 5, 1, 0; (2321), 4, 1, 0; (2323), 4, 1, 0; (2327), 15, 3, 11; (2328), 5, 1, 0; (2330), 5, 1, 0; (2331), 5, 1, 0; (2335), 25, 5, 15; (2336), 9, 2, 4; (2344), 20, 4, 7; (2346), 6, 2, 5; (2349), 5, 1, 0; (2352), 5, 1, 0; (2353),

0; (2472), 15, 3, 5; (2474), 10, 2, 5; (2475), 5, 1, 0; (2476), 5, 1, 0; (2477), 5, 1, 0; (2478), 5, 1, 0; (2481), 24, 5, 11; (2482), 15, 3, 13; (2497), 14, 3, 5; (2498), 19, 4, 11; (2500), 10, 2, 4; (2512), 4, 1, 0; (2514), 4, 1, 0; (2515), 15, 3, 13; (2516), 19, 4, 11; (2519), 5, 1, 0; (2525), 20, 4, 10; (2528), 5, 1, 0; (2529), 14, 3, 2; (2532), 4, 1, 0; (2533), 14, 3, 3; (2534), 5, 1, 0; (2536), 5, 1, 0; (2539), 10, 2, 1; (2543), 10, 2, 9; (2545), 3, 1, 0; (2546), 4, 1, 0; (2548), 3, 1, 0; (2549), 5, 1, 0; (2551), 20, 4, 11; (2553), 10, 2, 7; (2554), 5, 1, 0; (2567), 5, 1, 0; (2573), 10, 2, 8; (2582), 4, 1, 0; (2585), 10, 2, 7; (2595), 5, 1, 0; (2598), 5, 1, 0; (2602), 5, 1, 0; (2603), 6, 2, 2; (2604), 5, 1, 0; (2609), 4, 1, 0; (2615), 5, 1, 0; (2616), 5, 1, 0; (2617), 3, 1, 0; (2626), 30, 6, 11; (2639), 10, 2, 1; (2640), 5, 1, 0; (2641), 5, 1, 0; (2643), 4, 1, 0; (2644), 5, 1, 0; (2645), 4, 1, 0; (2650), 5, 1, 0; (2652), 5, 1, 0; (2653), 5, 1, 0; (2662), 20, 4, 11; (2672), 4, 1, 0; (2679), 5, 1, 0; (2680), 27, 6, 11; (2681), 9, 2, 4; (2683), 5, 1, 0; (2691), 14, 3, 5; (2697), 5, 1, 0; (2698), 5, 1, 0; (2699), 3, 1, 0; (2704), 10, 2, 5; (2707), 5, 1, 0; (2710), 4, 1, 0; (2713), 2, 1, 0; (2721), 3, 1, 0; (2724), 5, 1, 0; (2728), 5, 1, 0; (2729), 5, 1, 0; (2739), 3, 1, 0; (2742), 25, 5, 12; (2756), 4, 1, 0; (2758), 5, 1, 0; (2760), 6, 2, 4; (2768), 5, 1, 0; (2775), 15, 3, 10; (2776), 13, 3, 2; (2780), 5, 1, 0; (2783), 5, 1, 0; (2785), 30, 5, 9; (2798), 3, 1, 0; (2802), 18, 4, 14; (2806), 5, 1, 0; (2813), 5, 1, 0; (2814), 5, 1, 0; (2815), 5, 1, 0; (2819), 10, 2, 1; (2820), 5, 1, 0; (2822), 5, 1, 0; (2826), 4, 1, 0; (2829), 3, 1, 0; (2839), 15, 3, 12; (2841), 5, 1, 0; (2845), 5, 1, 0; (2846), 19, 4, 13; (2847), 5, 1, 0; (2848), 5, 1, 0; (2849), 5, 1, 0; (2858), 10, 2, 4; (2859), 19, 4, 11; (2867), 4, 1, 0; (2869), 7, 2, 6; (2871), 29, 6, 12; (2874), 5, 1, 0; (2876), 13, 3, 12; (2877), 10, 2, 2; (2881), 19, 4, 11; (2882), 10, 2, 1; (2883), 5, 1, 0; (2887), 8, 2, 6; (2889), 9, 2, 4; (2890), 30, 4, 13; (2892), 30, 5, 6; (2896), 5, 1, 0; (2898), 4, 1, 0; (2899), 10, 2, 6; (2906), 12, 3, 4; (2913), 11, 3, 8; (2915), 15, 3, 11; (2916), 4, 1, 0; (2918), 20, 4, 11; (2920), 3, 1, 0; (2923), 10, 2, 3; (2926), 5, 1, 0; (2927), 4, 1, 0; (2930), 10, 2, 1; (2938), 9, 2, 16; (2946), 5, 1, 0; (2956), 17, 3, 8; (2963), 10, 2, 7; (2966), 5, 1, 0; (2969), 14, 3, 11; (2974), 5, 1, 0; (2975), 5, 1, 0; (2977), 20, 4, 11; (2985), 13, 3, 9; (2990), 19, 4, 11; (2991), 5, 1, 0; (2994), 25, 5, 9; (2998), 12, 3, 3; (3001), 5, 1, 0; (3005), 28, 5, 11; (3006), 14, 3, 11; (3007), 5, 1, 0; (3012), 5, 1, 0; (3016), 25, 5, 11; (3017), 5, 1, 0; (3018), 5, 1, 0; (3022), 5, 1, 0; (3023), 5, 1, 0; (3026), 5, 1, 0; (3031), 5, 1, 0; (3033), 5, 1, 0; (3034), 5, 1, 0; (3035), 5, 1, 0; (3044), 5, 1, 0; (3045), 5, 1, 0; (3050), 5, 1, 0; (3051), 5, 1, 0; (3055), 5, 1, 0; (3062), 8, 2, 7; (3064), 4, 1, 0; (3066), 12, 3, 12; (3068), 14, 3, 12; (3076), 5, 1, 0; (3078), 4, 1, 0; (3080), 5, 1, 0; (3082), 10, 2, 7; (3086), 5, 1, 0; (3087), 2, 1, 0; (3090), 15, 3, 3; (3093), 9, 2, 2; (3094), 5, 1, 0; (3096), 4, 1, 0; (3101), 29, 6, 11; (3107), 19, 4, 11; (3108), 5, 1, 0; (3115), 10, 2, 4; (3116), 10, 2, 12; (3119), 15, 3, 8; (3127), 5, 1, 0; (3128), 1, 1, 0; (3135), 5, 1, 0; (3136), 13, 3, 12; (3141), 8, 2, 4; (3150), 15, 3, 12; (3151), 5, 1, 0; (3152), 5, 1, 0; (3155), 3, 1, 0; (3165), 5, 1, 0; (3166), 5, 1, 0; (3179), 14, 3, 11; (3184), 4, 1, 0; (3191), 3, 1, 0; (3192), 9, 2, 2; (3195), 2, 1, 0; (3203), 3, 1, 0; (3216), 3, 1, 0; (3250), 10, 2, 4; (3251), 5, 1, 0; (3255), 14, 3, 6; (3262), 4, 1, 0; (3265), 9, 2, 12; (3274), 3, 1, 0; (3276), 5, 1, 0; (3277), 5, 1, 0; (3283), 15, 3, 2; (3285), 5, 1, 0; (3289), 13, 3, 3; (3293), 3, 1, 0; (3298), 5, 1, 0; (3316), 10, 2, 3; (3318), 9, 2, 8; (3319), 10, 2, 4; (3325), 22, 5, 18; (3326), 5, 1, 0; (3327), 13, 3, 11; (3330), 15, 3, 3; (3333), 9, 2, 5; (3335), 10, 2, 4; (3338), 3, 1, 0; (3339), 5, 1, 0; (3343), 4, 1, 0; (3344), 3, 1, 0; (3346), 5, 1, 0; (3348), 8, 2, 5; (3350), 15, 3, 11; (3355), 10, 2, 4; (3356), 8, 2, 3; (3357), 4, 1, 0; (3359), 23, 5, 12; (3364), 29, 6, 11; (3368), 3, 1, 0; (3370), 4, 1, 0; (3372), 5, 1, 0; (3373), 19, 4, 11; (3375), 13, 3, 3; (3383), 8, 2, 4; (3385), 5, 1, 0; (3387), 5, 1, 0; (3388), 5, 1, 0; (3390), 5, 1, 0; (3394), 5, 1, 0; (3405), 5, 1, 0; (3410), 5, 1, 0; (3412), 14, 3, 13; (3413), 13, 3, 4; (3420), 5, 1, 0; (3421), 3, 1, 0; (3426), 15, 3, 12; (3434), 4, 1, 0; (3435), 5, 1, 0; (3439), 19, 4, 11; (3447), 10, 2, 12; (3455), 5, 1, 0; (3456), 21, 4, 9; (3464), 19, 4, 11; (3465), 5, 1, 0; (3466), 24, 4, 6; (3469), 10, 2, 5; (3477), 18, 4, 11; (3478), 5, 1, 0; (3482), 18, 4, 9; (3485), 4, 1, 0; (3494), 15, 2, 5; (3499), 20, 4, 11; (3502), 5, 1, 0; (3505), 4, 1, 0; (3506), 10, 2, 4; (3509), 5, 1, 0; (3519), 25, 5, 11; (3522), 5, 1, 0; (3528), 17, 4, 5; (3530), 3, 1, 0; (3538), 5, 1, 0; (3540), 4, 1, 0; (3542), 5, 1, 0; (3552), 8, 2, 4; (3556), 4, 1, 0; (3565), 5, 1, 0; (3568), 4, 1, 0; (3572), 3, 1, 0; (3584), 14, 3, 11; (3586), 10, 2, 1; (3588), 23, 5, 11; (3593), 14, 3, 2; (3595), 5, 1, 0; (3596), 9, 2, 16; (3597), 5, 1, 0; (3603), 5, 1, 0; (3604), 5, 1, 0; (3606), 5, 1, 0; (3607), 5, 1, 0; (3608), 9, 2, 8; (3610), 10, 2, 4; (3621), 18, 4, 11; (3626), 5, 1, 0; (3634), 34, 7, 11; (3640), 14, 3, 12; (3656), 15, 3, 5; (3658), 5, 1, 0; (3662), 10, 2, 3; (3666), 5, 1, 0; (3668), 15, 3, 3; (3669), 20, 4, 12; (3672), 3, 1, 0; (3676), 3, 1, 0; (3677), 14, 3, 5; (3679), 5, 1, 0; (3681), 4, 1, 0; (3684), 5, 1, 0; (3686), 5, 1, 0; (3687), 5, 1, 0; (3689), 10, 2, 4; (3692), 5, 1, 0; (3693), 5, 1, 0; (3695), 14, 3, 11; (3696), 5, 1, 0; (3699), 5, 1, 0; (3705), 20, 4, 11; (3709), 5, 1, 0; (3713), 3, 1, 0; (3719), 15, 3, 11; (3721), 10, 2, 5; (3726), 4, 1, 0; (3733), 13, 3, 12; (3736), 5, 1, 0; (3740), 4, 1, 0; (3747), 4, 1, 0; (3756), 3, 1, 0; (3760), 5, 1, 0; (3761), 5, 1, 0; (3766), 5, 1, 0; (3768), 8, 2, 12; (3772), 14, 3, 8; (3776), 4, 1, 0; (3782), 4, 1, 0; (3784), 10, 2, 8; (3785), 18, 4, 11; (3786), 5, 1, 0; (3790), 5, 1, 0; (3797), 5, 1, 0; (3800), 10, 2, 2; (3801), 4, 1, 0; (3804), 14, 3, 5; (3807), 5, 1, 0; (3811), 5, 1, 0; (3815), 10, 2, 5; (3818), 5, 1, 0; (3820), 9, 2, 5; (3821), 14, 3, 2; (3828), 5, 1, 0; (3830), 15, 3, 6; (3831), 5, 1, 0; (3832), 25, 5, 11; (3839), 8, 2, 5; (3845), 5, 1, 0; (3851), 5, 1, 0; (3861), 3, 1, 0; (3862), 3, 1, 0; (3864), 5, 1, 0; (3865), 7, 2, 4; (3866), 5, 1, 0; (3869), 6, 2, 4; (3870), 4, 1, 0; (3872), 5, 1, 0; (3875), 5, 1, 0; (3877), 3, 1, 0; (3879), 8, 2, 4; (3883), 14, 3, 11; (3885), 5, 1, 0; (3892), 4, 1, 0; (3894), 10, 2, 1; (3896), 7, 2, 1; (3898), 25, 5, 11; (3901), 3, 1, 0; (3903), 14, 3, 11; (3904), 1, 1, 0; (3906), 5, 1, 0; (3907), 5, 1, 0; (3911), 5, 1, 0; (3914), 2, 1, 0; (3918), 18, 4, 10; (3919), 5, 1, 0; (3921), 5, 1, 0; (3926), 10, 2, 4; (3927), 15, 3, 5; (3928), 5, 1, 0; (3934), 5, 1, 0; (3943), 19, 4, 8; (3944), 5, 1, 0; (3948), 7, 2, 4; (3949), 12, 3, 12; (3951), 5, 1, 0; (3956), 10, 2, 4; (3957), 4, 1, 0; (3959), 7, 2, 1; (3964), 3, 1,

0; (3967), 10, 2, 4; (3971), 10, 2, 4; (3976), 4, 1, 0; (3978), 10, 2, 1; (3986), 4, 1, 0; (3991), 5, 1, 0; (3992), 4, 1, 0; (3996), 15, 3, 10; (3998), 5, 1, 0; (4001), 9, 2, 4; (4004), 5, 1, 0; (4005), 9, 2, 4; (4010), 20, 4, 11; (4012), 10, 2, 4; (4014), 5, 1, 0; (4017), 4, 1, 0; (4021), 5, 1, 0; (4024), 5, 1, 0; (4030), 5, 1, 0; (4038), 35, 7, 11; (4039), 3, 1, 0; (4044), 4, 1, 0; (4047), 10, 2, 5; (4055), 3, 1, 0; (4058), 4, 1, 0; (4068), 5, 1, 0; (4071), 5, 1, 0; (4075), 39, 7, 13; (4077), 10, 2, 9; (4081), 15, 3, 11; (4082), 5, 1, 0; (4086), 3, 1, 0; (4090), 10, 2, 4; (4092), 5, 1, 0; (4094), 15, 3, 2; (4098), 5, 1, 0; (4099), 10, 2, 4; (4102), 5, 1, 0; (4103), 14, 3, 11; (4108), 5, 1, 0; (4112), 5, 1, 0; (4117), 3, 1, 0; (4118), 15, 3, 5; (4120), 5, 1, 0; (4121), 9, 2, 11; (4126), 10, 2, 7; (4129), 3, 1, 0; (4133), 5, 1, 0; (4134), 3, 1, 0; (4135), 5, 1, 0; (4139), 10, 2, 5; (4140), 9, 2, 12; (4143), 29, 5, 9; (4144), 5, 1, 0; (4145), 5, 1, 0; (4150), 5, 1, 0; (4155), 1, 1, 0; (4159), 5, 1, 0; (4160), 29, 5, 11; (4161), 5, 1, 0; (4167), 4, 1, 0; (4170), 5, 1, 0; (4180), 5, 1, 0; (4184), 10, 2, 8; (4188), 4, 1, 0; (4190), 4, 1, 0; (4191), 4, 1, 0; (4193), 15, 3, 5; (4196), 10, 2, 5; (4198), 15, 3, 3; (4199), 5, 1, 0; (4201), 9, 2, 2; (4202), 5, 1, 0; (4208), 3, 1, 0; (4209), 5, 1, 0; (4212), 5, 1, 0; (4214), 8, 2, 5; (4221), 5, 1, 0; (4229), 4, 1, 0; (4234), 29, 5, 11; (4235), 5, 1, 0; (4240), 4, 1, 0; (4246), 3, 1, 0; (4252), 10, 2, 1; (4253), 20, 4, 13; (4258), 29, 5, 13; (4262), 11, 3, 8; (4268), 5, 1, 0; (4274), 15, 2, 3; (4282), 5, 1, 0; (4285), 20, 4, 11; (4286), 5, 1, 0; (4288), 4, 1, 0; (4292), 36, 6, 11; (4294), 29, 6, 11; (4300), 10, 2, 2; (4313), 10, 2, 7; (4316), 5, 1, 0; (4320), 5, 1, 0; (4323), 10, 2, 5; (4325), 9, 2, 12; (4327), 3, 1, 0; (4336), 19, 4, 6; (4339), 14, 3, 2; (4340), 9, 2, 2; (4349), 3, 1, 0; (4351), 13, 3, 5; (4352), 10, 2, 8; (4358), 5, 1, 0; (4359), 19, 4, 11; (4360), 9, 2, 3; (4362), 5, 1, 0; (4367), 9, 2, 13; (4370), 10, 2, 4; (4374), 5, 1, 0; (4376), 5, 1, 0; (4389), 25, 4, 6; (4403), 3, 1, 0; (4406), 25, 5, 11; (4408), 5, 1, 0; (4416), 14, 3, 2; (4417), 5, 1, 0; (4418), 9, 2, 4; (4420), 5, 1, 0; (4422), 5, 1, 0; (4427), 5, 1, 0; (4445), 5, 1, 0; (4449), 10, 2, 5; (4453), 3, 1, 0; (4457), 5, 1, 0; (4459), 4, 1, 0; (4460), 10, 2, 5; (4462), 20, 4, 11; (4471), 5, 1, 0; (4475), 5, 1, 0; (4484), 10, 2, 20; (4485), 2, 1, 0; (4486), 5, 1, 0; (4489), 15, 4, 5; (4492), 10, 2, 4; (4493), 5, 1, 0; (4494), 5, 1, 0; (4496), 4, 1, 0; (4498), 10, 2, 5; (4499), 5, 1, 0; (4506), 19, 3, 3; (4508), 4, 1, 0; (4511), 4, 1, 0; (4513), 9, 2, 5; (4514), 5, 1, 0; (4519), 5, 1, 0; (4520), 5, 1, 0; (4524), 5, 1, 0; (4529), 4, 1, 0; (4531), 4, 1, 0; (4532), 5, 1, 0; (4536), 15, 3, 5; (4537), 4, 1, 0; (4542), 7, 2, 7; (4548), 3, 1, 0; (4554), 5, 1, 0; (4555), 5, 1, 0; (4556), 5, 1, 0; (4557), 4, 1, 0; (4559), 15, 3, 7; (4562), 5, 1, 0; (4571), 9, 2, 1; (4589), 14, 3, 11; (4590), 5, 1, 0; (4591), 13, 3, 11; (4610), 19, 4, 7; (4611), 5, 1, 0; (4612), 5, 1, 0; (4613), 5, 1, 0; (4618), 10, 2, 5; (4621), 24, 5, 11; (4625), 4, 1, 0; (4635), 4, 1, 0; (4637), 4, 1, 0; (4643), 20, 3, 15; (4644), 5, 1, 0; (4646), 8, 2, 5; (4655), 5, 1, 0; (4673), 10, 2, 11; (4675), 9, 2, 5; (4676), 9, 2, 4; (4684), 10, 2, 4; (4695), 4, 1, 0; (4697), 16, 4, 11; (4699), 5, 1, 0; (4700), 10, 2, 12; (4719), 4, 1, 0; (4725), 5, 1, 0; (4726), 5, 1, 0; (4737), 5, 1, 0; (4739), 5, 1, 0; (4740), 8, 2, 7; (4744), 5, 1, 0; (4748), 5, 1, 0; (4753), 4, 1, 0; (4757), 5, 1, 0; (4763), 4, 1, 0; (4767), 9, 2, 5; (4771), 5, 1, 0; (4775), 9, 2, 11; (4783), 4, 1, 0; (4790), 4, 1, 0; (4793), 5, 1, 0; (4794), 5, 1, 0; (4803), 5, 1, 0; (4804), 10, 2, 7; (4809), 4, 1, 0; (4816), 10, 2, 5; (4823), 5, 1, 0; (4835), 5, 1, 0; (4843), 5, 1, 0; (4849), 17, 4, 11; (4850), 19, 4, 11; (4855), 4, 1, 0; (4860), 10, 2, 4; (4861), 15, 2, 8; (4862), 8, 2, 7; (4872), 3, 1, 0; (4873), 5, 1, 0; (4874), 3, 1, 0; (4875), 4, 1, 0; (4877), 5, 1, 0; (4883), 10, 2, 4; (4886), 5, 1, 0; (4890), 5, 1, 0; (4893), 5, 1, 0; (4897), 5, 1, 0; (4901), 5, 1, 0; (4908), 14, 3, 2; (4910), 5, 1, 0; (4912), 18, 4, 15; (4916), 5, 1, 0; (4919), 5, 1, 0; (4921), 5, 1, 0; (4924), 12, 3, 3; (4925), 10, 2, 4; (4929), 5, 1, 0; (4930), 9, 2, 5; (4932), 25, 4, 6; (4934), 15, 3, 2; (4935), 9, 2, 12; (4936), 4, 1, 0; (4940), 15, 3, 3; (4941), 18, 4, 11; (4942), 5, 1, 0; (4949), 10, 2, 7; (4951), 4, 1, 0; (4952), 5, 1, 0; (4954), 10, 2, 4; (4956), 10, 3, 2; (4958), 5, 1, 0; (4959), 10, 2, 12; (4961), 10, 2, 4; (4962), 5, 1, 0; (4967), 10, 2, 8; (4968), 5, 1, 0; (4976), 5, 1, 0; (4978), 5, 1, 0; (4980), 9, 2, 1; (4984), 15, 3, 5; (4985), 15, 3, 3; (4990), 4, 1, 0; (4992), 3, 1, 0; (4993), 5, 1, 0; (4994), 5, 1, 0; (4996), 13, 3, 5; (5002), 4, 1, 0; (5004), 8, 2, 6; (5005), 4, 1, 0; (5006), 20, 4, 12; (5007), 4, 1, 0; (5009), 4, 1, 0; (5014), 22, 5, 14; (5016), 19, 4, 11; (5020), 11, 3, 11; (5021), 5, 1, 0; (5022), 3, 1, 0; (5024), 5, 1, 0; (5026), 4, 1, 0; (5028), 3, 1, 0; (5030), 15, 3, 7; (5038), 5, 1, 0; (5040), 3, 1, 0; (5047), 5, 1, 0; (5050), 17, 4, 11; (5053), 5, 1, 0; (5055), 20, 4, 9; (5063), 3, 1, 0; (5064), 20, 4, 9; (5077), 18, 4, 11; (5079), 5, 1, 0; (5085), 10, 2, 4; (5089), 15, 3, 13; (5090), 4, 1, 0; (5099), 5, 1, 0; (5105), 4, 1, 0; (5108), 10, 2, 4; (5110), 17, 4, 11; (5111), 13, 3, 12; (5114), 15, 3, 3; (5121), 4, 1, 0; (5129), 5, 1, 0; (5133), 5, 1, 0; (5137), 5, 1, 0; (5142), 5, 1, 0; (5156), 4, 1, 0; (5163), 5, 1, 0; (5165), 8, 2, 6; (5168), 5, 1, 0; (5171), 13, 3, 5; (5174), 18, 4, 11; (5177), 4, 1, 0; (5179), 3, 1, 0; (5180), 5, 1, 0; (5181), 5, 1, 0; (5182), 5, 1, 0; (5183), 5, 1, 0; (5186), 5, 1, 0; (5188), 15, 2, 1; (5199), 5, 1, 0; (5200), 5, 1, 0; (5203), 3, 1, 0; (5204), 3, 1, 0; (5207), 5, 1, 0; (5210), 5, 1, 0; (5213), 6, 2, 5; (5215), 10, 2, 5; (5216), 4, 1, 0; (5218), 7, 2, 12; (5222), 3, 1, 0; (5228), 13, 3, 11; (5231), 10, 2, 11; (5242), 5, 1, 0; (5250), 20, 4, 12; (5253), 10, 2, 1; (5258), 5, 1, 0; (5260), 5, 1, 0; (5268), 5, 1, 0; (5269), 24, 5, 13; (5273), 3, 1, 0; (5281), 5, 1, 0; (5282), 10, 2, 3; (5285), 4, 1, 0; (5286), 5, 1, 0; (5287), 4, 1, 0; (5292), 8, 2, 10; (5298), 8, 2, 5; (5300), 20, 3, 10; (5303), 13, 3, 6; (5304), 5, 1, 0; (5306), 5, 1, 0; (5307), 10, 2, 8; (5312), 9, 2, 6; (5314), 15, 3, 7; (5316), 5, 1, 0; (5317), 5, 1, 0; (5319), 3, 1, 0; (5321), 17, 3, 4; (5327), 3, 1, 0; (5340), 5, 1, 0; (5347), 5, 1, 0; (5353), 10, 2, 2; (5360), 4, 1, 0; (5361), 10, 2, 8; (5366), 7, 2, 4; (5367), 5, 1, 0; (5369), 4, 1, 0; (5372), 5, 1, 0; (5374), 3, 1, 0; (5377), 5, 1, 0; (5383), 9, 2, 4; (5385), 10, 2, 8; (5386), 5, 1, 0; (5391), 5, 1, 0; (5393), 4, 1, 0; (5394), 3, 1, 0; (5398), 12, 3, 12; (5400), 20, 4, 11; (5415), 5, 1, 0; (5417), 4, 1, 0; (5421), 5, 1, 0; (5428), 15, 3, 11; (5429), 15, 3,

2000 MAR. 20

M.P.C. 39015

1, 0; (5498), 15, 3, 11; (5499), 14, 3, 11; (5500), 9, 2, 1; (5506), 3, 1, 0; (5509), 15, 3, 11; (5510), 15, 2, 12; (5512), 18, 4, 10; (5518), 5, 1, 0; (5522), 3, 1, 0; (5524), 5, 1, 0; (5525), 7, 2, 4; (5529), 15, 3, 13; (5530), 10, 2, 8; (5533), 4, 1, 0; (5541), 4, 1, 0; (5543), 25, 5, 11; (5550), 5, 1, 0; (5554), 5, 1, 0; (5562), 4, 1, 0; (5580), 7, 2, 6; (5581), 5, 1, 0; (5586), 18, 4, 11; (5594), 5, 1, 0; (5599), 5, 1, 0; (5600), 5, 1, 0; (5603), 20, 4, 15; (5604), 10, 2, 3; (5605), 5, 1, 0; (5612), 4, 1, 0; (5613), 19, 4, 11; (5617), 5, 1, 0; (5618), 25, 5, 12; (5621), 5, 1, 0; (5625), 5, 1, 0; (5630), 5, 1, 0; (5631), 20, 4, 11; (5640), 14, 3, 11; (5641), 13, 3, 4; (5650), 5, 1, 0; (5655), 5, 1, 0; (5657), 3, 1, 0; (5666), 3, 1, 0; (5671), 5, 1, 0; (5676), 10, 2, 5; (5685), 4, 1, 0; (5688), 9, 2, 4; (5692), 4, 1, 0; (5693), 19, 4, 12; (5700), 5, 1, 0; (5701), 9, 2, 4; (5706), 5, 1, 0; (5709), 5, 1, 0; (5712), 4, 1, 0; (5721), 5, 1, 0; (5729), 5, 1, 0; (5730), 5, 1, 0; (5733), 10, 2, 1; (5734), 10, 2, 8; (5739), 3, 1, 0; (5749), 5, 1, 0; (5755), 5, 1, 0; (5756), 4, 1, 0; (5759), 14, 3, 7; (5769), 4, 1, 0; (5771), 5, 1, 0; (5775), 8, 2, 4; (5776), 10, 2, 4; (5779), 5, 1, 0; (5791), 40, 8, 11; (5803), 7, 2, 7; (5807), 20, 4, 13; (5808), 19, 4, 11; (5809), 5, 1, 0; (5811), 3, 1, 0; (5815), 5, 1, 0; (5816), 18, 4, 11; (5823), 8, 2, 4; (5834), 9, 2, 4; (5836), 5, 1, 0; (5838), 10, 2, 5; (5844), 5, 1, 0; (5849), 4, 1, 0; (5852), 5, 1, 0; (5857), 3, 1, 0; (5866), 5, 1, 0; (5867), 5, 1, 0; (5880), 4, 1, 0; (5889), 10, 2, 5; (5894), 2, 1, 0; (5900), 8, 2, 7; (5902), 10, 2, 7; (5914), 14, 3, 8; (5920), 9, 2, 7; (5921), 4, 1, 0; (5922), 7, 2, 4; (5926), 15, 3, 11; (5930), 5, 1, 0; (5934), 27, 6, 11; (5940), 5, 1, 0; (5942), 8, 2, 6; (5943), 4, 1, 0; (5946), 12, 3, 12; (5950), 5, 1, 0; (5958), 28, 6, 15; (5970), 5, 1, 0; (5980), 9, 2, 4; (5981), 5, 1, 0; (5985), 5, 1, 0; (5987), 5, 1, 0; (6003), 9, 2, 4; (6004), 3, 1, 0; (6008), 19, 4, 13; (6009), 5, 1, 0; (6010), 4, 1, 0; (6016), 5, 1, 0; (6017), 5, 1, 0; (6018), 5, 1, 0; (6019), 3, 1, 0; (6020), 14, 3, 13; (6022), 9, 2, 2; (6038), 13, 3, 8; (6045), 15, 3, 2; (6046), 5, 1, 0; (6054), 5, 1, 0; (6058), 15, 3, 4; (6059), 19, 4, 5; (6064), 5, 1, 0; (6065), 4, 1, 0; (6066), 20, 3, 7; (6069), 12, 3, 11; (6070), 5, 1, 0; (6073), 5, 1, 0; (6074), 21, 5, 15; (6077), 5, 1, 0; (6081), 4, 1, 0; (6085), 5, 1, 0; (6091), 6, 2, 4; (6092), 14, 3, 12; (6093), 10, 2, 5; (6094), 15, 3, 4; (6095), 9, 2, 4; (6096), 5, 1, 0; (6097), 7, 2, 1; (6099), 7, 2, 4; (6100), 9, 2, 4; (6101), 10, 2, 4; (6110), 8, 2, 4; (6111), 9, 2, 7; (6114), 4, 1, 0; (6120), 15, 3, 11; (6123), 15, 3, 3; (6131), 14, 2, 4; (6139), 5, 1, 0; (6142), 4, 1, 0; (6145), 4, 1, 0; (6146), 15, 3, 6; (6147), 4, 1, 0; (6154), 10, 2, 5; (6155), 14, 3, 13; (6157), 5, 1, 0; (6160), 9, 2, 4; (6161), 5, 1, 0; (6162), 8, 2, 12; (6167), 20, 4, 11; (6172), 4, 1, 0; (6180), 14, 3, 11; (6184), 5, 1, 0; (6189), 3, 1, 0; (6190), 4, 1, 0; (6192), 10, 2, 7; (6193), 5, 1, 0; (6195), 4, 1, 0; (6196), 4, 1, 0; (6199), 15, 3, 5; (6201), 5, 1, 0; (6204), 2, 1, 0; (6205), 10, 2, 7; (6210), 5, 1, 0; (6211), 5, 1, 0; (6212), 5, 1, 0; (6215), 9, 2, 1; (6216), 15, 3, 7; (6223), 5, 1, 0; (6228), 15, 3, 12; (6231), 5, 1, 0; (6233), 5, 1, 0; (6236), 5, 1, 0; (6238), 15, 3, 12; (6254), 5, 1, 0; (6255), 4, 1, 0; (6256), 5, 1, 0; (6260), 9, 2, 12; (6265), 9, 2, 4; (6269), 3, 1, 0; (6273), 15, 3, 3; (6275), 25, 5, 13; (6276), 16, 4, 11; (6281), 5, 1, 0; (6283), 4, 1, 0; (6284), 30, 6, 11; (6286), 3, 1, 0; (6296), 5, 1, 0; (6298), 4, 1, 0; (6299), 10, 2, 3; (6307), 3, 1, 0; (6309), 5, 1, 0; (6321), 5, 1, 0; (6325), 8, 2, 8; (6327), 10, 2, 7; (6328), 5, 1, 0; (6332), 8, 2, 4; (6335), 4, 1, 0; (6337), 4, 1, 0; (6341), 10, 2, 3; (6342), 13, 3, 13; (6345), 24, 5, 12; (6346), 5, 1, 0; (6351), 24, 5, 11; (6353), 5, 1, 0; (6355), 4, 1, 0; (6356), 5, 1, 0; (6357), 5, 1, 0; (6359), 4, 1, 0; (6362), 10, 2, 11; (6365), 4, 1, 0; (6366), 4, 1, 0; (6371), 5, 1, 0; (6374), 10, 2, 4; (6375), 4, 1, 0; (6378), 4, 1, 0; (6379), 5, 1, 0; (6382), 5, 1, 0; (6384), 9, 2, 4; (6385), 20, 4, 12; (6390), 20, 4, 13; (6393), 5, 1, 0; (6394), 9, 2, 12; (6402), 5, 1, 0; (6404), 4, 1, 0; (6410), 3, 1, 0; (6416), 4, 1, 0; (6420), 17, 4, 14; (6425), 10, 2, 5; (6428), 3, 1, 0; (6432), 5, 1, 0; (6435), 5, 1, 0; (6437), 19, 4, 11; (6444), 4, 1, 0; (6459), 4, 1, 0; (6460), 19, 4, 5; (6461), 18, 4, 12; (6462), 4, 1, 0; (6464), 5, 1, 0; (6475), 5, 1, 0; (6479), 4, 1, 0; (6482), 4, 1, 0; (6493), 5, 1, 0; (6498), 4, 1, 0; (6506), 3, 1, 0; (6519), 3, 1, 0; (6527), 5, 1, 0; (6535), 5, 1, 0; (6537), 5, 1, 0; (6540), 5, 1, 0; (6541), 5, 1, 0; (6543), 3, 1, 0; (6554), 5, 1, 0; (6555), 5, 1, 0; (6566), 10, 2, 4; (6567), 5, 1, 0; (6572), 5, 1, 0; (6585), 10, 2, 8; (6594), 4, 1, 0; (6600), 18, 4, 11; (6601), 4, 1, 0; (6608), 3, 1, 0; (6610), 9, 2, 8; (6629), 5, 1, 0; (6631), 5, 1, 0; (6634), 5, 1, 0; (6636), 5, 1, 0; (6638), 5, 1, 0; (6651), 5, 1, 0; (6658), 5, 1, 0; (6660), 4, 1, 0; (6669), 9, 2, 5; (6672), 5, 1, 0; (6679), 8, 2, 12; (6680), 10, 2, 5; (6681), 5, 1, 0; (6682), 15, 3, 6; (6698), 5, 1, 0; (6699), 5, 1, 0; (6703), 5, 1, 0; (6706), 12, 2, 4; (6707), 9, 2, 4; (6708), 3, 1, 0; (6709), 20, 3, 12; (6713), 4, 1, 0; (6714), 5, 1, 0; (6726), 5, 1, 0; (6735), 5, 1, 0; (6736), 4, 1, 0; (6737), 17, 4, 11; (6738), 23, 5, 11; (6742), 5, 1, 0; (6752), 5, 1, 0; (6753), 20, 4, 5; (6754), 13, 3, 5; (6755), 5, 1, 0; (6762), 24, 5, 8; (6764), 4, 1, 0; (6768), 28, 5, 11; (6769), 25, 5, 13; (6771), 4, 1, 0; (6779), 5, 1, 0; (6780), 15, 3, 11; (6787), 4, 1, 0; (6788), 3, 1, 0; (6789), 5, 1, 0; (6791), 5, 1, 0; (6792), 15, 3, 7; (6795), 4, 1, 0; (6800), 4, 1, 0; (6801), 23, 5, 12; (6804), 7, 2, 4; (6809), 10, 2, 4; (6817), 3, 1, 0; (6819), 10, 2, 4; (6821), 5, 1, 0; (6825), 3, 1, 0; (6827), 3, 1, 0; (6828), 10, 2, 4; (6831), 10, 2, 4; (6834), 15, 3, 13; (6837), 3, 1, 0; (6840), 4, 1, 0; (6841), 10, 2, 5; (6843), 13, 3, 12; (6844), 5, 1, 0; (6845), 4, 1, 0; (6846), 20, 4, 11; (6847), 20, 4, 15; (6849), 10, 2, 5; (6852), 10, 2, 2; (6854), 15, 3, 11; (6855), 4, 1, 0; (6856), 15, 3, 2; (6857), 4, 1, 0; (6863), 5, 1, 0; (6864), 4, 1, 0; (6865), 5, 1, 0; (6867), 10, 2, 2; (6874), 10, 2, 7; (6876), 9, 2, 4; (6877), 11, 3, 6; (6878), 5, 1, 0; (6881), 3, 1, 0; (6882), 4, 1, 0; (6886), 8, 2, 1; (6888), 10, 2, 5; (6893), 9, 2, 5; (6895), 20, 4, 11; (6898), 4, 1, 0; (6903), 4, 1, 0; (6904), 9, 2, 11; (6905), 3, 1, 0; (6909), 10, 2, 4; (6914), 10, 2, 3; (6915), 9, 2, 8; (6918), 5, 1, 0; (6919), 5, 1, 0; (6920), 4, 1, 0; (6921), 4, 1, 0; (6923), 4, 1, 0; (6925), 5, 1, 0; (6928), 4, 1, 0; (6933), 14, 3, 11; (6934), 10, 2, 8; (6935), 12, 3, 2; (6936), 10, 2, 5; (6939), 10, 2, 8; (6945), 5, 1, 0; (6951), 5, 1, 0; (6952), 5, 1, 0; (6957), 14, 3, 2; (6958), 5, 1, 0; (6959), 3, 1, 0; (6972), 10, 2, 4; (6973), 5, 1, 0; (6974), 4, 1, 0; (6975), 10, 2, 5; (6978), 30, 6, 13; (6979), 5, 1, 0; (6980), 5, 1, 0; (6981), 10, 2, 8; (6982), 15, 2, 5; (6987), 5, 1, 0; (6989), 5, 1, 0; (6992), 5, 1, 0; (6993), 5, 1, 0; (6995), 10, 2, 5; (7006), 14, 3, 11; (7008), 20, 4, 11; (7013), 14, 3, 11; (7017), 4, 1, 0; (7021), 3, 1, 0; (7022), 10,

2, 4; (7024), 3, 1, 0; (7028), 5, 1, 0; (7029), 4, 1, 0; (7030), 5, 1, 0; (7035), 5, 1, 0; (7036), 5, 1, 0; (7038), 4, 1, 0; (7043), 4, 1, 0; (7045), 7, 2, 1; (7050), 4, 1, 0; (7052), 6, 2, 1; (7056), 5, 1, 0; (7060), 14, 3, 11; (7061), 9, 2, 6; (7062), 9, 2, 4; (7063), 4, 1, 0; (7067), 8, 2, 8; (7076), 5, 1, 0; (7082), 14, 3, 13; (7085), 20, 4, 11; (7099), 5, 1, 0; (7100), 30, 6, 11; (7102), 10, 2, 4; (7103), 10, 2, 1; (7104), 5, 1, 0; (7106), 5, 1, 0; (7107), 12, 3, 3; (7112), 6, 2, 10; (7126), 35, 6, 11; (7127), 13, 3, 12; (7128), 10, 2, 1; (7131), 10, 2, 10; (7139), 4, 1, 0; (7140), 4, 1, 0; (7146), 5, 1, 0; (7147), 10, 2, 3; (7176), 10, 2, 4; (7180), 5, 1, 0; (7182), 3, 1, 0; (7187), 8, 2, 2; (7189), 4, 1, 0; (7194), 5, 1, 0; (7202), 8, 2, 5; (7205), 3, 1, 0; (7206), 5, 1, 0; (7208), 5, 1, 0; (7209), 10, 2, 4; (7210), 5, 1, 0; (7212), 5, 1, 0; (7215), 3, 1, 0; (7217), 9, 2, 5; (7222), 5, 1, 0; (7231), 14, 2, 1; (7247), 5, 1, 0; (7274), 5, 1, 0; (7284), 5, 1, 0; (7294), 10, 2, 8; (7308), 5, 1, 0; (7312), 3, 1, 0; (7315), 5, 1, 0; (7322), 5, 1, 0; (7324), 5, 1, 0; (7331), 10, 2, 4; (7337), 10, 2, 4; (7342), 4, 1, 0; (7344), 13, 3, 3; (7349), 5, 1, 0; (7353), 8, 2, 1; (7357), 5, 1, 0; (7362), 4, 1, 0; (7363), 5, 1, 0; (7368), 8, 2, 8; (7382), 15, 3, 9; (7395), 5, 1, 0; (7396), 5, 1, 0; (7400), 9, 2, 5; (7421), 9, 2, 5; (7433), 10, 2, 4; (7439), 3, 1, 0; (7443), 5, 1, 0; (7451), 4, 1, 0; (7455), 15, 3, 11; (7459), 2, 1, 0; (7471), 15, 3, 11; (7478), 5, 1, 0; (7485), 4, 1, 0; (7487), 10, 2, 8; (7488), 5, 1, 0; (7497), 5, 1, 0; (7509), 5, 1, 0; (7513), 4, 1, 0; (7515), 5, 1, 0; (7516), 10, 2, 4; (7525), 2, 1, 0; (7527), 4, 1, 0; (7531), 5, 1, 0; (7542), 10, 2, 4; (7543), 4, 1, 0; (7560), 5, 1, 0; (7570), 5, 1, 0; (7571), 35, 6, 9; (7575), 5, 1, 0; (7576), 3, 1, 0; (7579), 10, 2, 5; (7585), 5, 1, 0; (7589), 5, 1, 0; (7590), 5, 1, 0; (7594), 3, 1, 0; (7600), 5, 1, 0; (7602), 4, 1, 0; (7608), 3, 1, 0; (7611), 4, 1, 0; (7629), 4, 1, 0; (7632), 3, 1, 0; (7637), 5, 1, 0; (7642), 14, 3, 7; (7643), 14, 3, 12; (7648), 5, 1, 0; (7653), 20, 4, 15; (7654), 11, 3, 6; (7655), 9, 2, 4; (7657), 4, 1, 0; (7658), 4, 1, 0; (7667), 5, 1, 0; (7671), 18, 4, 11; (7672), 10, 2, 4; (7673), 5, 1, 0; (7676), 5, 1, 0; (7677), 10, 2, 5; (7679), 5, 1, 0; (7683), 3, 1, 0; (7685), 4, 1, 0; (7686), 3, 1, 0; (7687), 3, 1, 0; (7688), 23, 4, 13; (7689), 5, 1, 0; (7691), 5, 1, 0; (7695), 4, 1, 0; (7697), 5, 1, 0; (7699), 5, 1, 0; (7700), 8, 2, 4; (7702), 10, 2, 5; (7705), 5, 1, 0; (7706), 3, 1, 0; (7709), 3, 1, 0; (7714), 14, 3, 3; (7715), 15, 3, 9; (7716), 15, 3, 2; (7724), 10, 2, 12; (7725), 3, 1, 0; (7726), 20, 4, 11; (7729), 9, 2, 12; (7730), 5, 1, 0; (7732), 15, 3, 9; (7733), 3, 1, 0; (7735), 5, 1, 0; (7736), 4, 1, 0; (7738), 14, 3, 12; (7740), 23, 5, 13; (7741), 20, 4, 11; (7742), 4, 1, 0; (7743), 5, 1, 0; (7747), 10, 2, 5; (7749), 4, 1, 0; (7752), 5, 1, 0; (7756), 4, 1, 0; (7759), 24, 3, 3; (7760), 12, 3, 11; (7761), 4, 1, 0; (7764), 10, 2, 12; (7765), 5, 1, 0; (7768), 7, 2, 1; (7769), 4, 1, 0; (7771), 5, 1, 0; (7774), 4, 1, 0; (7776), 5, 1, 0; (7777), 5, 1, 0; (7779), 5, 1, 0; (7780), 3, 1, 0; (7781), 4, 1, 0; (7785), 5, 1, 0; (7786), 12, 3, 8; (7787), 4, 1, 0; (7788), 3, 1, 0; (7791), 4, 1, 0; (7792), 10, 2, 8; (7794), 12, 3, 8; (7796), 5, 1, 0; (7798), 10, 2, 12; (7801), 15, 3, 11; (7804), 5, 1, 0; (7805), 4, 1, 0; (7808), 5, 1, 0; (7809), 5, 1, 0; (7811), 5, 1, 0; (7813), 5, 1, 0; (7814), 5, 1, 0; (7817), 20, 4, 11; (7820), 5, 1, 0; (7824), 14, 3, 11; (7825), 10, 2, 4; (7826), 15, 3, 5; (7827), 3, 1, 0; (7830), 5, 1, 0; (7831), 5, 1, 0; (7832), 3, 1, 0; (7833), 15, 3, 3; (7836), 3, 1, 0; (7838), 10, 2, 3; (7848), 15, 3, 5; (7849), 3, 1, 0; (7851), 4, 1, 0; (7852), 5, 1, 0; (7856), 15, 3, 12; (7861), 9, 2, 3; (7862), 14, 3, 10; (7863), 30, 6, 11; (7868), 22, 3, 3; (7873), 5, 1, 0; (7875), 5, 1, 0; (7878), 5, 1, 0; (7880), 16, 4, 12; (7881), 13, 3, 11; (7885), 19, 4, 14; (7894), 5, 1, 0; (7895), 5, 1, 0; (7897), 19, 4, 11; (7898), 5, 1, 0; (7899), 5, 1, 0; (7901), 25, 5, 11; (7902), 14, 3, 5; (7904), 5, 1, 0; (7906), 8, 2, 5; (7907), 8, 2, 3; (7909), 4, 1, 0; (7911), 10, 2, 5; (7912), 14, 3, 2; (7913), 20, 4, 11; (7914), 5, 1, 0; (7918), 19, 4, 11; (7919), 15, 3, 8; (7923), 5, 1, 0; (7924), 9, 2, 4; (7925), 20, 4, 11; (7926), 14, 3, 11; (7928), 15, 3, 4; (7938), 5, 1, 0; (7941), 5, 1, 0; (7943), 10, 2, 4; (7944), 15, 3, 5; (7946), 5, 1, 0; (7949), 5, 1, 0; (7950), 3, 1, 0; (7951), 14, 3, 3; (7953), 22, 4, 11; (7954), 15, 3, 4; (7956), 15, 3, 13; (7964), 5, 1, 0; (7969), 9, 2, 2; (7970), 20, 4, 11; (7972), 19, 4, 11; (7973), 15, 3, 3; (7975), 15, 3, 2; (7979), 5, 1, 0; (7984), 7, 2, 4; (7991), 17, 4, 11; (7992), 4, 1, 0; (7993), 5, 1, 0; (8000), 24, 5, 12; (8001), 10, 2, 3; (8005), 4, 1, 0; (8006), 10, 2, 2; (8010), 10, 2, 4; (8018), 9, 2, 4; (8025), 13, 3, 2; (8027), 5, 1, 0; (8028), 5, 1, 0; (8029), 20, 3, 3; (8030), 15, 3, 10; (8036), 10, 2, 7; (8048), 4, 1, 0; (8049), 5, 1, 0; (8052), 10, 2, 4; (8055), 5, 1, 0; (8057), 14, 3, 3; (8061), 27, 6, 12; (8064), 16, 4, 15; (8066), 3, 1, 0; (8074), 10, 2, 4; (8076), 15, 3, 3; (8080), 3, 1, 0; (8083), 4, 1, 0; (8084), 15, 3, 3; (8085), 5, 1, 0; (8090), 5, 1, 0; (8095), 35, 7, 11; (8100), 5, 1, 0; (8103), 5, 1, 0; (8104), 10, 2, 4; (8110), 5, 1, 0; (8111), 8, 2, 3; (8130), 10, 2, 5; (8136), 10, 2, 1; (8150), 15, 3, 13; (8158), 14, 3, 11; (8169), 8, 2, 5; (8171), 4, 1, 0; (8174), 5, 1, 0; (8188), 5, 1, 0; (8203), 15, 3, 3; (8209), 5, 1, 0; (8219), 3, 1, 0; (8225), 5, 1, 0; (8234), 4, 1, 0; (8247), 3, 1, 0; (8250), 18, 4, 11; (8280), 8, 2, 1; (8294), 5, 1, 0; (8384), 5, 1, 0; (8424), 5, 1, 0; (8425), 5, 1, 0; (8427), 5, 1, 0; (8604), 5, 1, 0; (8674), 13, 3, 6; (8714), 3, 1, 0; (8805), 5, 1, 0; (8825), 4, 1, 0; (8843), 4, 1, 0; (8895), 5, 1, 0; (8930), 5, 1, 0; (8935), 5, 1, 0; (8936), 5, 1, 0; (8937), 8, 2, 4; (8972), 3, 1, 0; (8982), 5, 1, 0; (8989), 4, 1, 0; (8992), 4, 1, 0; (8993), 5, 1, 0; (8994), 5, 1, 0; (8999), 5, 1, 0; (9001), 8, 2, 4; (9007), 5, 1, 0; (9009), 7, 2, 5; (9011), 5, 1, 0; (9018), 4, 1, 0; (9021), 3, 1, 0; (9031), 5, 1, 0; (9037), 4, 1, 0; (9038), 4, 1, 0; (9042), 5, 1, 0; (9044), 4, 1, 0; (9045), 5, 1, 0; (9050), 5, 1, 0; (9064), 5, 1, 0; (9065), 5, 1, 0; (9069), 5, 1, 0; (9083), 3, 1, 0; (9084), 5, 1, 0; (9095), 15, 3, 5; (9103), 4, 1, 0; (9111), 5, 1, 0; (9116), 5, 1, 0; (9128), 3, 1, 0; (9130), 4, 1, 0; (9143), 15, 3, 11; (9144), 5, 1, 0; (9147), 9, 1, 0; (9148), 5, 1, 0; (9149), 5, 1, 0; (9150), 5, 1, 0; (9153), 3, 1, 0; (9154), 15, 3, 12; (9155), 3, 1, 0; (9156), 15, 3, 11; (9158), 5, 1, 0; (9159), 5, 1, 0; (9160), 15, 3, 11; (9161), 5, 1, 0; (9165), 8, 2, 11; (9170), 19, 4, 11; (9176), 5, 1, 0; (9177), 9, 2, 5; (9179), 5, 1,

1, 0; (9245), 3, 1, 0; (9246), 4, 1, 0; (9248), 5, 1, 0; (9254), 7, 2, 8; (9255), 4, 1, 0; (9258), 4, 1, 0; (9260), 5, 1, 0; (9261), 15, 3, 2; (9262), 9, 2, 8; (9266), 3, 1, 0; (9268), 5, 1, 0; (9269), 5, 1, 0; (9276), 5, 1, 0; (9277), 10, 2, 7; (9279), 5, 1, 0; (9280), 19, 3, 11; (9281), 17, 4, 11; (9282), 3, 1, 0; (9283), 25, 5, 8; (9285), 4, 1, 0; (9286), 14, 3, 11; (9288), 14, 3, 5; (9291), 5, 1, 0; (9292), 14, 3, 12; (9295), 15, 3, 6; (9296), 4, 1, 0; (9298), 3, 1, 0; (9300), 15, 3, 8; (9302), 20, 4, 11; (9303), 4, 1, 0; (9307), 15, 3, 11; (9309), 5, 1, 0; (9311), 3, 1, 0; (9314), 5, 1, 0; (9318), 5, 1, 0; (9320), 8, 2, 5; (9323), 15, 3, 12; (9325), 5, 1, 0; (9333), 5, 1, 0; (9335), 4, 1, 0; (9337), 5, 1, 0; (9342), 19, 4, 11; (9344), 3, 1, 0; (9348), 10, 2, 7; (9349), 4, 1, 0; (9350), 34, 7, 11; (9353), 5, 1, 0; (9359), 4, 1, 0; (9363), 5, 1, 0; (9367), 8, 2, 12; (9368), 5, 1, 0; (9369), 15, 3, 11; (9370), 4, 1, 0; (9371), 5, 1, 0; (9374), 15, 3, 2; (9392), 20, 4, 11; (9406), 5, 1, 0; (9407), 10, 2, 4; (9409), 5, 1, 0; (9411), 5, 1, 0; (9415), 13, 3, 3; (9417), 10, 2, 5; (9418), 4, 1, 0; (9419), 3, 1, 0; (9420), 13, 3, 12; (9421), 15, 3, 12; (9422), 20, 4, 11; (9423), 5, 1, 0; (9424), 5, 1, 0; (9425), 5, 1, 0; (9427), 5, 1, 0; (9428), 5, 1, 0; (9429), 3, 1, 0; (9433), 5, 1, 0; (9435), 5, 1, 0; (9438), 3, 1, 0; (9440), 4, 1, 0; (9443), 14, 3, 12; (9445), 16, 3, 11; (9448), 5, 1, 0; (9449), 8, 2, 4; (9466), 5, 1, 0; (9474), 4, 1, 0; (9480), 5, 1, 0; (9481), 14, 3, 13; (9483), 5, 1, 0; (9485), 4, 1, 0; (9486), 5, 1, 0; (9487), 3, 1, 0; (9492), 5, 1, 0; (9493), 4, 1, 0; (9494), 14, 3, 13; (9495), 5, 1, 0; (9496), 3, 1, 0; (9497), 4, 1, 0; (9500), 10, 2, 5; (9508), 5, 1, 0; (9512), 4, 1, 0; (9513), 25, 4, 8; (9514), 5, 1, 0; (9515), 10, 2, 11; (9517), 28, 5, 12; (9518), 13, 3, 12; (9520), 6, 2, 6; (9523), 20, 4, 11; (9525), 20, 4, 11; (9527), 10, 2, 2; (9531), 14, 3, 2; (9532), 3, 1, 0; (9533), 14, 3, 12; (9535), 5, 1, 0; (9537), 24, 5, 15; (9538), 18, 4, 15; (9539), 17, 3, 2; (9540), 5, 1, 0; (9542), 10, 2, 7; (9543), 5, 1, 0; (9544), 5, 1, 0; (9546), 5, 1, 0; (9547), 13, 3, 11; (9549), 10, 2, 4; (9550), 4, 1, 0; (9552), 5, 1, 0; (9553), 5, 1, 0; (9558), 5, 1, 0; (9559), 5, 1, 0; (9563), 13, 3, 11; (9564), 4, 1, 0; (9565), 13, 2, 5; (9566), 3, 1, 0; (9567), 12, 3, 3; (9568), 8, 2, 5; (9569), 5, 1, 0; (9571), 8, 2, 6; (9572), 14, 3, 4; (9573), 5, 1, 0; (9574), 9, 2, 4; (9576), 3, 1, 0; (9578), 15, 3, 11; (9579), 10, 2, 4; (9580), 13, 3, 11; (9581), 8, 2, 5; (9584), 7, 2, 5; (9585), 15, 3, 11; (9586), 4, 1, 0; (9589), 15, 3, 11; (9592), 25, 5, 11; (9593), 8, 2, 12; (9594), 13, 3, 12; (9595), 4, 1, 0; (9596), 48, 9, 13; (9597), 10, 2, 5; (9598), 13, 3, 13; (9599), 5, 1, 0; (9601), 15, 2, 7; (9602), 13, 3, 11; (9603), 14, 3, 3; (9604), 13, 3, 8; (9606), 5, 1, 0; (9610), 7, 2, 1; (9612), 5, 1, 0; (9613), 5, 1, 0; (9614), 25, 5, 11; (9615), 17, 4, 11; (9616), 9, 2, 4; (9618), 14, 3, 8; (9619), 10, 2, 7; (9623), 5, 1, 0; (9624), 14, 3, 5; (9626), 5, 1, 0; (9627), 5, 1, 0; (9628), 5, 1, 0; (9629), 15, 3, 11; (9631), 15, 3, 5; (9633), 3, 1, 0; (9635), 5, 1, 0; (9637), 5, 1, 0; (9639), 10, 2, 11; (9642), 8, 2, 5; (9643), 5, 1, 0; (9644), 5, 1, 0; (9645), 15, 3, 6; (9646), 8, 2, 1; (9647), 9, 2, 4; (9649), 4, 1, 0; (9650), 5, 1, 0; (9652), 10, 2, 13; (9653), 5, 1, 0; (9654), 5, 1, 0; (9655), 5, 1, 0; (9659), 5, 1, 0; (9660), 4, 1, 0; (9662), 4, 1, 0; (9663), 11, 3, 11; (9665), 5, 1, 0; (9666), 3, 1, 0; (9667), 19, 4, 8; (9668), 4, 1, 0; (9669), 20, 3, 5; (9670), 5, 1, 0; (9672), 10, 2, 2; (9674), 5, 1, 0; (9679), 5, 1, 0; (9682), 5, 1, 0; (9684), 14, 3, 2; (9685), 20, 4, 11; (9686), 16, 4, 12; (9688), 30, 5, 12; (9689), 15, 3, 8; (9690), 14, 3, 2; (9692), 4, 1, 0; (9693), 10, 2, 7; (9695), 15, 3, 3; (9696), 3, 1, 0; (9698), 10, 2, 7; (9700), 19, 4, 11; (9702), 10, 2, 11; (9703), 5, 1, 0; (9704), 5, 1, 0; (9707), 10, 2, 7; (9708), 25, 5, 13; (9715), 4, 1, 0; (9716), 14, 3, 11; (9719), 20, 4, 13; (9720), 13, 3, 11; (9721), 2, 1, 0; (9723), 5, 1, 0; (9725), 10, 2, 5; (9727), 5, 1, 0; (9728), 5, 1, 0; (9729), 9, 2, 5; (9731), 8, 2, 5; (9734), 10, 2, 5; (9735), 10, 2, 8; (9737), 4, 1, 0; (9738), 17, 4, 11; (9740), 14, 2, 4; (9742), 19, 4, 6; (9745), 19, 4, 11; (9746), 5, 1, 0; (9747), 9, 2, 8; (9748), 10, 2, 5; (9749), 14, 3, 11; (9753), 24, 4, 11; (9754), 9, 2, 4; (9755), 10, 2, 5; (9756), 20, 4, 11; (9757), 5, 1, 0; (9758), 9, 2, 4; (9759), 4, 1, 0; (9760), 14, 3, 11; (9761), 9, 2, 4; (9763), 15, 3, 3; (9770), 4, 1, 0; (9774), 10, 2, 1; (9775), 15, 3, 5; (9776), 20, 4, 7; (9778), 18, 4, 11; (9779), 5, 1, 0; (9781), 11, 3, 5; (9783), 9, 2, 3; (9784), 10, 2, 5; (9785), 10, 2, 6; (9787), 10, 2, 8; (9788), 5, 1, 0; (9789), 9, 2, 5; (9791), 20, 4, 7; (9792), 9, 2, 1; (9794), 9, 2, 4; (9795), 15, 3, 5; (9796), 15, 3, 7; (9798), 9, 2, 8; (9800), 5, 1, 0; (9802), 4, 1, 0; (9804), 5, 1, 0; (9805), 5, 1, 0; (9806), 5, 1, 0; (9808), 5, 1, 0; (9810), 30, 6, 13; (9811), 19, 4, 11; (9815), 15, 3, 11; (9819), 12, 3, 6; (9821), 10, 2, 2; (9822), 15, 2, 7; (9823), 3, 1, 0; (9824), 19, 4, 13; (9825), 25, 4, 8; (9827), 4, 1, 0; (9831), 18, 4, 11; (9834), 10, 2, 5; (9835), 4, 1, 0; (9836), 15, 3, 2; (9837), 8, 2, 12; (9838), 20, 4, 12; (9839), 11, 3, 12; (9840), 18, 4, 14; (9846), 20, 4, 12; (9849), 20, 4, 11; (9851), 10, 2, 12; (9852), 5, 1, 0; (9853), 20, 4, 6; (9854), 5, 1, 0; (9855), 6, 2, 8; (9858), 24, 5, 12; (9860), 15, 3, 6; (9863), 5, 1, 0; (9864), 14, 3, 7; (9865), 3, 1, 0; (9876), 3, 1, 0; (9877), 15, 3, 12; (9878), 3, 1, 0; (9882), 4, 1, 0; (9885), 5, 1, 0; (9887), 5, 1, 0; (9889), 3, 1, 0; (9890), 30, 6, 11; (9893), 5, 1, 0; (9894), 5, 1, 0; (9895), 10, 1, 0; (9898), 4, 1, 0; (9899), 4, 1, 0; (9904), 4, 1, 0; (9906), 4, 1, 0; (9908), 3, 1, 0; (9910), 20, 4, 7; (9912), 20, 4, 11; (9914), 4, 1, 0; (9915), 13, 3, 3; (9916), 15, 3, 2; (9917), 15, 3, 8; (9923), 13, 3, 3; (9927), 8, 2, 4; (9932), 14, 3, 11; (9934), 8, 2, 8; (9936), 5, 1, 0; (9938), 5, 1, 0; (9944), 5, 1, 0; (9948), 15, 3, 8; (9952), 43, 6, 15; (9954), 4, 1, 0; (9955), 20, 4, 11; (9957), 3, 1, 0; (9963), 9, 2, 11; (9964), 14, 3, 11; (9967), 9, 2, 8; (9968), 7, 2, 4; (9970), 5, 1, 0; (9976), 8, 2, 12; (9977), 13, 3, 11; (9978), 5, 1, 0; (9983), 4, 1, 0; (9990), 9, 2, 4; (9991), 5, 1, 0; (9996), 4, 1, 0; (9999), 9, 2, 4; (10001), 3, 1, 0; (10004), 10, 2, 8; (10005), 3, 1, 0; (10006), 5, 1, 0; (10007), 5, 1, 0; (10008), 14, 3, 3; (10010), 14, 3, 11; (10020), 10, 2, 4; (10023), 5, 1, 0; (10025), 15, 3, 2; (10029), 8, 2, 1; (10030), 20, 4, 11; (10031), 5, 1, 0; (10032), 5, 1, 0; (10039), 9, 2, 4; (10043), 5, 1, 0; (10044), 5, 1, 0; (10046), 10, 2, 7; (10049), 5, 1, 0; (10050), 4, 1, 0; (10052), 15, 3, 2; (10053), 9, 2, 1; (10061), 5, 1, 0; (10063), 24, 5, 11; (10065), 7, 2, 4; (10068), 5, 1, 0; (10069), 5, 1, 0; (10076), 3, 1, 0; (10078), 18, 4, 15; (10079), 4, 1, 0; (10080), 8, 2, 8; (10082), 5, 1, 0; (10086), 19, 4, 11; (10095), 10, 2, 4; (10096), 5, 1, 0; (10098), 4, 1, 0; (10100), 10, 2, 1; (10109), 10, 2, 11; (10112), 5, 1, 0; (10116), 29, 5, 11; (10117), 10, 2, 3; (10118), 5, 1, 0; (10120), 3, 1, 0; (10123), 3, 1, 0; (10124), 4, 1, 0; (10132), 4, 1, 0; (10141), 8, 2, 8; (10142), 8, 2, 6;

(10144), 10, 1, 0; (10147), 5, 1, 0; (10148), 4, 1, 0; (10152), 25, 5, 11; (10153), 25, 5, 11; (10158), 5, 1, 0; (10164), 5, 1, 0; (10168), 10, 2, 12; (10169), 12, 3, 12; (10179), 30, 6, 13; (10185), 5, 1, 0; (10189), 4, 1, 0; (10193), 12, 3, 11; (10201), 4, 1, 0; (10202), 9, 2, 4; (10204), 4, 1, 0; (10206), 5, 1, 0; (10211), 10, 2, 1; (10217), 3, 1, 0; (10223), 10, 2, 2; (10228), 4, 1, 0; (10232), 15, 3, 11; (10235), 8, 2, 1; (10236), 5, 1, 0; (10237), 20, 4, 11; (10238), 8, 2, 5; (10239), 4, 1, 0; (10240), 42, 8, 11; (10241), 13, 3, 3; (10245), 12, 3, 2; (10247), 20, 4, 11; (10252), 9, 2, 1; (10257), 4, 1, 0; (10263), 9, 2, 4; (10278), 5, 1, 0; (10314), 5, 1, 0; (10355), 5, 1, 0; (10376), 10, 2, 7; (10379), 10, 2, 5; (10381), 4, 1, 0; (10393), 10, 2, 8; (10406), 3, 1, 0; (10410), 4, 1, 0; (10415), 5, 1, 0; (10417), 13, 3, 5; (10451), 3, 1, 0; (10492), 4, 1, 0; (10500), 5, 1, 0; (10514), 2, 1, 0; (10561), 15, 3, 12; (10573), 14, 3, 4; (10612), 4, 1, 0; (10638), 4, 1, 0; (10649), 8, 2, 5; (10749), 10, 2, 7; (10753), 10, 2, 4; (10937), 5, 1, 0; (10938), 5, 1, 0; (11053), 5, 1, 0; (11062), 4, 1, 0; (11147), 5, 1, 0; (11189), 15, 3, 12; (11190), 14, 3, 5; (11200), 5, 1, 0; (11252), 5, 1, 0; (11254), 5, 1, 0; (11261), 10, 2, 2; (11289), 5, 1, 0; (11291), 9, 2, 7; (11292), 4, 1, 0; (11293), 15, 3, 12; (11298), 3, 1, 0; (11305), 5, 1, 0; (11309), 5, 1, 0; (11315), 17, 4, 11; (11320), 3, 1, 0; (11321), 20, 4, 9; (11332), 15, 3, 2; (11350), 14, 3, 3; (11351), 4, 1, 0; (11356), 4, 1, 0; (11369), 2, 1, 0; (11372), 3, 1, 0; (11373), 10, 2, 6; (11375), 5, 1, 0; (11377), 5, 1, 0; (11378), 17, 4, 11; (11380), 10, 2, 5; (11382), 19, 4, 11; (11383), 30, 6, 13; (11384), 12, 3, 4; (11386), 11, 3, 12; (11388), 3, 1, 0; (11389), 10, 2, 7; (11391), 5, 1, 0; (11393), 9, 2, 4; (11394), 18, 4, 8; (11397), 4, 1, 0; (11619), 5, 1, 0; (11650), 9, 2, 5; (11736), 5, 1, 0; (11738), 5, 1, 0; (11739), 5, 1, 0; (11759), 7, 2, 1; (11780), 5, 1, 0; (11808), 4, 1, 0; (11836), 13, 3, 3; (11849), 5, 1, 0; (11904), 4, 1, 0; (11918), 4, 1, 0; (11920), 4, 1, 0; (11939), 5, 1, 0; (11949), 15, 3, 12; (11977), 5, 1, 0; (12004), 25, 5, 6; (12030), 9, 2, 4; (12107), 4, 1, 0; (12163), 4, 1, 0; (12181), 4, 1, 0; (12190), 4, 1, 0; (12191), 5, 1, 0; (12197), 5, 1, 0; (12198), 5, 1, 0; (12207), 3, 1, 0; (12215), 5, 1, 0; (12220), 5, 1, 0; (12222), 5, 1, 0; (12225), 3, 1, 0; (12227), 5, 1, 0; (12229), 6, 2, 2; (12231), 5, 1, 0; (12234), 5, 1, 0; (12239), 5, 1, 0; (12246), 5, 1, 0; (12248), 4, 1, 0; (12249), 5, 1, 0; (12251), 5, 1, 0; (12255), 5, 1, 0; (12256), 5, 1, 0; (12262), 5, 1, 0; (12263), 5, 1, 0; (12264), 5, 1, 0; (12265), 3, 1, 0; (12274), 5, 1, 0; (12276), 4, 1, 0; (12278), 5, 1, 0; (12281), 4, 1, 0; (12282), 10, 2, 5; (12295), 4, 1, 0; (12301), 5, 1, 0; (12310), 5, 1, 0; (12315), 5, 1, 0; (12332), 5, 1, 0; (12334), 2, 1, 0; (12335), 5, 1, 0; (12336), 5, 1, 0; (12341), 4, 1, 0; (12344), 4, 1, 0; (12345), 5, 1, 0; (12346), 5, 1, 0; (12351), 8, 2, 3; (12359), 5, 1, 0; (12372), 5, 1, 0; (12375), 5, 1, 0; (12387), 5, 1, 0; (12393), 4, 1, 0; (12395), 4, 1, 0; (12396), 2, 1, 0; (12397), 4, 1, 0; (12402), 3, 1, 0; (12403), 5, 1, 0; (12411), 4, 1, 0; (12415), 3, 1, 0; (12428), 5, 1, 0; (12430), 4, 1, 0; (12433), 5, 1, 0; (12438), 4, 1, 0; (12470), 5, 1, 0; (12473), 4, 1, 0; (12474), 5, 1, 0; (12478), 4, 1, 0; (12491), 5, 1, 0; (12505), 8, 2, 4; (12518), 5, 1, 0; (12520), 4, 1, 0; (12535), 5, 1, 0; (12536), 5, 1, 0; (12540), 4, 1, 0; (12543), 4, 1, 0; (12548), 20, 3, 5; (12553), 5, 1, 0; (12555), 5, 1, 0; (12556), 5, 1, 0; (12557), 5, 1, 0; (12558), 5, 1, 0; (12561), 5, 1, 0; (12563), 5, 1, 0; (12565), 3, 1, 0; (12568), 1, 1, 0; (12569), 5, 1, 0; (12582), 3, 1, 0; (12610), 5, 1, 0; (12611), 3, 1, 0; (12642), 5, 1, 0; (12644), 2, 1, 0; (12651), 5, 1, 0; (12655), 5, 1, 0; (12656), 4, 1, 0; (12657), 14, 3, 11; (12660), 4, 1, 0; (12663), 4, 1, 0; (12669), 9, 2, 4; (12672), 4, 1, 0; (12673), 9, 2, 4; (12679), 4, 1, 0; (12680), 5, 1, 0; (12686), 4, 1, 0; (12690), 4, 1, 0; (12694), 3, 1, 0; (12696), 20, 4, 11; (12697), 9, 2, 4; (12698), 19, 4, 11; (12702), 5, 1, 0; (12704), 10, 1, 0; (12705), 27, 6, 12; (12706), 5, 1, 0; (12707), 5, 1, 0; (12709), 3, 1, 0; (12710), 5, 1, 0; (12711), 5, 1, 0; (12716), 5, 1, 0; (12725), 5, 1, 0; (12726), 4, 1, 0; (12727), 26, 5, 12; (12729), 4, 1, 0; (12732), 4, 1, 0; (12734), 10, 2, 12; (12737), 5, 1, 0; (12738), 5, 1, 0; (12740), 5, 1, 0; (12745), 5, 1, 0; (12746), 5, 1, 0; (12747), 3, 1, 0; (12748), 4, 1, 0; (12749), 5, 1, 0; (12751), 5, 1, 0; (12754), 5, 1, 0; (12756), 23, 5, 13; (12758), 4, 1, 0; (12760), 8, 2, 4; (12767), 18, 4, 5; (12769), 10, 2, 4; (12777), 5, 1, 0; (12779), 20, 4, 13; (12781), 20, 4, 11; (12782), 5, 1, 0; (12800), 5, 1, 0; (12801), 4, 1, 0; (12806), 15, 3, 7; (12807), 3, 1, 0; (12808), 5, 1, 0; (12809), 5, 1, 0; (12812), 15, 3, 3; (12814), 10, 2, 2; (12818), 14, 3, 13; (12820), 10, 2, 5; (12823), 4, 1, 0; (12827), 5, 1, 0; (12828), 5, 1, 0; (12829), 5, 1, 0; (12831), 4, 1, 0; (12842), 4, 1, 0; (12848), 5, 1, 0; (12849), 24, 5, 11; (12868), 4, 1, 0; (12871), 20, 4, 12; (12875), 5, 1, 0; (12876), 5, 1, 0; (12877), 5, 1, 0; (12884), 5, 1, 0; (12893), 10, 2, 5; (12894), 5, 1, 0; (12895), 8, 2, 5; (12897), 13, 3, 5; (12898), 4, 1, 0; (12899), 5, 1, 0; (12901), 4, 1, 0; (12904), 4, 1, 0; (12906), 5, 1, 0; (12907), 4, 1, 0; (12908), 3, 1, 0; (12909), 5, 1, 0; (12910), 5, 1, 0; (12911), 4, 1, 0; (12915), 4, 1, 0; (12917), 5, 1, 0; (12919), 5, 1, 0; (12936), 5, 1, 0; (12944), 3, 1, 0; (12946), 9, 2, 4; (12950), 3, 1, 0; (12951), 5, 1, 0; (12954), 3, 1, 0; (12962), 4, 1, 0; (12963), 5, 1, 0; (12975), 15, 3, 5; (12978), 4, 1, 0; (12983), 19, 4, 13; (12987), 9, 2, 4; (12988), 5, 1, 0; (12999), 15, 3, 5; (13004), 3, 1, 0; (13006), 10, 2, 4; (13007), 5, 1, 0; (13009), 10, 2, 7; (13010), 9, 2, 5; (13012), 10, 2, 5; (13013), 3, 1, 0; (13016), 5, 1, 0; (13018), 5, 1, 0; (13019), 9, 2, 1; (13022), 19, 4, 15; (13023), 3, 1, 0; (13025), 4, 1, 0; (13028), 9, 2, 8; (13031), 5, 1, 0; (13032), 5, 1, 0; (13033), 15, 3, 5; (13037), 5, 1, 0; (13038), 25, 5, 11; (13039), 5, 1, 0; (13040), 5, 1, 0; (13043), 5, 1, 0; (13047), 5, 1, 0; (13049), 4, 1, 0; (13053), 17, 3, 6; (13054), 10, 2, 4; (13055), 5, 1, 0; (13056), 5, 1, 0; (13061), 5, 1, 0; (13063), 5, 1, 0; (13065), 5, 1, 0; (13068), 5, 1, 0; (13069), 10, 2, 7; (13072), 15, 3, 7; (13073), 14, 3, 13; (13074), 10, 2, 5; (13075), 15, 3, 5; (13081), 5, 1, 0; (13084), 20, 4, 12; (13087), 20, 4, 11; (13088), 9, 2, 4; (13089), 5, 1, 0; (13090), 5, 1, 0; (13093), 10, 2, 5; (13096), 20, 4, 11; (13098), 5, 1, 0; (13099), 5, 1, 0; (13106), 3, 1, 0; (13109), 10, 2, 5

2000 MAR. 20

M.P.C. 39017

(13173), 5, 1, 0; (13174), 5, 1, 0; (13177), 9, 2, 5; (13180), 5, 1, 0; (13186), 4, 1, 0; (13188), 5, 1, 0; (13190), 3, 1, 0; (13191), 5, 1, 0; (13195), 5, 1, 0; (13196), 5, 1, 0; (13197), 4, 1, 0; (13205), 4, 1, 0; (13207), 15, 3, 5; (13208), 4, 1, 0; (13209), 2, 1, 0; (13213), 15, 3, 12; (13215), 3, 1, 0; (13216), 5, 1, 0; (13217), 17, 4, 11; (13218), 3, 1, 0; (13219), 5, 1, 0; (13220), 5, 1, 0; (13221), 10, 2, 4; (13222), 10, 2, 5; (13224), 5, 1, 0; (13225), 20, 4, 9; (13227), 5, 1, 0; (13228), 5, 1, 0; (13230), 8, 2, 5; (13236), 5, 1, 0; (13243), 4, 1, 0; (13244), 5, 1, 0; (13249), 5, 1, 0; (13253), 3, 1, 0; (13255), 10, 2, 12; (13256), 5, 1, 0; (13257), 5, 1, 0; (13260), 3, 1, 0; (13262), 4, 1, 0; (13263), 5, 1, 0; (13265), 19, 4, 12; (13269), 3, 1, 0; (13273), 5, 1, 0; (13275), 24, 5, 11; (13276), 3, 1, 0; (13282), 5, 1, 0; (13286), 5, 1, 0; (13288), 5, 1, 0; (13289), 4, 1, 0; (13290), 4, 1, 0; (13293), 5, 1, 0; (13294), 4, 1, 0; (13295), 7, 2, 11; (13299), 5, 1, 0; (13302), 9, 2, 7; (13303), 16, 4, 11; (13306), 2, 1, 0; (13312), 5, 1, 0; (13315), 14, 3, 12; (13316), 10, 2, 7; (13320), 10, 2, 6; (13323), 5, 1, 0; (13325), 15, 3, 12; (13329), 4, 1, 0; (13331), 5, 1, 0; (13333), 9, 2, 4; (13335), 10, 2, 5; (13338), 9, 2, 8; (13341), 5, 1, 0; (13343), 4, 1, 0; (13345), 4, 1, 0; (13349), 3, 1, 0; (13350), 5, 1, 0; (13351), 10, 2, 5; (13352), 10, 2, 11; (13354), 9, 2, 4; (13356), 5, 1, 0; (13357), 10, 2, 5; (13358), 10, 2, 4; (13359), 5, 1, 0; (13360), 5, 1, 0; (13361), 15, 3, 12; (13365), 4, 1, 0; (13367), 3, 1, 0; (13368), 10, 2, 5; (13371), 9, 2, 1; (13373), 10, 2, 4; (13374), 39, 7, 12; (13376), 8, 2, 5; (13377), 8, 2, 6; (13378), 3, 1, 0; (13380), 14, 3, 11; (13382), 14, 3, 11; (13384), 10, 2, 8; (13386), 8, 2, 8; (13388), 5, 1, 0; (13389), 14, 3, 3; (13390), 3, 1, 0; (13417), 5, 1, 0; (13419), 8, 2, 5; (13420), 5, 1, 0; (13421), 4, 1, 0; (13427), 5, 1, 0; (13430), 4, 1, 0; (13436), 5, 1, 0; (13438), 4, 1, 0; (13441), 4, 1, 0; (13445), 4, 1, 0; (13446), 4, 1, 0; (13448), 14, 3, 11; (13452), 5, 1, 0; (13453), 15, 3, 11; (13454), 5, 1, 0; (13457), 5, 1, 0; (13459), 20, 3, 5; (13460), 1, 1, 0; (13468), 20, 4, 11; (13470), 3, 1, 0; (13471), 10, 2, 7; (13473), 4, 1, 0; (13474), 3, 1, 0; (13476), 22, 5, 11; (13477), 4, 1, 0; (13478), 5, 1, 0; (13479), 20, 3, 8; (13480), 14, 3, 5; (13482), 9, 2, 12; (13483), 25, 5, 6; (13486), 10, 2, 4; (13487), 6, 2, 7; (13488), 9, 2, 4; (13489), 5, 1, 0; (13491), 14, 3, 5; (13492), 4, 1, 0; (13494), 20, 3, 5; (13495), 8, 2, 12; (13497), 5, 1, 0; (13499), 15, 3, 5; (13501), 8, 2, 5; (13503), 25, 5, 6; (13504), 8, 2, 5; (13505), 5, 1, 0; (13506), 4, 1, 0; (13507), 13, 3, 13; (13508), 4, 1, 0; (13510), 10, 2, 9; (13512), 19, 4, 11; (13513), 7, 2, 5; (13514), 3, 1, 0; (13515), 5, 1, 0; (13516), 24, 5, 13; (13518), 3, 1, 0; (13519), 4, 1, 0; (13520), 10, 2, 3; (13521), 3, 1, 0; (13522), 5, 1, 0; (13525), 3, 1, 0; (13530), 5, 1, 0; (13532), 18, 4, 11; (13533), 10, 2, 1; (13534), 10, 2, 3; (13535), 10, 2, 5; (13536), 15, 3, 5; (13537), 25, 4, 12; (13538), 15, 2, 7; (13540), 19, 4, 15; (13541), 10, 2, 8; (13542), 10, 2, 7; (13543), 4, 1, 0; (13544), 10, 2, 5; (13545), 3, 1, 0; (13547), 4, 1, 0; (13549), 15, 3, 7; (13550), 4, 1, 0; (13551), 15, 3, 5; (13552), 5, 1, 0; (13554), 4, 1, 0; (13555), 14, 3, 4; (13556), 3, 1, 0; (13557), 15, 3, 8; (13558), 29, 6, 11; (13559), 15, 3, 12; (13560), 15, 3, 7; (13564), 3, 1, 0; (13565), 3, 1, 0; (13566), 5, 1, 0; (13567), 4, 1, 0; (13568), 10, 2, 5; (13570), 8, 2, 5; (13571), 25, 5, 11; (13572), 4, 1, 0; (13573), 15, 3, 12; (13575), 5, 1, 0; (13576), 10, 2, 7; (13577), 5, 1, 0; (13578), 7, 2, 5; (13579), 10, 2, 7; (13581), 5, 1, 0; (13582), 5, 1, 0; (13583), 10, 2, 7; (13585), 5, 1, 0; (13586), 4, 1, 0; (13588), 10, 2, 7; (13589), 10, 2, 11; (13590), 35, 6, 11; (13591), 5, 1, 0; (13593), 10, 2, 7; (13594), 4, 1, 0; (13596), 5, 1, 0; (13600), 4, 1, 0; (13601), 10, 2, 4; (13605), 18, 4, 11; (13606), 5, 1, 0; (13608), 10, 2, 7; (13609), 10, 2, 5; (13610), 10, 2, 3; (13611), 9, 2, 4; (13612), 5, 1, 0; (13613), 19, 4, 11; (13614), 3, 1, 0; (13615), 15, 3, 12; (13616), 20, 3, 6; (13617), 18, 4, 11; (13618), 4, 1, 0; (13619), 5, 1, 0; (13621), 15, 2, 3; (13622), 25, 5, 11; (13624), 8, 2, 5; (13625), 5, 1, 0; (13626), 5, 1, 0; (13627), 10, 2, 5; (13628), 4, 1, 0; (13629), 14, 3, 11; (13632), 15, 3, 12; (13633), 10, 2, 7; (13634), 7, 2, 7; (13636), 18, 4, 11; (13637), 19, 4, 11; (13638), 5, 1, 0; (13639), 15, 3, 11; (13640), 10, 2, 8; (13642), 10, 2, 5; (13644), 5, 1, 0; (13645), 4, 1, 0; (13646), 3, 1, 0; (13648), 3, 1, 0; (13649), 18, 4, 15; (13657), 4, 1, 0; (13658), 5, 1, 0; (13661), 5, 1, 0; (13662), 5, 1, 0; (13663), 9, 2, 4; (13664), 10, 2, 5; (13665), 24, 5, 11; (13667), 5, 1, 0; (13670), 8, 2, 12; (13674), 19, 4, 8; (13675), 8, 2, 4; (13677), 5, 1, 0; (13678), 5, 1, 0; (13679), 5, 1, 0; (13681), 10, 2, 5; (13682), 5, 1, 0; (13683), 5, 1, 0; (13684), 5, 1, 0; (13686), 14, 3, 11; (13687), 4, 1, 0; (13688), 9, 2, 5; (13690), 8, 2, 4; (13691), 5, 1, 0; (13692), 19, 4, 11; (13693), 20, 4, 11; (13698), 5, 1, 0; (13700), 5, 1, 0; (13701), 5, 1, 0; (13702), 5, 1, 0; (13703), 9, 2, 3; (13704), 4, 1, 0; (13705), 15, 3, 12; (13706), 5, 1, 0; (13709), 9, 2, 4; (13710), 15, 3, 11; (13711), 4, 1, 0; (13712), 10, 2, 3; (13713), 5, 1, 0; (13714), 9, 2, 4; (13716), 5, 1, 0; (13719), 13, 3, 4; (13721), 13, 3, 2; (13723), 5, 1, 0; (13725), 5, 1, 0; (13726), 3, 1, 0; (13727), 10, 2, 12; (13728), 25, 5, 11; (13729), 4, 1, 0; (13730), 7, 2, 7; (13732), 5, 1, 0; (13734), 5, 1, 0; (13737), 7, 2, 4; (13738), 5, 1, 0; (13740), 20, 4, 11; (13741), 39, 8, 11; (13743), 10, 2, 5; (13749), 10, 2, 5; (13751), 19, 4, 11; (13754), 5, 1, 0; (13756), 5, 1, 0; (13758), 5, 1, 0; (13759), 4, 1, 0; (13760), 5, 1, 0; (13761), 19, 4, 11; (13762), 5, 1, 0; (13764), 10, 2, 12; (13766), 5, 1, 0; (13767), 5, 1, 0; (13773), 17, 4, 11; (13774), 3, 1, 0; (13775), 5, 1, 0; (13776), 10, 2, 4; (13777), 3, 1, 0; (13778), 5, 1, 0; (13779), 9, 2, 4; (13781), 14, 3, 11; (13783), 5, 1, 0; (13784), 9, 2, 6; (13785), 14, 3, 5; (13786), 9, 2, 4; (13787), 15, 3, 7; (13789), 18, 4, 8; (13791), 18, 4, 11; (13792), 29, 5, 13; (13794), 10, 2, 3; (13797), 5, 1, 0; (13799), 15, 3, 11; (13800), 10, 2, 4; (13801), 10, 2, 7; (13802), 20, 4, 7; (13803), 25, 5, 9; (13804), 18, 4, 11; (13805), 13, 2, 5; (13806), 5, 1, 0; (13807), 9, 2, 5; (13808), 3, 1, 0; (13809), 5, 1, 0; (13810), 5, 1, 0; (13811), 10, 2, 4; (13812), 10, 2, 4; (13814), 8, 2, 7; (13815), 8, 2, 4; (13820), 5, 1, 0; (13823), 20, 4, 11; (13826), 5, 1, 0; (13827), 3, 1, 0; (13831), 3, 1, 0; (13832), 5, 1, 0; (13837), 5, 1, 0; (13839), 5, 1, 0; (13840), 15, 3, 5; (13842), 5, 1, 0; (13844), 5, 1, 0; (13846), 3, 1, 0; (13848), 5, 1, 0; (13849), 3, 1, 0; (13854), 5, 1, 0; (13856), 4, 1, 0; (13859), 5, 1, 0; (13860), 5, 1, 0; (13874), 8, 2, 5; (13877), 4, 1, 0; (13879), 19, 4, 12; (13882), 19, 4, 13; (13883), 10, 2, 5; (13884), 5, 1, 0; (13886), 15, 3, 9; (13888), 3, 1, 0; (13890), 4, 1, 0; (13897), 5, 1, 0; (13898), 14, 2, 1; (13900), 10, 2, 4; (13902), 10, 2, 5; [155143, 14561, 4769*, 1997/03/06–2000/03/18]

706 Salinas

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

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

GSC

2000 DP₃₄, 6, 2, 1; 2000 EZ₁₆, 4, 2, 1; 2000 EU₅₀ *, 4, 2, 1; (10199), 3, 2, 3; [17, 4, 1*, 2000/02/27–2000/03/12]

709 W & B Observatory, Cloudcroft

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

[offutt@galileo.apo.nmsu.edu]

0.60-m $f/7$ Ritchey-Chrétien + CCD

USNO-SA1.0

1998 BU₄₈, 6, 1, 0; [6, 1, 0*, 2000/03/12]

711 McDonald Observatory

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

[moon@astro.as.utexas.edu]

0.76-m $f/3.0$ reflector + CCD

GSC

1993 FV₅₀, 2, 1, 0; 1994 CN₂, 2, 2, 4; 1994 QC, 2, 1, 0; 1996 PF₁, 3, 1, 0; 1998 RF₇₄, 3, 1, 0; 1998 VO₁₈, 2, 1, 0; 1998 XM₅, 2, 1, 0; 1999 RC₃₂, 2, 1, 0; 1999 YB, 2, 1, 0; 1999 YD, 3, 2, 2; 1999 YN₄, 2, 1, 0; 1999 YR₁₄, 2, 1, 0; 2000 BG₁₉, 2, 1, 0; (1288), 2, 2, 2; (2548), 2, 1, 0; (2567), 2, 1, 0; (3914), 3, 1, 0; (4055), 2, 1, 0; (4259), 2, 1, 0; (4486), 3, 1, 0; (4487), 2, 2, 2; (5693), 2, 1, 0; (5952), 2, 1, 0; (6617), 2, 1, 0; (6878), 3, 1, 0; (7785), 2, 1, 0; (12553), 2, 1, 0; (12771), 2, 1, 0; (13651), 2, 1, 0; [64, 29, 0*, 2000/02/08–2000/02/12]

713 Thornton

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

[Bob.Koff@worldnet.att.net]

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

USNO-A2.0

2000 DL₁, 10, 2, 1; 2000 ES₇₀, 4, 1, 0; 2000 ET₇₀, 4, 1, 0; [18, 3, 0*, 2000/02/27–2000/03/13]

715 Las Cruces

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

[ddixon@lascruces.com]

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

USNO-A2.0

1998 YP₁₂, 3, 1, 0; 2000 DW₁₇ *, 16, 6, 14; 2000 ET *, 8, 3, 5; 2000 EX₂₆ *, 6, 2, 5; (3959), 3, 1, 0; (5902), 11, 4, 6; [47, 6, 3*, 2000/02/27–2000/03/12]

718 University of Utah Hansen Planetarium, Tooele

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

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

Observers P. Wiggins, H. Phaneuf

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

GSC

1982 KH₁, 6, 2, 2; 1994 VR₂, 6, 2, 2; [12, 2, 0*, 2000/03/11–2000/03/16]

723 Cottonwood Observatory, Ada

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

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

GSC-ACT

2000 EV₈₆, 2, 1, 0; (7645), 3, 1, 0; [5, 2, 0*, 2000/03/12]

725 Fair Oaks Ranch

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

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

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

1994 PO₁₂, 3, 1, 0; 1998 WS₇, 5, 2, 6; 1998 WD₃₄, 3, 1, 0; 1999 AJ₂₄, 5, 2, 6; 2000 DR₁₁₀ *, 6, 3, 14; 2000 EK₇₅ *, 4, 2, 8; (4325), 2, 1, 0; [28, 7, 2*, 1998/12/01–2000/03/12]

726 Brainerd

J. E. Wentworth, 6469 Madson Ave. N.W., Brainerd, MN 56401, U.S.A.
[jimw@brainerd.net]

0.280-m Schmidt-Cassegrain + CCD
GSC-1.1

2000 DL₁, 12, 1, 0; [12, 1, 0*, 2000/02/28]

727 Zeno Observatory, Edmond

T. Stafford, 2947 Village Circle, Edmond, OK 73013, U.S.A.
[tstaffor@aignetplex.com]

0.15-m $f/6$ refractor + CCD
GSC

1999 XK₁₄, 3, 1, 0; 2000 CG₁, 3, 1, 0; 2000 DX₆ *, 6, 2, 2; (5077), 3, 1, 0; (5450), 3, 1, 0; (13679), 3, 1, 0; [21, 6, 1*, 2000/02/24–2000/03/01]

732 Oaxaca

J. Roe, Apdo. No. 221, MX-68000 Oaxaca, Mexico [jamesroe@antequera.com]
0.25-m $f/3.4$ reflector + CCD

GSC-ACT

1981 EK₁, 6, 2, 2; 1993 US₆, 6, 2, 2; 1996 EP₁, 3, 1, 0; 1998 VO₁₃, 5, 2, 1; 2000 AA₅, 5, 2, 1; 2000 AV₉₃, 5, 2, 1; 2000 AQ₂₃₇, 6, 2, 2; 2000 CP₃₃, 11, 4, 15; 2000 CC₃₇, 8, 2, 1; 2000 CK₇₇, 6, 2, 1; 2000 CY₈₀, 8, 3, 5; 2000 CV₉₁, 13, 4, 9; 2000 CG₉₇, 4, 2, 1; 2000 CH₉₇, 6, 2, 1; 2000 CO₉₇, 4, 2, 1; 2000 CM₁₀₁, 5, 2, 2; 2000 DQ₂ *, 12, 4, 7; 2000 DY₆ *, 11, 4, 11; 2000 DZ₆ *, 10, 4, 8; 2000 DA₇ *, 18, 5, 9; 2000 DB₇ *, 12, 4, 10; 2000 DO₇₁, 6, 2, 1; 2000 DA₇₃, 9, 3, 2; 2000 EA *, 14, 4, 9; 2000 EC *, 12, 4, 7; 2000 EP *, 9, 4, 9; 2000 EJ₁₀, 6, 2, 1; 2000 EA₁₇, 5, 2, 1; (2977), 9, 2, 1; (11377), 5, 1, 0; [239, 30, 8*, 2000/02/23–2000/03/11]

734 Farpoint Observatory, Eskridge

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

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

Measurer G. Hug, C. Lambrecht

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1, USNO-SA1.0

1986 TV₆, 2, 1, 0; 1998 QZ₂₄, 2, 1, 0; 1998 RH₇₆, 5, 2, 3; 1998 SS₁₁₇, 4, 1, 0; 1998 VZ₅, 2, 1, 0; 1999 VC₁₉, 4, 1, 0; 1999 YG₄, 3, 1, 0; 1999 YJ₄, 6, 2, 1; 1999 YU₄, 3, 1, 0; 2000 AC₅, 2, 1, 0; 2000 AM₃₂, 2, 1, 0; 2000 AB₁₄₇, 6, 2, 8; 2000 AG₁₆₈, 3, 1, 0; 2000 AG₁₉₉, 5, 2, 1; 2000 CY₁, 7, 2, 15; 2000 CH₃₃, 3, 1, 0; 2000 CC₅₉, 3, 1, 0; 2000 DM₁, 6, 2, 1; 2000 DF₈, 3, 1, 0; 2000 DH₈, 6, 2, 1; 2000 DL₈, 5, 1, 0; 2000 EY₂₆ *, 10, 3, 5; 2000 ER₇₀, 3, 1, 0; 2000 ET₇₀, 3, 1, 0; (1964), 4, 1, 0; [102, 25, 1*, 2000/02/06–2000/03/12]

735 George Observatory, Needville

W. G. Dillon, 4703 Birkenhead Circle, Missouri City, TX 77459, U.S.A.

[bdillon@houston.geoquest.slb.com]

Observers J. Dellinger, W. G. Dillon, M. Eastman, L. Casady, K. Rivich,
L. Robinson

Measurers W. G. Dillon, R. Pepper, K. Rivich, L. Robinson

0.46-m reflector + CCD

USNO-A2.0, GSC 1.1

2000 CZ₁, 3, 1, 0; 2000 CB₄₁, 2, 1, 0; 2000 CD₅₉, 3, 1, 0; 2000 DP₇ *, 2, 1, 0; 2000 DB₂₄, 2, 1, 0; 2000 DM₇₁, 2, 1, 0; [14, 6, 1*, 2000/02/27–2000/03/05]

739 Sunflower Observatory, Olathe

L. Robinson, Sunflower Observatory, 14680 W. 144 St., Olathe, KS 66062, U.S.A.
[lrobinson@ix.netcom.com]

0.30-m Schmidt-Cassegrain + CCD
GSC-1.1

1998 WZ₂₁, 5, 2, 1; 2000 AH₅, 3, 1, 0; 2000 AW₅₀, 2, 1, 0; 2000 AM₁₄₃, 4, 1, 0; 2000 BH₇, 7, 3, 13; 2000 CD₆, 2, 7; 2000 CW₃₆, 6, 2, 1; 2000 CX₃₆, 2, 1, 0; 2000 CV₇₉, 7, 2, 1; 2000 CK₈₀, 5, 2, 1; 2000 CG₉₁, 6, 2, 1; 2000 CN₉₁, 5, 2, 1; 2000 CR₉₄, 7, 2, 1; 2000 CL₉₆, 6, 2, 1; 2000 DL₁, 3, 1, 0; 2000 DO₂ *, 6, 2, 1; 2000 DP₂ *, 19, 6, 14; 2000 DP₇, 4, 2, 1; 2000 DB₂₄, 6, 2, 3; 2000 EA₃, 1, 0; 2000 EO₃, 3, 1, 0; 2000 EE₁₄, 3, 1, 0; 2000 ED₃₂, 3, 1, 0; (1826), 3, 1, 0; (2466), 6, 2, 1; (2523), 3, 1, 0; (3666), 4, 1, 0; (4642), 3, 1, 0; (4960), 3, 1, 0; (6216), 3, 1, 0; (6792), 3, 1, 0; (7013), 3, 1, 0; (10045), 3, 1, 0; (12806), 3, 1, 0; [158, 34, 2*, 2000/02/25–2000/03/14]

740 SFA Observatory, Nacogdoches

W. D. Bruton, Box 13044, Nacogdoches, TX 75962 U.S.A.

[f.brutonwd@titan.sfasu.edu]

0.46-m Cassegrain reflector + CCD

GSC-1.1

(7732), 11, 3, 8; [11, 1, 0*, 2000/03/05–2000/03/13]

747 Baton Rouge Observatory

W. R. Cooney, Jr., 10330 Dunn Dr., Baton Rouge, LA 70810, U.S.A.

[walt@sprintmail.com]

Observers W. R. Cooney, Jr., D. Thomas, M. Hess

Measurers W. R. Cooney, Jr., F. J. Barnett

0.51-m $f/8.4$ reflector + CCD

USNO-A2.0

1991 RR₉, 6, 2, 1; 1998 WK₉, 4, 2, 2; 1999 AC₃, 6, 2, 1; 2000 AD₆, 3, 1, 0; 2000 BE₁₉, 8, 1, 0; 2000 BJ₁₉, 5, 1, 0; 2000 CH₁, 6, 2, 2; 2000 CE₅₉, 4, 1, 0; 2000 CF₅₉, 3, 1, 0; 2000 DP₃ *, 16, 4, 7; 2000 ET₇₀, 5, 1, 0; [66, 11, 1*, 2000/02/04–2000/03/10]

750 Hobbs Observatory, Fall Creek

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

[elliottb@uwec.edu]

0.30-m $f/3.3$ reflector + CCD

GSC-ACT

1996 VS₁, 2, 1, 0; 1997 AQ₆, 2, 1, 0; 2000 DL₁, 6, 1, 0; 2000 DO₁, 14, 3, 7; 2000 ET₇₀, 3, 1, 0; (13025), 4, 1, 0; [31, 6, 0*, 2000/02/21–2000/03/17]

757 High Point

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

[dkchesney@hpe.infi.net]

0.25-m Schmidt-Cassegrain + CCD

GSC

2000 AL₉₈, 4, 2, 3; 2000 AD₁₂₇, 2, 1, 0; 2000 CB₂, 2, 1, 0; 2000 EA₈ *, 4, 2, 1; (658), 2, 1, 0; (2829), 2, 1, 0; (4055), 2, 1, 0; (5919), 2, 1, 0; (7857), 2, 1, 0; [22, 9, 1*, 2000/02/22–2000/03/06]

808 Carlos U. Cesco Observatory, El Leoncito

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

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

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

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

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

PPM

1999 DQ₆, 2, 1, 0; [2, 1, 0*, 1993/02/23]

809 European Southern Observatory

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

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

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

2000 MAR. 20

M.P.C. 39019

7 = 3 + 4

C.-I. Lagerkvist, Uppsala Observatory, Box 515, S-75120 Uppsala, Sweden
[cclasse@astro.uu.se] (8)

Observers G. Pizarro, O. Pizarro, A. Nathues, H. Debehogne
Measurers E. W. Elst, O. Hernius, C.-I. Lagerkvist, A. Niemi, O. Karlsson,
H. Debehogne

1.0-m Schmidt, Bochum telescope + CCD
USNO-A2.0

{4} 1989 UM₄, 3, 1, 0; 1990 WN₄, 3, 1, 0; 1992 PO, 3, 1, 0; 1993 QV₃, 3, 1, 0; 1993 QF₄, 3, 1, 0;
1993 RL₇, 3, 1, 0; 1993 TU₂₈, 3, 1, 0; 1993 TM₃₉, 3, 1, 0; 1994 PS₈, 3, 1, 0; 1994 PN₁₉, 3, 1, 0;
1994 RX₁₂, 3, 1, 0; 1994 RD₁₃, 3, 1, 0; 1994 RC₁₉, 3, 1, 0; 1994 RZ₂₂, 3, 1, 0; 1995 CN₆, 3, 1, 0;
1996 FT₂₀, 3, 1, 0; 1996 HG₁₁, 5, 2, 3; 1996 JO₉, 6, 2, 32; 1996 KX₅, 3, 1, 0; 1996 KD₆, 3, 1, 0;
1996 RZ₁₉, 3, 1, 0; 1997 EO₄₇, 3, 1, 0; 1997 GC₁₁, 3, 1, 0; 1997 HH, 3, 1, 0; 1997 LU₇, 3, 1, 0;
1997 UN₈, 3, 1, 0; 1998 FX₃₀, 3, 1, 0; 1998 FB₃₁, 3, 1, 0; 1998 FR₃₇, 3, 1, 0; 1998 GC₁₂, 3, 1, 0;
1998 HH₄₃, 3, 1, 0; 1998 KG₂₈, 3, 1, 0; 1998 KA₂₉, 3, 1, 0; 1998 KS₃₂, 3, 1, 0; 1998 QM₂₆, 3, 1,
0; 1998 QY₉₃, 3, 1, 0; 1998 RP₄₉, 3, 1, 0; 1998 RB₅₀, 3, 1, 0; 1998 SG₁₅, 3, 1, 0; 1998 SY₁₁₈, 3,
1, 0; 1998 SJ₁₅₆, 3, 1, 0; 1998 VW₄, 3, 1, 0; 1998 WD₄, 3, 1, 0; 1999 BR₆, 3, 1, 0; 1999 FV₁₉, 3,
1, 0; 1999 UP₃₅, 3, 1, 0; 1999 XW₁₀₈, 3, 1, 0; 2000 AR₁₉₇, 3, 1, 0; 2000 CJ₂, 3, 1, 0; 2000 CX₁₇,
3, 1, 0; 2000 CF₂₆, 3, 1, 0; 2000 CS₂₆, 3, 1, 0; 2000 CA₃₄, 3, 1, 0; 2000 CH₄₁, 3, 1, 0; 2000 CQ₆₁,
3, 1, 0; 2000 CC₆₃, 6, 2, 1501; 2000 CR₆₅, 6, 2, 31; 2000 CL₈₃, 6, 2, 35; 2000 CB₈₅, 3, 1, 0;
2000 CB₉₅, 3, 1, 0; 2000 CQ₁₀₂, 3, 1, 0; 2000 CW₁₀₂, 3, 1, 0; 2000 CB₁₀₄, 3, 1, 0; 2000 DB₇, 3,
1, 0; 2000 DZ₁₆, 3, 1, 0; 2000 DG₃₈, 3, 1, 0; 2000 DG₁₀₃, 6, 2, 1; 2000 EL₂₀, 3, 1, 0; 3283 T-1, 3,
1, 0; 4845 T-1, 3, 1, 0; [227, 70, 0*, 1992/05/02-1998/10/19]

{7} 1993 RV₁₃, 3, 1, 0; 1993 RW₁₃, 3, 1, 0; 1997 LY₂, 6, 2, 10; 1999 XW₁₀₈, 6, 2, 8; 2000 CL₈₄,
3, 1, 0; 2000 DK₁₆, 6, 2, 10; 1150 T-1, 3, 1, 0; [30, 7, 0*, 1993/09/14-1993/10/22]

{8} 1995 SH₄₉, 9, 7, 30; 1997 AF₇, 1, 1, 0; 1997 UD₂₆, 2, 1, 0; 1999 NQ₅₉, 2, 1, 0; 1999 RU₇₄,
4, 3, 2; 1999 VU₈₁, 6, 6, 27; 1999 XT₁₅₂, 10, 8, 30; 2000 CC₂₀, 4, 4, 4; 2000 DS₁₁₀ *, 2, 2, 1;
2000 EM₆₂, 3, 2, 1; 4180 P-L, 5, 5, 8; [48, 11, 1*, 1995/08/19-2000/03/01]

819 Val-des-Bois

D. Bergeron, 117 Ch. Guenette, C.P. 130, Val-des-Bois, Quebec JOX 3C0, Canada
[bergeron@achilles.net]

0.25-m $f/10$ Schmidt-Cassegrain + CCD
GSC-1.2

2000 AB₆₂, 14, 3, 3; 2000 AN₆₄, 4, 1, 0; 2000 CB₈₁, 18, 4, 15; 2000 EG₁₅ *, 7, 2, 2; [43, 4, 1*,
2000/02/21-2000/03/07]

829 Complejo Astronómico El Leoncito

E. Giorgi, Observatorio Astronómico de La Plata (1900), La Plata, Argentina
[legiorgi@fcaglp.fcaglp.unlp.edu.ar]

Observer S. A. Cellone
Measurers S. A. Cellone, R. B. Orellana
2.15-m $f/2.8$ reflector + CCD
USNO-A1.0

(3102), 4, 2, 1; (5863), 4, 2, 1; [8, 2, 0*, 1999/03/21-1999/03/22]

832 Etters

J. D. Fetter, Redland Observatory, 386 Cameron Street, Etters, PA 17319, U.S.A.
[jfetter@mindspring.com]

0.30-m $f/10$ Schmidt-Cassegrain + CCD
GSC, USNO-SA2.0

2000 AJ, 4, 2, 5; 2000 AK, 4, 2, 5; 2000 AS₁, 4, 2, 3; 2000 AF₅₄, 4, 2, 7; [16, 4, 0*, 2000/02/23-
2000/03/09]

837 Jupiter

B. A. Segal, 3084 NW 63 Street, Boca Raton, FL 33496, U.S.A.
[astrobas@gate.net]

0.3-m $f/6.3$ SCT + CCD

USNO-SA2.0

1992 UN, 5, 2, 2; 2000 DW₆₁, 2, 1, 0; 2000 DP₆₂, 3, 1, 0; 2000 DQ₆₂, 6, 2, 2; 2000 EV₅₀ *, 7, 3,
4; [23, 5, 1*, 2000/03/11-2000/03/15]

849 Everstar Observatory, Olathe

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

0.25-m Schmidt-Cassegrain + CCD
GSC-1.1

1997 RF, 2, 1, 0; 2000 AD₆₆, 3, 1, 0; 2000 AX₁₃₆, 2, 1, 0; 2000 AZ₁₉₃, 3, 1, 0; 2000 AC₂₄₀, 3,
1, 0; 2000 CB₃₇, 4, 1, 0; 2000 CC₃₇, 3, 1, 0; 2000 CB₅₈, 6, 2, 1; 2000 DN₂ *, 8, 2, 1; 2000 DQ₈,
2, 1, 0; 2000 DR₈, 2, 1, 0; 2000 DY₁₅, 6, 1, 0; 2000 EG, 3, 1, 0; (482), 2, 1, 0; (1394), 2, 1, 0;
(10116), 2, 1, 0; (13617), 3, 1, 0; (13886), 3, 1, 0; [59, 18, 1*, 2000/02/26-2000/03/05]

850 Cordell-Lorenz Observatory, Sewanee

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

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

Measurer D. T. Durig

0.3-m $f/5.8$ Schmidt-Cassegrain + CCD
GSC-1.1

1989 EE, 5, 2, 1; 1990 VY₅, 5, 2, 1; 1997 SD₁, 4, 2, 1; 1998 QW₂₃, 6, 2, 1; 1998 SK₁₁₅, 4, 1, 0;
1998 UZ₆, 6, 2, 1; 2000 AU₄₉, 1, 1, 0; 2000 DL₁, 4, 1, 0; 2000 DM₈, 8, 2, 3; 2000 DN₈, 5, 1, 0;
2000 DP₁₀₇, 4, 1, 0; 2000 DQ₁₁₀, 4, 1, 0; 2000 ES₇₀, 3, 1, 0; 2000 EW₇₀, 3, 1, 0; 2000 EE₁₀₄, 4,
1, 0; (9537), 2, 1, 0; [68, 16, 0*, 2000/02/17-2000/03/14]

858 Tebbutt Observatory, Edgewood

F. B. Zoltowski, Tebbutt Observatory, 70 Abajo Dr., Edgewood, NM 87015, U.S.A.
[fbzolt@compuserve.com]

0.3-m $f/3.3$ Schmidt-Cassegrain + CCD
USNO-SA2.0

1994 NS, 3, 1, 0; 1997 OG₁, 9, 3, 29; 1998 PZ, 3, 1, 0; 1998 QK₄, 5, 2, 15; 1998 QM₂₆, 6, 2, 1;
1998 RJ, 5, 2, 5; 1998 SF₂, 6, 2, 3; 1998 SB₆₇, 6, 2, 3; 1998 WN₇, 6, 2, 1; 1998 WY₁₉, 6, 2, 1;
1998 WA₂₀, 6, 2, 1; 2000 AD₁₃₀, 3, 1, 0; 2000 AD₁₄₄, 3, 1, 0; 2000 BL₁₅, 6, 2, 4; 2000 CC, 5, 2,
7; 2000 CD, 2, 1, 0; 2000 CT₃₄, 8, 3, 19; 2000 CR₅₇, 6, 2, 1; 2000 CW₈₀, 6, 2, 3; 2000 DL₁, 3, 1,
0; 2000 DO₁, 3, 1, 0; 2000 DW₆ *, 12, 5, 13; 2000 DF₈, 5, 2, 3; 2000 DG₈, 8, 3, 3; 2000 DH₈, 4,
1, 0; 2000 DJ₈, 3, 1, 0; 2000 DK₈, 3, 1, 0; 2000 DL₈, 8, 3, 3; 2000 DM₈, 6, 2, 2; 2000 DN₈, 3, 1,
0; 2000 DT₅₄, 6, 2, 1; 2000 DP₁₀₇, 3, 1, 0; 2000 EA₄ *, 12, 4, 11; 2000 EB₄ *, 5, 2, 1; 2000 EJ₁₃,
5, 2, 2; 2000 EX₁₃, 6, 2, 1; 2000 EZ₁₃, 6, 2, 1; 2000 EA₁₄, 7, 2, 1; 2000 EC₁₄, 3, 1, 0; 2000 EH₂₆,
5, 2, 4; 2000 EJ₂₆, 3, 1, 0; 2000 EE₅₀ *, 6, 2, 2; 2000 EF₅₀ *, 6, 2, 2; 2000 ES₅₀ *, 6, 2, 1;
2000 ET₅₀ *, 5, 2, 1; 2000 ER₇₀, 6, 2, 2; 2000 ES₇₀, 8, 2, 1; 2000 ET₇₀, 6, 2, 1; 2000 EU₇₀, 3, 1,
0; 2000 EV₇₀, 7, 2, 1; 2000 EW₇₀, 6, 2, 1; 2000 ED₁₀₄, 3, 1, 0; 2000 EE₁₀₄, 6, 2, 3; 2000 EG₁₀₄,
3, 1, 0; 2000 EH₁₀₄, 3, 1, 0; (5462), 3, 1, 0; [296, 56, 7*, 2000/02/11-2000/03/15]

865 Emmy Observatory, New Paltz

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

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

1994 WF₂, 10, 3, 4; 2000 CZ₈₀, 9, 2, 1; 2000 DO₁, 12, 1, 0; (9422), 3, 1, 0; (13538), 4, 3, 4;
(13640), 12, 3, 4; [50, 6, 0*, 2000/02/29-2000/03/09]

866 U.S. Naval Academy, Michelson

D. T. Campbell, U.S.N.A. Physics Dept.-9C 572 Holloway Rd., Annapolis, MD
21402-5026 [m000924@nadn.navy.mil]

2000 DH₈, 3, 1, 0; 2000 ED₁₄, 3, 1, 0; (3800), 6, 2, 6; (11066), 6, 2, 1; [18, 4, 0*, 2000/02/23-
2000/03/06]

886 Susono

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

0.25-m $f/6.3$ reflector + CCD
GSC

1989 DB, 2, 1, 0; 1998 TA, 2, 1, 0; [4, 2, 0*, 2000/03/01–2000/03/02]

888 Gekko Observatory

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

0.50-m $f/4.0$ reflector + CCD
GSC-1.1

1988 XE₂, 5, 2, 7; 1989 WD₃, 3, 1, 0; 1993 EK, 3, 1, 0; 1994 CN, 2, 1, 0; 1994 QV, 2, 1, 0; 1994 UY, 3, 1, 0; 1994 UC₁, 2, 1, 0; 1995 WK₅, 2, 1, 0; 1995 YR, 3, 1, 0; 1997 AQ₆, 3, 1, 0; 1997 QF₂, 3, 1, 0; 1997 SK₂₅, 3, 1, 0; 1997 UC₁₁, 2, 1, 0; 1998 TE, 5, 2, 7; 1998 UP₆, 3, 1, 0; 1998 UT₆, 3, 1, 0; 1998 UU₆, 7, 2, 1; 1998 UU₂₂, 5, 2, 8; 1998 VN₅, 3, 1, 0; 1998 VU₅, 5, 2, 1; 1998 VD₆, 4, 2, 14; 1998 VF₆, 2, 1, 0; 1998 VO₆, 3, 1, 0; 1998 VG₃₁, 5, 2, 8; 1998 WE₃, 5, 2, 10; 1998 WL₅, 3, 1, 0; 1998 WE₇, 6, 2, 10; 1998 WF₇, 3, 1, 0; 1998 WG₇, 3, 1, 0; 1998 YH₁, 6, 2, 4; 1999 BC₄, 3, 1, 0; 1999 CC₅, 3, 1, 0; 1999 XC₁₀₄, 3, 1, 0; 2000 AE₅, 3, 1, 0; 2000 AS₁₄₁, 3, 1, 0; 2000 AV₁₄₂, 3, 1, 0; 2000 AB₁₄₃, 3, 1, 0; 2000 AA₂₀₅, 3, 1, 0; 2000 BD₁₁, 6, 2, 8; 2000 CH₂, 4, 2, 7; 2000 CO₄₀, 5, 2, 10; 2000 CU₄₄, 6, 2, 1; 2000 CV₄₄, 5, 2, 1; 2000 CN₇₆, 3, 1, 0; 2000 DV₆ *, 5, 2, 1; 2000 EG₅₀ *, 5, 2, 2; (4532), 3, 1, 0; (6111), 3, 1, 0; [176, 48, 2*, 2000/02/27–2000/03/13]

900 Moriyama

Y. Ikari, Katube-Cho 626, Moriyama, Shiga-Ken 524, Japan
[ikari@gold.ocn.ne.jp]

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

2000 DH₈, 2, 1, 0; 2000 DP₁₀₇, 2, 1, 0; 2000 ES₇₀, 2, 1, 0; 2000 ET₇₀, 2, 1, 0; [8, 4, 0*, 2000/03/01–2000/03/12]

903 Fukuchiyama

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

Observer M. Yoshimi

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

1989 GB, 2, 1, 0; 1990 UJ₄, 2, 1, 0; 1997 KH₄, 2, 1, 0; 1998 XH₅₉, 2, 1, 0; 2000 AK₉₇, 2, 1, 0; 2000 AR₉₇, 2, 1, 0; 2000 AK₁₃₇, 2, 1, 0; 2000 AL₁₄₄, 2, 1, 0; (380), 2, 1, 0; (691), 2, 1, 0; (817), 2, 1, 0; (1427), 2, 1, 0; (1550), 2, 1, 0; (1693), 2, 1, 0; (1952), 2, 1, 0; (2069), 2, 1, 0; (4542), 2, 1, 0; (5886), 2, 1, 0; (6192), 2, 1, 0; (9707), 2, 1, 0; (13542), 2, 1, 0; (13614), 2, 1, 0; [44, 22, 0*, 2000/03/01–2000/03/12]

910 Caussols-ODAS

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

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

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

Measurers A. Maury, G. Hahn

0.90-m Schmidt + CCD
GSC

1988 RX₃, 3, 1, 0; 1988 RO₁₂, 3, 1, 0; 1990 WN₄, 3, 1, 0; 1993 FO₁₄, 3, 1, 0; 1993 OK₇, 3, 1, 0; 1995 FF₆, 3, 1, 0; 1997 GA₂₃, 3, 1, 0; 1997 LX₅, 3, 1, 0; 1997 QE₄, 3, 1, 0; 1997 WL₄₆, 3, 1, 0; 1998 KA₂₉, 3, 1, 0; 1998 QH₂₁, 3, 1, 0; 1998 RA₇, 3, 1, 0; 1998 RB₄₄, 3, 1, 0; 1998 SH₁₄, 3, 1, 0; 1998 SL₇₂, 3, 1, 0; 1998 SY₁₁₈, 3, 1, 0; 1998 UU₃₂, 3, 1, 0; 1998 UH₃₄, 3, 1, 0; 1998 US₃₅, 6, 1, 0; 1998 VU₃, 3, 1, 0; 1998 VL₁₂, 3, 1, 0; 1998 VV₁₅, 3, 1, 0; 1998 XK₈, 3, 1, 0; 1998 XO₂₈, 3, 1, 0; 1999 JU₆₀, 3, 1, 0; 1999 VY₇₇, 3, 1, 0; 1999 XC₁₅, 3, 1, 0; 1999 XO₁₅₇, 3, 1, 0; 1999 XM₁₆₉, 3, 1, 0; 1999 XR₁₇₃, 3, 1, 0; 1999 XT₂₀₅, 3, 1, 0; 1999 XR₂₁₇, 3, 1, 0; 2000 AQ₁₂₃, 3, 1, 0; 2000 AW₂₀₅, 3, 1, 0; 2000 AO₂₁₄, 3, 1, 0; 2000 CV₁, 3, 1, 0; 2000 CJ₂₃, 3, 1, 0; 2000 CN₂₅, 3, 1, 0; 2000 CK₂₉, 3, 1, 0; 2000 CN₃₁, 3, 1, 0; 2000 CA₃₄, 3, 1, 0; 2000 CN₅₃, 3, 1, 0; 2000 CB₅₆, 3, 1, 0; 2000 CG₆₃, 3, 1, 0; 2000 CH₈₇, 3, 1, 0; 2000 CD₉₃, 3, 1, 0; 2000 CE₉₉, 3, 1, 0; 2000 CW₁₀₂,

3, 1, 0; 2000 CB₁₀₄, 3, 1, 0; 2000 DP₅₅, 3, 1, 0; 2000 DG₁₀₇, 3, 1, 0; 6595 P-L, 3, 1, 0; 5172 T-3, 3, 1, 0; [165, 54, 0*, 1997/02/10–1999/02/14]

931 Punaauia

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

0.20-m $f/10$ reflector + CCD

GSC

1998 ST₅₂, 4, 2, 1; 1998 SC₁₄₀, 4, 2, 1; 1998 XR₄, 4, 2, 1; 1998 XS₄, 4, 2, 1; 1999 AR, 4, 2, 22; 2000 AK₂, 2, 1, 0; [22, 6, 0*, 2000/02/19–2000/03/12]

946 Ametlla de Mar

J. Nomen, Rio de Oro 25, bjos2, E-08034 Barcelona, Spain

[jnomen@astro.gea.cesca.es]

0.30-m $f/5.0$ reflector + CCD

USNO-SA1.0

1999 XW₃₅, 2, 1, 0; 2000 DL₁, 3, 1, 0; 2000 EE₁₄, 4, 1, 0; [9, 3, 0*, 2000/02/26–2000/03/10]

947 Saint-Sulpice

B. Christophe, 63 rue Belliard, F-75018 Paris, France

[bernard.christophe@hol.fr]

0.60-m $f/5.6$ relector + CCD

GSC, USNO-SA1.0

(2829), 48, 1, 0; [48, 1, 0*, 2000/03/04]

952 Marxuquera

J. J. Gómez D., Cardenal Cisneros 55-4-8, E-46700 Gandia, Spain

[astsafor@arrakis.es]

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

GSC

2000 ES *, 19, 3, 5; 2000 EW₇₀, 3, 1, 0; [22, 2, 1*, 2000/03/04–2000/03/17]

958 Observatoire de Dax

P. Dupouy, Observatoire de Dax, F-40100 Dax, France

[Dupouy_Philippe@compuserve.com]

Observer P. Dupouy, F. Marechal

0.320-m $f/5.7$ reflector + CCD

GSC

2000 DL₁, 5, 1, 0; [5, 1, 0*, 2000/02/26]

970 Chelmsford

N. D. James, 11 Tavistock Road, Chelmsford, Essex CM1 6JL, England

[ndj@astro1.demon.co.uk]

0.30-m $f/5.25$ reflector + CCD

USNO-A2.0

2000 DO₁, 3, 1, 0; [3, 1, 0*, 2000/03/04]

ORBITAL ELEMENTS

Orbital elements have been computed by the following contributors:

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

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

E. Goffin, Agfa-Gevaert N.V., Mortsel, Belgium [goffin@twi.agfa.be]

D. W. E. Green, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street,
Cambridge, MA 02138, U.S.A. [dgreen@cfa.harvard.edu]

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

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

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

C/1999 E1 (Li)

Epoch 1999 Jan. 22.0 TT = JDT 2451200.5

<i>T</i>	1999 Jan. 31.7121 TT		Nakano	
<i>q</i>	3.919986	(2000.0)	P	Q
<i>n</i>	0.0149506	ω 329.7594	-0.2580366	-0.7752394
<i>a</i>	16.319157	Ω 127.8327	+0.9659660	-0.2181820
<i>e</i>	0.759792	<i>i</i> 46.8866	+0.0180777	+0.5927904
<i>P</i>	65.9			

From 240 observations 1999 Jan. 22–2000 Mar. 14, mean residual 0''.6.

C/1999 E2 (SOHO)

T 1999 Mar. 3.72 TT

<i>q</i>	0.0051	(2000.0)	Marsden	
			P	Q
		ω 82.50	+0.19093	-0.98069
		Ω 4.27	-0.96178	-0.19551
<i>e</i>	1.0	<i>i</i> 145.42	+0.19629	-0.00404

From 12 observations 1999 Mar. 2.

C/1999 F1 (Catalina)

Epoch 2002 Feb. 15.0 TT = JDT 2452320.5

<i>T</i>	2002 Feb. 13.7476 TT		Nakano	
<i>q</i>	5.787203	(2000.0)	P	Q
<i>z</i>	+0.000202	ω 255.1636	-0.2523165	+0.9051877
	± 0.000014	Ω 20.0126	+0.3333958	+0.4131285
<i>e</i>	0.998834	<i>i</i> 92.0301	-0.9083962	-0.0998006

From 69 observations 1999 Mar. 13–2000 Mar. 13, mean residual 0''.6.

C/1999 F2 (Dalcanton)

Epoch 1998 Aug. 15.0 TT = JDT 2451040.5

<i>T</i>	1998 Aug. 23.9846 TT		Nakano	
<i>q</i>	4.718792	(2000.0)	P	Q
<i>z</i>	+0.000296	ω 352.3930	-0.8927670	+0.1622586
	± 0.000004	Ω 210.2960	-0.3568966	-0.8240387
<i>e</i>	0.998603	<i>i</i> 56.4211	-0.2749398	+0.5428004

From 87 observations 1998 June 18–2000 Mar. 14, mean residual 0''.7.

C/1999 L5 (SOHO)

T 1999 June 11.58 TT

<i>q</i>	0.0077	(2000.0)	Marsden	
			P	Q
		ω 85.28	+0.17721	-0.98179
		Ω 6.76	-0.96024	-0.18774
<i>e</i>	1.0	<i>i</i> 144.42	+0.21570	-0.02916

From 43 observations 1999 June 10–11.

C/1999 N4 (LINEAR)

Epoch 2000 May 16.0 TT = JDT 2451680.5

<i>T</i>	2000 May 23.6093 TT		Nakano	
<i>q</i>	5.505235	(2000.0)	P	Q
<i>z</i>	-0.000768	ω 90.4142	-0.2310997	-0.9682338
	± 0.000004	Ω 345.9017	-0.9729151	+0.2305255
<i>e</i>	1.004229	<i>i</i> 156.9229	+0.0054013	+0.0968567

From 119 observations 1999 July 12–2000 Mar. 14, mean residual 0''.6.

C/1999 O2 (SOHO)

T 1999 July 22.56 TT

<i>q</i>	0.0079	(2000.0)	Marsden	
			P	Q
		ω 62.39	+0.18323	-0.95318
		Ω 338.37	-0.95942	-0.12002
<i>e</i>	1.0	<i>i</i> 139.26	+0.21435	+0.27756

From 14 observations 1999 July 21–22.

C/1999 O3 (SOHO)

T 1999 Aug. 1.36 TT

<i>q</i>	0.0052	(2000.0)	Marsden	
			P	Q
		ω 89.76	+0.14445	-0.98403
		Ω 10.06	-0.96188	-0.16430
<i>e</i>	1.0	<i>i</i> 143.44	+0.23219	-0.06846

From 28 observations 1999 July 31–Aug. 1.

C/1999 P4 (SOHO)

T 1999 Aug. 10.14 TT

<i>q</i>	0.0050	(2000.0)	Marsden	
			P	Q
		ω 89.07	+0.16736	-0.97989
		Ω 10.74	-0.96135	-0.18665
<i>e</i>	1.0	<i>i</i> 144.33	+0.21863	-0.07062

From 14 observations 1999 Aug. 9.

C/1999 P5 (SOHO)

T 1999 Aug. 12.99 TT

<i>q</i>	0.0063	(2000.0)	Marsden	
			P	Q
		ω 72.99	+0.22642	-0.97283
		Ω 355.21	-0.95569	-0.21233
<i>e</i>	1.0	<i>i</i> 144.69	+0.18810	+0.09225

From 22 observations 1999 Aug. 12.

C/1999 Q1 (SOHO)

T 1999 Aug. 24.47 TT

<i>q</i>	0.0053	(2000.0)	Marsden	
			P	Q
		ω 96.26	+0.10802	-0.98011
		Ω 15.74	-0.96292	-0.14479
<i>e</i>	1.0	<i>i</i> 142.16	+0.24723	-0.13571

From 13 observations 1999 Aug. 23–24.

C/1999 Q2 (SOHO)

<i>T</i>	1999 Aug. 25.10 TT		Marsden	
<i>q</i>	0.0050	(2000.0)	P	Q
	ω	79.36	+0.19141	−0.98150
	Ω	0.48	−0.95983	−0.18822
<i>e</i>	1.0	<i>i</i> 144.55	+0.20517	+0.03515
From 10 observations 1999 Aug. 24.				

C/1999 Q3 (SOHO)

<i>T</i>	1999 Aug. 31.74 TT		Marsden	
<i>q</i>	0.0052	(2000.0)	P	Q
	ω	86.52	+0.16690	−0.98301
	Ω	7.55	−0.96204	−0.17934
<i>e</i>	1.0	<i>i</i> 144.42	+0.21592	−0.03921
From 29 observations 1999 Aug. 30–31.				

C/1999 R3 (SOHO)

<i>T</i>	1999 Sept. 6.08 TT		Marsden	
<i>q</i>	0.0053	(2000.0)	P	Q
	ω	79.73	+0.19951	−0.97977
	Ω	1.53	−0.95718	−0.19825
<i>e</i>	1.0	<i>i</i> 144.37	+0.20977	+0.02723
From 35 observations 1999 Sept. 4–5.				

C/1999 R4 (SOHO)

<i>T</i>	1999 Sept. 6.62 TT		Marsden	
<i>q</i>	0.0051	(2000.0)	P	Q
	ω	83.00	+0.16605	−0.98558
	Ω	3.17	−0.96114	−0.16914
<i>e</i>	1.0	<i>i</i> 143.91	+0.22053	+0.00495
From 18 observations 1999 Sept. 5–6.				

C/1999 S2 (McNaught-Watson)

Epoch 1997 Nov. 8.0 TT = JDT 2450760.5				
<i>T</i>	1997 Nov. 22.4887 TT		Marsden	
<i>q</i>	6.466989	(2000.0)	P	Q
<i>z</i>	−0.001038	ω 223.4791	+0.0768340	+0.4710716
	±0.000028	Ω 74.4317	−0.4610662	+0.7982376
<i>e</i>	1.006713	<i>i</i> 65.8126	−0.8840331	−0.3753775
From 70 observations 1999 Sept. 19–2000 Mar. 5, mean residual 0 ^{''} .7.				

C/1999 S3 (LINEAR)

Epoch 1999 Oct. 29.0 TT = JDT 2451480.5				
<i>T</i>	1999 Nov. 9.0096 TT		Nakano	
<i>q</i>	1.894980	(2000.0)	P	Q
<i>n</i>	0.0119394	ω 44.1252	+0.6547560	−0.7304900
<i>a</i>	18.958971	Ω 11.8788	+0.0824287	−0.1862724
<i>e</i>	0.900048	<i>i</i> 70.5622	+0.7513322	+0.6570288
<i>P</i>	82.6			
From 598 observations 1999 Sept. 24–2000 Feb. 11, mean residual 0 ^{''} .5.				

C/1999 S5 (SOHO)

<i>T</i>	1999 Sept. 21.40 TT		Marsden	
<i>q</i>	0.0050	(2000.0)	P	Q
	ω	86.17	+0.12372	−0.99142
	Ω	4.08	−0.96609	−0.13006
<i>e</i>	1.0	<i>i</i> 143.59	+0.22663	−0.01318
From 11 observations 1999 Sept. 20.				

C/1999 S6 (SOHO)

<i>T</i>	1999 Sept. 21.81 TT		Marsden	
<i>q</i>	0.0050	(2000.0)	P	Q
	ω	94.41	+0.05932	−0.99316
	Ω	9.72	−0.97239	−0.08027
<i>e</i>	1.0	<i>i</i> 143.44	+0.22572	−0.08476
From 12 observations 1999 Sept. 21.				

C/1999 S7 (SOHO)

<i>T</i>	1999 Sept. 24.95 TT		Marsden	
<i>q</i>	0.0051	(2000.0)	P	Q
	ω	82.08	+0.18224	−0.98271
	Ω	3.20	−0.95854	−0.18498
<i>e</i>	1.0	<i>i</i> 143.99	+0.21906	+0.00809
From 17 observations 1999 Sept. 24.				

P/1999 U3 (LINEAR)

Epoch 1999 Dec. 8.0 TT = JDT 2451520.5				
<i>T</i>	1999 Nov. 18.4668 TT		Nakano	
<i>q</i>	1.846330	(2000.0)	P	Q
<i>n</i>	0.0923379	ω 111.3158	+0.4789060	−0.8325548
<i>a</i>	4.847854	Ω 306.9784	+0.6191910	+0.5451542
<i>e</i>	0.619145	<i>i</i> 20.3946	+0.6222954	+0.0982828
<i>P</i>	10.7			
From 199 observations 1999 Oct. 30–2000 Feb. 29, mean residual 0 ^{''} .6.				

C/1999 U4 (Catalina-Skiff)

Epoch 2001 Oct. 18.0 TT = JDT 2452200.5				
<i>T</i>	2001 Oct. 28.3558 TT		Nakano	
<i>q</i>	4.914143	(2000.0)	P	Q
<i>z</i>	−0.001657	ω 77.5231	−0.1390130	−0.8965784
	±0.000035	Ω 32.2883	+0.2671810	−0.4428356
<i>e</i>	1.008144	<i>i</i> 51.9240	+0.9535668	−0.0066265
From 124 observations 1999 Sept. 18–2000 Mar. 1, mean residual 0 ^{''} .5.				

P/1999 V1 (Catalina)

Epoch 1999 Oct. 29.0 TT = JDT 2451480.5				
<i>T</i>	1999 Oct. 25.0500 TT		Nakano	
<i>q</i>	2.944273	(2000.0)	P	Q
<i>n</i>	0.0587926	ω 186.6923	−0.5111830	−0.8238505
<i>a</i>	6.550199	Ω 294.3111	+0.8004822	−0.3526342
<i>e</i>	0.550506	<i>i</i> 15.5869	+0.3129219	−0.4437560
<i>P</i>	16.8			
From 94 observations 1999 Nov. 5–2000 Mar. 4, mean residual 0 ^{''} .8.				

2000 MAR. 20

M.P.C. 39023

P/1999 XB₆₉ (LINEAR)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>T</i>	2000 Feb. 17.0403 TT		Nakano	
<i>q</i>	1.639255	(2000.0)	P	Q
<i>n</i>	0.1048417	ω 220.1818	−0.4316083	−0.8816370
<i>a</i>	4.454305	Ω 256.1667	+0.8698535	−0.3507395
<i>e</i>	0.631984	<i>i</i> 11.3364	+0.2388915	−0.3157498
<i>P</i>	9.40			

From 49 observations 1999 Nov. 14–2000 Mar. 1, mean residual 0^{''}.5.

C/1999 XS₈₇ (LINEAR)

Epoch 1999 Aug. 10.0 TT = JDT 2451400.5

<i>T</i>	1999 Aug. 6.6066 TT		Nakano	
<i>q</i>	2.771791	(2000.0)	P	Q
<i>n</i>	0.0135382	ω 151.3507	+0.5127334	−0.8195624
<i>a</i>	17.435274	Ω 266.7311	+0.7307393	+0.5729800
<i>e</i>	0.841024	<i>i</i> 14.8443	+0.4506933	+0.0033681
<i>P</i>	72.8			

From 89 observations 1999 Nov. 4–2000 Mar. 5, mean residual 0^{''}.6.

P/1999 XN₁₂₀ (Catalina)

Epoch 2000 May 16.0 TT = JDT 2451680.5

<i>T</i>	2000 May 1.5442 TT		Nakano	
<i>q</i>	3.286267	(2000.0)	P	Q
<i>n</i>	0.1154680	ω 161.8247	+0.0462974	−0.9953457
<i>a</i>	4.176651	Ω 285.4553	+0.9052742	+0.0775754
<i>e</i>	0.213181	<i>i</i> 5.0308	+0.4222974	−0.0571756
<i>P</i>	8.54			

From 66 observations 1999 Nov. 3–2000 Mar. 18, mean residual 0^{''}.6.

C/1999 Y1 (LINEAR)

T 2001 Mar. 24.2090 TT

<i>q</i>	3.090940	(2000.0)	Nakano	
			P	Q
	ω	184.2740	+0.9934223	+0.0345173
	Ω	188.8527	+0.1142210	−0.3662130
<i>e</i> 1.0	<i>i</i>	134.8090	−0.0081073	−0.9298906

From 234 observations 1999 Dec. 20–2000 Mar. 9.

C/2000 A1 (Montani)

T 2000 July 2.5482 TT

<i>q</i>	9.755490	(2000.0)	Nakano	
			P	Q
	ω	13.7543	−0.5621262	−0.7313831
	Ω	111.8461	+0.7140161	−0.6647657
<i>e</i> 1.0	<i>i</i>	24.5823	+0.4173669	+0.1522015

From 75 observations 2000 Jan. 4–Mar. 9.

C/2000 B2 (LINEAR)

T 1999 Nov. 9.9344 TT

<i>q</i>	3.776036	(2000.0)	Nakano	
			P	Q
	ω	154.5683	−0.2600223	−0.0554676
	Ω	284.9897	+0.6234137	+0.7527533
<i>e</i> 1.0	<i>i</i>	93.6545	+0.7373899	−0.6559617

From 78 observations 2000 Jan. 29–Mar. 9.

P/2000 B3 (LINEAR)

T 2000 Feb. 14.1682 TT

<i>q</i>	1.700252	(2000.0)	Nakano	
			P	Q
<i>n</i>	0.1230658	ω 130.5117	−0.5415855	−0.8402321
<i>a</i>	4.002928	Ω 352.1470	+0.7010817	−0.4341426
<i>e</i>	0.575248	<i>i</i> 11.1263	+0.4638638	−0.3248541
<i>P</i>	8.01			

From 62 observations 2000 Jan. 27–Mar. 12.

C/2000 B4 (LINEAR)

T 2000 June 17.1520 TT

<i>q</i>	6.828392	(2000.0)	Nakano	
			P	Q
<i>n</i>	0.0128974	ω 126.3345	−0.6006871	−0.7994789
<i>a</i>	18.008112	Ω 0.6081	+0.6171157	−0.4659764
<i>e</i>	0.620816	<i>i</i> 15.9122	+0.5082748	−0.3790771
<i>P</i>	76.4			

From 75 observations 2000 Jan. 2–Mar. 2.

P/2000 C1 (Hergenrother)

T 2000 Mar. 19.8738 TT

<i>q</i>	2.095573	(2000.0)	Nakano	
			P	Q
<i>n</i>	0.1485910	ω 51.1680	−0.9959872	−0.0283366
<i>a</i>	3.530268	Ω 127.0455	−0.0019118	−0.9415986
<i>e</i>	0.406398	<i>i</i> 6.1055	+0.0894759	−0.3355430
<i>P</i>	6.63			

From 100 observations 2000 Jan. 4–Mar. 14.

C/2000 CT₅₄ (LINEAR)

T 2001 June 19.2703 TT

<i>q</i>	3.152707	(2000.0)	Nakano	
			P	Q
	ω	272.6893	+0.2565259	+0.9346507
	Ω	18.9755	−0.2512230	+0.3104618
<i>e</i> 1.0	<i>i</i>	49.2184	−0.9333175	+0.1733247

From 34 observations 2000 Jan. 28–Mar. 14.

C/2000 D1 (SOHO)

T 2000 Mar. 1.07 TT

<i>q</i>	0.0051	(2000.0)	Marsden	
			P	Q
	ω	78.02	+0.21925	−0.97563
	Ω	0.84	−0.95414	−0.21623
<i>e</i> 1.0	<i>i</i>	144.61	+0.20383	+0.03725

From 29 observations 2000 Feb. 28–29.

C/2000 D2 (LINEAR)

T 2000 Mar. 2.6729 TT

<i>q</i>	2.323051	(2000.0)	Nakano	
			P	Q
	ω	115.5323	−0.4438593	+0.8350678
	Ω	235.7915	+0.6139489	+0.5476097
<i>e</i> 1.0	<i>i</i>	156.8565	+0.6527295	+0.0527756

From 72 observations 2000 Feb. 25–Mar. 2.

C/2000 E1 (SOHO)

T	2000 Mar. 5.55 TT			Marsden	
q	0.0050	(2000.0)	P	Q	
	ω	89.13	+0.15235	−0.98340	
	Ω	9.73	−0.96411	−0.16983	
e	1.0	i 144.33	+0.21745	−0.06395	

From 40 observations 2000 Mar. 4–5.

73P/Schwassmann-Wachmann 3-C

Epoch 2001 Jan. 11.0 TT = JDT 2451920.5

T	2001 Jan. 27.7284 TT			Nakano	
q	0.937382	(2000.0)	P	Q	
n	0.1839951	ω 198.7760	−0.0287141	+0.9821784	
a	3.061484	Ω 69.9208	−0.8899221	+0.0595034	
e	0.693815	i 11.4063	−0.4552077	−0.1782830	
P	5.36				

From 229 observations 1989–2000, mean residual 0''.9. Nongravitational parameters

$$A_1 = +1.00 \pm 0.01, A_2 = +0.1864 \pm 0.0006, A_3 = -0.18 \pm 0.01.$$

S/1999 U 1

T	2003 June 10.9025 TT			Marsden	
q	0.155542	(2000.0)	P	Q	
n	0.0964658	ω 309.4577	+0.3547880	−0.8742785	
a	0.165884	Ω 243.2849	−0.7026589	−0.4830991	
e	0.062344	i 158.2291	−0.6167624	+0.0474581	
P	10.22				

From 20 observations 1999 July 18–Oct. 14.

S/1999 U 2

T	1999 Dec. 26.5777 TT			Marsden	
q	0.019909	(2000.0)	P	Q	
n	0.5922084	ω 340.1066	−0.0049812	+0.3758531	
a	0.049477	Ω 277.0773	−0.7435352	−0.6210488	
e	0.597618	i 69.0320	−0.6686783	+0.6877738	
P	1.664				

From 20 observations 1999 July 18–Sept. 2.

S/1999 U 3

T	1997 Oct. 16.4190 TT			Marsden	
q	0.078414	(2000.0)	P	Q	
n	0.1206046	ω 244.5799	+0.1584398	+0.9392425	
a	0.142937	Ω 321.2880	+0.9860084	−0.1666919	
e	0.451406	i 150.8640	−0.0518099	−0.3000623	
P	8.172				

From 17 observations 1999 July 18–Oct. 15.

(13903)* 1975 ST = 1996 HV₁

Discovered 1975 Sept. 30 by S. J. Bus at Palomar.

Id. S. Nakano (*MPC* 27301)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	273.14908	(2000.0)	P	Q	Williams
n	0.22547189	ω 97.98651	+0.26138851	+0.96491788	
a	2.6734646	Ω 187.30819	−0.94430361	+0.25033925	
e	0.2401906	i 11.19126	−0.19991683	+0.07914388	
P	4.37	H 14.0	G 0.15	U 1	

Residuals in seconds of arc

1975 09 30	675	(1.4− 2.8−)	1996 05 09	897	0.0	0.7+	2000 03 08	704	1.0+	1.1−	
1975 10 01	675	0.0	0.3−	1996 05 09	897	0.7+	0.7+	2000 03 08	704	0.0	0.4+
1975 10 02	675	0.2+	0.2+	1997 10 27	688	0.0	0.7+	2000 03 11	704	0.3+	0.5+
1975 10 15	675	(4.3− 2.6−)	1997 10 27	688	0.1−	0.6+	2000 03 11	704	0.1+	0.2+	
1975 10 16	675	(9.0− 2.6−)	1997 10 28	688	0.6+	0.5−	2000 03 11	704	0.2+	0.8+	
1996 04 22	900	0.7−	0.4−	1997 10 28	688	0.2−	0.1+	2000 03 11	704	1.2+	0.6+
1996 04 22	900	0.1+	0.7−	1999 01 21	561	0.8−	0.1+	2000 03 11	704	0.2+	1.8+
1996 04 24	900	0.2+	0.1−	1999 01 21	561	0.4−	0.1−	2000 03 14	608	0.3−	1.1−
1996 04 24	900	0.3−	0.1−	2000 02 08	704	0.1−	0.4−	2000 03 14	608	0.1−	0.8−
1996 04 26	900	0.6−	0.3+	2000 02 08	704	1.4−	0.2−	2000 03 14	608	0.6+	1.4−
1996 04 26	900	0.2−	0.3+	2000 02 08	704	1.1−	0.6+	2000 03 15	461	0.4+	0.3−
1996 04 27	900	0.9+	0.2+	2000 02 08	704	0.5−	0.3−	2000 03 15	461	0.7+	0.1−
1996 04 27	900	0.2+	0.2+	2000 02 08	704	0.1+	0.3+	2000 03 15	461	0.5+	0.2−
1996 05 06	900	0.7−	0.0	2000 03 08	704	0.1+	1.2+				
1996 05 06	900	0.3−	0.6−	2000 03 08	704	1.0−	0.4−				

(13904)* 1975 TJ₃ = 1981 AX₃ = 1989 WK₃ = 1998 RB₇₉

Discovered 1975 Oct. 3 by L. I. Chernykh at the Crimean Astrophysical Observatory.

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

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	75.46399	(2000.0)	P	Q	Williams
n	0.21342071	ω 33.64352	+0.35693129	−0.93039197	
a	2.7731818	Ω 35.64876	+0.82237867	+0.27058163	
e	0.2989793	i 8.23628	+0.44305009	+0.24729811	
P	4.62	H 13.5	G 0.15	U 1	

Residuals in seconds of arc

1975 10 03	095	0.5−	0.0	1998 10 17	699	0.4−	0.2+	1999 01 08	704	1.1−	0.6+
1975 10 13	095	1.1−	2.3+	1998 10 17	699	0.5−	0.0	1999 01 21	561	0.2+	0.8+
1975 11 01	095	(4.1+	6.4+)	1998 10 28	704	0.5−	0.4+	1999 01 21	561	0.5−	0.9+
1975 11 06	095	0.2−	0.8−	1998 10 28	704	1.3+	0.2−	1999 01 21	561	0.0	0.7+
1981 01 08	381	0.8+	1.8−	1998 10 28	704	0.5−	0.4−	1999 02 04	699	0.3−	0.2−
1981 01 08	381	0.6−	0.6−	1998 10 28	704	0.2−	1.4−	1999 02 04	699	0.4+	0.2−
1989 11 26	364(35.7+	6.3−)		1998 10 28	704	0.3−	0.2−	1999 02 04	699	1.4−	0.4−
1989 11 26	364(34.3+	8.4−)		1998 10 29	704	0.7+	0.0	2000 01 08	704	1.4+	0.5−
1989 12 01	364	1.5+	0.8+	1998 10 29	704	0.6+	1.0+	2000 01 08	704	0.5−	1.3−
1989 12 01	364	0.6−	0.9−	1998 10 29	704	0.4−	0.8+	2000 01 08	704	0.3−	0.4−
1998 09 14	704	0.6−	0.5−	1998 10 29	704	1.3+	1.3+	2000 01 08	704	0.3−	0.9−
1998 09 14	704	0.9−	0.3+	1998 10 29	704	0.2+	0.6+	2000 02 29	704	0.3−	0.4+
1998 09 14	704	0.6−	0.8−	1998 11 24	561	0.0	0.2+	2000 02 29	704	0.1+	1.0+
1998 09 18	704	0.3+	0.8+	1998 11 24	561	0.1+	0.4+	2000 02 29	704	0.1−	0.2−
1998 09 18	704	0.1+	0.2+	1998 11 24	561	0.2+	0.3+	2000 02 29	704	(0.6−	5.0−)
1998 09 18	704	0.4+	0.2+	1998 12 08	704	1.8−	1.4−	2000 03 08	704	0.3+	0.0
1998 09 18	704	0.4+	0.7+	1998 12 08	704	0.3+	1.6+	2000 03 08	704	0.3+	0.7+
1998 09 18	704	0.6+	0.6+	1998 12 08	704	0.3−	0.3+	2000 03 08	704	0.9+	0.2+
1998 09 21	699	0.4−	0.7+	1998 12 08	704	0.2−	1.1−	2000 03 08	704	0.6+	0.6+
1998 09 21	699	0.0	0.5+	1998 12 08	704	0.2−	0.6+	2000 03 08	704	0.5+	1.6+
1998 09 21	699	0.3+	0.5+	1998 12 14	561	0.0	0.6+	2000 03 10	461	0.1+	0.5+
1998 09 26	704	0.3−	0.2+	1998 12 14	561	0.0	0.4+	2000 03 10	461	0.5−	0.3+
1998 09 26	704	0.1−	0.4+	1998 12 14	561	0.0	0.6+	2000 03 10	461	0.9+	0.8+
1998 09 26	704	0.3−	1.3+	1998 12 15	699	0.6−	0.4−	2000 03 12	703	0.1−	0.9+
1998 09 26	704	0.3−	0.3−	1998 12 15	699	0.4−	0.2+	2000 03 12	703	0.2−	0.8+
1998 09 26	704	0.2−	0.1+	1998 12 15	699	0.6−	0.0	2000 03 12	703	0.7+	0.8+
1998 09 27	704	0.2−	0.4−	1998 12 18	327	0.9+	0.7−	2000 03 12	703	0.0	0.8+
1998 09 27	704	0.2−	0.8+	1998 12 18	327	0.6+	0.9−	2000 03 12	704	0.4+	0.9+
1998 09 27	704	0.3−	0.6+	1998 12 18	327	0.8+	0.4−	2000 03 12	704	0.5+	1.6+
1998 09 27	704	0.6−	0.2−	1999 01 08	704	(1.3−	3.0+)	2000 03 12	704	0.9+	1.6+
1998 09 27	704	0.4−	0.4−	1999 01 08	704	1.7−	1.0−	2000 03 12	704	1.4+	1.4+
1998 10 17	699	0.2−	0.1−	1999 01 08	704	0.9+	0.2−				

(13905)* 1976 QA = 1987 UU₁ = 1994 RD₂

Discovered 1976 Aug. 27 by S. J. Bus at Palomar.

Id. T. Kobayashi (*MPC* 24099), S. Nakano (*ibid.*)

2000 MAR. 20

M.P.C. 39025

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	190.24504		(2000.0)	P		Q	
<i>n</i>	0.27407816	ω	12.97045	+0.92344380	+0.38271042		
<i>a</i>	2.3472162	Ω	324.48704	-0.35623306	+0.82784808		
<i>e</i>	0.1954309	<i>i</i>	2.76335	-0.14265185	+0.41012230		
<i>P</i>	3.60	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 08 26	095	0.9-	0.3-	1998 11 21	704	0.6+	1.6-	2000 03 03	704	0.1+	0.3-
1976 08 27	675	0.3+	2.1+	1998 11 21	704	0.2+	1.5-	2000 03 03	691	0.3-	0.4-
1976 08 27	675	0.3-	1.3-	1998 11 21	704	0.6+	1.3-	2000 03 03	704	0.1-	0.8-
1976 08 27	675	0.1+	0.0	1998 11 24	704	0.6-	0.7+	2000 03 03	704	0.6-	0.8-
1976 08 28	675	0.5-	0.6+	1998 11 24	704	0.3+	0.3-	2000 03 03	691	0.3-	0.5-
1976 08 28	675	0.8+	1.6-	1998 11 24	704	0.5-	0.7+	2000 03 03	704	0.3-	0.9-
1976 08 30	675	0.1-	1.8+	1998 11 24	704	0.0	0.8+	2000 03 03	691	0.3-	0.3-
1976 08 30	675	(2.7+	1.0+)	1998 12 14	704	0.1+	0.2+	2000 03 04	704	0.1+	0.4+
1987 09 24	095	(2.8-	0.5+)	1998 12 14	704	0.4+	0.9-	2000 03 04	704	0.1+	0.5-
1987 10 18	399	(37.6+	10.8+)	1998 12 14	704	0.1+	0.2-	2000 03 04	704	0.1-	0.3-
1987 10 18	399	(35.8+	10.4+)	1998 12 14	704	1.9-	1.5-	2000 03 04	704	0.4+	0.2-
1987 10 18	399	(38.9+	12.7+)	1998 12 14	704	0.1-	1.8+	2000 03 04	704	0.2+	0.8-
1987 10 23	399	1.4+	0.7+	1998 12 17	704	0.4+	1.0+	2000 03 05	704	0.4+	0.2-
1987 10 23	399	1.4-	0.7+	1998 12 17	704	0.9-	1.2-	2000 03 05	704	0.5-	0.1-
1987 10 23	399	(4.3-	1.3+)	1998 12 17	704	0.3-	0.0	2000 03 05	704	0.2-	0.4+
1994 08 10	809	(3.4+	1.5-)	2000 02 02	704	(1.1+	2.6-)	2000 03 05	704	0.0	0.3+
1994 08 10	809	(2.6+	2.0-)	2000 02 02	704	0.1-	0.9-	2000 03 05	704	0.2-	0.1-
1994 08 10	809	1.6+	1.3-	2000 02 02	704	0.3-	0.3+	2000 03 10	691	0.2-	0.6-
1994 08 11	809	1.7+	0.9-	2000 02 02	704	0.3-	0.5-	2000 03 10	691	0.3-	0.7-
1994 08 11	809	1.4+	1.1-	2000 02 05	704	0.5+	0.3-	2000 03 10	691	0.4-	0.7-
1994 08 11	809	0.7+	1.8-	2000 02 05	704	0.2+	0.4+	2000 03 11	704	0.2-	0.5+
1994 09 01	399	0.7-	0.3+	2000 02 05	704	0.3+	0.8-	2000 03 11	704	0.4+	0.3+
1994 09 01	399	0.9-	0.0	2000 02 06	704	0.7-	0.5-	2000 03 11	704	0.5-	0.3-
1994 09 03	809	(3.0+	3.2+)	2000 02 06	704	0.1+	0.8+	2000 03 11	704	0.1+	0.7+
1994 09 03	809	(3.6+	3.1+)	2000 02 06	704	0.5+	0.8+	2000 03 11	704	0.2+	0.5-
1994 09 03	809	(3.6+	3.2+)	2000 02 26	703	0.1-	0.5-	2000 03 11	699	0.0	0.1+
1994 09 04	809	(3.8+	4.0+)	2000 02 26	703	1.6+	0.7+	2000 03 11	699	0.8-	0.3+
1994 09 04	809	(4.0+	4.2+)	2000 02 26	703	(0.6-	3.0+)	2000 03 11	699	0.5-	0.3+
1994 09 04	809	(3.0+	3.5+)	2000 02 26	703	0.6-	0.8+	2000 03 11	699	0.0	0.1+
1994 09 09	399	0.1-	1.1-	2000 02 29	704	0.3+	0.5-	2000 03 14	691	0.7-	0.3-
1994 09 09	399	0.3-	1.2-	2000 02 29	704	0.1+	0.1+	2000 03 14	691	0.6-	0.3-
1998 11 21	704	0.6+	0.2+	2000 02 29	704	0.3+	0.2-	2000 03 14	691	0.4-	0.1-
1998 11 21	704	0.7+	0.1-	2000 02 29	704	0.5+	0.2-				

(13906)* 1977 QD₂ = 1977 TP₂ = 1984 SH₁

Discovered 1977 Aug. 20 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. B. G. Marsden (d, *MPC* 9153), E. Bowell (*MPC* 9213)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	157.74253		(2000.0)	P		Q	
<i>n</i>	0.28253486	ω	0.16922	+0.98620982	+0.16467891		
<i>a</i>	2.3001422	Ω	350.30533	-0.15195777	+0.86160999		
<i>e</i>	0.1915438	<i>i</i>	5.61062	-0.06556703	+0.48011361		
<i>P</i>	3.49	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1977 08 20	095	0.4+	0.3+	1998 09 15	699	0.4+	0.0	1998 12 09	704	0.2+	0.3+
1977 08 21	095	1.8-	1.2+	1998 09 15	699	0.5+	0.2+	1998 12 09	704	0.1-	0.1+
1977 08 23	095	2.0-	0.8+	1998 09 18	704	0.4+	0.3+	1999 01 05	699	0.6+	0.2-
1977 09 09	675	0.2+	0.8+	1998 09 18	704	0.6+	0.1+	1999 01 05	699	0.3-	0.4+
1977 09 10	675	0.4+	0.5+	1998 09 18	704	0.2+	1.0+	1999 01 05	699	1.3-	0.8-
1977 10 07	095	1.4-	0.1-	1998 09 18	704	0.3+	0.2+	1999 01 08	704	1.3+	0.7+
1984 09 25	688	0.1+	0.2-	1998 09 18	704	0.8+	0.1+	1999 01 08	704	(1.0+	2.6+)
1984 09 25	688	1.5+	0.5-	1998 09 18	343	0.5+	0.5-	1999 01 08	704	0.2-	0.5+
1984 09 27	046	1.0+	1.8-	1998 09 18	343	0.4+	0.6-	1999 01 08	704	1.1-	0.3-
1984 09 27	046	0.3-	0.4-	1998 09 19	343	0.2-	0.6+	2000 02 04	704	0.2-	0.3+
1984 09 28	688	1.6-	0.2-	1998 09 19	343	1.4+	1.2-	2000 02 04	704	1.2+	0.4+

1984 09 28	688	(3.2+	1.6-)	1998 09 25	704	1.5-	0.6+	2000 02 04	704	0.4+	0.3+
1984 09 29	046	(5.0+	0.9+)	1998 09 25	704	1.3-	0.8-	2000 02 04	704	0.7+	0.8+
1984 09 29	046	(2.2+	3.0+)	1998 09 25	704	1.2+	0.2-	2000 02 11	704	0.1+	0.3+
1984 09 30	046	0.5+	1.5-	1998 09 25	704	0.5+	0.5+	2000 02 11	704	0.1+	0.8+
1984 09 30	046	1.8+	1.7-	1998 09 25	704	0.9-	1.0-	2000 02 11	704	0.3-	0.0
1990 03 27	675	0.6-	1.8-	1998 09 26	704	1.5-	0.3+	2000 02 11	704	0.2-	0.2-
1991 09 10	675	0.7-	0.3-	1998 09 26	704	1.1-	0.0	2000 02 11	704	0.6-	0.2-
1991 09 10	675	1.0-	0.5-	1998 09 26	704	0.3-	0.4+	2000 02 14	049	0.5+	0.7-
1991 09 11	095	(0.8-	7.4-)	1998 09 26	704	1.6-	0.4-	2000 02 14	049	0.6+	0.4-
1991 09 11	095	1.0+	0.8+	1998 09 26	704	0.5-	0.2-	2000 02 14	049	0.2+	0.5-
1991 09 13	801	0.1+	0.4+	1998 09 27	704	0.4-	0.0	2000 02 14	049	0.5+	0.5-
1991 09 13	801	0.0	0.4+	1998 09 27	704	1.0-	0.4+	2000 02 14	049	0.2+	0.1-
1991 09 17	675	0.4-	0.7-	1998 09 27	704	1.0-	0.6+	2000 02 14	049	0.6+	0.5-
1991 09 17	675	0.2-	0.1-	1998 09 27	704	1.1-	0.6+	2000 02 29	704	0.6+	0.1+
1991 09 28	894	0.0	0.8-	1998 09 27	704	0.7-	0.1+	2000 02 29	704	0.4+	0.6+
1991 09 28	894	0.1+	0.2+	1998 10 14	704	0.0	0.7+	2000 02 29	704	0.2+	0.5+
1991 10 02	033	0.6+	0.6+	1998 10 14	704	0.3-	0.2-	2000 02 29	704	0.2+	0.6+
1991 10 02	033	0.3+	0.4+	1998 10 14	704	0.8+	0.0	2000 02 29	704	0.3+	0.3-
1991 10 03	033	1.4+	0.5+	1998 10 14	704	0.6+	0.0	2000 03 03	704	0.1-	0.3+
1991 10 08	033	0.5+	0.4+	1998 10 14	704	0.7-	0.4-	2000 03 03	704	0.4-	0.1+
1991 10 08	033	0.3+	0.7+	1998 10 14	699	(0.1+	3.1-)	2000 03 03	704	0.4-	0.5+
1991 10 09	033	0.1-	0.3+	1998 10 14	699	(0.1-	2.5-)	2000 03 03	704	0.3-	0.4+
1991 10 11	801	0.7+	0.4+	1998 10 14	699	(0.6+	2.4-)	2000 03 03	704	0.1-	0.6+
1991 10 11	801	0.8+	0.4+	1998 10 15	704	0.7+	0.1-	2000 03 05	704	0.6-	0.1+
1991 10 31	033	0.0	1.1+	1998 10 15	704	0.4-	0.6+	2000 03 05	704	0.0	0.3+
1991 10 31	033	0.1+	0.1-	1998 10 15	704	0.6+	1.2+	2000 03 05	704	0.5-	0.2-
1991 11 04	033	1.2+	0.4+	1998 10 15	704	0.2+	0.0	2000 03 05	704	0.1-	0.0
1997 04 07	704	0.4-	0.0	1998 10 15	704	1.2+	0.0	2000 03 05	704	0.3-	0.0
1997 04 07	704	0.1+	0.4+	1998 10 28	704	1.3+	0.1-	2000 03 06	704	0.1-	0.4+
1998 08 02	699	0.3+	0.4+	1998 10 28	704	0.5+	1.3-	2000 03 06	704	0.3-	0.6+
1998 08 02	699	0.9-	0.0	1998 10 28	704	0.2+	0.3+	2000 03 06	704	0.7+	0.8+
1998 08 02	699	0.2-	0.1-	1998 10 28	704	0.7-	0.1-	2000 03 06	704	0.7-	0.6+
1998 09 14	704	0.1-	0.2+	1998 10 28	704	0.7-	0.2-	2000 03 11	704	0.0	0.5-
1998 09 14	704	0.1+	0.0	1998 12 09	704	0.0	1.7-	2000 03 11	704	0.0	0.5-
1998 09 14	704	0.4-	0.2-	1998 12 09	704	0.0	0.4-	2000 03 11	704	0.2-	0.1-
1998 09 15	699	0.2+	0.1-	1998 12 09	704	0.4-	1.0-	2000 03 11	704	0.0	0.2-

(13907)* 1977 RS₁₇ = 1980 FP₈ = 1992 RN₄ = 1995 DE₁₂ = 1998 XU₇₈

Discovered 1977 Sept. 9 by C. M. Olmstead at Palomar.

Id. S. Nakano (*MPC* 34172)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	139.49102		(2000.0)	P		Q	
<i>n</i>	0.19547328	ω	205.16858	+0.93768861	-0.34746516		
<i>a</i>	2.9404319	Ω	175.16113	+0.32421895	+0.87196232		
<i>e</i>	0.0272396	<i>i</i>	1.92585	+0.12498859	+0.34489082		
<i>P</i>	5.04	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 09 09	675	0.0	0.4-	2000 01 27	691	0.6-	0.5-	2000 02 29	704	0.8+	0.2+
1977 09 10	675	0.2+	0.6-	2000 01 27	691	(4.0-	0.8-)	2000 02 29	704	0.2+	0.6+
1980 03 23	809	0.2-	0.7-	2000 02 02	704	0.6+	0.8-	2000 02 29	704	0.3+	0.1-
1992 09 02	809	0.9+	0.2-	2000 02 02	704	0.0	0.0	2000 02 29	704	0.7+	0.3-
1992 09 02	809	0.9+	0.8-	2000 02 02	704	0.4+	0.6-	2000 03 03	704	0.0	0.3+
1992 09 02	809	0.8+	0.8-	2000 02 02	704	0.3-	1.1-	2000 03 03	704	0.5-	0.6+
1992 09 03	809	1.3-	1.1-	2000 02 02	704	0.7-	0.1-	2000 03 03	704	0.3-	0.4+
1995 02 25	098	(4.2-	1.3-)	2000 02 02	691	0.2-	0.4-	2000 03 03	704	0.5-	0.5+
1995 02 25	098	(4.2-	1.2-)	2000 02 02	691	0.2-	0.7-	2000 03 03	704	0.6-	0.6+
1995 02 25	691	(0.2-	2.9-)	2000 02 02	691	0.2+	0.8-	2000 03 08	691	0.0	0.1-
1995 02 25	691	0.3-	0.1-	2000 02 05	704	0.4-	0.1+	2000 03 08	691	0.0	0.2-
1995 02 25	691	0.3-	0.1-	2000 02 05	704	0.1+	0.2-	2000 03 08	691	0.1-	0.2-
1995 02 26	098	(3.7-	0.4-)	2000 02 05	704	0.8+	0.5-	2000 03 09	691	0.3-	0.3-
1995 02 26	098	(2.8-	1.5-)	2000 02 05	691	0.7-	0.4-	2000 03 09	691	0.6-	0.6+
1995 02 27	098	0.6+	0.2+	2000 02 05	691	0.5-	1.2-	2000 03 09	691	0.6+	0.2+
1995 02 27	098	0.1+	1.1-	2000 02 05	691	0.6-	0.3-	2000 03 10	704	0.1+	0.2+
1998 11 28	327	0.5-	0.2+	2000 02 06	704	0.2+	0.1-	2000 03 10	704	0.0	0.4+
1998 11 28	327	0.2-	0.2-	2000 02 06	704	0.4+	0.1+	2000 03 10	704	0.4+	0.7+
1998 11 28	327	0.3-	0.0	2000 02 06	704	0.4+	1.1-	2000 03 10	704	0.6+	1.0+

1998 12 15	704	0.3+	1.6+	2000 02 06	704	0.3+	0.1-	2000 03 10	704	0.7+	0.9+
1998 12 15	704	1.2+	1.0-	2000 02 14	049	0.2-	0.6-	2000 03 11	704	0.1+	0.1+
1998 12 15	704	1.7+	0.4+	2000 02 14	049	0.2-	0.9-	2000 03 11	704	0.2+	0.1+
1998 12 15	704	0.3-	1.1-	2000 02 14	049	0.5-	0.7-	2000 03 11	704	0.2+	0.3+
1998 12 15	704	2.0+	1.3-	2000 02 26	703	0.0	0.1-	2000 03 11	704	0.3+	0.3+
1998 12 22	704	1.5-	1.5+	2000 02 26	703	0.0	0.6+	2000 03 11	704	0.2-	0.2+
1998 12 22	704	0.4+	1.4-	2000 02 26	703	0.3+	0.6+	2000 03 11	699	0.0	0.5+
1998 12 22	704	0.9-	1.0+	2000 02 26	703	1.1-	0.1+	2000 03 11	699	0.4-	0.2+
1998 12 22	704	0.8-	1.0+	2000 02 26	691	0.7-	0.2-	2000 03 11	699	0.4-	0.8+
1998 12 22	704	1.4-	0.5+	2000 02 26	691	0.7-	0.1-	2000 03 11	699	0.3-	0.6+
2000 01 27	691	1.8+	1.4-	2000 02 26	691	0.6-	0.4-				

(13908)* 1978 RH₉ = 1978 RG₁₆ = 1991 PR₃

Discovered 1978 Sept. 2 by C.-I. Lagerkvist at the European Southern Observatory.

Id. S. Nakano (d, *MPC* 11142), B. G. Marsden (*MPC* 18802)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
230.21987		(2000.0)			
<i>n</i>	0.30094941	ω	151.71222	+0.51580953	+0.85591640
<i>a</i>	2.2053307	Ω	149.29749	-0.79894145	+0.49605794
<i>e</i>	0.1422360	<i>i</i>	4.12307	-0.30924601	+0.14606037
<i>P</i>	3.27	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1978 09 02	809	0.5-	0.7-	1998 11 10	704	0.4+	0.6-	2000 02 29	704	0.4-	0.0
1978 09 02	809	0.0	0.9-	1998 11 10	704	1.0+	0.5+	2000 02 29	704	0.3-	0.4+
1978 09 02	809	0.4+	0.7-	1998 11 10	704	0.3-	0.4+	2000 02 29	704	0.1-	1.0+
1978 09 02	809	0.3-	0.5-	1998 11 10	704	0.0	0.4+	2000 02 29	704	0.8-	0.5+
1978 09 02	809	0.0	1.2-	1998 11 10	704	0.2+	0.8-	2000 03 03	704	0.1+	0.1+
1978 09 06	809	0.0	0.3+	1998 11 11	704	0.0	0.3-	2000 03 03	704	0.1-	0.0
1978 09 10	809	1.5+	0.4+	1998 11 11	704	0.6+	0.2-	2000 03 03	704	0.4-	0.1-
1991 08 03	809	1.6+	1.3+	2000 02 01	049	0.9+	1.0-	2000 03 03	704	0.1-	0.1+
1991 08 03	809	0.7+	0.5+	2000 02 01	049	0.6+	1.2-	2000 03 03	704	0.4-	0.4-
1991 08 03	809	0.4+	1.5+	2000 02 01	049	0.6+	0.3-	2000 03 11	699	0.4-	0.2+
1991 08 05	809	(3.0-	0.4+)	2000 02 06	704	0.2-	0.1+	2000 03 11	699	0.1+	0.0
1991 08 05	809	(3.4-	0.8+)	2000 02 06	704	0.4-	0.2-	2000 03 11	699	0.9-	0.2-
1991 08 05	675	0.8-	0.9-	2000 02 06	704	0.0	0.2-	2000 03 11	704	0.4+	0.0
1991 08 05	809	(2.7-	1.1+)	2000 02 06	704	0.7-	0.4+	2000 03 11	699	0.0	0.8+
1991 08 05	675	0.3-	1.1-	2000 02 10	049	0.7+	1.0-	2000 03 11	704	0.4+	0.0
1991 08 07	675	0.9-	0.4-	2000 02 10	049	0.7+	1.0-	2000 03 11	699	0.2-	0.0
1991 08 07	675	0.5-	1.3-	2000 02 10	049	0.4+	1.1-	2000 03 11	699	0.1-	0.2+
1998 10 29	704	0.2-	0.6+	2000 02 27	649	0.2+	0.8-	2000 03 11	704	0.2+	0.1+
1998 10 29	704	0.7-	0.6-	2000 02 27	649	0.3-	0.0	2000 03 11	704	0.0	0.4+
1998 10 29	704	0.2-	0.0	2000 02 27	649	0.7-	0.8-	2000 03 11	699	0.5-	0.1+
1998 10 29	704	0.5-	0.1+	2000 02 28	120	0.5-	1.5-	2000 03 11	699	0.1-	0.3+
1998 10 29	704	0.3-	0.7+	2000 02 28	120	0.4+	0.3-	2000 03 11	704	0.5+	0.4+

(13909)* 1978 VD₈ = 1987 KJ₄ = 1998 SG₁₂₈

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

Id. A. Doppler (*MPC* 33218)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
207.77457		(2000.0)			
<i>n</i>	0.29064990	ω	252.82400	+0.65537485	+0.75374732
<i>a</i>	2.2571267	Ω	58.22436	-0.66950801	+0.60943527
<i>e</i>	0.0544768	<i>i</i>	3.26814	-0.34963242	+0.24587318
<i>P</i>	3.39	<i>H</i>	15.6	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1978 11 05	675	1.0+	0.3+	1998 10 10	699	0.4-	0.4-	2000 02 11	704	1.1+	0.6-
1978 11 06	675	(3.3+	0.0)	1998 10 10	699	0.4-	0.5+	2000 02 25	703	0.7+	0.2+
1978 11 07	675	0.6+	0.7+	1998 10 19	699	1.3+	0.1-	2000 02 25	703	1.1-	0.7+
1978 11 08	675	0.6-	0.1-	1998 10 19	699	0.8+	1.6+	2000 02 25	703	0.4-	1.6+
1978 11 29	675	(3.8+	0.4-)	1998 10 19	699	0.0	0.1+	2000 02 25	703	0.8-	0.2-
1978 11 30	675	1.0-	0.5-	1998 10 20	120	1.5+	1.7-	2000 03 05	704	0.7+	0.1+
1987 05 30	413	1.4+	0.2-	1998 10 20	120	0.2+	0.1-	2000 03 05	704	0.8+	0.0

1987 05 30	413	1.4-	0.2+	2000 02 01	703	1.4-	0.0	2000 03 05	704	1.0+	0.1-
1998 09 26	704	0.8-	0.5+	2000 02 01	703	0.1+	0.1+	2000 03 05	704	0.4+	0.5+
1998 09 26	704	2.0-	0.1+	2000 02 01	703	0.4+	0.7+	2000 03 11	699	1.4-	0.3+
1998 09 26	704	0.2+	0.1+	2000 02 01	703	(2.1+	0.1-)	2000 03 11	699	0.7+	0.6-
1998 09 26	704	0.8+	1.0-	2000 02 04	704	1.0+	0.0	2000 03 11	699	0.3+	0.4-
1998 09 26	704	0.1+	0.3+	2000 02 04	704	0.4-	0.1-	2000 03 11	699	0.7-	0.1-
1998 09 27	704	0.6-	0.1-	2000 02 04	704	0.5+	0.3+	2000 03 12	704	1.0-	0.2-
1998 09 27	704	0.1-	0.2-	2000 02 04	704	0.2+	0.4-	2000 03 12	704	0.4-	1.2-
1998 09 27	704	0.0	0.3+	2000 02 04	704	0.2+	0.5-	2000 03 12	704	0.2-	0.0
1998 09 27	704	0.8-	0.8+	2000 02 11	704	0.1-	0.3-	2000 03 12	704	0.2-	0.1-
1998 09 27	704	0.8+	1.0-	2000 02 11	704	0.4-	0.7+				
1998 10 10	699	0.5-	0.0	2000 02 11	704	0.4+	0.6-				

(13910)* 1979 MH₃ = 1979 ON₆ = 1987 UT₃ = 1998 MD₃₆ = 2000 AS₆₁

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

Id. H. Oishi (d, *MPC* 11826), M. E. Sansaturio (*MPC* 38430)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
94.57697		(2000.0)			
<i>n</i>	0.25962644	ω	259.59433	+0.94009597	-0.32858285
<i>a</i>	2.4335304	Ω	119.53635	+0.33909985	+0.87386793
<i>e</i>	0.2159828	<i>i</i>	5.99345	+0.03508368	+0.35831292
<i>P</i>	3.80	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1979 06 24	413	1.8-	0.9+	2000 01 06	704	0.6-	0.1+	2000 02 05	704	0.1+	0.5+
1979 06 25	413	(2.6-	0.4+)	2000 01 11	691	0.4-	0.5-	2000 02 05	704	0.2+	0.9+
1979 07 24	675	(2.6+	1.3-)	2000 01 11	691	0.2-	0.7-	2000 02 05	704	0.7+	0.3+
1979 07 24	413	0.6-	0.4-	2000 01 11	691	0.4-	0.7-	2000 02 05	704	0.1+	0.7+
1979 07 27	675	2.2+	0.7-	2000 02 03	704	0.1-	0.4+	2000 02 06	704	0.1-	0.0
1987 10 26	054	0.0	0.9+	2000 02 03	704	0.0	0.3+	2000 02 06	704	0.1+	0.3+
1987 10 26	054	0.4-	0.1+	2000 02 03	704	0.1+	0.1-	2000 02 06	704	0.3+	0.3-
1998 06 24	704	0.5+	0.3+	2000 02 03	704	0.5-	0.4-	2000 02 06	704	0.5+	0.6+
1998 06 24	704	0.6-	0.4+	2000 02 05	704	0.1-	0.4+	2000 02 06	704	0.5+	0.3-
1998 06 24	704	1.5-	0.4+	2000 02 05	704	0.2-	0.2-	2000 02 08	704	0.1-	0.8-
1998 06 24	704	1.6+	0.4+	2000 02 05	704	0.4-	0.2+	2000 02 08	704	0.2+	0.5+
1998 06 26	704	0.4-	0.1-	2000 02 05	704	0.0	0.2+	2000 02 08	704	0.1+	0.6-
1998 06 26	704	0.5-	1.5+	2000 02 05	704	0.4-	0.4+	2000 02 08	704	0.1-	0.8+
1998 06 26	704	0.7-	0.6-	2000 02 05	704	0.3-	0.3-	2000 02 08	704	0.1+	0.5-
1998 06 26	704	1.4+	0.2-	2000 02 05	704	0.1-	0.9+	2000 02 08	704	0.1-	0.1+
2000 01 04	704	0.4+	0.9+	2000 02 05	704	1.0+	0.6-	2000 02 08	704	1.2+	0.3-
2000 01 04	704	0.6-	0.2+	2000 02 05	704	0.3+	1.1+	2000 02 08	704	0.4+	0.5+
2000 01 04	704	0.4+	0.2+	2000 02 05	704	1.1-	0.0	2000 02 08	704	0.1-	0.6-
2000 01 04	704	0.4-	0.5+	2000 02 05	704	0.2+	0.7+	2000 02 08	704	0.9+	0.9+
2000 01 04	704	0.6-	1.3-	2000 02 05	704	1.4-	0.9+	2000 02 11	704	0.1+	0.1-
2000 01 06	704	0.2-	1.7-	2000 02 05	704	0.1-	0.4+	2000 02 11	704	0.1-	0.0
2000 01 06	704	0.1-	0.0	2000 02 05	704	0.2+	0.7+	2000 02 11	704	1.0+	0.2-
2000 01 06	704	0.2-	0.8-	2000 02 05	704	0.1+	0.3+	2000 02 11	704	0.3+	1.0-
2000 01 06	704	0.4-	0.1-	2000 02 05	704	0.4-	0.3+	2000 02 11	704	0.5+	1.2-

(13911)* 1979 QT₁ = 1994 TP₁₁

Discovered 1979 Aug. 22 by C.-I. Lagerkvist at the European Southern Observatory.

Id. T. Kobayashi (*MPC* 24383)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

2000 MAR. 20

M.P.C. 39027

1979 08 23	809	0.3+	0.7+	2000 01 16	049	0.1+	0.8+	2000 03 10	704	0.1+	0.5+
1979 08 26	809	0.6-	0.9+	2000 01 16	049	0.8-	0.8+	2000 03 10	704	0.2+	0.3+
1979 08 26	809	0.5-	0.1+	2000 01 16	049	0.3-	0.5+	2000 03 10	704	0.3-	0.5+
1979 08 26	809	0.7-	0.1+	2000 02 02	704	0.0	1.3+	2000 03 11	704	0.0	0.2-
1979 08 30	809	0.9+	0.5-	2000 02 02	704	0.2+	0.4+	2000 03 11	704	0.1-	0.2+
1979 08 30	809	0.6-	1.2-	2000 02 02	704	0.9+	0.5+	2000 03 11	704	0.4+	1.2-
1994 10 10	691	0.2-	0.2+	2000 02 08	704	0.4-	0.8+	2000 03 11	704	0.8-	0.6+
1994 10 10	691	0.5-	0.6+	2000 02 08	704	0.9+	0.8-	2000 03 11	704	0.5-	0.2-
1994 10 10	691	0.3-	0.6+	2000 02 08	704	0.2+	0.5-	2000 03 11	704	0.5+	0.2+
1994 10 12	691	0.0	1.2+	2000 02 08	704	0.9+	0.8-	2000 03 11	704	0.5+	0.6+
1994 10 12	691	0.2-	0.8+	2000 02 08	704	(1.3+	2.1-)	2000 03 11	704	0.2+	0.5+
1994 10 12	691	0.2-	0.6+	2000 03 08	704	0.1+	0.3-	2000 03 11	704	0.6+	0.8+
1997 08 10	691	0.0	0.6+	2000 03 08	704	0.2-	0.2-	2000 03 11	704	0.1+	0.6+
1997 08 10	691	0.1-	0.5+	2000 03 08	704	0.0	0.1-				

(13912)* 1979 QA₂ = 1993 FW₄₆

Discovered 1979 Aug. 22 by C.-I. Lagerkvist at the European Southern Observatory.

Id. S. Harada (*MPC* 23778)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		282.25546		(2000.0)		P		Q	
<i>n</i>		0.26660930	ω	204.11608		-0.70359835		+0.71055093	
<i>a</i>		2.3908511	Ω	21.17055		-0.64822919		-0.63709174	
<i>e</i>		0.1425285	<i>i</i>	1.29618		-0.29111556		-0.29871641	
<i>P</i>		3.70	<i>H</i>	14.3		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1979 08 22	809	0.2-	0.3-	1998 09 27	704	1.8-	0.2-	2000 01 30	704	0.3-	0.0
1979 08 22	809	1.1+	0.4+	2000 01 04	704	0.5-	0.1-	2000 01 30	704	1.0-	0.4+
1979 08 22	809	0.3-	0.5-	2000 01 04	704	0.0	0.1-	2000 01 30	704	0.1-	0.5+
1979 08 23	809	0.5-	0.3+	2000 01 04	704	0.1-	0.2+	2000 01 30	049	0.3+	1.1-
1979 08 23	809	1.2-	0.6-	2000 01 04	704	0.0	0.0	2000 01 31	049	0.3+	1.2-
1979 08 26	809	0.3-	0.9+	2000 01 04	704	0.2+	0.1-	2000 01 31	049	(1.5+	2.5-)
1979 08 26	809	0.2+	1.1+	2000 01 05	699	0.1+	1.3+	2000 01 31	704	0.0	0.4+
1979 08 26	809	0.0	1.7+	2000 01 05	699	1.2+	1.2+	2000 01 31	704	0.6-	0.0
1993 03 19	809	0.6-	0.7+	2000 01 05	699	0.8+	0.6-	2000 01 31	704	0.7-	0.8+
1993 03 20	809	0.6-	0.8+	2000 01 06	704	0.5+	0.7+	2000 02 11	704	0.5-	0.7+
1993 03 24	809	1.4+	0.9-	2000 01 06	704	0.5+	0.0	2000 02 11	704	0.2-	0.2-
1998 09 26	704	0.4+	0.3-	2000 01 06	704	0.1+	0.5+	2000 02 11	704	0.4-	0.1+
1998 09 26	704	0.6+	0.3+	2000 01 06	704	0.1+	0.4+	2000 02 11	704	0.3+	0.5+
1998 09 26	704	1.1+	0.7-	2000 01 06	704	0.1-	0.5+	2000 02 11	704	0.3+	0.0
1998 09 26	704	0.2+	0.0	2000 01 16	049	0.3-	0.6-	2000 03 04	704	0.1+	0.1-
1998 09 26	704	0.0	0.5+	2000 01 16	049	0.0	0.2-	2000 03 04	704	0.6+	0.4-
1998 09 27	704	0.7+	0.4-	2000 01 16	049	0.2-	0.4-	2000 03 04	704	0.1+	1.0+
1998 09 27	704	0.4+	0.2+	2000 01 27	049	0.4+	0.4-	2000 03 04	704	0.7+	0.5-
1998 09 27	704	0.2-	0.3-	2000 01 28	049	0.3+	0.4-	2000 03 04	704	1.1-	0.1-
1998 09 27	704	0.9-	0.4-	2000 01 28	049	0.3+	0.2-				

(13913)* 1979 SO = 1993 TD₁₂

Discovered 1979 Sept. 25 by A. Mrkos at Kleť.

Id. G. V. Williams (*MPC* 22808)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		150.30529		(2000.0)		P		Q	
<i>n</i>		0.21312546	ω	350.36478		+0.99960621		+0.01805494	
<i>a</i>		2.7757424	Ω	8.68744		-0.00416471		+0.85249450	
<i>e</i>		0.2293639	<i>i</i>	8.17623		-0.02775030		+0.52242430	
<i>P</i>		4.62	<i>H</i>	13.5		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 09 24	095	(2.7-	6.9+)	1998 11 16	704	0.6+	0.3-	1999 01 16	046	0.2+	0.2+
1979 09 24	095	1.4+	1.8-	1998 11 16	704	0.4+	0.6+	2000 02 11	704	0.2+	0.7-
1979 09 25	046	1.1+	0.0	1998 11 16	704	0.7+	0.0	2000 02 11	704	0.1-	0.3+
1979 09 25	046	0.5+	0.7-	1998 11 16	704	0.4+	0.7+	2000 02 11	704	0.6-	1.3+
1979 09 26	046	0.8+	0.5-	1998 11 24	046	0.3-	0.4-	2000 02 11	704	0.2-	0.5+
1979 09 26	046	0.9+	1.4-	1998 11 24	046	0.3-	0.4-	2000 02 11	704	0.2+	0.9+

1979 09 27	046	0.2-	1.0-	1998 11 24	046	0.3-	0.4-	2000 03 02	703	0.0	0.5-
1979 09 27	046	(3.2+	0.7-)	1998 11 25	046	0.3-	0.9-	2000 03 02	703	0.4-	1.0-
1979 10 12	046	1.2-	0.6+	1998 11 25	046	0.3-	1.3-	2000 03 02	703	0.3-	0.3+
1979 10 12	046	0.8-	1.0+	1998 11 25	046	0.4-	0.7-	2000 03 02	703	0.3+	0.1-
1979 10 19	046	0.4+	0.3-	1998 12 08	046	0.0	0.5+	2000 03 05	704	0.5+	0.0
1979 10 19	046	0.1-	0.4-	1998 12 08	046	0.2+	0.4+	2000 03 05	704	0.3+	0.4-
1993 09 18	095	1.0-	1.7+	1998 12 08	046	0.1-	0.4+	2000 03 05	704	0.1+	0.0
1993 09 18	095	(0.6+	2.2-)	1998 12 09	046	0.1+	0.5+	2000 03 05	704	0.4+	0.6-
1993 09 25	095	0.7+	0.9+	1998 12 14	704	0.6+	0.2+	2000 03 05	704	0.4+	0.3-
1993 10 10	675	0.6-	0.5-	1998 12 14	704	0.3+	0.2+	2000 03 09	704	0.0	0.0
1993 10 10	675	0.1-	0.2-	1998 12 14	704	0.8-	0.2+	2000 03 09	704	0.2+	0.0
1993 10 10	095	(4.2+	4.7-)	1998 12 14	704	0.5+	0.5-	2000 03 09	704	0.4-	0.4+
1993 10 10	095	(0.4+	3.5-)	1998 12 14	704	1.1-	1.5-	2000 03 09	704	0.2-	0.7+
1993 10 13	675	0.2-	0.3-	1998 12 17	704	0.1+	0.4+	2000 03 09	704	0.1-	0.5+
1993 10 13	675	1.0+	1.4-	1998 12 17	704	0.2+	0.6+	2000 03 11	699	0.4+	0.0
1993 10 14	675	0.1-	0.1-	1998 12 17	704	0.9+	0.7+	2000 03 11	699	0.4-	0.1+
1993 10 14	675	0.3-	1.1+	1998 12 17	704	0.6-	0.3-	2000 03 11	699	0.1-	0.2-
1993 10 15	675	0.1+	0.2-	1998 12 17	704	0.3-	0.6+	2000 03 11	699	0.6-	0.3-
1998 09 29	704	0.6-	0.4-	1999 01 06	046	0.3+	0.3+	2000 03 12	704	0.9-	1.1-
1998 09 29	704	0.5-	0.3+	1999 01 06	046	0.1+	0.3+	2000 03 12	704	0.4-	1.6-
1998 09 29	704	1.2-	1.6+	1999 01 06	046	0.0	0.4+	2000 03 12	704	0.7-	1.6-
1998 09 29	704	0.0	0.9+	1999 01 16	046	0.0	0.3+	2000 03 12	704	(0.6+	2.3-)
1998 11 16	704	0.9+	1.6-	1999 01 16	046	0.1-	0.2+	2000 03 12	704	0.4-	1.7-

(13914)* 1980 LC₁ = 1982 BD₁₁ = 1989 WV₅

Discovered 1980 June 11 by C. S. Shoemaker at Palomar.

Id. S. Nakano (*MPC* 33672), N. S. Chernykh (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		228.53510		(2000.0)		P		Q	
<i>n</i>		0.23825321	ω	232.34887		+0.85840803		+0.45788721	
<i>a</i>		2.5769750	Ω	99.31315		-0.36497487		+0.86194782	
<i>e</i>		0.2713010	<i>i</i>	13.55245		-0.36045666		+0.21768155	
<i>P</i>		4.14	<i>H</i>	13.0		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1980 05 18	095	0.7-	2.0-	1999 01 09	411	0.1+	0.7+	1999 02 13	704	0.5-	0.2+
1980 06 11	675	(0.2+	2.4-)	1999 01 10	411	0.4+	0.2-	2000 01 07	704	0.4+	0.6-
1980 06 12	675	(4.0+	2.0+)	1999 01 10	411	0.1-	0.1+	2000 01 07	704	1.0-	0.9+
1980 06 18	675	0.4-	0.2-	1999 01 19	704	0.1-	0.0	2000 01 07	704	0.3-	0.1+
1980 06 19	675	1.6+	1.2+	1999 01 19	704	0.7+	1.8+	2000 01 07	704	0.9+	0.2-
1980 06 20	675	0.6-	0.4+	1999 01 19	704	(0.7-	2.2+)	2000 02 04	704	0.9+	1.8-
1982 01 20	095	(0.9-	2.5-)	1999 02 10	704	1.9-	0.9-	2000 02 04	704	0.5+	0.1+
1989 11 24	095	0.8+	1.2-	1999 02 10	704	0.1-	0.1-	2000 02 04	704	1.4+	0.7+
1998 12 21	704	1.6+	0.4-	1999 02 10	704	0.0	0.5+	2000 02 04	704	0.4-	0.6-
1998 12 21	704	0.2+	0.4+	1999 02 10	704	0.3+	0.9+	2000 02 04	704	0.1-	0.5+
1998 12 21	704	1.0-	0.2-	1999 02 10	704	1.0-	1.2+	2000 03 11	703	0.8-	0.1-
1998 12 21	704	1.3+	0.0	1999 02 13	704	0.3-	1.5-	2000 03 11	703	0.4-	0.1+
1998 12 21	704	0.9+	0.4+	1999 02 13	704	1.2-	0.6-	2000 03 11	703	1.3-	0.0
1999 01 09	411	0.7+	0.2-	1999 02 13	704	0.6-	1.4-	2000 03 11	703	0.5+	0.1-

(13915)* 1982 KH₁ = 1998 YD₁

Discovered 1982 May 27 by C. S. Shoemaker at Palomar.

Id. S. Nakano (*MPC* 33473)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		279.93

1982 05 18	675	1.0−	1.1−	1998 12 17	360	0.2+	0.0	2000 03 05	704	0.1+	0.1+
1982 05 24	675	2.0+	1.8+	1998 12 17	360	0.1+	0.0	2000 03 05	704	0.2+	0.1−
1982 05 27	675	1.8+	0.7+	1999 01 16	704	0.6+	1.6−	2000 03 05	704	0.1+	0.0
1993 12 17	691	0.5+	0.2−	1999 01 16	704	1.0−	0.8−	2000 03 05	704	0.1−	0.2−
1993 12 17	691	0.3+	0.1−	1999 01 16	704	0.1+	0.5+	2000 03 05	704	0.0	0.1−
1993 12 17	691	0.0	0.2−	1999 01 16	704	0.4−	1.1−	2000 03 11	718	0.8−	0.2−
1997 12 27	566	0.1+	0.3+	1999 01 16	704	0.2+	1.3−	2000 03 11	718	0.7−	0.3+
1997 12 27	566	0.5−	0.3+	2000 01 07	704	0.4−	0.2−	2000 03 11	718	0.2−	0.1+
1997 12 27	566	0.1−	0.0	2000 01 07	704	0.0	0.1−	2000 03 12	704	0.7+	0.4−
1998 12 14	704	0.3−	0.1−	2000 01 07	704	0.1+	0.4+	2000 03 12	704	0.2+	0.1+
1998 12 14	704	(2.1−	1.6−)	2000 01 07	704	0.0	0.1−	2000 03 12	704	0.2+	0.2+
1998 12 14	704	0.9−	0.3−	2000 01 07	704	0.5+	0.1−	2000 03 12	704	0.2+	0.3+
1998 12 14	704	0.1−	0.5−	2000 02 04	704	1.7+	1.4−	2000 03 12	704	0.5+	0.3+
1998 12 16	360	0.1−	0.1+	2000 02 04	704	0.6−	0.1+	2000 03 13	718	1.7−	0.4+
1998 12 16	360	0.0	0.1+	2000 02 04	704	1.7+	0.1−	2000 03 13	718	1.0−	0.7+
1998 12 16	360	0.2−	0.1+	2000 02 04	704	(2.9+	0.0)	2000 03 13	718	0.5−	1.2+
1998 12 17	704	0.9+	0.5−	2000 02 04	704	0.8+	0.4+				

(13916)* 1982 QA₂ = 1978 OE = 1986 VJ₃ = 1997 QW₁

Discovered 1982 Aug. 23 by M. Antal at the Piskésetető Station of the Konkoly Observatory.

Id. T. Urata (*MPC* 30755), S. Nakano (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i> 251.04238				(2000.0)			
				P			
<i>n</i> 0.25943137				Q			
<i>a</i> 2.4347501							
<i>e</i> 0.2460836							
<i>P</i> 3.80							

Residuals in seconds of arc

1978 07 30	414	0.3+	0.4+	1997 08 22	905	1.5−	0.2+	2000 02 02	704	0.1−	0.2+
1978 07 30	414	0.7+	0.3−	1997 08 27	905	0.3+	0.1+	2000 02 02	704	0.3+	1.6+
1982 08 23	561	1.0−	1.3+	1997 08 27	905	0.5+	0.0	2000 02 08	704	0.2+	0.1+
1982 08 23	561	0.2−	0.1−	1997 08 30	905	0.4−	1.3−	2000 02 08	704	0.6+	0.1−
1982 08 24	561	0.6−	1.4+	1997 08 30	905	0.1+	1.2−	2000 02 08	704	0.4−	0.1+
1982 08 24	561	0.6−	1.3+	1997 09 03	385	1.0+	0.5−	2000 02 08	704	0.3+	0.5−
1982 08 25	561	0.5−	0.2−	1997 09 28	905	0.1−	0.3+	2000 02 08	704	0.2−	0.5−
1982 08 25	561	1.0−	1.1+	1997 09 28	905	0.9+	0.3+	2000 02 27	118	0.2+	0.2−
1982 08 25	561	1.0−	0.7+	1997 09 28	905	2.0−	0.8−	2000 02 28	118	0.4+	0.2−
1982 08 26	561	1.4−	1.6+	1997 10 08	385	1.7+	0.4−	2000 03 08	704	0.0	0.9−
1986 11 04	010	2.0+	1.0−	1997 10 08	385	0.1+	1.3−	2000 03 08	704	0.3−	1.1+
1986 11 04	010	(3.8+	1.0−)	2000 02 02	704	0.5+	0.1+	2000 03 08	704	0.3−	1.1+
1986 11 04	010	1.0+	0.9−	2000 02 02	704	0.0	0.4+	2000 03 08	704	0.4−	1.6+
1997 08 22	905	1.3+	0.6+	2000 02 02	704	0.5+	0.1+	2000 03 08	704	0.1−	0.5−

(13917)* 1984 EQ = 1987 SO₁₈ = 1998 TZ₂₉

Discovered 1984 Mar. 6 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. T. B. Spahr (*MPC* 32918), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i> 46.88710				(2000.0)			
				P			
<i>n</i> 0.18302368				Q			
<i>a</i> 3.0723064							
<i>e</i> 0.1857933							
<i>P</i> 5.39							

Residuals in seconds of arc

1984 03 06	688	0.9+	0.8−	1999 12 15	704	(0.8−	3.2+)	2000 02 29	704	0.0	0.0
1984 03 06	688	0.9+	0.8+	1999 12 15	704	(0.2−	2.7+)	2000 03 04	704	0.0	0.2+
1984 03 09	688	1.2+	0.4+	1999 12 15	704	(0.1+	2.5+)	2000 03 04	704	0.4+	1.7−
1984 03 09	688	1.9−	0.5+	1999 12 15	704	0.5+	0.4−	2000 03 04	704	0.1−	0.4−
1984 03 29	688	(1.1−	3.3−)	2000 02 03	704	0.2−	0.2−	2000 03 04	704	0.1−	0.2+
1984 03 31	688	(2.4−	3.8−)	2000 02 03	704	0.4−	0.2−	2000 03 04	704	0.4+	0.5−
1984 03 31	688	(0.2+	4.6−)	2000 02 03	704	0.6−	0.1−	2000 03 04	704	0.4+	0.0
1987 09 16	095	0.5+	1.8−	2000 02 03	704	0.7−	0.7−	2000 03 04	704	0.2+	0.1−

1998 10 12	699	0.1+	0.2−	2000 02 03	704	0.8−	0.7−	2000 03 04	704	0.1+	0.2−
1998 10 12	699	0.2+	0.6−	2000 02 06	703	0.1−	0.1−	2000 03 04	704	0.2+	0.1−
1998 10 12	699	0.2+	1.0−	2000 02 06	703	0.3−	0.3−	2000 03 04	704	0.1−	0.3−
1998 10 12	399	0.3−	1.1+	2000 02 06	703	0.0	0.0	2000 03 05	704	0.1+	0.2+
1998 10 12	399	0.8+	1.2+	2000 02 06	703	0.1−	0.6+	2000 03 05	704	0.4−	0.3−
1998 10 20	399	0.7−	0.9+	2000 02 11	704	0.0	0.4+	2000 03 05	704	0.0	0.5−
1998 10 20	399	0.4−	1.3+	2000 02 11	704	0.2+	1.1+	2000 03 05	704	0.0	0.5−
1998 10 25	399	0.2−	1.1−	2000 02 11	704	0.3−	0.0	2000 03 05	704	0.4+	0.9−
1998 10 25	399	1.1+	0.2+	2000 02 11	704	0.2−	0.3+	2000 03 09	704	0.2+	0.3+
1998 10 28	399	1.5−	1.0−	2000 02 11	704	0.3−	0.3−	2000 03 09	704	0.2+	0.6+
1998 10 28	399	0.2+	0.9−	2000 02 25	703	0.2−	0.1+	2000 03 09	704	0.7−	0.4+
1998 11 20	699	0.3+	0.9+	2000 02 25	703	0.4−	0.0	2000 03 09	704	0.5+	0.5+
1998 11 20	699	0.8−	0.3+	2000 02 25	703	0.0	0.1−	2000 03 09	704	0.5+	0.5+
1998 11 20	699	0.5+	0.7+	2000 02 25	703	0.3−	0.1−	2000 03 11	699	0.0	0.2−
1999 11 16	703	0.3−	0.5+	2000 02 28	704	0.4+	0.4+	2000 03 11	699	0.1+	0.4−
1999 11 16	703	0.2+	0.1+	2000 02 28	704	0.1+	0.3+	2000 03 11	699	0.0	0.1−
1999 11 16	703	0.5−	0.7+	2000 02 28	704	0.0	0.4+	2000 03 11	699	0.4−	0.1−
1999 11 16	703	0.6−	1.0+	2000 02 28	704	0.2+	0.3+	2000 03 12	704	0.8+	0.1+
1999 12 08	704	0.7−	0.0	2000 02 28	704	0.0	0.7+	2000 03 12	704	0.3−	0.0
1999 12 08	704	0.1−	0.2+	2000 02 29	704	0.9+	0.1+	2000 03 12	704	0.1−	0.2+
1999 12 08	704	0.7−	0.0	2000 02 29	704	0.6+	0.1+	2000 03 12	704	0.5+	0.0
1999 12 08	704	0.7−	0.4−	2000 02 29	704	0.5+	0.2−	2000 03 12	704	0.4−	0.5−
1999 12 08	704	0.3+	0.5−	2000 02 29	704	0.1+	0.2−				

(13918)* 1984 QB = 1950 PO

Discovered 1984 Aug. 24 by T. Seki at Geisei.

Id. T. Kobayashi (*MPC* 24734)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i> 260.43438				(2000.0)			
				P			
<i>n</i> 0.23266861				Q			
<i>a</i> 2.6180474							
<i>e</i> 0.2190165							
<i>P</i> 4.24							

Residuals in seconds of arc

1950 08 14	760	0.1+	1.0+	1997 10 26	596	0.2+	0.3+	1999 02 13	704	0.9−	0.9+
1950 08 14	760	0.3+	1.8−	1997 10 26	596	0.0	0.6+	1999 02 13	704	0.7−	1.4−
1984 08 24	372	0.5+	0.6+	1997 11 19	127	0.4+	0.7−	1999 02 13	704	1.3+	0.4−
1984 08 28	372	0.1+	0.9+	1997 11 19	127	0.5+	0.8−	1999 02 13	704	0.6−	0.0
1984 09 02	372	0.5−	0.9+	Y 1998 12 14	699	1.9+	0.8−	2000 01 10	704	0.4+	0.3−
1984 09 02	372	1.2−	0.2−	Y 1998 12 14	699	0.3+	0.4−	2000 01 10	704	0.5+	0.3−
1984 09 04	372	0.4−	1.0−	1998 12 14	699	0.4−	0.6+	2000 01 10	704	1.3+	1.5−
1984 09 04	372	0.3−	0.9−	1999 01 10	699	0.7+	0.6−	2000 01 10	704	0.8+	0.9−
1984 09 16	372	0.5−	0.2+	1999 01 10	699	1.0+	0.5−	2000 01 10	704	(1.2+	2.4−)
1984 09 21	372	(2.9+	0.6−)	1999 01 10	699	0.9+	0.2−	2000 03 13	704	0.0	0.2+
1984 09 26	372	2.0+	0.2+	1999 01 19	704	0.1+	0.2−	2000 03 13	704	0.5−	0.5+
1984 10 13	372	(0.5+	4.3−)	1999 01 19	704	0.1−	0.2+	2000 03 13	704	0.3−	0.7+
1984 10 13	372	(2.8+	0.1−)	1999 01 19	704	0.2+	0.9+	2000 03 13	704	0.2−	0.4+
1984 10 25	372	0.3+	0.3+	1999 02 10	704	0.8−	0.6−	2000 03 13	704	0.6−	0.5+
1984 10 25	372	0.0	0.6−	1999 02 10	704	0.7−	1.0+	2000 03 14	704	0.2+	0.1−
1993 11 18	372	(2.2−	2.4−)	1999 02 10	704	0.4+	0.1+	2000 03 14	704	0.1−	0.3+
1993 11 18	372	1.0−	1.4+	1999 02 10	704	1.3−	1.4+	2000 03 14	704	0.0	0.4+
1995 01 06	411	0.8−	1.3−	1999 02 10	704	1.6−	1.3+				
1995 01 06	411	0.1+	1.3−	1999 02 13	704	0.0	0.3+				

2000 MAR. 20

M.P.C. 39029

Residuals in seconds of arc

1984 09 21	809	0.5+	1.2-	1991 10 05	095	1.6-	1.2+	1998 11 24	704	0.8+	0.5-
1984 09 21	809	0.8+	1.6-	1991 10 05	095	(1.4-	2.5+)	1998 11 24	704	0.9+	0.2-
1984 09 21	809	0.9+	1.7-	1996 01 12	411	1.6-	0.5-	1998 11 24	704	0.9+	0.2-
1984 09 22	809	0.3-	0.5-	1996 01 12	411	0.8-	1.3-	1998 11 24	704	1.4+	0.2+
1984 09 22	809	0.1+	0.5-	1996 01 13	411	0.4+	0.3-	1998 12 11	699	0.0	0.0
1984 09 22	809	0.4+	0.5-	1996 01 13	411	0.2+	0.7-	1998 12 11	699	0.5-	0.3-
1984 09 24	809	1.1-	0.0	1998 08 31	704	0.0	0.2-	1998 12 14	704	0.1-	0.1-
1984 09 24	809	0.8-	0.1+	1998 08 31	704	1.1-	1.0+	1998 12 14	704	0.5+	0.0
1984 09 24	809	1.2-	0.2-	1998 08 31	704	0.2-	0.2-	1998 12 14	704	0.1-	1.6+
1984 09 26	809	0.1-	1.1+	1998 08 31	704	0.6-	0.1-	1998 12 14	704	(0.6+	2.9+)
1984 09 26	809	0.4-	0.8+	1998 08 31	704	1.7-	1.2+	2000 01 10	704	0.7+	0.2-
1984 09 26	809	0.2-	0.5+	1998 11 10	704	1.1-	0.3+	2000 01 10	704	0.8+	0.9+
1984 09 27	809	0.9-	0.6+	1998 11 10	704	0.8+	0.4+	2000 01 10	704	(0.8+	2.6+)
1984 09 27	809	0.5-	0.4+	1998 11 10	704	0.5+	0.7+	2000 02 10	704	0.5+	0.5+
1984 09 27	809	0.2+	0.2+	1998 11 10	704	(2.1+	0.6+)	2000 02 10	704	1.3+	0.6+
1984 09 28	809	0.3+	1.0+	1998 11 10	704	0.3-	0.3+	2000 02 10	704	0.2-	0.3-
1984 09 28	809	0.5+	1.1+	1998 11 11	704	0.4-	0.3+	2000 03 09	704	0.1+	0.8-
1984 09 28	809	1.0+	1.0+	1998 11 11	704	0.0	0.4+	2000 03 09	704	0.4-	0.1+
1984 09 29	809	0.2-	0.1+	1998 11 11	704	0.3+	0.8+	2000 03 09	704	(2.1-	1.1-)
1984 09 29	809	0.1-	0.1+	1998 11 11	704	0.5+	1.5+	2000 03 09	704	0.6-	0.7-
1984 09 29	809	0.1+	0.1+	1998 11 11	704	0.0	0.9-	2000 03 09	704	0.6-	0.7-
1984 09 30	809	0.0	0.4-	1998 11 21	704	0.6+	0.5-	2000 03 13	704	0.5-	0.5-
1984 09 30	809	0.2+	0.3-	1998 11 21	704	0.1+	0.6+	2000 03 13	704	0.3-	0.2+
1984 09 30	809	0.5+	0.4-	1998 11 21	704	1.0-	1.4-	2000 03 13	704	0.1+	0.4+
1984 10 01	809	0.1+	0.6-	1998 11 21	704	0.4+	0.7-	2000 03 13	704	0.1+	1.4+
1984 10 01	809	0.7+	0.4-	1998 11 21	704	0.4-	0.7-	2000 03 13	704	0.9+	1.5+
1984 10 01	809	1.1+	0.2-	1998 11 24	704	0.6-	0.0				

(13920)* 1985 PE₁ = 1979 WM₈

Discovered 1985 Aug. 15 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. E. Bowell (*MPC* 10545)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	216.18142	(2000.0)		P	Q		
<i>n</i>	0.30974682	ω	8.98028	+0.73856094	+0.67282537		
<i>a</i>	2.1633734	Ω	308.64428	-0.62190867	+0.65539164		
<i>e</i>	0.2379136	<i>i</i>	3.14296	-0.26030241	+0.34317315		
<i>P</i>	3.18	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1979 11 24	675	0.2-	0.4+	1998 11 11	704	1.0-	0.3-	2000 02 05	704	0.3-	0.5+
1979 11 25	675	0.3+	0.6+	1998 11 11	704	1.1-	0.1-	2000 02 05	704	0.1+	0.1+
1985 08 15	688	0.3-	0.8-	1998 11 11	704	0.8-	0.4-	2000 02 06	704	0.1-	0.1+
1985 08 15	688	0.5-	1.3-	1998 11 11	704	0.1+	0.9+	2000 02 06	704	0.2-	0.0
1985 08 16	095	(3.7-	0.3+)	1998 11 18	704	0.1-	0.0	2000 02 06	704	0.0	0.3-
1985 08 23	095	(3.8-	3.5+)	1998 11 18	704	0.8+	0.1-	2000 02 06	704	1.1-	0.4-
1985 09 14	688	1.1+	0.5-	1998 11 18	704	1.0+	0.2+	2000 02 06	704	0.3-	0.4-
1985 09 14	688	1.4+	0.8-	1998 11 18	704	0.1+	0.2-	2000 02 26	703	0.1+	0.7+
1985 09 18	688	0.3+	0.1-	1998 11 18	704	0.5+	0.3+	2000 02 26	703	0.2-	0.3+
1985 09 18	688	0.4-	0.4-	1998 11 21	704	0.0	0.1-	2000 02 26	703	0.6+	0.7+
1990 04 23	688	0.3+	0.5+	1998 11 21	704	0.4+	0.3-	2000 02 26	703	0.0	1.1+
1990 04 23	688	0.5-	0.7+	1998 11 21	704	0.7+	0.9-	2000 02 29	704	0.3+	1.3-
1998 08 31	704	0.6+	0.8+	1998 11 21	704	1.2+	1.4-	2000 02 29	704	0.3+	0.4-
1998 08 31	704	(1.0-	2.2+)	1998 11 21	704	(0.9-	3.2-)	2000 02 29	704	0.1-	1.4-
1998 08 31	704	0.9+	1.1-	1998 12 14	704	0.3-	0.1+	2000 03 03	704	0.2-	0.2+
1998 08 31	704	0.1+	0.1+	1998 12 14	704	0.6-	1.3+	2000 03 03	704	0.3-	0.1+
1998 08 31	704	0.3+	1.3+	1998 12 14	704	1.6-	1.2-	2000 03 03	704	0.2-	0.1+
1998 10 26	098	0.2-	0.8+	1998 12 14	704	(2.3-	1.2+)	2000 03 03	704	0.1-	0.2+
1998 10 26	098	(2.1-	1.2+)	1999 01 15	699	0.6-	0.2-	2000 03 03	704	0.0	0.2+
1998 10 29	704	0.2-	0.8+	1999 01 15	699	0.2+	1.4-	2000 03 03	608	0.0	1.1-
1998 10 29	704	0.3+	0.1-	1999 01 15	699	1.4+	1.4-	2000 03 03	608	0.3-	0.8-
1998 10 29	704	0.4-	0.7+	2000 02 02	704	0.4-	0.5+	2000 03 03	608	0.0	0.2+
1998 10 29	704	0.5-	0.6+	2000 02 02	704	0.7-	0.7-	2000 03 11	704	0.2+	0.3+
1998 11 10	704	0.0	0.1-	2000 02 02	704	0.0	0.8-	2000 03 11	704	0.2-	0.5-
1998 11 10	704	0.6-	0.1+	2000 02 02	704	0.5-	1.8-	2000 03 11	704	0.4+	0.1-

1998 11 10	704	0.2+	0.9+	2000 02 02	704	0.4+	0.8-	2000 03 11	704	(2.6+	1.0+)
1998 11 10	704	(2.6-	0.3-)	2000 02 05	704	0.6+	0.2+				

(13921)* 1985 RP = 1978 RT₃ = 1978 SJ₄

Discovered 1985 Sept. 14 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. K. Hurukawa (*MPC* 10293), L. D. Schmadel (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	34.43541	(2000.0)		P	Q		
<i>n</i>	0.28390702	ω	225.97443	+0.83808829	-0.54462258		
<i>a</i>	2.2927250	Ω	166.91971	+0.53185594	+0.80284592		
<i>e</i>	0.2300170	<i>i</i>	8.00892	+0.12139720	+0.24253798		
<i>P</i>	3.47	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1978 09 01	675	0.9-	0.1-	1998 05 23	704	0.3+	0.3+	1999 11 07	704	0.3-	0.6-
1978 09 02	675	1.0-	0.5+	1998 05 23	704	0.9-	0.6+	1999 12 03	704	(1.0+	3.7-)
1978 09 03	095	1.3-	1.9+	1999 09 16	691	0.2-	0.9+	1999 12 03	704	(2.3+	0.7-)
1978 09 28	095	(15.2+	5.4+)	1999 09 16	691	0.1-	0.8+	1999 12 03	704	1.6+	1.0+
1985 08 22	688	2.2+	1.7-	1999 09 16	691	0.0	0.8+	1999 12 14	704	0.1-	0.3-
1985 08 22	688	2.0+	1.6-	1999 09 30	703	0.1-	0.2+	1999 12 14	704	0.3+	0.9-
1985 09 14	688	2.4+	0.4+	1999 09 30	703	0.3-	0.4+	1999 12 14	704	0.1+	0.3-
1985 09 14	688	0.9-	1.9-	1999 09 30	703	0.1-	0.6+	1999 12 14	704	0.2-	0.3+
1985 09 18	688	0.8+	0.7-	1999 09 30	703	0.1-	0.5+	1999 12 14	704	0.1-	0.4+
1985 09 18	688	0.0	1.1-	1999 10 04	703	0.1-	0.5+	1999 12 16	704	0.9-	0.6+
1992 08 25	801	0.4-	0.2+	1999 10 04	703	0.1-	0.6+	1999 12 16	704	0.2-	0.1-
1992 08 25	801	0.3-	0.4+	1999 10 04	703	0.0	0.5+	1999 12 16	704	1.0+	0.3+
1992 08 30	801	0.0	0.3-	1999 10 04	703	0.1-	0.5+	2000 01 08	704	0.4-	0.3-
1992 08 30	801	0.1-	0.0	1999 10 09	704	0.2-	0.0	2000 01 08	704	0.0	0.2+
1992 09 28	399	0.5-	1.6-	1999 10 09	704	0.2-	0.1+	2000 01 08	704	0.1-	0.4-
1992 09 28	399	(0.8+	2.1-)	1999 10 09	704	0.4-	0.0	2000 01 08	704	0.4+	0.1-
1998 04 18	688	0.0	0.3+	1999 10 09	704	0.3-	0.0	2000 01 11	704	0.1-	0.9-
1998 04 18	688	0.3+	0.4+	1999 10 09	704	0.0	0.0	2000 01 11	699	0.6-	0.4-
1998 04 18	688	0.1-	0.2+	1999 10 13	699	0.4-	0.5+	2000 01 11	704	0.0	0.8-
1998 04 24	704	1.2-	0.1+	1999 10 13	699	0.3-	0.7+	2000 01 11	699	0.1+	0.2-
1998 04 24	704	0.0	0.6+	1999 10 13	699	0.4-	0.6+	2000 01 11	704	0.0	0.4-
1998 04 24	704	(7.6-	0.7+)	1999 11 03	699	0.5+	0.8+	2000 01 11	704	0.0	0.2+
1998 05 22	688	0.0	0.3+	1999 11 03	699	0.1-	0.1-	2000 01 11	699	0.5-	0.1-
1998 05 22	688	0.0	0.5+	1999 11 03	699	0.0	0.0	2000 01 11	704	0.2+	0.5+
1998 05 22	688	0.3+	0.5+	1999 11 07	704	0.2+	0.0	2000 03 05	704	1.0+	0.3+
1998 05 23	704	0.2+	0.6-	1999 11 07	704	0.1-	0.2-	2000 03 05	704	0.1+	0.4+
1998 05 23	704	0.2+	0.2-	1999 11 07	704	0.0	0.2-	2000 03 05	704	0.5+	0.2-
1998 05 23	704	1.4+	0.1+	1999 11 07	704	0.3-	0.4-				

(13922)* 1985 SX₂ = 1981 UP₈ = 1981 UU₁₅

Discovered 1985 Sept. 19 by N. S. Chernykh and L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. D. W. E. Green (*MPC* 14194), S. Nakano (d, *MPC* 10752)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	119.94392		(2000.0)	P	Q
n	0.23220096	ω	78.07192	+0.74451873	-0.66652327
a	2.6215614	Ω	323.70805	+0.58486637	+0.67859220
e	0.1400672	i	3.67401	+0.32190556	+0.30864114
P	4.24	H	13.6	G 0.15	U 2

1998 08 28	704	1.8+	0.9-	1998 11 18	704	0.6+	0.2+	2000 02 08	704	0.3-	0.6+
1998 08 31	704	0.8-	1.9-	1998 11 18	704	0.5-	0.1-	2000 02 08	704	0.3+	0.6-
1998 08 31	704	0.7+	0.4-	1998 11 20	699	0.3-	0.9+	2000 02 08	704	0.4+	0.1+
1998 08 31	704	0.1+	0.7-	1998 11 20	699	0.4-	0.5+	2000 02 08	704	0.0	0.6+
1998 08 31	704	0.7-	1.0-	1998 11 20	699	0.4-	0.7+	2000 03 08	704	0.5+	0.5-
1998 10 26	098	0.3+	0.8+	1998 11 21	704	0.1-	0.1-	2000 03 08	704	0.3+	0.2-
1998 10 26	098	0.8-	0.4+	1998 11 21	704	0.0	0.8-	2000 03 08	704	0.3+	0.2+
1998 10 29	704	0.1+	0.8+	1998 11 21	704	0.5+	1.3-	2000 03 08	704	0.1-	0.1+
1998 10 29	704	0.2+	0.7+	1998 11 21	704	(1.3+ 2.6-)		2000 03 08	704	0.2-	0.2-
1998 10 29	704	0.2-	1.0+	1998 11 21	704	(0.1+ 3.0-)		2000 03 11	704	0.3-	0.0
1998 10 29	704	0.9-	0.2-	1998 11 24	704	0.1+	1.3+	2000 03 11	704	0.4-	0.2-
1998 10 29	704	0.0	1.2+	1998 11 24	704	0.0	0.8-	2000 03 11	704	0.0	0.1+
1998 10 31	757	0.7-	0.0	1998 11 24	704	0.4-	0.7+	2000 03 11	704	0.2-	0.3+
1998 10 31	757	0.6-	0.5-	1998 11 24	704	0.4-	0.3-	2000 03 11	704	0.1+	0.5+
1998 11 01	757	0.2-	0.6+	1998 12 11	699	0.4+	1.0-	2000 03 14	703	1.1-	0.1+
1998 11 01	757	0.8-	0.6+	1998 12 11	699	1.0+	0.9-	2000 03 14	703	0.8+	0.9-
1998 11 10	704	0.2-	0.5-	1998 12 11	699	0.9+	0.7-	2000 03 14	703	0.2-	0.5+
1998 11 10	704	0.1-	0.1-	1998 12 14	704	0.9+	0.4+	2000 03 14	703	0.1+	0.1+
1998 11 10	704	0.4-	0.2+	1998 12 14	704	1.1+	0.6-				
1998 11 10	704	0.1+	0.4-	1998 12 14	704	0.3+	0.6-				

(13923)* 1985 UA₅ = 1998 VO₁₆

Discovered 1985 Oct. 22 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Id. G. V. Williams (*MPC* 33220)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	108.94424		(2000.0)	P	Q
<i>n</i>	0.22608429	ω	336.83900	+0.79743683	-0.55852841
<i>a</i>	2.6686347	Ω	59.10357	+0.58685174	+0.62986250
<i>e</i>	0.2046397	<i>i</i>	15.43256	+0.14035504	+0.53973998
<i>P</i>	4.36	<i>H</i>	12.7	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1985 10 22	095	1.0-	1.7+	1998 11 15	566	0.4-	0.1+	1999 02 02	699	0.3-	0.6+
1985 11 09	095	0.2+	1.3+	1998 12 08	704	1.3+	1.3-	1999 02 02	699	0.3-	0.1+
1985 11 11	095	0.8+	0.6-	1998 12 08	704	0.9+	0.5+	2000 01 06	704	0.2-	0.9-
1985 11 20	095	0.7-	0.8-	1998 12 08	704	0.5+	0.6-	2000 01 06	704	0.1+	0.6-
1992 05 03	691	0.6-	0.1-	1998 12 08	704	1.3+	1.5-	2000 01 06	704	0.3+	1.6-
1992 05 03	691	0.3-	0.2-	1998 12 16	758	0.8-	0.1+	2000 02 03	704	0.1-	0.4-
1992 05 03	691	0.4-	0.2+	1998 12 16	758	0.9-	0.4-	2000 02 03	704	0.1-	0.2-
1998 11 10	704	0.5-	0.1+	1998 12 16	758	0.9-	0.0	2000 02 03	704	0.0	0.1-
1998 11 10	704	0.2-	0.5-	1999 01 08	704	0.6-	1.3-	2000 02 03	704	0.3+	0.3+
1998 11 10	704	0.3+	0.2+	1999 01 08	704	1.2-	0.7-	2000 02 03	704	0.0	0.5+
1998 11 10	704	0.2+	0.1-	1999 01 08	704	0.4-	0.4-	2000 03 04	704	0.5+	0.4+
1998 11 10	704	1.3+	0.2+	1999 01 08	704	0.6-	0.1-	2000 03 04	704	0.1-	0.8+
1998 11 11	704	0.4+	0.3+	1999 01 08	704	0.5+	0.1+	2000 03 04	704	0.1-	0.5+
1998 11 11	704	0.5+	0.8+	1999 01 11	704	0.2+	0.6-	2000 03 04	704	(2.7+ 1.1+)	
1998 11 11	704	0.7+	0.9+	1999 01 11	704	0.1-	0.5+	2000 03 15	704	0.1+	0.1+
1998 11 11	704	0.1+	0.0	1999 01 11	704	0.2-	0.2-	2000 03 15	704	0.6+	0.1+
1998 11 11	704	0.0	0.2+	1999 01 11	704	0.7-	0.4+	2000 03 15	704	0.0	0.5+
1998 11 15	566	0.3-	0.1+	1999 01 11	704	0.3+	0.6-	2000 03 15	704	0.0	0.0
1998 11 15	566	0.4-	0.1+	1999 02 02	699	0.2-	0.7+				

(13924)* 1986 PE₁ = 1999 AL₂₃

Discovered 1986 Aug. 1 by E. F. Helin at Palomar.

Id. G. V. Williams (*MPC* 33674)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	151.83052		(2000.0)	P	Q
<i>n</i>	0.25925404	ω	244.91504	+0.90985477	-0.40357863
<i>a</i>	2.4358602	Ω	138.69936	+0.41343940	+0.86214757
<i>e</i>	0.0963382	<i>i</i>	8.39658	+0.03510223	+0.30631008
<i>P</i>	3.80	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1986 08 01	675	(36.2+ 3.3+)	1986 09 06	809	0.2-	0.1-	1998 12 15	704	0.6-	0.1-
1986 08 01	675	(31.8+ 1.9+)	1986 09 06	809	0.2-	0.1-	1998 12 15	704	1.2+	1.0-
1986 08 02	675	(34.5- 0.4-)	1986 09 06	809	0.1-	0.0	1998 12 15	704	0.2+	0.1+
1986 08 28	809	0.4+ 0.4+	1986 09 08	809	0.9+	0.7-	1998 12 17	699	0.3+	0.3+
1986 08 28	809	0.6+ 0.5+	1986 09 08	809	0.9+	0.6-	1998 12 17	699	0.1+	0.4+
1986 08 28	809	0.8+ 0.5+	1986 09 08	809	1.0+	0.7-	1998 12 17	699	0.1-	0.4-
1986 08 29	809	0.4- 0.7+	1986 09 08	809	0.2+	0.0	1999 01 10	699	0.1+	0.8-
1986 08 29	809	0.2- 0.7+	1986 09 08	809	0.3+	0.0	1999 01 10	699	0.7-	0.2+
1986 08 29	809	0.2- 0.6+	1986 09 08	809	0.4+	0.1-	1999 01 10	699	0.1-	0.5-
1986 08 30	809	0.6- 0.2+	1986 09 10	809	0.8+	0.0	1999 01 15	699	0.3-	0.3+
1986 08 30	809	0.5- 0.2+	1986 09 10	809	1.0+	0.1+	1999 01 15	699	0.3+	0.2+
1986 08 30	809	0.3- 0.4+	1986 09 10	809	1.3+	0.0	1999 01 15	699	0.4+	0.6+
1986 09 01	809	0.6- 0.2-	1986 09 12	809	1.8+	0.1+	2000 01 08	704	0.8-	0.4+
1986 09 01	809	0.6- 0.2-	1986 09 12	809	2.0+	0.1+	2000 01 08	704	1.4+	0.3+
1986 09 01	809	0.6- 0.1-	1986 09 12	809	2.1+	0.1+	2000 01 08	704	0.2-	0.5-
1986 09 01	809	0.7- 0.5+	1992 02 26	691	0.0	0.5-	2000 01 08	704	0.2+	0.2+
1986 09 01	809	0.7- 0.6+	1992 02 26	691	0.3+	0.1-	2000 01 08	704	0.0	0.3-
1986 09 01	809	0.2- 0.7+	1992 02 26	691	0.1-	1.0+	2000 02 06	704	0.6+	0.2-
1986 09 02	809	0.8- 0.1-	1998 08 31	704	0.1-	0.5+	2000 02 06	704	0.9+	0.2-
1986 09 02	809	0.5- 0.1-	1998 08 31	704	0.0	0.6+	2000 02 06	704	1.2+	0.4-
1986 09 02	809	0.5- 0.3-	1998 08 31	704	0.6+	0.8-	2000 03 12	703	0.2-	0.3+
1986 09 03	809	1.1- 0.2-	1998 08 31	704	0.4-	0.8+	2000 03 12	703	0.3-	0.2+
1986 09 03	809	0.9- 0.1-	1998 08 31	704	(0.6- 2.2-)		2000 03 12	703	0.1-	1.1+
1986 09 03	809	0.7- 0.2+	1998 11 13	704	0.4+	0.1+	2000 03 12	703	0.1+	0.8+
1986 09 04	809	0.5- 0.4+	1998 11 13	704	0.3-	1.1+	2000 03 12	704	0.2+	0.1+
1986 09 04	809	0.3- 0.4+	1998 11 13	704	0.5- 0.9+		2000 03 12	704	0.1-	0.4+
1986 09 04	809	0.2- 0.4+	1998 11 13	704	0.9+	0.4-	2000 03 12	704	0.2+	0.1+
1986 09 05	809	1.0- 0.1+	1998 11 13	704	0.7-	0.1+	2000 03 12	704	0.2+	0.7+
1986 09 05	809	0.8- 0.0	1998 11 16	699	0.7-	0.0	2000 03 13	704	0.2-	0.4+
1986 09 05	809	0.6- 0.1+	1998 11 16	699	0.1+	0.1+	2000 03 13	704	0.0	0.0
1986 09 06	809	0.3- 0.2-	1998 11 16	699	0.6-	0.5+	2000 03 13	704	0.1-	0.5+
1986 09 06	809	0.3- 0.3-	1998 12 15	704	0.1+	0.1-	2000 03 13	704	0.5-	0.1+
1986 09 06	809	0.3- 0.2-	1998 12 15	704	(2.6- 0.1+)		2000 03 13	704	0.5-	0.1+

(13925)* 1986 QS₃ = 1989 AH₇

Discovered 1986 Aug. 29 by H. Debehogne at the European Southern Observatory.

Id. H. Kaneda (*MPC* 16427)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	259.13303		(2000.0)	P	Q
<i>n</i>	0.18885022	ω	148.19179	+0.33602437	+0.93383595
<i>a</i>	3.0087843	Ω	141.05623	-0.89987166	+0.35675268
<i>e</i>	0.0683117	<i>i</i>	11.25039	-0.27806224	-0.02603730
<i>P</i>	5.22	<i>H</i>	12.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1986 08 29	809	0.7-	0.7+	1991 08 08	675	0.5+	1.5-	1994 01 06	675	1.5+	0.3-
1986 08 29	809	0.4-	0.7+	1991 08 08	675	0.2-	0.8-	1994 02 11	675	0.1-	1.2+
1986 08 29	809	0.5-	0.4+	1991 08 12	801	0.2+	0.4+	1994 02 11	675	0.3-	0.1+
1986 08 31	809	0.1-	0.6+	1991 08 12	801	0.1+	0.2-	1997 10 30	566	0.0	0.1+
1986 08 31	809	0.1+	0.8+	1991 08 14	809	(1.2+ 2.6-)		1997 10 30	566	0.1-	0.2-
1986 08 31	809	0.1-	0.8+	1991 08 14	809	(1.0+ 3.0-)		1997 10 30	566	0.2+	0.1-
1986 09 01	809	0.5-	0.2+	1991 08 14	809	(1.3+ 2.0-)		1998 12 22	704	0.2+	0.6+
1986 09 01	809	0.5-	0.2+	1991 09 04	809	1.9+	1.6+	1998 12 22	704	0.0	0.8-
1986 09 01	809	0.3-	0.3+	1991 09 04	809	0.1+	0.1-	1998 12 22	704	0.3-	0.4-
1986 09 02	809	1.0-	0.3+	1991 09 04	809	1.1-	0.3-	1998 12 22	704	0.1-	0.4-
1986 09 02	809	1.0-	0.3+	1991 09 06	809	0.1-	0.7-	1998 12 22	704	0.8-	0.5-
1986 09 02	809	0.9-	0.4+	1991 09 06	809	0.3-	0.0	2000 01 08	704	0.0	0.4-
1986 09 04	809	0.1-	0.5+	1991 09 06	809	0.1-	0.4+	2000 01 08	704	0.6+	0.9+
1986 09 04	809	0.1-	0.9+	1991 09 07	809	1.4+	1.8+	2000 01 08	704	0.2-	0.2+
1986 09 04	809	0.2-	1.0+	1991 09 07	809	0.5-	0.3+	2000 01 08	704	0.4+	0.2-
1989 01 10	033	0.4+	0.8+	1991 09 07	809	0.4+	1.2+	2000 01 08	704	0.5-	0.5+
1989 01 11	033	0.6+	0.6+	1991 09 07	801	0.1-	0.1-	2000 03 12	703	(3.1+ 3.4+)	
1989 01 12	033	0.8+	0.8+	1991 09 07	801	0.1+	0.0	2000 03 12	703	0.2-	0.7+
1991 08 05	675	0.3+	0.2+	1991 09 09	801	0.7+	0.4-	2000 03 12	703	0.4+	1.2+

2000 MAR. 20

M.P.C. 39031

1991 08 05	675	0.6+	0.8-	1991 09 09	801	0.2+	0.3-	2000 03 12	703	0.4+	1.0+
1991 08 06	809	(0.0	3.0-)	1992 10 22	675	0.6-	0.2-	2000 03 12	704	0.3-	0.8+
1991 08 06	801	0.1+	0.7-	1992 10 22	675	0.5+	0.7+	2000 03 12	704	0.0	1.2+
1991 08 06	809	(1.0+	2.7-)	1992 11 27	675	0.0	0.7+	2000 03 12	704	0.3-	0.9+
1991 08 06	801	0.1+	0.6-	1992 11 27	675	0.3+	0.6+	2000 03 12	704	0.3-	1.0+
1991 08 06	809	(0.3+	2.4-)	1994 01 06	675	0.4+	0.7-				

(13926)* 1986 XT = 1990 TL₃

Discovered 1986 Dec. 2 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. H. Kaneda (*MPC* 17438)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	113.88269	(2000.0)		P	Q		
<i>n</i>	0.24056517	ω	17.94221	+0.97390118	-0.22692040		
<i>a</i>	2.5604377	Ω	355.16578	+0.20053803	+0.87030646		
<i>e</i>	0.2957078	<i>i</i>	3.30586	+0.10630607	+0.43711989		
<i>P</i>	4.10	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1986 11 25	046	(0.2+	2.7-)	1994 11 06	675	0.2+	0.3-	1998 10 10	699	0.9-	0.1-
1986 11 25	046	1.6+	1.8-	1994 12 22	689	0.1-	0.5+	1998 10 10	699	0.5+	0.1-
1986 11 29	046	1.6+	2.1-	1996 03 12	691	0.1+	0.0	1998 10 20	699	0.2-	0.5-
1986 11 29	046	2.1+	1.7-	1996 03 12	691	0.1+	0.2-	1998 10 20	699	0.2-	0.1-
1986 12 02	688	2.2-	2.3+	1996 03 12	691	0.3+	0.0	1998 10 20	699	0.2-	0.5-
1986 12 02	688	1.1+	1.5-	1997 04 30	704	0.8+	0.1+	1998 11 25	699	0.1+	0.4+
1986 12 04	046	(6.5+	0.9+)	1997 04 30	704	0.5-	0.2+	1998 11 25	699	0.2-	0.6-
1986 12 04	046	(9.1+	0.1-)	1997 04 30	704	0.7+	0.3-	1998 11 25	699	0.2-	0.4+
1990 10 15	400	0.6+	1.4-	1997 04 30	704	1.5-	0.2+	2000 02 04	704	1.1-	0.9-
1990 10 15	400	0.6+	0.7-	1998 08 17	704	0.7+	0.1+	2000 02 04	704	0.5+	0.7+
1990 10 17	372	(2.4-	0.7-)	1998 08 17	704	0.8-	0.7+	2000 02 04	704	0.8+	0.5-
1990 10 17	372	(1.3-	2.4+)	1998 08 17	704	0.3-	1.3+	2000 02 04	704	0.3+	0.3-
1990 10 20	402	0.5+	1.1+	1998 08 17	704	0.6-	0.5+	2000 02 06	695	0.2-	0.2+
1990 10 20	402	1.3+	1.2+	1998 08 17	704	1.9-	0.4+	2000 02 06	695	0.1-	0.2+
1990 10 20	372	0.0	0.2+	1998 08 23	689	0.3-	0.2+	2000 02 11	704	0.3-	0.1-
1990 10 20	372	0.2-	0.4+	1998 08 23	704	0.2-	0.1+	2000 02 11	704	0.0	0.5+
1990 10 21	400	(1.3+	2.1+)	1998 08 23	704	(1.0-	2.2+)	2000 02 11	704	1.5+	0.2-
1990 10 21	400	0.4+	0.6+	1998 08 23	704	0.9-	0.7+	2000 02 11	704	0.1-	1.6+
1990 10 22	675	0.6-	0.1+	1998 08 23	704	(2.1-	1.9+)	2000 02 25	703	0.7-	0.9+
1990 10 22	675	0.6-	0.4+	1998 08 23	704	1.7-	0.9+	2000 02 25	703	0.2+	0.2+
1990 10 23	372	0.5+	0.9-	1998 08 26	761	0.0	1.7-	2000 02 25	703	0.8-	1.2+
1990 10 23	372	0.6-	0.3-	1998 08 26	761	1.4+	1.5-	2000 02 25	703	0.9-	0.5+
1990 10 26	372	(5.0-	0.6+)	1998 08 27	761	0.4-	1.6+	2000 02 29	704	0.7+	0.0
1990 10 26	372	0.5-	0.6+	1998 08 27	761	(2.9-	2.4+)	2000 02 29	704	1.0+	0.2-
1990 10 27	372	1.8-	0.0	1998 08 30	699	0.1-	0.1+	2000 02 29	704	0.7+	0.4+
1990 10 27	372	1.1-	0.3+	1998 08 30	699	0.3+	0.2+	2000 02 29	704	0.0	0.6+
1990 11 13	675	0.5-	0.8-	1998 08 30	699	0.3+	0.3+	2000 02 29	704	0.3+	0.1-
1990 11 13	675	1.4-	1.7-	1998 09 14	704	0.8-	0.3+	2000 03 03	704	0.2+	0.2+
1990 11 14	095	(1.4-	5.5-)	1998 09 14	704	1.1-	0.9+	2000 03 03	704	0.4+	0.5+
1990 11 14	095	1.6-	1.1+	1998 09 14	704	0.2+	1.2+	2000 03 03	704	0.6+	0.7+
1990 11 23	372	1.3-	1.1+	1998 09 14	704	0.1+	0.3-	2000 03 03	704	0.6+	0.4+
1990 11 23	372	(2.2-	1.1+)	1998 09 14	704	0.6+	0.1+	2000 03 03	704	1.1+	1.0+
1992 03 01	809	1.3-	1.0+	1998 09 18	704	1.4+	0.7-	2000 03 04	704	0.1-	0.0
1994 09 29	046	0.4+	0.1+	1998 09 18	704	1.0+	1.2-	2000 03 04	704	1.0+	0.4-
1994 09 29	046	0.3+	0.1+	1998 09 18	699	0.1-	0.2-	2000 03 04	704	0.5+	1.1-
1994 09 29	046	0.3+	0.2+	1998 09 18	704	0.3+	0.0	2000 03 04	704	0.7+	0.3-
1994 10 01	675	1.2+	0.6+	1998 09 18	699	0.0	0.2-	2000 03 04	704	0.5+	0.1+
1994 10 01	675	0.7+	0.2+	1998 09 18	704	0.4-	0.5+	2000 03 05	704	0.3+	0.2+
1994 10 04	046	0.6+	0.2+	1998 09 18	704	0.6-	1.1+	2000 03 05	704	0.6+	0.0
1994 10 04	046	0.4+	0.3+	1998 09 18	699	0.0	0.1-	2000 03 05	704	0.9+	0.3+
1994 10 04	046	0.6+	0.2+	1998 09 25	704	0.4+	0.6+	2000 03 05	704	0.3+	0.9+
1994 10 13	894	0.3-	0.1+	1998 09 25	704	0.7+	0.7-	2000 03 05	704	0.8+	0.3+
1994 10 13	894	0.5+	0.0	1998 09 25	704	0.5+	0.1+	2000 03 11	704	1.6-	1.3+
1994 10 13	560	0.5-	0.1+	1998 09 25	704	0.7+	1.0-	2000 03 11	704	0.4-	0.6+
1994 10 13	560	0.2-	0.3+	1998 09 25	704	0.2-	0.5+	2000 03 11	704	0.4+	0.1+
1994 10 13	560	0.2+	0.7+	1998 09 27	704	0.9+	0.4+	2000 03 11	704	0.7-	0.8+
1994 10 14	560	0.2-	0.0	1998 09 27	704	0.3+	1.4+	2000 03 11	704	0.3+	0.4-

1994 10 14	560	0.8-	0.2+	1998 09 27	704	0.0	0.6+	2000 03 11	699	0.3-	0.5+
1994 10 14	560	0.8-	0.4+	1998 09 27	704	1.1-	0.1-	2000 03 11	699	0.9-	0.6+
1994 11 04	675	0.1+	0.2-	1998 09 27	704	1.0-	0.3-	2000 03 11	699	0.4-	0.8+
1994 11 04	675	0.1+	0.2-	1998 10 02	689	0.3-	0.3+	2000 03 11	699	0.3-	0.5-
1994 11 06	675	0.4-	0.1-	1998 10 08	689	0.1+	0.5-				

(13927)* 1987 SV₃ = 1980 TY₃

Discovered 1987 Sept. 26 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. B. G. Marsden (*MPC* 13585)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Marsden			
<i>M</i>	199.58504	(2000.0)		P	Q		
<i>n</i>	0.27857818	ω	331.83416	+0.91108150	+0.41208368		
<i>a</i>	2.3218704	Ω	3.87852	-0.34169100	+0.76963945		
<i>e</i>	0.1603546	<i>i</i>	9.22328	-0.23060303	+0.48769063		
<i>P</i>	3.54	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1980 10 07	675	1.5+	1.4-	1994 10 05	689	0.2+	0.1+	1998 12 17	704	0.2+	0.1-
1980 10 08	675	0.1+	1.5-	1994 10 09	689	0.5+	0.7-	1998 12 17	704	0.4-	0.6-
1980 10 09	675	1.4+	0.0	1994 10 13	689	0.4+	0.5-	2000 02 02	703	1.2+	0.8-
1980 10 10	675	(5.5+	2.5+)	1998 08 31	704	1.6+	0.8-	2000 02 02	703	0.3-	0.8+
1980 10 10	095	(2.8+	2.7-)	1998 08 31	704	1.4+	0.9-	2000 02 02	703	0.4+	1.4+
1987 09 02	095	1.2-	1.6+	1998 08 31	704	0.8+	0.8-	2000 02 02	703	0.1+	0.0
1987 09 16	809	1.0-	0.3+	1998 08 31	704	0.0	0.2-	2000 02 06	704	0.9+	0.4-
1987 09 16	809	0.7-	0.0	1998 08 31	704	0.2-	1.9+	2000 02 06	704	0.4+	0.1+
1987 09 16	809	0.8-	0.2-	1998 09 29	704	0.6-	0.4+	2000 02 06	704	0.6+	0.1+
1987 09 17	809	0.6-	0.1-	1998 09 29	704	1.0-	0.6-	2000 02 06	704	0.2+	0.4+
1987 09 17	809	0.3-	0.4-	1998 09 29	704	(0.8-	2.2+)	2000 02 06	704	0.3+	0.2+
1987 09 17	809	0.4-	0.6-	1998 09 29	704	0.7-	1.8+	2000 02 11	704	0.2-	0.4-
1987 09 18	809	0.4-	0.2+	1998 09 29	704	0.6-	0.8+	2000 02 11	704	0.1-	1.6+
1987 09 18	809	0.2-	0.1+	1998 11 14	704	1.4+	0.1-	2000 02 11	704	1.1-	0.9+
1987 09 18	809	0.0	0.0	1998 11 14	704	0.2-	1.0+	2000 02 11	704	0.6+	0.3+
1987 09 24	809	2.2-	0.6+	1998 11 14	704	(0.1+	2.8+)	2000 02 11	704	0.5+	0.6+
1987 09 24	809	0.6-	0.5+	1998 11 14	704	(1.4-	2.5+)	2000 02 26	703	0.8+	0.4+
1987 09 24	809	0.4-	0.4+	1998 11 16	704	0.1+	0.0	2000 02 26	703	0.6+	0.8+
1987 09 26	688	0.7-	2.1+	1998 11 16	704	0.3+	0.4-	2000 02 26	703	0.2+	0.0
1987 09 26	688	0.1+	1.8+	1998 11 16	704	0.3-	0.6+	2000 02 26	703	0.5-	0.9+
1987 09 26	809	0.1+	0.1+	1998 11 16	704	0.2+	0.1+	2000 03 11	699	0.1+	0.4+
1987 09 26	809	0.1+	0.2+	1998 11 16	704	0.3-	0.2+	2000 03 11	699	0.0	0.8+
1987 09 26	809	0.3+	0.2+	1998 12 14	704	0.4-	0.5-	2000 03 11	699	0.2+	0.2+
1987 09 27	809	0.0	0.9+	1998 12 14	704	0.7+	0.2+	2000 03 11	704	0.2+	0.3+
1987 09 27	809	0.1-	1.0+	1998 12 14	704	0.9+	0.4-	2000 03 11	699	0.1-	0.4+
1987 09 27	809	0.1-	1.0+	1998 12 14	704	0.1-	0.5-	2000 03 11	704	0.4+	0.2+
1987 09 28	809	0.0	0.8+	1998 12 14	704	0.2-	0.6-	2000 03 11	704	0.6+	0.2+
1987 09 28	809	0.1+	0.4+	1998 12 17	704	0.7-	0.0	2000 03 11	704	0.5+	0.7+
1987 09 28	809	0.1-	0.1+	1998 12 17	704	0.3-	0.1+	2000 03 11	704	0.6+	0.5+
1994 07 13	689	0.3+	0.0	1998 12 17	704	(0.7-	2.9-)				

1987 10 26	688	0.5+	1.5-	1998 09 29	704	(2.5-	0.7+)	1998 12 17	704	0.1-	0.2-
1987 10 26	688	1.1+	0.6-	1998 09 29	704	1.1-	1.5+	1998 12 17	704	0.0	0.5-
1994 08 11	894	0.1+	0.4+	1998 09 29	704	1.2-	0.2-	1998 12 17	704	0.8+	0.4+
1994 08 11	894	0.3+	1.2+	1998 09 29	704	(2.6-	2.3+)	2000 02 02	704	0.2+	0.1-
1994 08 15	894	0.6-	0.1+	1998 11 10	704	0.5-	0.3-	2000 02 02	704	0.9+	0.0
1994 08 15	894	1.2-	0.9+	1998 11 10	704	0.2-	0.3+	2000 02 02	704	1.4-	0.4+
1994 08 16	894	0.8+	0.9+	1998 11 10	704	(3.8-	2.4+)	2000 02 02	704	0.4+	0.4+
1994 08 16	894	0.5-	0.5+	1998 11 10	704	(2.6-	0.0)	2000 02 27	703	0.3-	0.3-
1994 10 04	689	0.1+	0.1-	1998 12 14	744	0.2-	0.3+	2000 02 27	703	0.7-	0.5+
1994 10 05	689	0.1-	0.2-	1998 12 14	744	0.3+	0.4+	2000 02 27	703	0.7-	0.9+
1994 10 07	801	0.0	0.3-	1998 12 14	744	0.0	0.2+	2000 02 27	703	0.8+	0.2+
1994 10 07	801	0.1-	0.1+	1998 12 14	704	0.4+	0.3-	2000 03 08	704	0.7+	0.0
1994 10 09	689	0.1-	0.5+	1998 12 14	704	1.2+	0.2+	2000 03 08	704	0.8+	1.3+
1998 08 31	704	0.1+	0.5+	1998 12 14	704	0.7+	0.4-	2000 03 08	704	0.8+	1.3+
1998 08 31	704	1.4-	0.3-	1998 12 14	704	1.7+	0.9+				

(13929)* 1988 PL = 3045 T-1 = 1985 UX₆

Discovered 1988 Aug. 13 by R. H. McNaught at Siding Spring.

Id. G. V. Williams (*MPC* 19300, *MPC* 34487), A. Doppler (*MPC* 34487)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	194.34738		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.30510941	ω	135.55630	+0.95020510	+0.31125373
<i>a</i>	2.1852392	Ω	206.32013	-0.29461535	+0.88136116
<i>e</i>	0.1386559	<i>i</i>	1.96607	-0.10154835	+0.35542035
<i>P</i>	3.23	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1971 03 25	675	0.1-	1.4-	1998 10 14	691	0.9-	0.1+	1998 12 08	699	0.1-	1.3-
1971 03 26	675	(0.4+	3.1-)	1998 10 14	691	0.7-	0.0	1998 12 08	699	0.1+	0.1+
1971 03 26	675	0.5-	1.9-	1998 10 18	699	0.1+	0.0	2000 02 08	704	1.4+	0.9+
1971 03 27	675	1.2+	1.2-	1998 10 18	699	0.2-	0.4+	2000 02 08	704	0.3+	0.4+
1971 04 02	675	0.8-	1.5-	1998 10 29	704	0.2+	0.2-	2000 02 08	704	0.7+	1.2+
1981 05 08	675	1.5-	0.1-	1998 10 29	704	1.0+	0.0	2000 02 08	704	1.4+	0.5+
1981 05 09	675	(4.5-	2.9+)	1998 10 29	704	0.7-	0.7-	2000 02 27	703	0.6-	0.3+
1985 10 18	095	(3.3+	3.9+)	1998 10 29	704	0.0	0.1-	2000 02 27	703	0.3-	0.7+
1988 08 11	413	0.1+	0.5+	1998 10 29	704	0.7-	1.3-	2000 02 27	703	(2.4-	0.4+)
1988 08 11	413	0.4+	0.5+	1998 11 10	704	0.3+	0.2+	2000 02 27	703	0.6-	1.0+
1988 08 13	413	0.6+	0.0	1998 11 10	704	0.6+	0.2-	2000 03 08	704	0.1+	0.7+
1988 08 14	413	0.7-	0.6+	1998 11 10	704	0.0	0.7+	2000 03 08	704	1.3+	1.5+
1988 08 14	413	0.1+	0.9-	1998 11 10	704	0.1+	0.1+	2000 03 08	704	0.9-	0.2-
1988 08 16	413	0.6+	0.5-	1998 11 10	704	1.6-	1.5+	2000 03 08	704	0.3-	1.9-
1988 08 19	413	0.8-	0.6-	1998 11 11	704	0.8+	1.2+	2000 03 11	704	0.3+	0.2+
1988 08 20	413	(5.7-	3.0-)	1998 11 11	704	0.5+	1.2+	2000 03 11	704	0.0	0.2+
1988 10 09	413	0.3+	0.8-	1998 11 11	699	1.0+	0.6+	2000 03 11	704	0.1+	0.5+
1988 10 09	413	(2.9-	0.3-)	1998 11 11	699	1.5+	0.3+	2000 03 11	704	0.1+	0.5+
1988 10 11	413	0.9-	0.1-	1998 11 11	699	1.4+	1.1+	2000 03 11	704	0.2+	0.3+
1995 12 22	566	1.2-	1.7-	1998 11 25	691	0.3+	0.5+	2000 03 14	703	0.3-	0.1+
1995 12 22	566	1.0-	1.6-	1998 11 25	691	0.1+	0.1-	2000 03 14	703	0.5+	0.5+
1995 12 22	566	0.9-	1.8-	1998 11 25	691	0.2+	0.0	2000 03 14	703	0.3+	0.0
1998 10 14	691	0.9-	0.1-	1998 12 08	699	0.1-	0.1+	2000 03 14	703	0.1-	0.3-

(13930)* 1988 RQ₈ = 1978 TR = 1998 SA₁₃₅

Discovered 1988 Sept. 12 by V. Shkodrov at Smolyan.

Id. G. V. Williams (*MPC* 32920)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	187.71497		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.29690522	ω	288.40715	+0.83010526	+0.55510061
<i>a</i>	2.2253116	Ω	37.92462	-0.47366981	+0.75194849
<i>e</i>	0.1807135	<i>i</i>	4.92878	-0.29421448	+0.35557951
<i>P</i>	3.32	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1949 11 25	675	1.3+	1.3-	1998 10 28	704	0.9+	0.3-	2000 02 11	704	0.2+	0.4-
1978 10 09	095	2.1-	2.5+	1998 10 28	704	1.2+	0.9-	2000 02 29	704	0.4+	0.2+
1984 05 31	413	1.3-	0.3+	1998 10 28	704	0.1+	0.2-	2000 02 29	704	0.5+	0.5+

1984 05 31	413	0.6+	0.1-	1998 10 28	704	0.8+	0.4+	2000 02 29	704	0.4+	0.1-
1988 09 12	071	0.5-	0.2-	1998 10 29	704	0.9+	0.6-	2000 02 29	704	0.6+	0.5+
1988 09 12	071	0.3+	1.3+	1998 10 29	704	0.2+	0.2+	2000 02 29	704	0.5+	0.3+
1988 10 15	071	1.5+	0.6+	1998 10 29	704	0.6+	0.9+	2000 03 05	704	1.2-	0.4-
1988 10 15	071	(1.1+	2.7+)	1998 10 29	704	0.4+	0.7+	2000 03 05	704	1.3-	1.1+
1988 10 17	071	1.0-	1.5-	1998 10 29	704	0.1-	0.2-	2000 03 05	704	1.3-	0.2+
1988 10 17	071	0.4-	1.5+	1998 11 10	704	1.2-	0.4-	2000 03 05	704	1.8-	0.1-
1988 11 03	413	1.0+	0.6+	1998 11 10	704	0.2-	0.3-	2000 03 05	704	(2.9-	1.2+)
1988 11 03	413	0.6+	1.0+	1998 11 10	704	1.4-	0.7-	2000 03 05	704	0.4+	0.7-
1988 11 11	071	1.7-	1.3-	1998 11 10	704	1.5-	0.9-	2000 03 05	704	0.2+	0.8+
1988 11 11	071	1.2-	1.6-	1998 11 10	699	0.1-	0.2-	2000 03 05	704	0.4+	0.0
1997 01 31	910	0.2+	1.0-	1998 11 10	699	0.4-	0.2+	2000 03 05	704	0.5+	0.3+
1997 01 31	910	0.3+	1.0-	1998 11 10	699	0.3-	0.1-	2000 03 05	704	0.2+	0.3-
1997 01 31	910	0.2+	1.1-	1998 11 23	699	0.3-	0.8-	2000 03 08	704	0.3+	0.3+
1998 09 18	699	0.2+	0.4+	1998 11 23	699	0.6-	0.5-	2000 03 08	704	0.3-	0.6+
1998 09 18	699	0.2-	0.5+	1998 11 23	699	0.3-	0.2-	2000 03 08	704	0.3-	1.5+
1998 09 18	699	0.1+	0.8+	1998 12 09	699	0.0	0.2-	2000 03 08	704	0.5+	1.4+
1998 09 26	704	0.9+	0.1+	1998 12 09	699	0.3-	0.3-	2000 03 08	704	1.7+	0.6-
1998 09 26	704	0.4+	1.3-	1998 12 09	699	0.2-	0.2+	2000 03 09	704	0.0	0.4+
1998 09 26	704	0.3+	0.9-	1999 01 08	704	0.5+	1.2-	2000 03 09	704	0.2-	0.3-
1998 09 26	704	0.1+	0.1-	1999 01 08	704	0.8-	0.5-	2000 03 09	704	1.6+	2.0+
1998 09 26	704	0.6+	0.6+	1999 01 08	704	1.5+	0.9+	2000 03 09	704	0.8+	0.3+
1998 09 27	704	0.6+	0.2-	1999 01 08	704	0.4-	0.1-	2000 03 11	699	0.9-	0.1+
1998 09 27	704	0.8+	0.3+	2000 02 03	704	0.1-	0.5-	2000 03 11	699	0.3-	0.4+
1998 09 27	704	0.4+	0.8+	2000 02 03	704	0.2-	0.4+	2000 03 11	699	0.3+	0.9-
1998 09 27	704	0.1-	1.3+	2000 02 03	704	1.1-	0.7+	2000 03 11	699	0.6-	0.3-
1998 09 27	704	0.3-	1.1+	2000 02 03	704	0.3-	0.5+	2000 03 12	704	0.3+	0.5-
1998 10 27	691	0.5-	0.2-	2000 02 03	704	0.2+	0.5-	2000 03 12	704	0.7+	0.3-
1998 10 27	691	0.8-	0.6-	2000 02 11	704	0.2-	0.4-	2000 03 12	704	1.2-	0.6-
1998 10 27	691	0.5-	0.3-	2000 02 11	704	1.3+	0.3+	2000 03 12	704	0.2-	0.3-
1998 10 28	704	0.8+	0.2-	2000 02 11	704	0.3-	0.5+	2000 03 12	704	0.0	0.0

(13931)* 1988 RF₁₃ = 1996 GU₃

Discovered 1988 Sept. 14 by S. J. Bus at Cerro Tololo.

Id. G. V. Williams (*MPC* 27443)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	215.71676		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21564882	ω	270.76259	+0.50960010	+0.84660905
<i>a</i>	2.7540468	Ω	31.42575	-0.62468115	+0.48672618
<i>e</i>	0.1440374	<i>i</i>	17.12125	-0.59167660	+0.21529224
<i>P</i>	4.57	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1988 09 14	807	0.1-	0.0	1996 04 23	691	0.2-	0.6-	1999 12 07	703	0.2+	0.5+
1988 09 15	807	0.2+	0.4+	1996 04 23	691	0.1-	0.6-	1999 12 07	703	2.0+	0.1+
1988 09 19	807	1.0+	0.4-	1998 11 16	704	1.3+	0.1+	1999 12 07	703	2.0+	0.3-
1993 10 14	675	0.8+	1.4-	1998 11 16	704	(2.4-	2.2-)	2000 01 29	704	0.4+	0.4+
1993 10 14	675	1.0-	0.8-	1998 11 16	704	0.0	1.5-	2000 01 29	704	1.2+	0.4+
1993 10 16	691	0.2+	0.5-	1998 12 17	704	0.6-	0.2-	2000 01 29	704	0.0	0.4+
1993 10 16	691	0.3+	0.5-	1998 12 17	704	0.7-	0.2-	2000 01 29	704	0.2-	0.1-
1993 10 16	691	0.0	0.5-	1998 12 17	704	0.3+	0.3-	2000 01 29	704	0.3+	0.2+
1996 04 09	691	0.5-	0.5-	1999 01 17	561	0.2+	0.1-	2000 03 11	699	0.7-	0.7+
1996 04 09	691	0.7-	0.5-	1999 01 17	561	0.4+	0.1+	2000 03 11	699	0.6-	1.2+
1996 04 09	691	0.6-	0.3-	1999 01 17	561	0.3+	0.1+	2000 03 11	699	0.3-	0.0
1996 04 15	691	0.8-	0.5-	1999 01 19	561	0.1-	0.8-	2000 03 11	703	0.2+	0.5+
1996 04 15	691	0.7-	0.3-	1999 01 19	561	0.4+	0.3-	2000 03 11	699	0.6+	0.1-
1996 04 15	691	0.4-	0.4-	1999 01 19	561	0.8+	0.3+	2000 03 11	703	0.0	0.6+
1996 04 22	691	0.5-	0.6-	1999 01 20	561	0.1+	0.3-	2000 03 11	703	0.7-	0.3+
1996 04 22	691	0.2-	0.6-	1999 01 20	561	0.2+	0.2-	2000 03 11	703	0.6-	0.6+
1996 04 22	691	0.5-	0.9-	1999 01 20	561	0.8+	0.1+				
1996 04 23	691	0.4-	0.7-	1999 12 07	703	0.1-	1.3-				

2000 MAR. 20

M.P.C. 39033

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 170.39848		(2000.0)		P		Q	
<i>n</i>	0.29820562	ω	126.36088	+0.95327102	+0.30210750		
<i>a</i>	2.2188375	Ω	216.05505	-0.27843784	+0.87554166		
<i>e</i>	0.1824495	<i>i</i>	0.22659	-0.11724643	+0.37703827		
<i>P</i>	3.31	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1988 09 14	807	0.5+	0.7-	1988 09 15	699	0.4-	0.3+
1988 09 15	807	0.7+	0.4-	1988 09 17	699	0.5-	0.7+
1988 09 18	809	0.0	1.4-	1988 09 17	699	0.3+	1.4+
1988 09 18	809	(0.8-	3.8-)	1988 09 17	699	0.1+	1.5+
1988 09 18	809	(1.8-	5.9-)	1988 09 18	704	0.8-	1.3+
1988 10 06	807	0.6+	0.4-	1988 09 18	704	0.5-	0.9+
1988 10 07	807	0.4+	0.9-	1988 09 18	704	0.6-	0.6+
1994 05 04	691	0.4-	0.7+	1988 09 18	704	0.5-	1.0+
1994 05 04	691	0.3-	0.3-	1988 09 18	704	(2.3-	2.0+)
1994 05 04	691	0.4-	0.1-	1988 09 26	704	0.2+	1.5-
1995 11 17	327	0.1-	0.2+	1988 09 26	704	(0.5+	2.3-)
1995 11 17	327	0.5-	0.5-	1988 09 26	704	(0.2+	2.2-)
1995 11 17	327	0.5-	1.0-	1988 09 26	704	0.3-	1.4-
1997 04 15	691	0.1-	0.6-	1988 09 26	704	0.7-	1.7-
1997 04 15	691	0.4-	1.1-	1988 09 27	704	0.8+	0.2+
1997 04 15	691	0.7-	0.6-	1988 09 27	704	0.2+	0.8+
1998 09 14	704	0.0	0.7+	1988 09 27	704	0.0	0.1+
1998 09 14	704	0.8-	0.1-	1988 09 27	704	0.2+	0.5-
1998 09 14	704	0.2-	0.6+	1988 09 27	704	0.7+	1.2-
1998 09 15	699	0.6-	0.7+	1988 10 19	699	0.1-	0.3-
1998 09 15	699	0.2-	0.9+	1988 10 19	699	1.3+	0.1-

(13933)* 1988 VE₁ = 1997 UG

Discovered 1988 Nov. 2 by T. Seki at Geisei.

Id. G. V. Williams (*MPC* 30869)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 241.68440		(2000.0)		P		Q	
<i>n</i>	0.21323321	ω	267.34529	+0.67373304	+0.73172082		
<i>a</i>	2.7748073	Ω	45.59462	-0.60747331	+0.62799337		
<i>e</i>	0.1435811	<i>i</i>	8.31289	-0.42078494	+0.26496975		
<i>P</i>	4.62	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1988 11 02	372	(3.0-	7.0-)	Y	1988 12 17	699	0.3-
1988 11 06	372	0.3+	1.0-		1988 12 17	699	0.0
1988 11 08	372	(5.7-	1.0+)		1999 02 18	566	0.3-
1988 11 08	372	1.5-	1.2+		1999 02 18	566	0.0
1988 11 10	372	(5.0-	1.0-)		1999 02 18	566	0.0
1988 11 10	372	2.1+	2.4+		2000 01 08	704	1.1-
1988 11 13	372	1.6+	0.1+		2000 01 08	704	0.4-
1988 11 13	372	1.4-	1.0-		2000 01 08	704	0.4+
1988 11 18	372	1.2-	1.5-		2000 01 08	704	0.0
1988 11 18	372	0.6+	1.0-		2000 01 08	704	0.6+
1988 11 30	372	(5.4+	1.9+)		2000 02 29	704	0.8+
1988 11 30	372	(3.0-	2.4+)		2000 02 29	704	0.4-
1997 10 19	557	0.3-	0.1-		2000 02 29	704	0.3-
1997 10 19	557	0.2-	0.2-		2000 02 29	704	0.6+
1997 10 21	557	0.1-	0.1+		2000 03 08	704	0.2+
1997 10 21	557	0.1+	0.0		2000 03 08	704	0.1-
1997 10 21	557	0.0	0.0		2000 03 08	704	1.5+
1997 10 23	557	0.0	0.1+		2000 03 08	704	0.5+
1997 10 23	557	0.1-	0.1+		2000 03 08	704	0.4+
1997 12 06	910	0.0	0.3+		2000 03 11	699	0.4-
1997 12 06	910	0.1+	0.3+		2000 03 11	699	1.0+
1997 12 06	910	0.2+	0.3+		2000 03 11	699	0.7-
1998 12 17	699	0.5+	0.1+		2000 03 11	699	0.2+

(13934)* 1988 XE₂ = 1984 MN = 1991 RW₂₅ = 1998 VB₃₅

Discovered 1988 Dec. 11 by Y. Oshima at the Gekko Observatory.

Id. S. Nakano (*MPC* 33475)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 220.54808		(2000.0)		P		Q	
<i>n</i>	0.29527769	ω	234.24391	+0.73009621	+0.67002053		
<i>a</i>	2.2334811	Ω	83.27476	-0.57517356	+0.70864575		
<i>e</i>	0.2454967	<i>i</i>	7.77098	-0.36896463	+0.22111917		
<i>P</i>	3.34	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1984 06 27	323	(16.2-	15.2+)		1998 12 01	327	0.1+
1984 06 28	323	0.6+	0.9+		1998 12 10	684	0.2+
1988 12 10	888	(3.4-	7.3-)		1998 12 10	684	0.2+
1988 12 10	888	(14.3-	6.9-)		1998 12 11	684	0.6-
1988 12 11	888	1.4-	1.4+		1998 12 11	684	0.6-
1988 12 11	888	(3.9-	0.8-)		1998 12 15	704	0.1-
1988 12 14	888	0.8+	1.4+		1998 12 15	704	0.9-
1988 12 14	888	0.4+	1.4+		1998 12 15	704	0.2+
1988 12 15	888	0.6-	0.6+		1998 12 15	704	1.2-
1988 12 15	888	0.9-	0.2+		1998 12 15	704	0.8-
1991 09 12	675	0.1-	0.4+		1998 12 22	704	0.1+
1991 09 12	675	0.7-	0.1+		1998 12 22	704	0.4+
1991 09 16	675	0.5-	0.6+		1998 12 22	704	1.0+
1991 09 16	675	0.6-	0.4+		1998 12 22	704	0.9+
1998 11 12	358	0.7-	1.0+		1998 12 22	704	1.7+
1998 11 12	358	0.3+	1.9-		1999 01 14	663	0.3-
1998 11 13	358	0.2-	1.3+		1999 01 14	663	0.7+
1998 11 13	358	(2.4-	1.5+)		1999 02 04	888	1.4+
1998 11 13	358	0.3+	1.8+		1999 02 04	888	1.2+
1998 11 14	358	0.8+	0.1+		2000 02 04	704	0.5+
1998 11 14	358	(4.6+	1.7-)		2000 02 04	704	0.5+
1998 11 15	358	0.6-	0.4-		2000 02 04	704	0.5+
1998 11 15	358	0.3+	1.7-		2000 02 04	704	0.7+
1998 12 01	327	0.1+	0.2-		2000 02 04	704	1.1-
1998 12 01	327	0.2+	0.3-		2000 02 08	704	0.2+

(13935)* 1989 EE = 1992 SG₈

Discovered 1989 Mar. 4 by E. F. Helin at Palomar.

Id. G. V. Williams (*MPC* 21107)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 6.15191		(2000.0)		P		Q	
<i>n</i>	0.17658133	ω	322.19632	-0.60631766	-0.78302529		
<i>a</i>	3.1465854	Ω	163.54096	+0.79502934	-0.60071854		
<i>e</i>	0.2715367	<i>i</i>	29.32058	+0.01752814	+0.16127193		
<i>P</i>	5.58	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1989 03 04	675	(3.3+	4.1-)		1992 09 26	691	0.2-
1989 03 05	675	0.2+	1.8+		1992 09 26	691	0.4-
1989 03 12	399	1.1+	2.1-		1992 09 27	691	0.2-
1989 03 12	399	0.5-	1.1-		1992 09 27	691	0.4-
1989 04 05	675	0.6+	1.1+		1992 09 27	691	0.3-
1989 04 05	675	0.4+	1.3-		1997 08 29	608	0.5+
1989 04 07	675	1.5-	0.9-		1997 08 29	608	0.7+
1989 04 07	675	1.7-	1.2+		1997 08 30	608	0.1+
1989 05 09	801	2.1+	0.1+		1997 09 03	608	0.3+
1992 09 26	691	0.2-	1.5-		1997 09 03	608	0.3+

(13936)* 1989 HC = 1991 TN₁ = 1998 XH₄₈ = 1999 BV₃₃

Discovered 1989 Apr. 30 by E. F. Helin at Palomar.

Id. A. Lowe (*MPC* 33476), G. V. Williams (*MPC* 33476, *MPC* 34489)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	185.40386		(2000.0)	P	Q
<i>n</i>	0.17176730	ω	263.84460	+0.89670752	+0.22493385
<i>a</i>	3.2051059	Ω	82.67559	-0.05293267	+0.90956377
<i>e</i>	0.0149159	<i>i</i>	22.60310	-0.43944711	+0.34942597
<i>P</i>	5.74	<i>H</i>	11.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1989 04 30	675	(0.6+ 3.4-)	1999 01 16	704	0.2+ 1.4+	2000 01 31	704	0.5+ 0.1+
1989 04 30	675	(1.5- 2.8-)	1999 01 16	704	1.9+ 0.0	2000 01 31	704	0.3+ 0.2+
1989 05 04	675	1.1- 1.2-	1999 01 16	704	(1.1- 2.8+)	2000 01 31	704	0.2+ 0.5+
1989 05 04	675	1.4- 2.3-	1999 01 16	704	1.0- 0.4-	2000 03 03	704	1.1+ 0.6-
1991 10 12	413	0.1+ 0.8-	1999 01 19	704	0.4- 1.1-	2000 03 03	704	1.0+ 0.6+
1991 10 12	413	1.2+ 0.6-	1999 01 19	704	0.7- 0.2+	2000 03 03	704	0.1- 0.1-
1991 10 13	413	0.1- 0.3-	1999 01 19	704	(2.5- 0.0)	2000 03 03	704	0.9+ 0.9+
1998 12 14	704	0.0 0.2+	1999 01 19	704	0.4- 0.0	2000 03 03	704	(0.3+ 2.2+)
1998 12 14	704	0.7- 0.1-	1999 02 13	749	0.0 0.2+	2000 03 12	704	0.5+ 0.5+
1998 12 14	704	0.5+ 0.8-	1999 02 13	749	0.2+ 0.2-	2000 03 12	704	0.5+ 0.7+
1998 12 14	704	0.6- 0.9-	1999 02 15	749	0.5+ 0.1+	2000 03 12	704	0.2+ 0.4+
1998 12 14	704	0.9- 1.9-	1999 02 15	749	0.5- 0.0	2000 03 12	704	0.1+ 0.5+
1998 12 17	704	0.5+ 0.0	1999 02 15	749	0.7- 0.3+	2000 03 12	704	0.3- 0.7+
1998 12 17	704	0.5+ 0.1-	2000 01 03	704	0.0 0.5-	2000 03 15	704	0.7- 0.4-
1998 12 17	704	1.6+ 1.6+	2000 01 03	704	0.7- 0.6-	2000 03 15	704	0.4- 0.2-
1998 12 17	704	0.7+ 0.5-	2000 01 03	704	0.6- 0.4-	2000 03 15	704	0.6- 0.3-
1998 12 17	704	0.4+ 0.1-	2000 01 03	704	0.1+ 0.7-	2000 03 15	704	1.2- 0.1+
1999 01 16	704	0.6- 0.1+	2000 01 03	704	0.1+ 0.4-			

(13937)* 1989 PU = 1993 OA

Discovered 1989 Aug. 2 by C. S. Shoemaker at Palomar.

Id. G. V. Williams (*MPC* 22485)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	213.39004		(2000.0)	P	Q
<i>n</i>	0.24359268	ω	193.96498	+0.86191749	+0.38420980
<i>a</i>	2.5391785	Ω	138.04938	-0.40460068	+0.91445939
<i>e</i>	0.2447963	<i>i</i>	29.66746	-0.30560845	-0.12707024
<i>P</i>	4.05	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1989 08 02	675	0.7- 0.4+	1997 07 30	610	(2.0+ 3.0+)	1997 09 01	566	0.3- 0.4-
1989 08 02	675	1.2+ 0.2-	1997 07 30	610	(2.1+ 3.1+)	1997 09 01	566	0.3- 0.4-
1989 08 29	675	0.5- 0.1+	1997 08 02	566	0.7- 0.0	1997 09 08	124	1.6+ 0.9-
1989 08 29	675	0.1- 0.3-	1997 08 02	566	0.3- 0.1-	1997 09 08	124	0.9+ 0.0
1989 09 01	675	0.6+ 1.7-	1997 08 02	566	0.8- 0.4+	1999 01 23	704	1.2- 1.0+
1993 07 16	675	1.0- 1.1+	1997 08 02	560	0.4- 0.6+	1999 01 23	704	0.7- 0.5+
1993 07 18	801	0.5- 0.2+	1997 08 02	124	0.4- 0.4+	1999 01 23	704	(0.4+ 2.6+)
1993 07 18	801	0.3- 0.1+	1997 08 02	560	0.3- 0.4+	1999 01 23	704	0.7- 1.4+
1993 07 20	675	(3.9- 4.7+)	1997 08 02	560	0.2- 0.3+	2000 01 07	704	1.7+ 0.3-
1993 07 20	675	1.2- 1.3-	1997 08 02	560	0.3- 0.5+	2000 01 07	704	0.1+ 0.2-
1993 07 21	801	0.2- 0.1+	1997 08 02	124	0.4- 0.1+	2000 01 07	704	0.1- 0.4+
1993 07 21	801	0.3- 0.0	1997 08 02	124	0.6- 0.1-	2000 01 07	704	1.2- 1.5-
1993 08 20	675	(1.0+ 4.4-)	1997 08 03	566	0.2- 0.6+	2000 02 03	704	0.7+ 0.4+
1993 08 20	675	(0.5- 2.1-)	1997 08 03	566	0.3- 0.7+	2000 02 03	704	0.4- 0.3-
1993 08 22	675	0.4+ 0.5+	1997 08 03	566	0.5- 0.7+	2000 02 03	704	0.5+ 0.0
1993 08 22	675	1.6+ 0.4+	1997 08 12	355	1.6+ 0.3+	2000 03 04	704	0.3- 1.1+
1997 07 26	610	(1.4+ 2.7+)	1997 08 12	355	1.2+ 0.3-	2000 03 04	704	0.2+ 0.7+
1997 07 26	610	(1.4+ 2.7+)	1997 08 12	355	1.2+ 0.0	2000 03 04	704	0.8+ 0.8-
1997 07 26	610	(1.5+ 2.6+)	1997 08 12	355	1.6+ 0.3-			
1997 07 30	610	(1.9+ 2.8+)	1997 09 01	566	0.4- 0.4-			

(13938)* 1989 RP₁ = 1976 SS₆

Discovered 1989 Sept. 5 by E. F. Helin at Palomar.

Id. G. V. Williams (*MPC* 37625)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	174.33938		(2000.0)	P	Q
<i>n</i>	0.22851248	ω	155.53085	+0.74942045	+0.65872936
<i>a</i>	2.6496963	Ω	162.73816	-0.63844627	+0.74565139
<i>e</i>	0.2335455	<i>i</i>	12.98342	-0.17537204	+0.10039741
<i>P</i>	4.31	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1976 09 25	095	0.1- 0.2-	1998 11 13	704	0.0 1.2-	2000 01 29	704	0.1+ 0.4+
1989 09 02	675	0.7+ 0.1-	1998 11 13	704	0.6+ 1.6-	2000 02 04	704	0.0 0.6+
1989 09 02	675	1.4+ 0.0	1998 11 13	704	0.3- 0.5+	2000 02 04	704	0.4+ 0.2+
1989 09 04	675	0.3- 0.8+	1998 11 13	704	1.3- 0.2+	2000 02 04	704	0.5+ 0.0
1989 09 04	675	0.2+ 0.5+	1998 11 19	699	0.0 0.0	2000 02 12	704	(2.6+ 0.9+)
1989 09 05	675	0.2+ 1.5+	1998 11 19	699	0.4+ 0.1-	2000 02 12	704	0.4+ 1.9+
1989 09 05	675	1.2- 0.9+	1998 11 19	699	0.4+ 0.5-	2000 02 12	704	0.9+ 0.8+
1989 09 07	675	1.0- 0.6+	2000 01 05	699	0.5- 0.6-	2000 02 12	704	0.6+ 0.0
1989 09 07	675	1.2- 1.0+	2000 01 05	699	0.2+ 0.5-	2000 02 12	704	0.5+ 0.4+
1989 10 02	675	0.2+ 0.7-	2000 01 05	699	0.2- 0.1-	2000 02 28	703	0.9- 0.1+
1989 10 02	675	0.0 1.0-	2000 01 08	704	0.5+ 0.3+	2000 02 28	703	1.4- 0.8-
1989 10 03	809	1.1+ 0.1-	2000 01 08	704	0.7- 0.2+	2000 02 28	703	0.9- 0.7+
1989 10 03	809	1.8+ 0.4+	2000 01 08	704	0.5- 0.3-	2000 02 28	703	0.1- 0.1+
1989 10 03	809	(2.8+ 0.5+)	2000 01 08	704	0.1+ 0.1+	2000 03 05	704	0.1+ 0.2-
1989 10 06	675	0.6+ 2.4-	2000 01 08	704	0.3+ 0.7+	2000 03 05	704	1.2- 0.7-
1989 10 06	675	0.3+ 1.3-	2000 01 28	704	0.2+ 0.7-	2000 03 05	704	0.1- 0.3-
1989 10 07	809	0.7- 0.1+	2000 01 28	704	0.0 0.7+	2000 03 05	704	0.0 0.5+
1989 10 07	809	0.5- 0.1+	2000 01 28	704	0.4+ 0.6+	2000 03 05	704	0.1+ 0.9+
1989 10 07	809	0.5- 0.2-	2000 01 28	704	0.2- 1.2+	2000 03 09	704	0.4+ 0.4+
1989 10 08	809	0.6- 1.5+	2000 01 29	704	0.7+ 0.3-	2000 03 09	704	0.0 0.2+
1989 10 08	809	0.6- 1.4+	2000 01 29	704	0.2+ 0.1-	2000 03 09	704	0.1- 0.7-
1989 10 08	809	0.4- 1.4+	2000 01 29	704	0.2+ 0.3-	2000 03 09	704	0.5+ 0.7-
1998 11 13	704	0.5+ 0.7-	2000 01 29	704	0.2+ 0.3+	2000 03 09	704	0.7- 0.4-

(13939)* 1989 SJ₂

Discovered 1989 Sept. 26 by E. W. Elst at the European Southern

Observatory.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	249.49990		(2000.0)	P	Q
<i>n</i>	0.23770783	ω	120.30915	+0.38598149	+0.92197993
<i>a</i>	2.5809151	Ω	172.20117	-0.90547310	+0.38510047
<i>e</i>	0.1522020	<i>i</i>	13.27789	-0.17645610	+0.04062803
<i>P</i>	4.15	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1989 09 26	809	1.3+ 2.2-	1998 12 15	704	0.9+ 1.9+	2000 02 29	704	0.1+ 0.3-
1989 09 26	809	0.5+ 1.8-	1998 12 15	704	1.3- 1.1+	2000 03 03	704	0.2- 0.2+
1989 09 26	809	0.2+ 2.1-	1998 12 15	704	(0.5- 2.9+)	2000 03 03	704	0.2- 0.0
1989 09 28	809	0.4+ 1.1-	1998 12 15	704	(2.7+ 3.6+)	2000 03 03	704	0.2- 0.4+
1989 09 28	809	0.1- 1.7-	2000 02 02	704	0.1- 0.2-	2000 03 03	704	0.1- 0.3+
1989 09 28	809	1.0+ 1.4-	2000 02 02	704	1.2+ 0.1+	2000 03 03	704	0.1- 0.3+
1989 10 07	809	1.7- 0.2+	2000 02 02	704	0.4+ 0.7+	2000 03 08	704	0.7- 0.1+
1989 10 07	809	0.5- 0.5+	2000 02 02	704	1.1+ 0.9+	2000 03 08	704	0.2+ 0.1-
1989 10 07	809	0.4- 1.0+	2000 02 02	704	0.2+ 0.7+	2000 03 08	704	0.7+ 0.6-
1993 09 19	675	0.4+ 1.3+	2000 02 08	704	0.5- 0.7+	2000 03 08	704	0.6- 0.6-
1993 09 19	675	0.1- 0.9+	2000 02 08	704	0.8+ 0.1+	2000 03 08	704	0.7- 0.2+
1993 09 21	675	0.1- 1.2+	2000 02 08	704	0.2+ 0.3+	2000 03 11	704	0.1+ 0.0
1993 09 21	675	0.3+ 1.4+	2000 02 08	704	0.1+ 0.5-	2000 03 11	699	0.1+ 0.1+
1993 09 23	675	0.2+ 1.4+	2000 02 08	704	(0.6+ 2.5-)	2000 03 11	704	0.0 0.2-
1993 09 23	675	0.0 1.8+	2000 02 27	703	0.3- 0.1-	2000 03 11	704	0.4+ 0.2-
1993 10 15	675	0.8+ 0.3+	2000 02 27	703	0.4- 0.2+	2000 03 11	699	0.2- 0.6-
1993 10 15	675	1.2- 1.0-	2000 02 27	703	0.5- 0.1+	2000 03 11	704	0.3+ 0.1-
1997 08 25	367	0.5- 1.7+	2000 02 27	703	0.1+ 0.2-	2000 03 11	699	0.1+ 0.5+
1997 08 25	367	0.4- 1.7+	2000 02 29	704	0.1+ 0.2+	2000 03 11	704	0.6+ 0.1-
1997 08 31	560	0.0 0.8-	2000 02 29	704	0.6- 0.1-	2000 03 11	699	0.3- 0.1+
1997 08 31	560	0.3- 0.7-	2000 02 29	704	0.1+ 0.1-			
1997 08 31	560	0.2+ 0.1-	2000 02 29	704	0.2- 0.4-			

2000 MAR. 20

M.P.C. 39035

(13940)* 1989 SZ₃

Discovered 1989 Sept. 26 by E. W. Elst at the European Southern Observatory.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	189.33226	ω	219.38850	+0.88962338	+0.45213300		
<i>a</i>	2.6386111	Ω	113.61836	-0.39926786	+0.83843474		
<i>e</i>	0.1168721	<i>i</i>	4.02985	-0.22171022	+0.30430730		
<i>P</i>	4.29	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1989 09 26	809	2.2-	0.1-	1994 12 10	411	0.1+	1.5+	2000 02 04	704	0.5-	1.7-
1989 09 26	809	1.6-	0.5-	1994 12 10	411	0.2-	0.4+	2000 02 04	704	0.2-	0.4-
1989 09 26	809	(3.3-	2.1-)	1998 12 15	704	0.7+	1.3+	2000 03 02	703	0.2-	0.2+
1989 09 28	809	0.1+	1.2+	1998 12 15	704	0.5-	1.6+	2000 03 02	703	0.2+	0.3+
1989 09 28	809	0.4-	1.3+	1998 12 15	704	1.6-	1.5+	2000 03 02	703	0.3+	0.3-
1989 09 28	809	0.6-	0.4+	1998 12 15	704	0.8+	1.3+	2000 03 02	703	0.4+	0.0
1989 09 29	675	1.3+	0.7-	1998 12 15	704	0.9-	1.1+	2000 03 05	704	0.2+	0.1+
1989 09 29	675	1.6+	0.6-	1998 12 22	704	0.8-	1.2-	2000 03 05	704	0.1+	0.4-
1989 10 03	809	(3.4+	1.3+)	1998 12 22	704	0.3+	0.4-	2000 03 05	704	0.4+	0.0
1989 10 03	809	1.6+	0.3+	1998 12 22	704	0.0	0.3-	2000 03 05	704	0.3-	0.4-
1989 10 03	809	2.2+	1.2+	1998 12 22	704	0.7+	0.7-	2000 03 05	704	0.0	0.0
1989 10 03	809	(3.7+	5.0+)	1999 01 05	699	0.2+	1.2-	2000 03 11	699	0.2+	0.3-
1989 10 03	809	(3.4+	5.2+)	1999 01 05	699	0.3+	0.4-	2000 03 11	699	0.1-	0.1-
1989 10 03	809	(3.3+	4.9+)	1999 01 05	699	0.6+	1.2-	2000 03 11	699	0.6+	0.2+
1989 10 07	809	0.5+	1.4-	2000 02 03	012	0.4-	0.4-	2000 03 11	699	0.3+	0.1-
1989 10 07	809	0.0	1.2-	2000 02 03	012	1.0-	0.1+	2000 03 12	704	0.5+	0.3-
1989 10 07	809	0.5-	0.8-	2000 02 03	012	1.2-	0.6-	2000 03 12	704	0.8+	0.0
1989 10 08	809	0.1+	1.0-	2000 02 03	012	1.3-	0.5-	2000 03 12	704	0.4+	0.1+
1989 10 08	809	0.1+	1.8-	2000 02 03	012	1.5-	0.8-	2000 03 12	704	0.6+	0.3+
1989 10 08	809	0.5-	0.4-	2000 02 04	704	0.2+	0.0	2000 03 12	704	0.5+	0.2+
1994 12 09	411	0.1+	0.5+	2000 02 04	704	0.7-	0.2-				
1994 12 09	411	0.1-	0.4-	2000 02 04	704	0.1-	0.9+				

(13941)* 1989 TF₁₄ = 1996 FL₂₃

Discovered 1989 Oct. 2 by H. Debehogne at the European Southern Observatory.

Id. G. V. Williams (*MPC* 29611)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	267.43217	ω	200.90869	+0.05149693	+0.99712766		
<i>a</i>	2.5713986	Ω	72.07639	-0.90777907	+0.06991816		
<i>e</i>	0.0769913	<i>i</i>	3.34632	-0.41627541	-0.02911829		
<i>P</i>	4.12	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1989 09 02	675	1.2+	0.7+	1998 12 14	704	0.6-	0.6-	2000 02 11	704	0.8+	0.8+
1989 09 02	675	0.4+	0.1-	1998 12 14	704	0.3+	0.4-	2000 02 11	704	0.3-	0.0
1989 10 02	809	0.9-	0.4+	1998 12 14	704	0.4+	0.8-	2000 02 11	704	0.6+	0.4+
1989 10 02	809	0.1-	0.4+	1998 12 17	704	0.8-	0.6-	2000 03 02	703	0.2+	0.3+
1989 10 02	809	0.2+	0.8+	1998 12 17	704	0.7+	0.1-	2000 03 02	703	0.2+	0.5+
1989 10 03	809	0.7-	0.5+	1998 12 17	704	0.4+	0.7+	2000 03 02	703	0.1+	0.3+
1989 10 03	809	0.5-	0.5+	1998 12 17	704	0.8-	0.2-	2000 03 02	703	0.2-	0.1-
1989 10 03	809	0.2-	0.5+	1998 12 17	704	1.0-	0.1+	2000 03 12	703	0.1-	0.1+
1989 10 04	809	0.2-	0.5-	2000 01 04	704	0.1-	0.1-	2000 03 12	703	0.2+	1.1+
1989 10 04	809	0.1+	0.5-	2000 01 04	704	0.0	0.6-	2000 03 12	703	0.4+	0.4+
1989 10 04	809	0.2+	0.7-	2000 01 04	704	1.5-	1.7-	2000 03 12	703	0.1-	0.5+
1993 09 21	675	0.4+	0.1+	2000 01 04	704	1.7-	0.5-	2000 03 12	704	0.1+	0.3+
1993 09 21	675	0.7-	0.2-	2000 01 08	704	0.0	0.3-	2000 03 12	704	0.2-	0.6+
1996 03 26	691	0.6-	1.0-	2000 01 08	704	0.2-	0.2-	2000 03 12	704	0.1+	0.5+
1996 03 26	691	0.4-	0.7-	2000 01 08	704	0.2+	0.0	2000 03 12	704	0.4+	0.6+
1996 03 26	691	0.4-	0.9-	2000 01 08	704	0.6-	0.5-	2000 03 12	704	0.4+	0.8+
1998 12 14	704	0.4+	0.4+	2000 02 11	704	1.4+	0.2-				
1998 12 14	704	1.0+	1.2+	2000 02 11	704	1.1+	0.4+				

(13942)* 1989 VS₂ = 1989 WX₄ = 1989 WP₇ = 1989 XJ₃

Discovered 1989 Nov. 2 by K. Endate and K. Watanabe at Kitami.

Id. S. Nakano (*MPC* 22572)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	194.59448	ω	267.30451	+0.82411710	+0.52474310		
<i>a</i>	2.6559862	Ω	60.96091	-0.37223010	+0.78550823		
<i>e</i>	0.1896180	<i>i</i>	14.11760	-0.42693766	+0.32805716		
<i>P</i>	4.33	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1989 11 02	400	(4.8-	3.3+)	1993 10 10	675	0.1-	0.1+	2000 01 31	704	0.2+	0.3-
1989 11 02	400	0.6-	1.2+	1998 12 14	704	0.6+	0.6-	2000 03 04	704	0.3-	0.8+
1989 11 17	400	0.1-	1.2-	1998 12 14	704	1.2+	1.7-	2000 03 04	704	0.6-	1.0+
1989 11 17	400	0.4+	1.0+	1998 12 14	704	0.2+	0.7-	2000 03 04	704	0.6-	0.6+
1989 11 21	095	(3.3-	3.5+)	1998 12 14	704	0.3-	1.2-	2000 03 04	704	0.2-	0.8+
1989 11 21	095	(2.8-	1.1-)	1998 12 14	704	0.3-	1.1-	2000 03 04	704	0.6-	1.3+
1989 12 02	808	0.0	0.1-	1998 12 17	704	0.5+	0.1+	2000 03 15	704	0.2+	0.2+
1989 12 02	808	0.3-	0.7+	1998 12 17	704	0.1+	0.2+	2000 03 15	704	0.4+	0.4+
1993 09 19	675	0.1+	0.2+	1998 12 17	704	0.2-	0.7+	2000 03 15	704	0.8+	0.2-
1993 09 19	675	0.4-	0.2+	1998 12 17	704	0.2+	0.5+	2000 03 15	704	0.7+	0.1+
1993 09 20	675	0.9-	1.4+	1998 12 17	704	0.5-	0.9+	2000 03 15	704	1.4+	0.2-
1993 09 20	675	1.0-	1.5+	2000 01 31	704	0.8+	0.8+				
1993 10 10	675	0.1-	0.1-	2000 01 31	704	0.3+	0.7+				

(13943)* 1990 HG = 1981 UF₂₃

Discovered 1990 Apr. 26 by E. F. Helin at Palomar.

Id. S. J. Bus (*MPC* 20506)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	305.00183	ω	166.63721	-0.79609111	+0.52278505		
<i>a</i>	2.2807579	Ω	49.17780	-0.58566346	-0.53864598		
<i>e</i>	0.0757460	<i>i</i>	23.75635	-0.15243771	-0.66072407		
<i>P</i>	3.44	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 10 24	675	0.1-	1.0-	1998 10 16	704	0.9-	0.5+	2000 02 15	704	1.4+	0.3-
1981 10 25	675	1.2+	0.5-	1998 10 16	704	0.7-	0.7+	2000 02 26	704	0.0	0.2-
1990 04 26	675	1.5+	0.5+	1998 10 16	704	0.7-	1.2+	2000 02 26	704	0.2-	0.0
1990 04 26	675	1.4-	0.8-	1998 10 16	704	0.3-	1.4+	2000 02 26	704	0.3-	0.5+
1990 04 28	675	0.1+	0.1+	1998 11 13	704	0.1+	0.9-	2000 02 26	704	0.3-	0.5+
1990 04 28	675	0.7-	0.4+	1998 11 13	704	1.3-	0.7-	2000 03 13	704	0.6-	0.2+
1990 05 18	675	0.1+	0.5+	1998 11 13	704	(2.1-	1.6+)	2000 03 13	704	0.5+	0.5+
1990 05 18	675	0.2+	1.5-	1998 11 13	704	1.7+	0.7-	2000 03 13	704	0.3+	0.1+
1990 05 21	675	(2.6-	1.6-)	1998 11 13	704	1.3-	1.6+	2000 03 13	704	0.2-	0.1+
1990 05 21	675	0.1+	0.9+	1998 12 14	699	1.1+	0.3+	2000 03 15	704	0.7-	0.0
1995 11 11	608	1.3+	0.1-	1998 12 14	699	0.4-	0.7-	2000 03 15	704	0.7-	1.1-
1995 11 11	608	1.0+	0.2-	2000 02 15	704	(2.7+	1.0+)	2000 03 15	704	0.1-	0.1+
1995 11 12	608	0.3+	0.3-	2000 02 15	704	1.2+	2.0+	2000 03 15	704	0.1+	0.6-
1995 11 12	608	0.8-	0.6-	2000 02 15	704	0.5+	1.1+	2000 03 15	704	0.2-	0.6-
1998 10 16	704	0.7-	0.2+	2000 02 15	704	1.1+	0.1+				

(13944)* 1990 OX₁ = 1996 CR

Discovered 1990 July 29 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 27103)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	172.88077	ω	280.19288	+0.98724122	-0.12411773		
<i>a</i>	2.3974951	Ω	86.98796	+0.15402902	+0.90321208		
<i>e</i>	0.1184622	<i>i</i>	5.73257	-0.04037114	+0.41085610		
<i>P</i>	3.71	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1989 03 30	675	1.8+	1.6+	1996 04 09	327	0.2-	0.4+	2000 01 13	327	0.5+	0.7-
1989 03 30	675	0.7-	2.0+	1996 04 09	327	0.2+	0.2+	2000 01 13	327	0.7+	0.5-
1990 07 29	675	0.2-	1.0-	1996 04 09	327	0.2-	0.2-	2000 01 13	327	1.0+	0.8-
1990 07 29	675	0.8-	0.6+	1998 10 30	704	(2.0+	1.2-)	2000 01 19	327	0.8-	0.2-
1990 07 30	675	0.2+	0.1-	1998 10 30	704	0.6+	0.9-	2000 01 19	327	0.9+	1.0-
1990 07 30	675	0.6-	0.7+	1998 10 30	704	0.6-	0.4+	2000 01 19	327	0.3-	0.7-
1990 09 15	675	0.8+	0.9-	1998 10 30	704	0.6-	1.6-	2000 01 19	327	0.1-	0.8-
1990 09 15	675	0.5+	0.7-	1998 11 28	327	0.2+	0.0	2000 01 19	327	0.1-	1.4-
1990 09 17	675	0.0	0.7-	1998 11 28	327	0.2+	0.2-	2000 02 26	012	0.1-	0.2+
1990 09 17	675	0.4+	0.5-	1998 11 28	358	0.2-	0.6+	2000 02 26	012	0.2-	0.0
1990 09 20	675	(2.7-	0.7-)	1998 11 28	358	0.6+	0.3-	2000 02 26	012	0.2-	0.0
1990 09 20	675	0.8+	0.6+	1998 11 28	327	0.1+	0.1-	2000 02 26	012	0.5-	0.2+
1996 02 01	327	0.5-	0.1-	1998 12 10	684	0.3-	0.2+	2000 02 26	012	0.4-	0.4+
1996 02 01	327	0.4-	0.0	1998 12 10	684	0.3-	0.2+	2000 02 29	704	0.3+	0.0
1996 02 01	327	0.3-	0.3+	1998 12 11	684	0.8-	0.2-	2000 02 29	704	0.1-	0.4+
1996 02 03	327	0.7+	0.0	1998 12 11	684	0.6-	0.2-	2000 02 29	704	0.4-	0.7+
1996 02 03	327	0.4+	0.2+	1998 12 15	704	0.5+	0.7-	2000 02 29	704	0.1-	0.3-
1996 02 03	327	1.1+	0.4+	1998 12 15	704	1.2+	0.7+	2000 02 29	704	0.2+	0.8+
1996 03 25	327	0.0	0.2-	1998 12 15	704	0.1-	0.5-	2000 03 08	704	0.1+	0.2-
1996 03 25	327	0.1+	0.6-	1998 12 15	704	0.2-	0.3+	2000 03 08	704	0.2+	0.3+
1996 03 25	327	0.5+	0.6-	1998 12 15	704	0.6+	0.2+	2000 03 08	704	0.5-	0.3+
1996 03 25	327	0.0	0.5-	1998 12 22	704	0.3-	0.1+	2000 03 08	704	0.2-	0.1+
1996 03 25	327	0.4-	0.4-	1998 12 22	704	0.3-	1.0+	2000 03 08	704	0.4-	0.1-
1996 03 25	327	0.2+	0.1+	1998 12 22	704	0.7-	1.3+	2000 03 11	699	0.3-	0.2+
1996 03 27	327	0.4+	0.3-	1998 12 22	704	0.3-	0.9+	2000 03 11	699	0.4-	0.3+
1996 03 27	327	1.2-	0.5-	2000 01 08	704	1.6+	1.3-	2000 03 11	699	0.4-	0.6+
1996 03 27	327	0.0	0.0	2000 01 08	704	0.4+	1.4-	2000 03 11	699	0.5-	0.7+
1996 04 06	327	0.0	0.0	2000 01 08	704	0.2+	1.9-	2000 03 12	703	0.0	0.4+
1996 04 06	327	0.4+	0.1-	2000 01 08	704	(1.0-	2.0-)	2000 03 12	703	0.4-	0.7+
1996 04 06	327	0.4-	0.1-	2000 01 08	704	0.1+	1.6-	2000 03 12	703	0.1+	0.5+
1996 04 07	327	0.1+	0.6+	2000 01 12	327	0.0	0.9-	2000 03 12	703	0.2+	0.2+
1996 04 07	327	0.9-	0.5+	2000 01 12	327	0.8-	1.6-				
1996 04 07	327	0.1-	0.1+	2000 01 12	327	0.4+	1.2-				

(13945)* 1990 OH₂ = 1985 SN₆ = 1996 RN₆

Discovered 1990 July 29 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 29298)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	284.92009		(2000.0)	P	Q
<i>n</i>	0.17474789	ω	280.01879	-0.00920011	+0.99984071
<i>a</i>	3.1685563	Ω	349.41807	-0.88172941	-0.01532577
<i>e</i>	0.1840700	<i>i</i>	4.77730	-0.47166579	+0.00914744
<i>P</i>	5.64	<i>H</i>	12.6	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1985 09 22	695	0.8-	0.6+	1998 12 14	699	0.7-	1.2-	2000 02 29	704	0.3+	0.9+
1990 07 29	675	0.6-	0.4-	1999 02 10	704	0.2-	0.3-	2000 02 29	704	0.1+	0.3+
1990 07 29	675	0.3-	0.1+	1999 02 10	704	0.6+	0.1-	2000 02 29	704	1.1-	0.2-
1990 07 30	675	0.2-	0.2+	1999 02 10	704	0.8+	0.1+	2000 03 08	704	0.0	0.3-
1990 07 30	675	0.1+	0.1-	1999 02 10	704	1.3+	1.4-	2000 03 08	704	0.8+	0.1-
1990 09 14	675	1.2+	1.6-	1999 02 10	704	(3.4-	1.4-)	2000 03 08	704	0.5-	0.3+
1990 09 14	675	1.5+	1.9-	2000 02 08	704	0.5+	0.1-	2000 03 08	704	0.5-	1.9-
1990 09 15	675	(2.1+	0.3-)	2000 02 08	704	0.3+	0.2+	2000 03 08	704	1.1-	1.7-
1990 09 15	675	1.4+	0.1-	2000 02 08	704	0.3-	0.1+	2000 03 11	704	0.4+	0.2+
1994 03 04	691	0.6-	0.2-	2000 02 08	704	0.0	0.5+	2000 03 11	704	0.0	0.6+
1994 03 04	691	0.7-	0.1-	2000 02 08	704	1.0-	0.2-	2000 03 11	704	0.0	0.5+
1994 03 04	691	0.8-	0.0	2000 02 11	704	0.8+	0.1-	2000 03 11	704	0.0	0.3+
1996 09 05	691	0.2-	0.3+	2000 02 11	704	0.6+	0.5+	2000 03 11	704	0.0	0.5+
1996 09 05	691	0.4-	0.3+	2000 02 11	704	0.3+	1.0+	2000 03 14	703	0.4+	0.4+
1996 09 05	691	0.3-	0.6+	2000 02 11	704	0.5-	0.2+	2000 03 14	703	0.7+	0.3+
1996 09 08	691	0.2+	0.2-	2000 02 11	704	1.0-	0.4-	2000 03 14	703	1.0+	0.7+
1996 09 08	691	0.2+	0.0	2000 02 27	703	0.0	0.4+	2000 03 14	703	0.3+	0.7+
1996 09 08	691	0.3+	0.1+	2000 02 27	703	0.3-	0.2+	2000 03 14	608	0.1-	0.8-
1996 09 19	691	0.9-	0.5+	2000 02 27	703	0.0	0.1+	2000 03 14	608	0.5+	1.0-

1996 09 19	691	0.8-	0.4+	2000 02 27	703	0.5+	0.3+	2000 03 14	608	0.0	1.0-
1996 09 19	691	0.9-	0.2+	2000 02 29	704	0.2-	0.8+				

(13946)* 1990 OK₃ = 1994 TM₁ = 2000 CR₃₄

Discovered 1990 July 27 by H. E. Holt at Palomar.

Id. S. Nakano (*MPC* 24102), B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	191.29163		(2000.0)	P	Q
<i>n</i>	0.26383566	ω	204.29490	+0.88365269	+0.46620812
<i>a</i>	2.4075781	Ω	127.84902	-0.42021902	+0.82994591
<i>e</i>	0.2150302	<i>i</i>	3.08672	-0.20633444	+0.30633277
<i>P</i>	3.74	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1990 07 27	675	1.8-	0.3-	1994 10 03	400	(2.6-	1.8-)	2000 02 10	120	1.5-	0.2+
1990 07 27	675	0.9-	0.6-	1994 10 03	400	0.5+	1.2-	2000 02 10	120	0.6-	1.0-
1990 07 30	675	(1.9-	2.9-)	1996 01 18	327	0.2+	0.2+	2000 02 10	120	2.0+	0.3-
1990 07 30	675	1.4-	0.7+	1996 01 18	327	0.1+	0.1+	2000 02 13	104	0.3-	0.2-
1990 08 15	372	(3.2-	1.1-)	1996 01 18	327	0.4-	0.0	2000 02 13	104	0.8+	0.8+
1990 08 15	372	(3.6-	1.0+)	1997 05 03	596	0.3+	0.3-	2000 02 13	104	1.2-	0.4-
1990 08 18	372	0.6+	0.7+	1997 05 03	596	0.5+	0.2-	2000 02 13	104	1.2-	0.3+
1990 08 18	372	0.8+	0.2-	1997 05 03	596	0.2+	0.0	2000 02 24	104	0.1+	0.8-
1990 08 20	372	(4.2+	0.3-)	1997 05 10	596	0.9-	0.5-	2000 02 24	104	0.5-	1.0-
1990 08 20	372	(5.4+	0.3-)	1997 05 10	596	0.9-	0.4-	2000 03 02	012	0.6-	0.3+
1990 09 14	675	1.1+	1.0-	1997 05 10	596	0.9-	0.4-	2000 03 02	012	0.8-	0.2-
1990 09 14	675	0.7+	0.5-	2000 02 04	704	0.6+	0.1+	2000 03 02	012	0.7-	0.0
1990 09 15	675	1.6+	1.0-	2000 02 04	704	0.4-	0.7-	2000 03 02	012	0.1-	0.1-
1990 09 15	675	1.1+	0.5-	2000 02 04	704	0.4+	1.1+	2000 03 02	012	0.4-	0.4-
1992 01 02	691	0.0	0.2-	2000 02 04	704	0.1+	0.4+	2000 03 11	049	1.0+	1.1-
1992 01 02	691	0.2+	0.5+	2000 02 04	704	0.3+	0.2-	2000 03 11	049	0.7+	1.3-
1992 01 02	691	0.2+	0.3-	2000 02 04	104	1.9+	0.2+	2000 03 11	049	1.1+	1.4-
1992 02 01	691	0.5-	0.5-	2000 02 04	104	1.6+	0.8-	2000 03 12	704	0.3+	0.1+
1992 02 01	691	0.4-	0.9-	2000 02 06	104	1.0-	1.1+	2000 03 12	704	0.3-	0.5+
1992 02 01	691	1.0-	0.7-	2000 02 06	104	0.5-	0.9+	2000 03 12	704	0.4-	0.2+
1994 10 02	400	0.1+	0.3+	2000 02 06	104	1.8+	0.6-	2000 03 12	704	0.3+	0.5+
1994 10 02	400	0.7-	0.7-	2000 02 10	120	1.0-	0.0	2000 03 12	704	0.1-	0.6+

(13947)* 1990 QB₅ = 1992 EH₆ = 1998 TB₆

Discovered 1990 Aug. 24 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 32922)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	120.11925		(2000.0)	P	Q
<i>n</i>	0.25501126	ω	337.22282	+0.71432093	-0.69333797
<i>a</i>	2.4628038	Ω	67.03357	+0.65691560	+0.61751254
<i>e</i>	0.1816034	<i>i</i>	5.92324	+0.24126230	+0.37143064
<i>P</i>	3.86	<i>H</i>	13.6	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1990 08 24	675	0.2-	0.1-	1998 11 10	704	1.2-	0.1+	1999 02 02	699	0.1-	0.2+
1990 08 24	675	0.2-	0.2-	1998 11 10	704	0.2-	0.3+	1999 02 02	699	0.9-	0.4+
1990 08 26	675	1.5+	0.0	1998 11 10	704	0.6-	0.5+	1999 02 02	699	0.7-	0.4-
1990 08 26	675	0.4-	0.3-	1998 11 10	704	0.7-	1.2+	2000 01 08	704	0.2-	0.9-
1990 08 29	675	0.4-	0.0	1998 11 11	704	0.2+	0.2-	2000 01 08	704	0.9-	1.3-
1992 03 01	809	0.4+	0.0	1998 11 11	704	0.2-	0.3-	2000 01 08	704	0.1-	1.1-
1992 03 02	809	(4.7-	1.6-)	1998 11 11	704	0.2-	0.7-	2000 01 08	704	1.9+	0.2+
1992 03 05	809	(4.8-	0.9-)	1998 11 11	704	0.7-	0.9-	2000 01 08	704	0.7+	0.6-
1992 03 07	809	0.4-	1.8-	1998 11 11	704	0.1+	0.2-	2000 02 29	704	0.3+	0.1+
1996 03 21	691	0.4-	0.2-	1998 11 11	127	0.1-	0.8-	2000 02 29	704	0.6-	0.1+
1996 03 21	691	0.5-	0.2-	1998 11 11	127	0.1+	0.7-	2000 02 29	704	0.1-	0.7+
1996 03 21	691	0.5-	0.1-	1998 12 08	699	0.4+	0.4+	2000 03 08	704	1.4+	0.1-
1998 08 31	704	1.2-	0.4+	1998 12 08	699	0.6+	0.2-	2000 03 08	704	0.2-	0.6+
1998 08 31	704	1.3+	0.0	1998 12 08	699	0.2-	0.6+	2000 03 08	704	0.5+	0.2-
1998 08 31	704	0.3-	0.7-	1999 01 06	699	0.2-	0.5-	2000 03 08	704	0.7+	0.8+
1998 08 31	704	0.0	0.5-	1999 01 06	699	0.2+	0.5-	2000 03 08	704	0.5+	0.5+
1998 08 31	704	0.4+	0.9-	1999 01 06	699	0.1+	0.4-	2000 03 11	699	0.4-	0.5+

2000 MAR. 20

M.P.C. 39037

1998 09 18	809	(2.0+ 1.7+)	1999 01 08	704	0.1- 0.9-	2000 03 11	699	0.6- 0.4+
1998 09 18	809	1.6+ 1.4+	1999 01 08	704	1.0+ 1.1-	2000 03 11	699	0.1- 0.2+
1998 09 18	809	0.7+ 0.9+	1999 01 08	704	0.4+ 0.2-	2000 03 11	699	0.6- 0.8+
1998 09 19	809	0.1- 0.3+	1999 01 08	704	1.5- 1.9+	2000 03 12	704	0.1+ 0.9-
1998 09 19	809	0.3+ 0.1+	1999 01 08	704	0.6- 0.0	2000 03 12	704	0.7+ 0.5+
1998 09 19	809	0.3+ 0.1-	1999 01 11	704	1.2+ 0.9-	2000 03 12	704	0.3- 0.7+
1998 10 15	120	0.1- 0.7+	1999 01 11	704	0.6+ 0.9+	2000 03 12	704	0.0 0.0
1998 10 16	120	0.2- 0.4+	1999 01 11	704	0.3- 1.1+	2000 03 12	704	0.0 1.0+
1998 10 16	120	0.8- 0.5+	1999 01 11	704	(1.2+ 3.6-)	2000 03 12	704	0.2+ 0.1-
1998 10 16	120	0.3- 0.5+	1999 01 11	327	0.2+ 0.5-	2000 03 12	704	0.6+ 0.1+
1998 10 18	809	(4.8+ 5.1+)	1999 01 11	327	0.1+ 0.5-	2000 03 12	704	0.2+ 0.2+
1998 10 18	809	(3.9+ 4.3+)	1999 01 11	327	0.2+ 0.4-	2000 03 12	704	0.1+ 0.2-
1998 10 18	809	(3.7+ 3.9+)	1999 01 14	327	0.2+ 0.2+	2000 03 13	704	0.4- 0.3+
1998 10 19	809	(4.0+ 4.7+)	1999 01 14	327	0.2+ 0.1+	2000 03 13	704	0.0 0.1-
1998 10 19	809	(4.3+ 4.7+)	1999 01 14	327	0.1+ 0.3-	2000 03 13	704	0.1+ 0.1-
1998 10 19	809	(4.0+ 4.3+)	1999 01 16	327	0.0 0.0	2000 03 13	704	0.1+ 0.4+
1998 10 20	120	0.0 0.4+	1999 01 16	327	0.3+ 0.5+	2000 03 13	704	0.5- 0.3+
1998 10 20	120	0.1+ 0.4+	1999 01 16	327	0.5+ 0.0			
1998 11 10	704	(0.6- 2.3+)	1999 01 16	327	0.6+ 0.0			

(13948)* 1990 QB₆ = 1990 SX₂₇ = 1979 VE₁ = 1993 HN₅

Discovered 1990 Aug. 24 by H. E. Holt at Palomar.

Id. S. Nakano (d, *MPC* 20912; *MPC* 22229), H. E. Holt (*MPC* 22229)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	220.58932		(2000.0)		P		Q
<i>n</i>	0.26451031	ω	318.60342		+0.73905280		+0.67363761
<i>a</i>	2.4034826	Ω	359.02510		-0.54776162		+0.59778137
<i>e</i>	0.2319752	<i>i</i>	12.38924		-0.39212008		+0.43459153
<i>P</i>	3.73	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 11 14	095	0.2- 0.4+	1993 04 18	675	0.3+ 0.3-	2000 02 04	704	0.0 0.1+
1990 08 24	675	0.6- 0.4-	1998 12 07	327	0.9- 0.1-	2000 02 04	704	0.6- 0.9+
1990 08 24	675	0.4- 0.5-	1998 12 07	327	0.8- 0.0	2000 02 16	703	0.1+ 0.6+
1990 09 18	675	1.0- 0.9+	1998 12 07	327	0.7- 0.2+	2000 02 16	703	0.6+ 1.0+
1990 09 18	675	0.4- 0.8+	1998 12 14	704	0.6+ 0.6-	2000 02 16	703	2.1- 1.1+
1990 09 20	675	(2.9- 4.0-)	1998 12 14	704	1.1+ 0.5-	2000 02 16	703	0.4+ 0.1-
1990 09 20	675	0.9- 0.9-	1998 12 14	704	0.4- 0.4-	2000 02 26	703	0.8- 0.1+
1990 09 21	809	0.7+ 0.9-	1998 12 14	704	0.2+ 0.5-	2000 02 26	703	0.9+ 1.7-
1990 09 21	809	1.0+ 1.0-	1998 12 14	704	0.3+ 1.0-	2000 02 26	703	0.1+ 0.6-
1990 09 21	809	1.5+ 0.9-	1998 12 17	704	0.1+ 0.7-	2000 02 26	703	0.3+ 0.2+
1990 09 22	809	1.0- 0.7+	1998 12 17	704	0.7+ 0.5-	2000 03 11	699	0.0 0.2+
1990 09 22	809	0.4- 0.8+	1998 12 17	704	1.7+ 2.0+	2000 03 11	699	0.0 0.3+
1990 09 22	809	0.2+ 0.9+	1998 12 17	704	1.7- 0.3+	2000 03 11	699	0.4+ 0.3+
1990 09 23	095	0.6+ 1.9+	2000 02 01	703	0.9+ 0.5+	2000 03 11	699	0.4- 0.3+
1990 10 10	400	(1.2+ 3.7-)	2000 02 01	703	0.0 0.2+	2000 03 12	704	0.2+ 0.4+
1990 10 10	400	(1.6+ 3.0-)	2000 02 01	703	0.1+ 0.4+	2000 03 12	704	0.1- 0.1-
1990 10 10	400	(3.9+ 0.4-)	2000 02 01	703	0.4+ 0.8+	2000 03 12	704	0.3- 0.5+
1990 10 11	400	(3.3- 1.1-)	2000 02 04	704	0.3+ 0.3-	2000 03 12	704	0.6+ 0.8-
1990 10 11	400	0.2- 0.6-	2000 02 04	704	0.6+ 0.5-			
1993 04 18	675	0.5- 0.6-	2000 02 04	704	0.1+ 1.1-			

(13949)* 1990 RN₃ = 1993 HM

Discovered 1990 Sept. 14 by H. E. Holt at Palomar.

Id. S. Nakano (*MPC* 22230)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	267.43763		(2000.0)		P		Q
<i>n</i>	0.26883806	ω	94.05816		+0.07422297		+0.99724162
<i>a</i>	2.3776188	Ω	180.19933		-0.94866183		+0.07050453
<i>e</i>	0.2019201	<i>i</i>	5.48047		-0.30746004		+0.02320066
<i>P</i>	3.67	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1990 08 29	095	1.1- 0.1-	1997 07 22	610	0.5+ 1.1+	2000 02 29	704	0.3+ 1.3+
1990 08 29	095	(3.4- 0.3-)	1997 07 22	610	0.7+ 1.1+	2000 02 29	704	0.5+ 0.2+

1990 09 14	675	0.4+ 1.5-	1998 12 13	734	0.4- 0.8+	2000 02 29	704	0.8+ 0.8+
1990 09 14	675	1.6+ 1.0-	1998 12 13	734	0.5- 0.7+	2000 02 29	704	0.8+ 0.8+
1990 09 18	675	0.6+ 1.5-	1998 12 13	734	0.5- 0.9+	2000 03 03	704	0.1- 0.1+
1990 09 18	675	0.7+ 2.0-	1998 12 15	734	1.0+ 0.3-	2000 03 03	704	0.0 0.2+
1990 10 22	675	1.1- 0.6+	1998 12 15	734	0.8- 0.1+	2000 03 03	704	0.1+ 0.4+
1990 10 22	675	0.8+ 0.9+	1998 12 15	704	0.5- 0.2-	2000 03 03	704	0.9+ 1.3+
1993 03 24	675	1.3+ 0.2-	1998 12 15	704	1.2- 1.1+	2000 03 03	704	0.1+ 1.0+
1993 03 24	675	1.3+ 0.9-	1998 12 15	704	1.1+ 1.4+	2000 03 11	704	0.0 0.3-
1993 04 15	675	1.3- 0.6-	2000 02 02	704	0.3+ 0.1-	2000 03 11	704	0.1- 0.3-
1993 04 15	675	1.3- 0.2+	2000 02 02	704	0.1- 0.6+	2000 03 11	704	0.2- 0.3-
1993 04 16	675	1.4- 1.6-	2000 02 02	704	0.1- 0.1-	2000 03 11	699	0.5- 0.2-
1993 04 16	675	1.6- 0.0	2000 02 02	704	0.1- 0.5+	2000 03 11	704	0.1- 0.4-
1993 04 16	400	0.5+ 0.3+	2000 02 02	704	0.1- 1.5+	2000 03 11	704	0.2- 0.5-
1993 04 16	400	1.9+ 0.4-	2000 02 06	704	0.1+ 1.2-	2000 03 11	699	0.4- 0.0
1993 04 19	675	0.3- 1.1-	2000 02 06	704	0.5+ 0.4-	2000 03 11	699	0.3- 0.0
1993 04 19	675	0.1+ 1.3-	2000 02 06	704	0.3+ 0.5-	2000 03 11	699	1.2- 0.0
1993 04 20	400	(2.5+ 0.9-)	2000 02 06	704	0.3- 0.4-	2000 03 15	704	0.5- 0.1+
1993 04 20	400	0.6- 0.8+	2000 02 12	704	0.4+ 0.1-	2000 03 15	704	0.1- 0.4-
1997 07 15	610	0.5- 1.5+	2000 02 12	704	0.2+ 0.3+	2000 03 15	704	1.3+ 0.4-
1997 07 15	610	0.8- 1.5+	2000 02 12	704	0.1+ 0.0	2000 03 15	704	0.5- 0.2+
1997 07 15	610	1.1- 1.5+	2000 02 12	704	0.3+ 0.5+	2000 03 15	704	1.0+ 0.0
1997 07 22	610	0.5+ 1.0+	2000 02 12	704	0.6- 0.3+			

(13950)* 1990 RP₉ = 1978 EM₇ = 1994 UX

Discovered 1990 Sept. 14 by H. E. Holt at Palomar.

Id. S. Nakano (*MPC* 24388)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	259.74463		(2000.0)		P		Q
<i>n</i>	0.27190525	ω	43.91232		+0.36154209		+0.92796210
<i>a</i>	2.3597047	Ω	247.47176		-0.88015184		+0.30769883
<i>e</i>	0.1147952	<i>i</i>	5.61694		-0.30760372		+0.21025643
<i>P</i>	3.62	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1971 05 13	675	0.5+ 0.9+	1994 11 29	675	1.2- 1.5+	1998 12 16	704	0.2- 0.2-
1971 05 14	675	0.7+ 0.1+	1994 11 29	675	2.0- 1.2+	1998 12 22	704	0.6+ 0.2+
1978 03 05	095	(3.7- 0.1-)	1997 07 15	610	0.5+ 0.0	1998 12 22	704	(2.3+ 2.4+)
1990 09 14	675	1.2- 0.1-	1997 07 15	610	0.7+ 0.0	1998 12 22	704	1.3+ 0.5-
1990 09 14	675	1.1- 0.2-	1997 07 15	610	0.8+ 0.1-	1998 12 22	704	2.0+ 0.9-
1990 09 18	675	0.2- 0.1-	1997 07 22	610	0.5- 0.2-	2000 01 10	704	0.3- 0.2-
1990 09 18	675	0.5+ 0.0	1997 07 22	610	0.2+ 0.2-	2000 01 10	704	0.2- 0.0
1990 09 19	675	0.3+ 1.5+	1997 07 22	610	0.9+ 0.2-	2000 01 10	704	0.5+ 0.4+
1990 09 19	675	(0.6+ 4.1-)	1998 12 08	689	0.7- 1.1+	2000 01 10	704	0.4- 0.9-
1994 10 03	675	0.3- 0.1-	1998 12 15	704	0.5+ 1.8-	2000 03 03	703	1.8- 1.6+
1994 10 03	675	0.4+ 1.0-	1998 12 15	704	0.3+ 0.2+	2000 03 03	703	1.8+ 0.3+
1994 10 31	905	0.3+ 0.7+	1998 12 15	704	0.3- 0.3-	2000 03 03	703	0.5- 0.0
1994 10 31	905	1.1- 0.6+	1998 12 15	704	0.8- 0.2-	2000 03 03	703	0.7- 0.2+
1994 11 03	905	0.5- 0.2-	1998 12 15	704	1.1- 0.0	2000 03 09	704	0.0 0.5+
1994 11 03	905	0.6- 0.0	1998 12 16	744	0.3+ 0.6-	2000 03 09	704	0.1- 0.6+
1994 11 11	385	0.3- 1.3+	1998 12 16	744	0.0 0.4-	2000 03 09	704	0.2- 0.0
1994 11 11	385	0.2- 1.2+	1998 12 16	744	0.4+ 0.6-	2000 03 13	704	0.2+ 0.4+
1994 11 11	385	0.6- 1.3+	1998 12 16	704	0.4+ 0.4-	2000 03 13	704	0.1+ 0.6+
1994 11 25	385	0.3+ 0.3+	1998 12 16	704	0.0 1.2-	2000 03 13	704	0.2- 0.9+
1994 11 25	385	0.0 0.7+	1998 12 16	704	0.5+ 0.8-	2000 03 13	704	0.2+ 0.9+
1994 11 25	385	0.1- 1.0+	1998 12 16	704	0.5+ 0.4-	2000 03 13	704	0.4+ 1.3+

(13951)* 1990 SD₅ = 1989 EQ₇ = 1996 AV₁₄

Discovered 1990 Sept. 22 by E. W. Elst at the European Southern

Observatory.

Id. K. Ichikawa (*MPC* 27711), G. V. Williams (*MPC* 29611)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	285.36777		(2000.0)		P		Q	
<i>n</i>	0.26418706	ω	213.60187		−0.34769705		+0.93700671	
<i>a</i>	2.4054427	Ω	36.08394		−0.84721379		−0.29864879	
<i>e</i>	0.1633843	<i>i</i>	3.26495		−0.40166597		−0.18118312	
<i>P</i>	3.73	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	1	
Residuals in seconds of arc								
1989 03 06	033	(0.5+ 3.3−)	1998 10 29	704	1.6+ 0.2−	2000 02 11	704	0.1+ 0.9−
1989 03 06	033	(0.1− 3.2−)	1998 10 29	704	0.5+ 1.5+	2000 02 11	704	0.1+ 0.2+
1989 03 07	675	0.1+ 1.0−	1998 10 29	704	0.2− 0.9+	2000 02 11	704	0.2− 0.5−
1989 03 07	675	0.4+ 0.2−	1998 11 18	704	0.1− 0.8+	2000 02 25	703	0.5− 0.2−
1989 03 29	675	0.5− 0.2+	1998 11 18	704	0.4− 0.6+	2000 02 25	703	0.3− 0.1+
1989 03 29	675	0.6+ 0.3−	1998 11 18	704	0.7+ 0.9+	2000 02 25	703	0.7− 0.2+
1990 09 15	809	0.8− 0.6+	1998 11 18	704	1.0+ 0.1−	2000 02 25	703	0.3+ 1.5+
1990 09 15	809	1.7− 0.0	1998 11 24	704	0.2− 1.6−	2000 03 05	704	0.8+ 0.1+
1990 09 15	809	1.2− 0.9+	1998 11 24	704	0.1+ 0.1−	2000 03 05	704	1.0+ 0.4+
1990 09 22	809	(4.4+ 1.0−)	1998 11 24	704	0.8− 0.8−	2000 03 05	704	1.0+ 0.5+
1990 09 22	809	1.2+ 1.2−	1998 11 24	704	0.3+ 0.4+	2000 03 05	704	1.1+ 0.3+
1990 09 22	809	(2.6+ 1.8−)	2000 02 01	703	0.8− 0.2+	2000 03 12	704	0.7− 0.4−
1990 09 25	809	(2.3+ 0.6−)	2000 02 01	703	0.4+ 0.2+	2000 03 12	704	0.1− 0.1−
1990 09 25	809	(2.0+ 2.1−)	2000 02 01	703	0.2+ 0.3−	2000 03 12	704	0.1− 0.1+
1990 09 25	809	(3.1+ 1.6−)	2000 02 01	703	0.4− 0.2+	2000 03 12	704	0.7− 0.3+
1996 01 12	691	0.2− 0.2+	2000 02 04	704	0.3− 0.6−	2000 03 12	704	0.3− 0.2+
1996 01 12	691	0.3− 0.1−	2000 02 04	704	0.7+ 0.1+	2000 03 15	704	1.0− 0.2+
1996 01 12	691	0.1− 0.0	2000 02 04	704	0.2+ 0.4+	2000 03 15	704	0.2+ 0.0
1996 01 18	691	0.4− 0.3−	2000 02 04	704	0.0 0.8+	2000 03 15	704	0.6− 1.0+
1996 01 18	691	0.4+ 0.1+	2000 02 04	704	0.3+ 0.3+	2000 03 15	704	0.1− 0.8+
1996 01 18	691	0.1− 0.0	2000 02 10	704	0.4− 0.2−	2000 03 15	704	0.2+ 0.6+
1997 08 01	566	0.1− 0.6+	2000 02 10	704	0.3− 0.7−	2000 03 15	704	0.1+ 0.2−
1997 08 01	566	0.1+ 0.6+	2000 02 10	704	0.1+ 0.3+	2000 03 15	704	0.3+ 0.0
1997 08 01	566	0.2+ 1.0+	2000 02 11	704	0.5+ 0.0	2000 03 15	704	0.1+ 0.2+
1998 10 29	704	0.2+ 0.5−	2000 02 11	704	0.1+ 0.1−			

(13952)* 1990 SN₆ = 1994 WA₂

Discovered 1990 Sept. 22 by E. W. Elst at the European Southern

Observatory.

Id. S. Nakano (*MPC* 26740), T. Kobayashi (unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	255.27108		(2000.0)			P		Q			
<i>n</i>	0.26819420	ω	182.09313			+0.56482251		+0.82210029			
<i>a</i>	2.3814225	Ω	122.30454			−0.75588153		+0.55022918			
<i>e</i>	0.0799355	<i>i</i>	4.85948			−0.33108706		+0.14628380			
<i>P</i>	3.67	<i>H</i>	14.0			<i>G</i>	0.15	<i>U</i>	1		
Residuals in seconds of arc											
1990 09 15	809	1.4+	1.1−	1996 03 25	360	0.3+	0.8−	1999 01 18	704	0.9+	0.4+
1990 09 15	809	1.4+	1.1−	1997 08 03	566	0.3−	0.5+	1999 01 18	704	(0.5−	3.2+)
1990 09 15	809	1.2+	1.1−	1997 08 03	566	0.9−	0.4+	1999 01 18	704	0.8−	1.1+
1990 09 22	809	0.2+	0.4−	1997 08 03	566	0.9+	0.1+	2000 01 10	699	0.6−	0.7−
1990 09 22	809	0.5+	1.2−	1998 12 15	704	1.1+	0.7−	2000 01 10	699	0.1+	0.9−
1990 09 22	809	0.4+	0.9−	1998 12 15	704	1.8−	0.4−	2000 01 10	699	0.6+	0.3−
1990 09 25	809	0.5−	0.5−	1998 12 15	704	0.2+	0.3+	2000 02 08	704	0.2−	0.5+
1990 09 25	809	0.7−	0.1+	1998 12 15	704	1.3+	0.8+	2000 02 08	704	0.1−	0.2+
1990 09 25	809	1.0−	0.3−	1998 12 15	704	0.1−	0.0	2000 02 08	704	0.2+	0.4+
1994 11 24	400	(0.8−	2.7+)	1998 12 16	704	0.2−	0.8−	2000 03 08	704	1.3+	1.3+
1994 11 24	400	(1.4−	2.7+)	1998 12 16	704	(4.1+	0.2−)	2000 03 08	704	0.3+	0.2−
1994 11 30	400	(1.3+	2.8+)	1998 12 16	704	0.4+	0.4+	2000 03 08	704	1.0+	0.6+
1994 11 30	400	(2.7+	2.4+)	1998 12 16	704	0.3+	1.2+	2000 03 08	704	0.2+	0.2−
1996 02 18	411	1.0−	1.3−	1998 12 16	704	0.2+	1.7+	2000 03 08	704	1.2−	1.4+
1996 02 18	411	0.2+	1.4−	1998 12 22	704	0.5−	0.7−	2000 03 08	691	0.4−	0.9−
1996 02 19	411	1.4−	0.6−	1998 12 22	704	0.6−	0.5−	2000 03 08	691	0.3−	0.7−
1996 02 19	411	1.2−	1.6−	1998 12 22	704	0.1+	0.2+	2000 03 08	691	0.4−	0.8−
1996 03 25	360	0.0	1.0−	1998 12 22	704	0.7−	0.5+				
1996 03 25	360	0.3+	0.4−	1998 12 22	704	0.6−	0.5+				

(13953)* 1990 TO₄ = 1982 XJ₃

Discovered 1990 Oct. 9 by R. H. McNaught at Siding Spring.

Id. G. V. Williams (*MPC* 17454)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	68.11710		(2000.0)		P		Q				
n	0.24264142	ω	5.68384		+0.02350026		−0.98351250				
a	2.5458106	Ω	83.06225		+0.90996585		−0.05323352				
e	0.1649214	i	10.40642		+0.41401678		+0.17282751				
P	4.06	H	13.7	G	0.15	U	2				
Residuals in seconds of arc											
1982 12 13	381	1.0+	0.9−	1998 11 16	566	0.0	0.3−	2000 02 04	704	0.1+	0.7+
1982 12 14	381	1.1−	0.2+	1998 11 16	566	0.2+	0.0	2000 02 04	704	0.7+	0.8+
1982 12 14	381	0.3+	1.5−	1998 11 16	566	0.0	0.4−	2000 02 14	704	0.1+	0.9−
1990 10 09	413	1.7−	0.1+	1998 12 08	704	0.9+	1.3−	2000 02 14	704	0.4−	0.6+
1990 10 20	413	1.2−	0.1−	1998 12 08	704	0.6−	0.9+	2000 02 14	704	0.6+	0.1+
1990 10 20	413	0.2−	1.2+	1998 12 08	704	0.6−	0.4−	2000 02 14	704	0.7−	1.0+
1990 10 22	413	1.7+	1.1−	1998 12 08	704	1.0+	0.2−	2000 03 05	704	0.4−	0.2+
1990 11 19	413	1.7+	1.7+	2000 01 07	704	0.2+	0.2+	2000 03 05	704	0.5−	0.3+
1990 11 20	413	0.1+	0.2−	2000 01 07	704	0.3+	0.4+	2000 03 05	704	0.2−	0.2−
1990 11 20	413	0.2−	0.8+	2000 01 07	704	0.0	0.2+	2000 03 12	704	0.3−	0.2+
1998 10 16	704	0.3−	0.6+	2000 01 07	704	0.5+	0.2−	2000 03 12	704	0.5−	0.5+
1998 10 16	704	0.8−	0.6+	2000 01 07	704	1.2+	0.5−	2000 03 12	704	0.5−	0.0
1998 10 16	704	0.4−	0.3+	2000 02 04	704	0.1+	0.4−	2000 03 12	704	0.4−	0.2+
1998 10 16	704	0.1+	1.1+	2000 02 04	704	1.1+	1.0−				
1998 10 16	704	0.6−	0.1−	2000 02 04	704	1.1+	0.1−				

(13954)* 1990 TF₈ = 1998 SO₁₃₁

Discovered 1990 Oct. 13 by F. Börngen and L. D. Schmadel at Tautenburg.

Id. G. V. Williams (*MPC* 32923)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	55.50101		(2000.0)	P			Q				
n	0.24278798	ω	247.92161		−0.24147730		−0.95956555				
a	2.5447859	Ω	217.01901		+0.95514010		−0.20868739				
e	0.1373573	i	13.90100		+0.17145290		−0.18890085				
P	4.06	H	13.8	G	0.15	U	1				
Residuals in seconds of arc											
1953 08 19	675	0.2−	0.9+	1998 09 27	704	0.2+	0.6+	1998 11 11	704	0.8+	0.2−
1990 10 13	033	0.3−	0.6−	1998 09 27	704	0.6−	0.4−	1998 11 11	704	0.9+	1.2−
1990 10 13	033	1.0+	0.9−	1998 09 27	704	0.5+	0.5+	2000 01 11	704	0.6−	1.7−
1990 10 14	033	0.5+	0.2+	1998 09 27	704	0.3−	0.1+	2000 01 11	704	0.9+	0.3−
1990 10 18	033	0.3−	0.6−	1998 09 27	704	1.2−	1.1−	2000 01 11	704	0.6+	0.8−
1990 11 10	046	(4.3−	4.3−)	1998 10 20	910	0.4+	1.0+	2000 01 11	704	1.0−	0.2−
1990 11 10	046	(4.2−	0.7−)	1998 10 20	910	0.4+	0.8+	2000 01 28	704	0.2+	1.1+
1990 11 11	372	0.4+	1.9+	1998 10 20	910	0.5+	1.0+	2000 01 28	704	0.4+	0.0
1990 11 11	372	1.6−	1.5+	1998 11 10	704	0.2−	0.4−	2000 01 28	704	0.5+	0.3+
1990 11 13	372	(2.0−	2.5+)	1998 11 10	704	0.2−	0.1+	2000 01 28	704	0.0	0.2−
1990 11 13	372	(5.0−	3.5+)	1998 11 10	704	0.3−	1.2−	2000 01 28	704	0.1+	0.6−
1990 11 23	372	(3.5−	0.1−)	1998 11 10	704	0.5−	1.2−	2000 02 26	113	0.5−	0.4+
1990 11 23	372	0.2+	0.1+	1998 11 10	699	0.1−	0.1−	2000 02 26	113	0.4−	0.5+
1998 09 26	704	0.7−	0.6−	1998 11 10	699	1.1−	0.4+	2000 03 13	704	0.5−	1.2−
1998 09 26	704	0.3+	0.7−	1998 11 10	699	0.7−	0.4+	2000 03 13	704	0.4−	0.0
1998 09 26	704	0.5+	0.4−	1998 11 11	704	0.6−	0.6+	2000 03 13	704	0.2+	0.3+
1998 09 26	704	0.1+	0.9−	1998 11 11	704	0.1+	0.4+	2000 03 13	704	0.3+	0.7+
1998 09 26	704	0.8+	0.4+	1998 11 11	704	1.1+	0.2+	2000 03 13	704	0.5+	1.1+

(13955)* 1990 UA₂

Discovered 1990 Oct. 21 by T. Urata at the Nihondaira Observatory.

2000 MAR. 20

M.P.C. 39039

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	101.11838		(2000.0)		P		Q		
<i>n</i>	0.24039207	ω	279.29144		+0.83342084		-0.54831608		
<i>a</i>	2.5616667	Ω	113.98899		+0.53204729		+0.76233280		
<i>e</i>	0.2653818	<i>i</i>	4.33047		+0.14945027		+0.34379962		
<i>P</i>	4.10	<i>H</i>	15.1		<i>G</i>	0.15	<i>U</i>	1	
Residuals in seconds of arc									
1990 10 21	385	0.6+	0.2-	1998 08 23	704	1.1+	0.8-	1998 09 27	704 0.0 0.6+
1990 10 21	385	(2.6+	1.0+)	1998 08 23	704	(2.3-	0.1-)	1998 09 27	704 0.9+ 0.3-
1990 10 26	385	0.4-	0.2-	1998 09 14	704	0.6-	0.3+	1998 09 27	704 0.0 0.0
1990 10 26	385	1.3-	1.6+	1998 09 14	704	0.8-	0.7+	1998 09 27	704 1.4+ 0.7+
1990 11 10	385	(3.1-	0.3+)	1998 09 14	704	0.6-	1.3+	2000 02 04	704 0.4+ 0.3-
1990 11 10	385	(5.8-	0.6-)	1998 09 14	704	0.6-	1.2+	2000 02 04	704 0.3+ 1.5+
1990 11 22	385	1.7+	0.0	1998 09 16	888	0.5-	0.0	2000 02 04	704 (1.1+ 3.1+)
1990 11 22	385	0.7-	0.1-	1998 09 16	888	0.9-	0.2+	2000 03 05	704 0.4+ 0.6+
1994 10 03	675	0.5-	0.5-	1998 09 16	888	1.2-	0.0	2000 03 05	704 0.7+ 0.2+
1994 10 03	675	0.7-	0.5+	1998 09 18	704	0.4+	0.0	2000 03 05	704 0.1- 0.1-
1994 11 04	675	1.4+	0.7-	1998 09 18	704	0.5-	1.0+	2000 03 05	704 0.4- 0.1-
1994 11 04	675	0.1-	0.3-	1998 09 18	704	(1.3-	2.6+)	2000 03 05	704 0.2+ 0.7+
1997 05 29	691	0.4+	0.2+	1998 09 18	704	(3.3-	0.9+)	2000 03 09	704 0.3- 1.6+
1997 05 29	691	0.0	0.2+	1998 09 18	704	0.1-	0.7+	2000 03 09	704 0.6+ 0.9+
1997 05 29	691	0.8+	0.4+	1998 09 20	888	0.1-	0.0	2000 03 09	704 0.3+ 0.9+
1997 05 30	691	0.3-	0.0	1998 09 20	888	0.1-	0.1-	2000 03 09	704 1.7+ 0.8+
1997 05 30	691	0.4-	0.1+	1998 09 25	704	(1.5-	7.3-)	2000 03 12	704 0.8+ 1.3+
1997 05 30	691	0.6-	0.3+	1998 09 25	704	0.0	0.1-	2000 03 12	704 0.2+ 0.0
1998 08 23	704	0.1+	0.8+	1998 09 25	704	0.5+	0.2+	2000 03 12	704 0.7- 0.9+
1998 08 23	704	2.0-	1.5+	1998 09 25	704	0.2-	0.9+	2000 03 12	704 0.6- 1.2+
1998 08 23	704	0.4-	0.6+	1998 09 27	704	1.5+	0.2-	2000 03 12	704 0.9+ 1.4+

(13956)* 1990 VG₆ = 1982 YC₂ = 1994 WO₂

Discovered 1990 Nov. 15 by E. W. Elst at the European Southern Observatory.

Id. S. Nakano (*MPC* 24389; *MPC* 24564)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	32.18783		(2000.0)		P		Q		
<i>n</i>	0.24524243	ω	348.90172		-0.90031234		-0.43376983		
<i>a</i>	2.5277782	Ω	165.23349		+0.40931167		-0.87176668		
<i>e</i>	0.1165465	<i>i</i>	8.07365		+0.14799205		-0.22774237		
<i>P</i>	4.02	<i>H</i>	12.9		<i>G</i>	0.15	<i>U</i>	1	
Residuals in seconds of arc									
1982 12 21	095	(3.0+	3.4+)	1997 11 29	688	0.8-	0.2+	1999 02 04	704 0.4+ 0.8-
1990 11 15	809	0.4+	2.0-	1997 11 29	688	0.4-	0.4+	1999 02 04	704 1.3- 1.2+
1990 11 15	809	0.2-	1.8-	1998 08 31	704	1.4-	0.6+	1999 02 04	704 0.7+ 0.9+
1990 11 15	809	(2.3-	2.3-)	1998 08 31	704	0.5+	1.5-	1999 02 04	704 (2.3- 1.0+)
1990 11 17	809	0.0	0.7-	1998 08 31	704	2.0+	1.4-	2000 02 10	704 0.6- 0.3+
1990 11 17	809	0.2-	1.4-	1998 08 31	704	0.9-	0.7-	2000 02 10	704 0.8- 0.1-
1990 11 17	809	0.3-	0.2-	1998 10 19	699	0.1-	0.8+	2000 02 10	704 0.2+ 0.5-
1990 11 23	809	0.6+	0.9-	1998 10 19	699	0.3-	1.3+	2000 02 10	704 1.2- 0.4+
1990 11 23	809	0.8+	1.3-	1998 10 19	699	0.4+	0.6+	2000 02 10	704 0.5+ 0.2+
1990 11 23	809	0.4-	0.9-	1998 11 13	704	0.6+	0.8+	2000 02 11	704 0.4- 0.3+
1994 11 26	905	0.0	0.1-	1998 11 13	704	0.5+	0.1+	2000 02 11	704 0.0 0.1-
1994 11 26	905	0.9-	0.9+	1998 11 13	704	0.2+	0.5+	2000 02 11	704 0.3- 0.5+
1994 11 27	905	1.1+	0.6+	1998 11 13	704	0.2-	0.2+	2000 02 15	704 0.5+ 0.3+
1994 11 27	905	0.8-	0.8+	1998 11 13	704	0.8-	0.8+	2000 02 15	704 (3.3+ 0.6-)
1994 11 28	399	(3.2-	2.1+)	1998 12 15	704	0.4+	0.1-	2000 02 15	704 0.5+ 0.5+
1994 11 28	399	(3.1-	2.9+)	1998 12 15	704	0.5-	1.5+	2000 03 09	704 0.2+ 1.1-
1994 11 29	399	1.7+	0.6+	1998 12 15	704	0.3-	0.2-	2000 03 09	704 0.6+ 0.1-
1994 11 29	399	0.5-	1.1+	1998 12 15	704	0.2-	0.4+	2000 03 09	704 0.8+ 0.0
1997 10 05	910	0.1+	0.4+	1999 01 15	699	0.2-	0.2+	2000 03 09	704 0.1+ 0.9+
1997 10 05	910	0.1+	0.5+	1999 01 15	699	0.9-	0.2+		
1997 10 05	910	0.1+	0.5+	1999 01 15	699	0.4-	0.3+		

(13957)* 1991 AG₂ = 1981 VE₁

Discovered 1991 Jan. 7 by R. H. McNaught at Siding Spring.

Id. G. V. Williams (*MPC* 17833)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	39.33818		(2000.0)		P		Q		
<i>n</i>	0.22041338	ω	242.86225		+0.78746108		-0.60614036		
<i>a</i>	2.7142139	Ω	153.97432		+0.61604158		+0.76812382		
<i>e</i>	0.3025151	<i>i</i>	14.76159		+0.01994553		+0.20634838		
<i>P</i>	4.47	<i>H</i>	13.8		<i>G</i>	0.15	<i>U</i>	2	
Residuals in seconds of arc									
1981 11 02	688	0.8-	0.7-	1999 10 09	704	0.5-	0.4+	2000 01 07	699 0.3+ 0.2-
1981 11 02	688	0.1+	0.9-	1999 10 09	704	0.0	0.4+	2000 01 07	699 0.3+ 0.1-
1981 11 24	688	0.7+	2.3-	1999 10 09	704	0.1-	0.6+	2000 01 08	808 0.1- 0.0
1981 11 24	688	0.9-	2.0-	1999 10 09	704	0.1+	0.7+	2000 01 08	808 0.7- 0.9-
1990 11 23	413	1.3+	0.2+	1999 10 09	704	0.2-	0.5+	2000 01 08	699 0.4+ 0.2-
1991 01 07	413	0.0	0.1-	1999 11 07	704	0.4-	0.8+	2000 01 08	699 0.5+ 0.0
1991 01 08	413	0.5+	0.0	1999 11 07	704	0.6-	1.2+	2000 01 08	699 0.9+ 0.1-
1991 01 12	413	0.5+	1.0+	1999 11 07	704	0.4-	0.7+	2000 01 09	704 0.1- 0.2-
1991 01 17	413	1.0+	0.5-	1999 12 15	423	0.3-	0.2-	2000 01 09	704 0.6- 0.5+
1991 01 17	413	1.5+	0.3-	1999 12 15	423	0.4-	0.7-	2000 01 09	704 0.2+ 0.1+
1991 02 04	413	0.7+	0.6-	1999 12 16	704	0.1-	0.3+	2000 01 09	704 0.0 0.1+
1991 02 04	413	(0.3-	2.1-)	1999 12 16	704	(0.1+	3.0+)	2000 01 09	704 0.4- 0.0
1998 06 19	704	0.4-	0.1+	1999 12 16	704	0.4-	0.1+	2000 02 06	704 0.3- 0.3-
1998 06 19	704	1.3+	1.0+	1999 12 16	704	0.5-	0.8+	2000 02 06	704 0.8+ 0.4-
1998 06 19	704	(1.7-	2.1+)	1999 12 16	704	0.1-	0.6+	2000 02 06	704 0.5+ 0.4-
1998 06 19	704	0.4-	1.5-	1999 12 16	704	0.6-	0.2+	2000 02 06	704 0.1- 0.7-
1998 06 25	704	0.6-	1.3+	1999 12 16	704	0.2-	0.4+	2000 02 06	704 0.4+ 1.0-
1998 06 25	704	1.2+	1.2-	1999 12 16	704	0.6-	0.4+	2000 03 06	704 0.5- 0.2-
1998 06 25	704	1.2-	0.4+	1999 12 16	704	0.0	0.5+	2000 03 06	704 0.4- 0.3-
1998 06 25	704	0.6+	0.9-	2000 01 04	423	0.7+	1.4+	2000 03 06	704 0.9- 0.4+
1998 06 25	704	0.4-	0.3+	2000 01 07	699	0.3+	0.1+		

(13958)* 1991 DY = 1993 RD₆

Discovered 1991 Feb. 19 by E. F. Helin at Palomar.

Id. G. V. Williams (*MPC* 22954)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	8.96314		(2000.0)		P		Q		
n	0.22617763	ω	341.98530		-0.98675480		-0.16111087		
a	2.6679004	Ω	188.80815		+0.15984737		-0.94580911		
e	0.1449536	i	7.10043		+0.02763677		-0.28193691		
P	4.36	H	13.5		G	0.15	U	1	
Residuals in seconds of arc									
1991 02 08	675	0.1+	1.3-	1993 09 18	675	1.1+	0.1+	1998 11 11	699 0.1+ 0.1+
1991 02 08	675	(4.2+	3.4+)	1993 09 18	675	0.9-	0.7-	1998 11 11	699 0.2- 0.1+
1991 02 19	675	0.4-	0.3+	1993 09 22	675	0.7-	0.1+	1998 11 11	699 0.2+ 0.1+
1991 02 19	675	1.2+	0.2-	1993 09 22	675	0.6+	0.6+	2000 02 02	704 0.0 0.3+
1991 02 20	675	1.0-	0.4-	1996 05 13	691	1.9-	0.3-	2000 02 02	704 0.4+ 0.8-
1991 03 18	675	(2.9-	1.7-)	1996 05 13	691	0.2-	0.5+	2000 02 02	704 0.5+ 1.5-
1991 03 18	675	0.8-	1.6-	1996 05 13	691	0.4-	0.1-	2000 03 04	703 0.3- 0.0
1993 09 15	809	(3.3+	0.6+)	1996 06 13	801	1.0+	0.5-	2000 03 04	703 0.5+ 0.2+
1993 09 15	809	(2.6+	0.7+)	1996 06 13	801	0.2-	0.8-	2000 03 04	703 0.1+ 0.4-
1993 09 15	809	1.6+	0.4-	1996 06 15	801	0.1+	0.9-	2000 03 04	703 0.6+ 0.1+
1993 09 16	809	0.7-	0.2+	1996 06 15	801	0.7+	1.9-	2000 03 09	704 0.7+ 0.4-
1993 09 16	809	0.9-	0.3+	1998 10 29	704	0.4-	0.2+	2000 03 09	704 0.3- 0.3-
1993 09 16	809	(2.9-	0.4-)	1998 10 29	704	0.5-	0.0	2000 03 09	704 0.3+ 0.2+
1993 09 17	809	1.0+	1.4-	1998 10 29	704	0.6+	0.9-	2000 03 09	704 0.0 0.3+
1993 09 17	809	(0.4-	2.5-)	1998 10 29	704	0.0	0.0	2000 03 09	704 0.2- 0.8+
1993 09 17	809	0.2-	0.5-	1998 10 29	704	0.9-	1.0-	2000 03 10	704 0.6- 0.1+
1993 09 18	809	0.6+	1.5-	1998 11 11	704	0.0	0.6-	2000 03 10	704 0.0 0.3-
1993 09 18	809	0.7+	1.1-	1998 11 11	704	0.2+	1.2-	2000 03 10	704 0.0 0.2-
1993 09 18	809	0.3-	0.6-	1998 11 11	704	0.6+	0.9+	2000 03 10	704 1.6- 0.1-

(13959)* 1991 EL₄ = 1992 PA₃

Discovered 1991 Mar. 12 by H. Debehogne at the European Southern Observatory.

Id. G. V. Williams (*MPC* 21576)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		303.96498		(2000.0)		P		Q	
<i>n</i>		0.22551941	ω	86.40758		-0.03613646		+0.99932860	
<i>a</i>		2.6730891	Ω	181.56034		-0.98217364		-0.03663077	
<i>e</i>		0.1686345	<i>i</i>	12.81916		-0.18446976		-0.00072869	
<i>P</i>		4.37	<i>H</i>	13.3		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 03 12	809	0.3+	0.8-	1992 08 07	675	0.9-	1.4-	1997 10 30	566	0.5-	0.0
1991 03 12	809	0.2+	0.6-	1992 08 21	675	0.6+	0.0	1997 10 30	566	0.7-	0.1+
1991 03 12	809	0.3+	0.6-	1992 08 21	675	0.8+	0.3+	2000 01 05	699	0.3+	0.7+
1991 03 14	809	0.2-	1.4-	1992 08 28	675	0.8+	0.0	2000 01 05	699	0.2-	0.1+
1991 03 14	809	0.0	1.4-	1992 08 28	675	0.2+	1.3-	2000 01 05	699	0.4+	1.3+
1991 03 14	809	0.4+	1.4-	1996 01 26	327	0.1+	0.1+	2000 02 10	704	0.4+	0.5-
1991 03 15	809	0.0	1.0-	1996 01 26	327	0.1-	0.3-	2000 02 10	704	0.2-	0.9-
1991 03 15	809	0.0	0.8-	1996 01 26	327	0.4-	0.0	2000 02 10	704	0.8+	0.4-
1991 03 15	809	0.4+	0.8-	1996 05 15	801	0.7-	0.9+	2000 02 10	704	0.4+	0.1-
1991 03 17	809	0.6-	0.3+	1996 05 15	801	0.7-	0.9+	2000 03 09	704	0.5-	0.5+
1991 03 17	809	0.8-	0.5+	1996 05 23	801	0.6-	0.2+	2000 03 09	704	0.3+	0.8+
1991 03 17	809	0.5-	0.5+	1996 05 23	801	0.8-	0.1-	2000 03 09	704	0.5+	1.2+
1991 04 15	675	0.6-	0.9+	1997 10 22	704	0.3+	0.5+	2000 03 14	703	0.1+	0.3+
1991 04 15	675	0.7-	0.2+	1997 10 22	704	0.3-	0.2+	2000 03 14	703	0.3+	0.4+
1992 08 06	675	0.5+	0.7-	1997 10 22	704	0.0	0.7+	2000 03 14	703	0.5+	0.0
1992 08 06	675	1.1+	0.9-	1997 10 22	704	0.3+	0.1-	2000 03 14	703	0.5+	0.5+
1992 08 07	675	(1.1-	2.4-)	1997 10 30	566	0.6-	0.1+				

(13960)* 1991 GF₈ = 1999 AF₂₃

Discovered 1991 Apr. 8 by E. W. Elst at the European Southern Observatory.

Id. A. Doppler (*MPC* 33931)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		49.99843		(2000.0)		P		Q	
<i>n</i>		0.21335557	ω	106.70427		-0.41673788		-0.90875818	
<i>a</i>		2.7737462	Ω	8.03072		+0.76210436		-0.36252721	
<i>e</i>		0.1174893	<i>i</i>	9.09918		+0.49550629		-0.20671864	
<i>P</i>		4.62	<i>H</i>	13.7		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 04 08	809	0.2-	2.0-	1998 11 16	704	0.3+	0.7-	2000 03 08	704	0.1-	0.8+
1991 04 08	809	(0.5+	2.5-)	1998 11 16	704	0.8+	0.1-	2000 03 08	704	0.4+	0.2-
1991 04 08	809	(1.1-	2.3-)	1999 01 08	699	0.0	1.1+	2000 03 08	704	0.6+	0.3+
1991 04 10	809	0.8+	1.6-	1999 01 08	699	0.6-	0.3+	2000 03 10	704	0.0	0.1-
1991 04 10	809	0.6-	1.0-	1999 01 08	699	1.3-	0.6+	2000 03 10	704	0.4-	0.1-
1991 04 10	809	0.2+	1.5-	1999 01 15	699	1.2-	1.5-	2000 03 10	704	0.3-	0.1-
1991 04 19	809	1.9-	0.0	1999 01 15	699	0.2-	0.4-	2000 03 10	704	0.6-	0.1+
1991 04 19	809	1.8-	0.3-	1999 01 15	699	0.2+	0.2-	2000 03 10	704	0.6-	0.5+
1991 04 19	809	(2.5-	0.2-)	2000 01 08	704	0.4+	0.9-	2000 03 11	704	0.1-	0.3-
1995 02 03	033	0.4+	0.2-	2000 01 08	704	0.7-	1.7-	2000 03 11	704	0.2+	0.3-
1995 02 03	033	0.6-	0.3-	2000 01 08	704	0.5+	1.6-	2000 03 11	704	0.2+	0.2+
1998 10 03	699	0.5+	0.4-	2000 01 08	704	0.6+	1.9-	2000 03 11	704	0.3+	0.5+
1998 10 03	699	0.3+	0.6-	2000 01 08	704	(0.3+	2.3-)	2000 03 11	704	0.7+	1.4+
1998 10 03	699	0.6+	0.3+	2000 02 11	704	0.2+	0.6+	2000 03 13	704	0.9+	0.5+
1998 11 14	704	0.1+	0.0	2000 02 11	704	1.0+	0.5+	2000 03 13	704	0.5-	0.5+
1998 11 14	704	0.2+	0.1-	2000 02 11	704	0.6+	0.1+	2000 03 13	704	0.3-	0.3+
1998 11 14	704	0.1+	0.3-	2000 02 27	703	0.3-	0.1-	2000 03 13	704	0.0	0.0
1998 11 14	704	0.8+	0.8-	2000 02 27	703	0.1+	0.3+	2000 03 13	704	0.1-	0.1-
1998 11 14	704	1.2-	1.4-	2000 02 27	703	0.0	0.1+	2000 03 14	703	0.1+	0.3+
1998 11 16	704	0.0	0.2+	2000 02 27	703	0.3+	0.2+	2000 03 14	703	0.3-	0.7+
1998 11 16	704	0.9+	0.4+	2000 03 08	704	0.0	0.0	2000 03 14	703	0.0	0.5+
1998 11 16	704	0.1+	0.1+	2000 03 08	704	0.4+	0.5+	2000 03 14	703	0.3-	0.7+

(13961)* 1991 PV = 1998 SS₄₇

Discovered 1991 Aug. 5 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 32660)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		195.40143		(2000.0)		P		Q	
<i>n</i>		0.29279275	ω	94.68091		+0.72092751		+0.69268084	
<i>a</i>		2.2461004	Ω	221.47863		-0.64793227		+0.66277169	
<i>e</i>		0.2035148	<i>i</i>	1.84913		-0.24586031		+0.28447660	
<i>P</i>		3.37	<i>H</i>	15.3		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 08 05	675	0.1+	0.0	1998 09 14	699	0.3-	0.6-	1998 10 29	704	0.1+	0.4+
1991 08 05	675	0.9+	0.9+	1998 09 26	691	0.4-	0.4-	1998 10 29	704	0.3+	0.1-
1991 08 06	809	1.8-	1.0-	1998 09 26	691	0.4-	0.5-	1998 10 29	704	0.4-	0.0
1991 08 06	809	0.9-	0.4-	1998 09 26	691	0.3-	0.3-	1998 10 29	704	0.0	0.3-
1991 08 06	809	1.3-	1.4-	1998 09 30	691	0.6+	0.3-	1998 11 11	704	0.3+	1.1+
1991 08 08	675	1.2-	0.2-	1998 09 30	691	0.5+	0.3-	1998 11 11	704	0.7+	0.4-
1991 08 08	675	1.3+	0.3-	1998 09 30	691	0.2+	0.3+	1998 11 11	704	0.7+	0.7+
1991 08 10	809	(2.3+	0.7+)	1998 10 01	691	0.8-	0.2-	1998 11 11	704	0.7+	0.2-
1991 08 10	809	0.7+	0.2+	1998 10 01	691	0.9-	0.1-	1999 01 14	691	0.4-	0.4-
1991 08 10	809	0.6+	0.5+	1998 10 01	691	0.8-	0.0	1999 01 14	691	0.3-	0.0
1991 08 11	809	0.8+	0.4+	1998 10 10	699	0.6+	0.1+	2000 02 02	704	0.1-	0.0
1991 08 11	809	0.4+	0.4+	1998 10 10	699	0.1-	0.0	2000 02 02	704	0.3-	0.1+
1991 08 11	809	0.7+	0.4-	1998 10 10	699	0.3-	1.1+	2000 02 02	704	0.8+	0.6-
1991 08 14	809	(1.6+	2.6+)	1998 10 15	704	0.4+	0.1-	2000 02 02	704	(0.4-	2.1-)
1991 08 14	809	(1.8+	2.6+)	1998 10 15	704	0.2+	0.7+	2000 02 29	704	0.3-	0.8-
1991 08 14	809	(2.4+	2.6+)	1998 10 15	704	0.6+	0.2-	2000 02 29	704	0.3-	0.0
1991 09 13	675	0.2+	0.1-	1998 10 15	704	0.7+	1.3+	2000 02 29	704	0.0	0.9-
1991 09 13	675	(4.2-	0.9-)	1998 10 15	704	0.2+	0.3+	2000 02 29	704	0.3+	0.3+
1992 12 24	691	(1.3-	2.1-)	1998 10 28	704	0.0	0.1+	2000 03 03	704	0.4-	0.1-
1992 12 24	691	0.1-	0.7-	1998 10 28	704	(2.0-	0.2-)	2000 03 03	704	0.4-	0.4-
1992 12 24	691	0.1-	0.5-	1998 10 28	704	0.7-	0.5-	2000 03 03	704	0.5+	0.8+
1998 09 14	699	0.3-	0.8-	1998 10 28	704	0.4-	0.0	2000 03 03	704	0.4-	0.2+
1998 09 14	699	0.6-	0.6-	1998 10 29	704	0.0	0.1-				

(13962)* 1991 PO₄ = 1969 TU₄ = 1975 VG₁ = 1986 TH₁₃

Discovered 1991 Aug. 3 by E. W. Elst at the European Southern Observatory.

Id. T. B. Spahr (*MPC* 30655)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		136.35994		(2000.0)		P		Q	
<i>n</i>		0.17403458	ω	228.54849		+0.91463711		-0.40399317	
<i>a</i>		3.1772083	Ω	155.26824		+0.38085443		+0.84850450	
<i>e</i>		0.1958724	<i>i</i>	2.07051		+0.13560555		+0.34180350	
<i>P</i>		5.66	<i>H</i>	13.0		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1969 10 14	095	0.3+	0.0	1992 11 29	801	0.4-	0.9-	2000 02 11	120	1.9-	0.6-
1975 11 02	095	(5.3-	3.3-)	1992 11 29	801	0.5-	0.9-	2000 02 11	120	0.1-	1.2-
1986 10 05	095	(0.2+	2.7-)	1997 09 28	566	0.4+	0.7+	2000 02 11	704	1.3-	0.5+
1991 08 03	809	0.5+	0.9+	1997 09 28	566	0.1-	0.8+	2000 02 11	704	0.8+	0.2-
1991 08 03	809	0.2+	0.3-	1997 09 28	566	0.2-	0.3+	2000 02 11	704	0.1-	1.1-
1991 08 03	809	0.1+	0.3+	1998 11 15	699	0.4+	0.1+	2000 02 11	704	0.2+	0.3+
1991 08 04	809	1.1+	1.5+	1998 11 15	699	0.4+	0.3+	2000 02 13	120	1.4-	0.0
1991 08 05	809	(2.5+	0.5+)	1998 11 15	699	1.6-	0.8+	2000 02 13	120	0.5+	0.6-
1991 08 05	809	(2.3+	0.5+)	1998 12 22	704	0.2-	0.0	2000 02 27	703	0.3+	0.3+
1991 08 05	675	(2.0+	0.8+)	1998 12 22	704	1.9+	1.1-	2000 02 27	703	0.4+	0.8+
1991 08 05	809	1.7+	0.9+	1998 12 22	704	(1.0+	2.6-)	2000 02 27	703	0.0	0.2+
1991 08 05	675	1.6+	0.6+	1999 01 18	561	0.0	0.3+	2000 02 27	703	0.7+	0.1+
1991 08 07	675	(2.5+	0.7+)	1999 01 18	561	0.3-	0.4+	2000 02 28	120	2.0-	0.1-
1991 08 07	675	1.5+	0.6-	1999 01 18	561	0.3-	0.3+	2000 02 28	120	2.0+	1.4-
1991 09 04	809	0.6-	0.1-	1999 01 18	704	0.7-	1.1-	2000 02 28	120	0.3-	0.4+
1991 09 04	809	1.4-	0.4+	1999 01 18	704	0.1-	0.4+	2000 03 11	699	0.4-	0.2+
1991 09 04	809	1.0-	0.0	1999 01 18	704	0.8+	0.7+	2000 03 11	699	0.3+	0.2+
1991 09 05	809	1.1-	0.5-	1999 01 18	704	0.8-	0.3-	2000 03 11	699	0.5+	0.3+
1991 09 05	809	1.2-	0.4-	1999 01 20	704	0.5+	0.5+	2000 03 11	704	0.2+	0.2+

2000 MAR. 20

M.P.C. 39041

1991 09 05	809	0.2−	0.5+	1999 01 20	704	0.4−	0.0	2000 03 11	699	0.2+	0.2+
1991 09 06	809	0.9−	0.1−	1999 01 20	704	0.3+	0.1+	2000 03 11	704	0.5+	0.7+
1991 09 06	809	(2.9−	0.1+)	1999 01 20	704	0.2+	1.8+	2000 03 11	704	0.3+	0.6+
1991 09 06	809	(2.5−	0.9+)	1999 01 21	561	0.1+	0.2+	2000 03 11	704	0.5+	0.5+
1991 09 07	809	0.6−	0.8−	1999 01 21	561	0.1+	0.2+	2000 03 11	704	0.8+	0.9+
1991 09 07	809	1.3−	0.5−	1999 01 21	561	0.0	0.2+				

(13963)* 1991 PT₄ = 1997 TO₁₀

Discovered 1991 Aug. 3 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 30757)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	124.19014		(2000.0)		P		Q
n	0.16269258	ω	130.58271		+0.99939372		+0.03266713
a	3.3232082	Ω	227.54894		−0.03478120		+0.92116445
e	0.2600995	i	0.93525		−0.00156814		+0.38780011
P	6.06	H	13.7	G	0.15	U	1

Residuals in seconds of arc

1971 03 26	675	0.6+	0.5−	1991 09 07	809	1.6−	0.7−	1998 12 17	704	0.9+	1.3+
1971 03 26	675	0.8−	1.2+	1991 09 07	809	(2.1−	0.5−)	1998 12 17	704	0.9−	0.8+
1971 03 27	675	(3.0+	4.0−)	1997 07 01	910	1.2+	0.4−	1998 12 17	704	0.6−	0.2+
1991 08 03	809	0.3−	0.6+	1997 07 01	910	1.4+	0.3−	1998 12 17	704	0.1−	0.0
1991 08 03	809	0.8−	0.4+	1997 07 01	910	1.2+	0.3−	1998 12 17	704	0.3−	0.8+
1991 08 03	809	0.7−	0.6+	1997 10 01	691	0.9−	0.4−	1998 12 17	704	1.8−	0.0
1991 08 04	809	1.2−	0.4+	1997 10 01	691	0.8−	0.2+	1998 12 17	704	1.8+	0.6+
1991 08 05	809	1.5+	0.2−	1997 10 01	691	0.9−	0.0	1998 12 17	704	1.2−	0.6+
1991 08 05	809	0.9+	0.4+	1997 10 07	691	0.7−	0.4−	1998 12 22	704	1.9+	1.9−
1991 08 05	675	0.2+	1.8−	1997 10 07	691	0.8−	0.2+	1998 12 22	704	0.4+	1.4−
1991 08 05	809	0.7+	0.6+	1997 10 07	691	0.5−	0.2+	1998 12 22	704	0.8+	0.9−
1991 08 05	675	0.5+	0.3−	1998 12 07	104	0.6+	0.2+	1998 12 22	704	(0.1−	2.4−)
1991 08 07	675	1.6+	1.1−	1998 12 07	104	0.4+	1.1−	2000 02 08	691	0.6+	0.1+
1991 08 07	675	0.4−	0.3−	1998 12 15	704	1.2+	1.0+	2000 02 08	691	0.7+	0.2−
1991 09 04	809	0.1+	1.1+	1998 12 15	704	0.8+	0.4−	2000 02 08	691	0.7+	0.0
1991 09 04	809	0.6−	0.8+	1998 12 15	704	0.6−	0.8−	2000 02 14	691	0.1−	0.5+
1991 09 04	809	0.7−	0.6+	1998 12 15	704	0.3−	0.5+	2000 02 14	691	0.1+	0.5−
1991 09 05	809	1.0−	0.1−	1998 12 16	704	0.2−	0.9−	2000 02 14	691	0.2+	0.0
1991 09 05	809	0.3−	1.2+	1998 12 16	704	1.0+	0.3−	2000 02 29	704	0.1−	0.5+
1991 09 05	809	0.4+	0.6+	1998 12 16	704	0.5−	1.4+	2000 02 29	704	0.8+	1.9+
1991 09 06	809	1.2+	0.7+	1998 12 16	704	0.7−	0.1−	2000 02 29	704	(0.1+	2.2+)
1991 09 06	809	0.1−	1.5+	1998 12 17	704	0.5−	0.5−	2000 02 29	704	0.4−	1.9+
1991 09 06	809	0.6−	1.2+	1998 12 17	704	1.8−	0.3+	2000 02 29	704	0.4−	1.6+

(13964)* 1991 PO₅ = 1997 XF₄

Discovered 1991 Aug. 3 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 30977)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	142.83899		(2000.0)		P		Q
n	0.17255685	ω	118.88105		+0.98977938		−0.14228888
a	3.1953217	Ω	249.30062		+0.12703835		+0.91009124
e	0.1704252	i	0.58322		+0.06479233		+0.38921436
P	5.71	H	13.1	G	0.15	U	1

Residuals in seconds of arc

1991 08 03	809	0.8+	0.2+	1998 12 15	704	(2.5+	1.5+)	2000 03 03	704	0.2−	0.9+
1991 08 03	809	0.2+	0.2+	1998 12 15	704	1.6+	1.1+	2000 03 04	704	0.5+	0.4+
1991 08 03	809	0.0	0.8+	1998 12 15	704	(3.0+	0.8+)	2000 03 04	704	0.2+	0.5+
1991 08 04	809	(3.1+	0.7+)	1998 12 15	704	0.3−	0.4+	2000 03 04	704	1.1+	1.0+
1991 08 05	809	0.3+	0.3+	2000 01 28	691	0.1−	0.2−	2000 03 04	704	0.5−	0.4+
1991 08 05	809	0.1+	0.1−	2000 01 28	691	0.1−	0.3−	2000 03 04	704	0.3−	0.1−
1991 08 05	809	0.8−	0.5+	2000 01 28	691	0.1+	0.2−	2000 03 04	704	0.4+	0.1−
1991 09 04	809	0.2−	1.3+	2000 02 02	704	0.4+	1.1+	2000 03 04	704	0.0	0.2+
1991 09 04	809	0.3−	2.0+	2000 02 02	704	0.1−	0.1+	2000 03 04	704	0.3+	0.8+
1991 09 04	809	0.0	2.0+	2000 02 02	704	0.4+	0.5−	2000 03 05	704	0.8−	0.2+
1991 09 05	809	0.2+	1.2+	2000 02 06	704	0.1−	0.8+	2000 03 05	704	0.4+	0.7+
1991 09 05	809	1.0−	0.1+	2000 02 06	704	0.4−	0.3−	2000 03 05	704	0.2+	0.8+

1991 09 05	809	1.1−	0.0	2000 02 06	704	0.1−	0.1+	2000 03 05	704	0.0	0.5+
1991 09 06	809	1.0+	1.3+	2000 02 06	704	1.3+	0.7−	2000 03 05	704	0.2−	0.0
1991 09 06	809	1.3−	1.7+	2000 02 08	691	0.2−	0.0	2000 03 11	699	1.4+	0.6+
1991 09 06	809	0.7−	1.4+	2000 02 08	691	0.3−	0.1+	2000 03 11	704	0.5+	0.0
1991 09 07	809	0.2−	0.3+	2000 02 08	691	0.3−	0.1−	2000 03 11	699	0.6+	0.3+
1991 09 07	809	0.2−	0.3+	2000 02 11	691	0.3−	0.2+	2000 03 11	704	0.3+	0.5+
1994 03 05	691	0.3−	0.7+	2000 02 11	691	0.4−	0.3+	2000 03 11	699	0.6+	0.5−
1994 03 05	691	0.6−	0.4+	2000 02 11	691	0.5−	0.3+	2000 03 11	704	0.5+	0.6+
1994 03 05	691	0.6−	0.5+	2000 02 29	704	0.2+	0.0	2000 03 11	704	0.1+	0.8+
1997 12 05	910	0.6−	0.6+	2000 02 29	704	0.4+	0.6+	2000 03 11	699	1.0+	0.1+
1997 12 05	910	0.3−	0.5+	2000 02 29	704	0.6+	0.2+	2000 03 11	704	0.1−	0.1+
1997 12 05	910	0.4−	0.4+	2000 02 29	704	0.4−	0.3+	2000 03 15	704	0.2−	0.8−
1997 12 06	910	0.5−	0.5+	2000 03 03	704	0.1+	0.7+	2000 03 15	704	0.5−	0.9+
1997 12 06	910	0.9−	0.6+	2000 03 03	704	0.1+	0.5+	2000 03 15	704	0.2+	0.5+
1997 12 06	910	0.5−	0.3+	2000 03 03	704	0.3+	0.2+				
1998 12 15	704	0.4+	1.8+	2000 03 03	704	0.3+	0.7+				

(13965)* 1991 PL₈ = 1991 RZ₃₈ = 1995 DN₈

Discovered 1991 Aug. 5 by H. E. Holt at Palomar.

Id. S. Nakano (d, *MPC* 22572), G. V. Williams (*MPC* 25065)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	226.48285		(2000.0)		P		Q
n	0.18143464	ω	257.86264		+0.32453097		+0.94579011
a	3.0902189	Ω	31.08374		−0.85799518		+0.29999436
e	0.1633855	i	1.40698		−0.39815061		+0.12443651
P	5.43	H	13.8	G	0.15	U	1

Residuals in seconds of arc

1991 08 05	675	1.2−	0.0	1995 03 02	691	0.3−	0.1−	2000 02 27	703	1.1+	1.0−
1991 08 05	675	1.2−	0.1−	1995 03 02	691	0.3−	0.2−	2000 02 27	703	0.5+	0.2−
1991 08 07	675	0.6+	0.9−	1997 12 03	910	0.4−	0.0	2000 02 27	703	1.8+	0.1−
1991 08 07	675	0.8−	0.3−	1997 12 03	910	0.5−	0.0	2000 02 29	704	(2.5−	0.2−)
1991 09 04	809	1.5+	1.7+	1997 12 03	910	0.3−	0.1+	2000 02 29	704	0.4−	0.5+
1991 09 04	809	1.3+	1.1+	1997 12 05	910	0.3−	0.0	2000 02 29	704	0.3+	0.0
1991 09 04	809	0.3+	0.1+	1997 12 05	910	0.1+	0.1−	2000 02 29	704	0.8−	0.4+
1992 11 27	691	0.0	0.2−	1997 12 05	910	0.1−	0.2−	2000 03 05	704	0.2+	0.2+
1992 11 27	691	0.7+	0.5−	2000 02 03	704	0.1+	0.2−	2000 03 05	704	0.4−	0.4−
1992 11 27	691	0.3−	0.1+	2000 02 03	704	0.2+	1.1+	2000 03 05	704	0.3−	0.2+
1995 02 24	691	0.3−	0.1+	2000 02 03	704	0.3−	0.3+	2000 03 05	704	0.4+	0.2+
1995 02 24	691	0.6−	0.1−	2000 02 03	704	0.3+	0.1+	2000 03 05	704	0.4−	1.1+
1995 02 24	691	0.5−	0.1+	2000 02 03	704	1.1+	0.4−				
1995 03 02	691	0.1+	0.2+	2000 02 27	703	0.6−	0.1+				

(13966)* 1991 PR₁₆ = 1970 LL = 1997 GG

Discovered 1991 Aug. 7 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 29614, *MPC* 34493), A. Doppler (*MPC* 34493)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	185.68777		(2000.0)		P		Q	
n	0.28781293	ω	187.42942		+0.82796069		+0.56054416	
a	2.2719347	Ω	138.46311		−0.51322507		+0.76925171	
e	0.1955133	i	1.42347		−0.22601135		+0.30666278	
P	3.42	H	14.7		G	0.15	U	2

Residuals in seconds of arc

1970 06 04	805	1.6+	1.3+	1998 10 29	704	0.8+	0.4−	2000 02 25	703	1.5−	1.6+
1991 08 07	675	0.9+	1.3−	1998 10 29	704	0.1−	0.4+	2000 02 25	703	1.7−	0.9−
1991 08 08	675	0.3−	1.3−	1998 10 29	704	0.1+	0.3+	2000 02 26	691	0.3−	0.7−
1991 09 13	675	0.2−	0.5−	1998 10 29	704	0.4+	0.1−	2000 02 26	691	0.3−	0.8−
1991 09 13	675	1.9−	0.3−	1998 11 10	704	0.0	0.9+	2000 02 26	691	0.4−	0.8−
1991 09 16	675	0.6−	0.4−	1998 11 10	704	0.3+	0.5+	2000 02 29	704	0.2+	0.9−
1991 09 16	675	0.4−	0.2−	1998 11 10	704	0.1+	0.7+	2000 02 29	704	0.0	0.1−
1997 03 10	809	(0.4+	2.2−)	1998 11 10	704	0.8−	0.3+	2000 02 29	704	0.3+	0.4+
1997 03 10	809	0.1−	1.8−	1998 11 11	704	1.1−	1.7+	2000 02 29	704	0.8+	0.2−
1997 03 10	809	(0.1+	2.7−)	1998 11 11	704	0.3−	1.0+	2000 02 29	704	0.1−	0.6−
1997 03 11	809	(0.8+	3.7−)	1998 11 11	704	0.1+	0.6+	2000 03 02	691	0.1−	0.7−

1997 03 11	809	(0.9+ 4.1-)	1998 11 11	704	0.8- 0.6+	2000 03 02	691	0.1- 0.6-
1997 03 11	809	(0.3+ 3.0-)	1998 11 11	704	0.3- 0.2+	2000 03 02	691	0.3- 0.5-
1997 04 04	566	0.2- 0.6-	1998 11 16	566	1.1+ 1.2-	2000 03 03	704	0.1- 0.6+
1997 04 04	566	0.3- 0.5-	1998 11 16	566	1.0+ 0.7-	2000 03 03	704	0.2- 0.1+
1997 04 04	566	0.0 0.5-	1998 11 16	566	1.5+ 0.7-	2000 03 03	704	0.2+ 0.6+
1997 04 05	566	0.1- 0.7-	1998 12 09	699	1.6+ 0.2-	2000 03 03	704	0.2+ 0.4+
1997 04 05	566	0.4+ 0.3-	1998 12 09	699	0.4+ 0.5-	2000 03 03	704	0.2- 0.1+
1997 04 05	566	0.2+ 0.9-	1998 12 09	699	0.4+ 0.0	2000 03 04	691	0.1+ 0.2-
1998 09 14	699	0.3- 0.0	1999 01 07	691	0.4- 0.6-	2000 03 04	691	0.2+ 0.3-
1998 09 14	699	0.0 0.5+	1999 01 07	691	0.2- 0.7-	2000 03 04	691	0.1+ 0.2+
1998 09 14	699	0.0 0.1+	1999 01 07	691	0.4- 0.6-	2000 03 05	704	0.7+ 1.0+
1998 09 20	809	(2.9+ 3.2+)	2000 02 04	704	0.6- 0.3+	2000 03 05	704	0.3- 1.3+
1998 09 20	809	(1.9+ 3.0+)	2000 02 04	704	0.1+ 1.0-	2000 03 05	704	0.3- 1.1+
1998 09 20	809	(2.3+ 2.9+)	2000 02 04	704	0.7- 0.1+	2000 03 05	704	0.2- 0.7+
1998 09 21	809	(2.7+ 2.2+)	2000 02 04	704	0.5+ 0.1+	2000 03 05	704	1.5- 0.4+
1998 09 21	809	(2.1+ 2.3+)	2000 02 04	704	0.0 0.2+	2000 03 11	704	0.1+ 0.4+
1998 09 21	809	(1.4+ 2.8+)	2000 02 06	704	1.7+ 1.0-	2000 03 11	704	0.1- 0.4+
1998 10 28	704	0.3+ 0.2-	2000 02 06	704	0.1+ 0.7+	2000 03 11	704	0.0 0.2+
1998 10 28	704	0.2+ 0.6-	2000 02 06	704	1.2+ 0.1-	2000 03 11	704	0.3+ 0.7+
1998 10 28	704	0.4+ 0.3-	2000 02 06	704	0.2- 1.0-	2000 03 11	704	0.2+ 0.2+
1998 10 28	704	0.4+ 0.2+	2000 02 25	703	0.6+ 0.9+			
1998 10 29	704	0.3+ 0.4-	2000 02 25	703	1.7- 0.4+			

(13967)* 1991 QJ = 1981 SY₆ = 1998 QV₉₂

Discovered 1991 Aug. 31 by S. Otomo at Kiyosato.

Id. G. V. Williams (*MPC* 32448)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	194.57770	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.29166105	ω	162.45287	+0.80539113
<i>a</i>	2.2519069	Ω	161.14380	-0.55557789
<i>e</i>	0.2060244	<i>i</i>	5.98885	-0.20658739
<i>P</i>	3.38	<i>H</i>	14.2	<i>U</i>

Residuals in seconds of arc

1981 09 28	095	0.4- 1.3+	1998 10 15	704	0.3+ 1.1-	2000 02 25	703	0.8- 0.1-
1991 08 31	894	(0.3- 2.4-)	1998 10 15	704	0.1+ 1.2-	2000 02 25	703	0.7- 0.0
1991 08 31	894	0.3- 0.3-	1998 10 15	120	0.8+ 0.5-	2000 02 25	703	0.2- 0.5+
1991 09 03	657	(0.6+ 2.4-)	1998 10 16	120	0.7+ 0.6-	2000 02 29	704	0.9+ 0.8+
1991 09 03	657	0.5+ 1.4-	1998 10 18	809	(0.0 2.9-)	2000 02 29	704	0.3+ 0.1+
1991 09 09	894	1.2- 0.3-	1998 10 18	809	(0.1- 3.3-)	2000 02 29	704	0.1+ 0.0
1991 09 09	894	0.3- 0.4-	1998 10 18	809	(1.4- 3.4-)	2000 02 29	704	0.2+ 0.1-
1991 09 10	675	0.0 0.7+	1998 10 19	809	0.7+ 0.1+	2000 02 29	704	0.4+ 0.6+
1991 09 10	675	0.3+ 0.2+	1998 10 19	809	0.1+ 0.8+	2000 03 03	704	0.2+ 0.1+
1991 09 16	675	0.3+ 0.2-	1998 10 19	809	0.3+ 0.6+	2000 03 03	704	0.4+ 0.2+
1991 09 16	675	0.2+ 0.1-	1998 12 11	699	0.3+ 0.6-	2000 03 03	704	0.3- 0.2+
1991 09 16	894	1.3+ 0.9+	1998 12 11	699	0.2+ 0.4-	2000 03 03	704	0.3+ 0.5-
1991 09 19	894	1.1+ 1.7-	1998 12 11	699	0.1- 0.1-	2000 03 03	704	0.2+ 0.5-
1991 09 19	894	0.9- 1.0-	2000 02 01	703	(5.1+ 1.4-)	2000 03 05	704	0.0 0.3+
1998 08 28	704	0.5+ 0.5-	2000 02 01	703	0.4+ 0.1-	2000 03 05	704	1.0- 0.0
1998 08 28	704	0.2+ 0.2+	2000 02 01	703	0.2- 0.1-	2000 03 05	704	0.7- 0.1-
1998 08 28	704	1.0+ 0.8+	2000 02 01	703	0.5- 0.2-	2000 03 05	704	0.0 0.1-
1998 08 28	704	0.6+ 0.8-	2000 02 02	704	0.5- 0.4-	2000 03 05	704	0.6+ 0.3+
1998 08 31	704	0.9- 0.7+	2000 02 02	704	0.2- 0.2-	2000 03 08	704	0.2+ 0.9+
1998 08 31	704	0.6- 1.7+	2000 02 02	704	0.4- 0.2-	2000 03 08	704	0.5+ 0.4-
1998 08 31	704	0.0 0.3+	2000 02 02	704	1.2- 0.3+	2000 03 08	704	0.4+ 0.3+
1998 08 31	704	1.7- 0.1+	2000 02 02	704	0.1- 0.5-	2000 03 08	704	1.6+ 0.8-
1998 08 31	704	1.1+ 0.0	2000 02 07	691	0.3- 0.9-	2000 03 08	704	(2.3+ 0.6-)
1998 09 29	704	0.4- 1.2+	2000 02 07	691	0.3- 1.1-	2000 03 11	704	0.0 0.5-
1998 09 29	704	0.3- 0.3+	2000 02 07	691	0.5- 1.0-	2000 03 11	704	0.5+ 0.2+
1998 09 29	704	0.5- 0.6+	2000 02 13	704	1.7+ 0.4+	2000 03 11	704	0.6- 0.2-
1998 09 29	704	0.1- 1.0+	2000 02 13	704	0.1+ 0.1-	2000 03 11	704	0.2- 0.4+
1998 09 29	704	0.6- 1.5+	2000 02 13	704	0.5- 0.1+	2000 03 11	704	0.5+ 0.1-
1998 10 15	704	1.0- 1.1-	2000 02 13	704	0.8- 0.7+			
1998 10 15	704	0.8- 1.5-	2000 02 25	703	0.1+ 0.2+			

(13968)* 1991 RE₇ = 1995 FJ₁

Discovered 1991 Sept. 2 by R. H. McNaught at Siding Spring.

Id. S. Nakano (*MPC* 25214)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	236.31952	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17395133	ω	280.12556	+0.30488658
<i>a</i>	3.1782219	Ω	8.01218	-0.71173469
<i>e</i>	0.1582875	<i>i</i>	17.59029	-0.63283324
<i>P</i>	5.67	<i>H</i>	11.8	<i>U</i>

Residuals in seconds of arc

1991 09 02	413	1.4- 0.5+	1998 12 07	596	0.6+ 0.6+	2000 02 14	704	0.3+ 0.6+
1991 09 02	413	0.0 0.4+	1998 12 07	596	(0.9- 2.6+)	2000 02 14	704	0.1+ 0.0
1991 09 03	413	1.1- 0.1-	1998 12 07	596	0.6- 0.5-	2000 02 14	704	0.2+ 0.4+
1991 09 11	675	0.9+ 0.7+	1998 12 07	596	1.3- 1.0-	2000 03 04	704	0.2+ 0.5-
1991 09 11	675	0.7+ 0.5+	1998 12 12	704	0.5+ 0.1+	2000 03 04	704	0.4+ 0.2-
1991 09 14	675	1.0+ 0.8+	1998 12 12	704	0.7+ 0.2+	2000 03 04	704	0.1- 0.3-
1991 09 14	675	0.3+ 0.8+	1998 12 12	704	1.1+ 0.8-	2000 03 04	704	0.1+ 0.7-
1991 09 17	675	1.0- 0.2-	1998 12 12	704	0.1- 0.7-	2000 03 11	699	0.3- 0.3+
1991 09 17	675	0.5- 0.4-	1998 12 12	704	0.9+ 0.9+	2000 03 11	699	0.1- 0.0
1991 11 09	675	0.1+ 2.0-	1999 02 07	651	0.1- 0.1+	2000 03 11	699	0.1- 0.1+
1991 11 09	675	0.0 0.7-	1999 02 07	651	0.2- 0.3-	2000 03 11	699	0.0 0.0
1995 03 28	399	0.9+ 0.4-	1999 02 09	651	0.1- 0.3-	2000 03 12	704	0.1+ 0.3+
1995 03 28	399	1.4+ 0.9+	1999 02 09	651	0.1- 1.0-	2000 03 12	704	0.1+ 0.6+
1995 04 04	399	1.1- 0.9-	1999 02 09	651	0.2- 0.3-	2000 03 12	704	0.4+ 0.9+
1995 04 04	399	1.5- 0.7-	2000 01 31	704	0.3- 0.5+	2000 03 12	704	0.0 0.8+
1997 10 29	566	0.2- 0.3+	2000 01 31	704	0.1- 0.0	2000 03 12	704	0.1+ 0.7+
1997 10 29	566	0.3- 0.2+	2000 01 31	704	0.3- 0.1+			
1997 10 29	566	0.2- 0.4+	2000 02 14	704	0.9+ 0.6+			

(13969)* 1991 RK₂₆ = 1997 GU₁₈

Discovered 1991 Sept. 11 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 29614)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	203.96144	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28790677	ω	296.81213	+0.73784425
<i>a</i>	2.2714410	Ω	20.95310	-0.56577810
<i>e</i>	0.1948402	<i>i</i>	7.25126	-0.36807744
<i>P</i>	3.42	<i>H</i>	14.5	<i>U</i>

Residuals in seconds of arc

1991 09 11	675	0.8+ 0.9+	1998 10 19	699	0.8- 0.6-	2000 02 29	704	0.1+ 0.0
1991 09 11	675	0.8+ 0.3+	1998 10 19	699	0.4+ 0.2+	2000 02 29	704	0.2- 0.2+
1991 09 13	675	0.1- 0.4-	1998 10 19	699	0.2- 0.5+	2000 02 29	704	0.4+ 0.1-
1991 09 13	675	0.3- 0.8+	1998 11 10	704	0.1- 0.2+	2000 02 29	704	0.9- 1.0+
1991 09 13	675	0.7+ 0.2-	1998 11 10	704	0.4- 0.3-	2000 03 04	704	0.8+ 0.1+
1991 09 13	675	0.5- 0.0	1998 11 10	704	0.9+ 0.4+	2000 03 04	704	0.0 0.8-
1991 09 15	675	0.8- 0.0	1998 11 10	704	0.3+ 1.0+	2000 03 04	704	0.3+ 0.4-
1991 09 15	675	1.2- 1.0-	1998 11 10	704	0.8- 0.8+	2000 03 04	704	0.2+ 0.6-
1993 01 25	691	0.0 1.0-	1998 11 11	704	0.1- 0.1-	2000 03 04	704	0.1- 0.3-
1993 01 25	691	0.5- 0.8-	1998 11 11	704	0.7+ 0.0	2000 03 05	704	0.2- 0.5+
1993 01 25	691	0.0 0.6-	1998 11 11	704	0.5+ 0.4-	2000 03 05	704	0.6- 0.8+
1997 04 03	704	0.1- 0.3+	1998 11 11	704	(0.7+ 2.9-)	2000 03 05	704	1.0- 0.5+
1997 04 03	704	0.2+ 0.1+	1998 11 11	704	0.5- 0.2-	2000 03 05	704	0.5- 0.5+
1997 04 05	704	1.1+ 1.0-	2000 02 03	704	0.3+ 0.3-	2000 03 05	704	0.5- 0.4+
1997 04 05	704	0.9+ 0.1-	2000 02 03	704	0.2+ 0.3+	2000 03 11	699	0.2- 0.2-
1997 04 06	327	0.5- 0.1+	2000 02 03	704	0.8+ 0.8+	2000 03 11	699	0.4- 1.1-
1997 04 06	327	0.7- 0.3+	2000 02 03	704	0.1+ 0.7-	2000 03 11	699	0.4- 0.1-
1997 04 06	327	0.4- 0.4+	2000 02 11	704	0.4- 0.4+	2000 03 11	699	0.3- 0.3-
1998 08 31	704	(2.5+ 1.6-)	2000 02 11	704	0.4- 0.6+	2000 03 12	704	1.4+ 0.8+
1998 08 31	704	1.2+ 1.1-	2000 02 11	704	1.2+ 0.8-	2000 03 12	704	0.5+ 0.4-
1998 08 31	704	0.3- 0.6-	2000 02 11	704	0.2+ 1.7+	2000 03 12	704	0.6+ 0.3+
1998 08 31	704	(2.5+ 0.2-)	2000 02 29	704	0.8- 0.2-			

2000 MAR. 20

M.P.C. 39043

(13970)* 1991 RH₂₇ = 1991 TA₆ = 1997 GA₃₉

Discovered 1991 Sept. 13 by H. E. Holt at Palomar.

Id. S. Nakano (d, *MPC* 20484), B. G. Marsden (*MPC* 30078)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	221.67918		(2000.0)		P		Q
<i>n</i>	0.29299775	ω	167.39184		+0.73224716		+0.67970408
<i>a</i>	2.2450526	Ω	149.65022		-0.63193652		+0.70145262
<i>e</i>	0.1864879	<i>i</i>	4.83861		-0.25391008		+0.21439819
<i>P</i>	3.36	<i>H</i>	14.3		<i>G</i> 0.15		<i>U</i> 1

Residuals in seconds of arc

1991 09 13	675	0.1-	1.3-	1998 11 23	699	0.3+	0.3+	2000 02 29	704	0.0	0.1+
1991 09 13	675	1.3+	1.0-	1998 11 23	699	0.3-	1.5+	2000 02 29	704	0.5-	0.4-
1991 09 15	675	0.4+	0.4+	1998 11 23	699	0.1+	0.8+	2000 02 29	704	0.3-	0.0
1991 09 15	675	0.4+	0.6+	1998 12 16	699	0.3-	0.6+	2000 02 29	704	0.1-	0.5+
1991 10 06	046	1.1-	0.9-	1998 12 16	699	0.5-	0.2+	2000 03 03	704	0.3-	0.1-
1991 10 06	046	1.3+	0.5-	1998 12 16	699	0.4-	0.3+	2000 03 03	704	0.2-	0.3-
1991 10 07	046	(0.9-	2.3-)	2000 02 06	704	0.5+	0.4+	2000 03 03	704	0.2-	0.3-
1991 10 07	046	0.9-	0.1-	2000 02 06	704	1.0+	0.4+	2000 03 03	704	0.1+	0.4-
1997 04 07	809	(0.2+	2.1-)	2000 02 06	704	0.2+	0.3+	2000 03 03	704	0.1+	1.2-
1997 04 07	809	(0.6+	2.9-)	2000 02 06	704	0.9-	0.1+	2000 03 11	704	0.2-	0.3+
1997 04 07	809	(0.2-	2.8-)	2000 02 11	704	0.6+	0.7-	2000 03 11	699	0.3-	0.1-
1997 04 08	809	0.4-	0.6+	2000 02 11	704	0.9+	0.1-	2000 03 11	704	0.0	0.2+
1997 04 08	809	0.7-	0.6+	2000 02 11	704	0.8-	0.6-	2000 03 11	704	0.0	0.1-
1997 04 08	809	0.5-	0.3+	2000 02 11	704	0.0	0.9-	2000 03 11	699	0.6-	0.2+
1997 04 09	809	1.0+	0.6+	2000 02 11	704	0.1-	0.4-	2000 03 11	704	0.1+	0.1-
1997 04 09	809	0.4+	0.9+	2000 02 26	703	0.1+	0.3-	2000 03 11	699	(0.2-	2.1+)
1997 04 09	809	0.8+	0.1+	2000 02 26	703	0.5+	0.8-	2000 03 11	704	0.2-	0.4-
1997 04 10	809	(2.8+	3.4+)	2000 02 26	703	0.7-	0.7-	2000 03 11	699	0.0	0.7-
1997 04 10	809	(2.9+	2.3+)	2000 02 26	703	0.3+	0.7+				
1997 04 10	809	(3.0+	3.2+)	2000 02 29	704	0.1+	0.0				

(13971)* 1991 UF₁ = 1993 FR₃₁

Discovered 1991 Oct. 18 by S. Ueda and H. Kaneda at Kushiro.

Id. G. V. Williams (*MPC* 23518)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	95.04052		(2000.0)		P		Q
<i>n</i>	0.26888758	ω	308.31465		+0.74487542		-0.66456465
<i>a</i>	2.3773268	Ω	93.41810		+0.62918785		+0.67009208
<i>e</i>	0.2102591	<i>i</i>	3.40470		+0.22199832		+0.33065151
<i>P</i>	3.67	<i>H</i>	15.0		<i>G</i> 0.15		<i>U</i> 1

Residuals in seconds of arc

1991 10 18	399	1.4+	0.1-	1998 08 17	704	0.6-	0.2+	2000 02 04	704	0.1-	0.9+
1991 10 18	399	0.9-	1.5-	1998 08 17	704	0.3-	0.4-	2000 02 04	704	1.2+	1.2+
1991 10 19	399	(2.3+	3.2+)	1998 08 17	704	0.1+	0.7+	2000 03 02	703	0.8-	0.5-
1991 10 19	399	(0.4+	2.4+)	1998 08 21	566	1.1+	0.5+	2000 03 02	703	1.2-	0.9+
1991 10 31	399	0.1+	1.7+	1998 08 21	566	0.4+	0.0	2000 03 02	703	0.2-	0.3+
1991 10 31	399	0.7-	0.5-	1998 08 21	566	0.1+	0.7+	2000 03 02	703	0.7+	0.0
1991 11 04	399	1.3+	1.7+	1998 08 23	704	0.3-	0.0	2000 03 05	704	0.0	0.1+
1991 11 04	399	1.7-	0.9+	1998 08 23	704	(0.0	3.0+)	2000 03 05	704	0.2-	0.0
1991 11 09	399	0.3-	0.2+	1998 08 23	704	(0.4+	2.9+)	2000 03 05	704	0.7-	0.0
1991 11 09	399	0.8+	0.6-	1998 08 23	704	(0.1-	2.7+)	2000 03 05	704	0.0	0.1+
1993 03 19	809	0.1-	0.9+	1998 08 23	704	1.1+	0.2+	2000 03 05	704	0.3+	0.2-
1993 03 20	809	0.1-	1.1+	1998 08 27	699	0.4-	0.4+	2000 03 12	704	0.8+	0.5-
1993 03 24	809	1.6-	0.9+	1998 08 27	699	0.4-	0.2+	2000 03 12	704	0.9+	0.1+
1997 05 01	704	1.4+	0.4-	1998 08 27	699	0.9-	0.5+	2000 03 12	704	0.3+	0.2+
1997 05 01	704	1.3+	0.1+	1998 09 14	699	0.8-	0.0	2000 03 12	704	0.1+	0.6+
1997 05 01	704	0.7+	0.2-	1998 09 14	699	1.2-	1.3+	2000 03 12	704	0.1-	1.1+
1997 05 01	704	0.4+	0.0	1998 09 14	699	0.2-	0.2-				
1997 05 01	704	1.0-	0.3-	2000 02 04	704	0.7+	0.4-				

(13972)* 1991 UN₃

Discovered 1991 Oct. 31 by S. Ueda and H. Kaneda at Kushiro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	158.53410		(2000.0)		P		Q
<i>n</i>	0.28353935	ω	304.84366		+0.87052811		-0.48570601
<i>a</i>	2.2947065	Ω	84.33332		+0.47349473		+0.78282123
<i>e</i>	0.0968442	<i>i</i>	4.56415		+0.13410274		+0.38894806
<i>P</i>	3.48	<i>H</i>	13.6		<i>G</i> 0.15		<i>U</i> 2

Residuals in seconds of arc

1991 10 31	399	1.8-	0.2-	1998 08 31	704	0.4-	0.7-	1998 12 09	758	0.2+	0.7+
1991 10 31	399	1.1+	0.0	1998 08 31	704	0.4+	0.9-	1998 12 09	758	0.1-	0.8+
1991 11 04	399	(1.3-	2.3-)	1998 08 31	704	1.1-	0.4-	1998 12 09	758	0.0	1.1+
1991 11 04	399	0.8-	1.3-	1998 09 29	704	0.3+	0.6+	1998 12 10	399	1.2-	1.3+
1991 11 10	896	1.2-	1.5+	1998 09 29	704	0.5+	0.5+	1998 12 10	399	1.7-	0.4-
1991 11 11	894	0.9+	1.2+	1998 09 29	704	1.5-	0.8+	1998 12 10	399	1.9-	0.6-
1991 11 11	894	0.7+	0.4+	1998 09 29	704	2.0+	0.4+	1998 12 10	399	0.8-	0.5+
1991 11 11	896	1.6+	0.1-	1998 10 30	704	0.5+	0.0	1998 12 15	704	0.5+	0.7-
1991 11 12	894	0.9+	1.5-	1998 10 30	704	1.4+	0.9-	1998 12 15	704	0.7+	1.1-
1991 11 12	894	1.3+	0.5+	1998 10 30	704	0.8+	0.5-	1998 12 15	704	0.5+	0.8-
1991 12 05	399	0.6-	0.0	1998 10 30	704	0.1-	1.3-	1998 12 15	704	0.3+	0.2+
1991 12 05	399	0.6-	0.3-	1998 11 10	704	0.1+	0.1+	1999 01 22	699	1.1-	0.1-
1991 12 07	399	0.9-	1.8+	1998 11 10	704	0.2+	0.2+	1999 01 22	699	0.6-	0.6-
1991 12 07	399	0.4-	0.5-	1998 11 10	704	2.1+	0.8-	1999 01 22	699	0.6-	0.2-
1991 12 09	399	(2.3-	0.2-)	1998 11 11	704	0.4+	0.1-	1999 02 06	704	0.6+	0.7-
1991 12 09	399	0.6-	0.2-	1998 11 11	704	0.8+	1.8-	1999 02 06	704	0.2+	0.8+
1993 04 18	413	(6.0-	3.2-)	1998 11 11	704	1.2+	0.4-	1999 02 06	704	0.1+	2.0+
1996 01 23	411	0.1+	0.2-	1998 11 11	704	0.9+	0.6-	1999 02 06	704	0.0	0.4-
1996 01 23	411	0.4+	0.1-	1998 11 16	566	1.0-	0.1-	1999 02 12	327	0.0	0.5-
1996 01 24	411	0.0	0.0	1998 11 16	566	1.1-	0.7-	1999 02 12	327	0.1-	0.4-
1996 01 24	411	0.1+	0.2+	1998 11 16	566	0.9-	0.6-	1999 02 12	327	0.1+	0.4-
1996 02 12	399	(2.8-	0.3+)	1998 11 17	727	0.5-	0.2-	1999 02 14	327	0.2-	0.4-
1996 02 12	399	0.3-	0.3+	1998 11 17	727	0.5-	0.2-	1999 02 14	327	0.1+	0.4-
1996 02 16	399	1.1-	0.7-	1998 11 17	727	0.2+	0.1-	1999 02 14	327	0.2+	0.2-
1996 02 16	399	1.0+	1.2-	1998 11 20	699	0.8-	1.2+	2000 02 08	704	0.3+	1.0+
1996 03 09	399	1.5-	0.7+	1998 11 20	699	0.4-	0.8+	2000 02 08	704	0.1-	0.2+
1996 03 09	399	0.2+	1.3+	1998 11 20	699	0.3-	0.8+	2000 02 08	704	0.2+	0.1+
1998 08 28	704	0.6+	1.8-	1998 11 24	704	0.3+	0.1-	2000 03 15	691	0.0	0.3-
1998 08 28	704	1.2-	0.5+	1998 11 24	704	1.7+	1.1-	2000 03 15	691	0.1+	0.3-
1998 08 28	704	0.9-	0.8+	1998 11 24	704	1.5+	1.0+	2000 03 15	691	0.1+	0.2-
1998 08 28	704	2.0-	0.8+	1998 11 24	704	0.6+	1.4+				
1998 08 31	704	1.7-	1.2+	1998 11 24	704	0.7+	0.7+				

(13973)* 1991 UZ₃ = 1998 QD₂₅

Discovered 1991 Oct. 31 by S. Ueda and H. Kaneda at Kushiro.

Id. G. V. Williams (*MPC* 32451)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	77.53556		(2000.0)		P		Q
<i>n</i>	0.26765658	ω	291.07707		+0.47235932		-0.88109414
<i>a</i>	2.3846104	Ω	130.71337		+0.81972221		+0.42936961
<i>e</i>	0.1713817	<i>i</i>	1.77268		+0.32393237		+0.19827972
<i>P</i>	3.68	<i>H</i>	15.1		<i>G</i> 0.15		<i>U</i> 1

Residuals in seconds of arc

1991 10 31	399	(0.3-	2.7+)	1998 08 23	704	0.2-	1.7+	2000 02 29	704	0.2+	1.2+
1991 10 31	399	0.7-	0.1-	1998 08 23	704	0.7+	1.5-	2000 02 29	704	0.3+	0.6+
1991 11 04	399	0.0	0.0	1998 09 14	704	(1.0+	2.1+)	2000 03 03	704	0.0	0.3+
1991 11 04	399	0.6-	1.2+	1998 09 14	704	1.1-	0.0	2000 03 03	704	0.6+	0.3-
1991 11 09	399	0.1+	0.4-	1998 09 14	704	0.4+	0.9+	2000 03 03	704	0.3+	0.3-
1991 11 09	399	0.7-	0.2+	1998 09 14	704	(2.4+	0.9-)	2000 03 03	704	0.3+	0.8-
1992 01 10	691	0.8+	0.4+	1998 09 14	704	0.1+	0.3+	2000 03 03	704	0.4+	0.5-
1992 01 10	691	0.6+	1.0+	1998 09 18	704	(2.1+	1.0+)	2000 03 05	704	0.4-	0.3+
1992 01 10	691	0.7+	0.6+	1998 09 18	704	0.3+	0.9+	2000 03 05	704	0.9-	0.5+
1996 01 18	566	0.4-	0.5-	1998 10 14	910	0.5-	0.5+	2000 03 05	704	0.2+	0.3+
1996 01 18	566	0.1+	0.9-	1998 10 14	910	0.1-	0.0	2000 03 05	704	0.3-	0.1-
1996 01 18	566	0.1-	0.8-	1998 10 14	910	0.4-	0.7+	2000 03 05	704	0.3+	0.7-
1998 07 26	691	0.3-	0.1-	2000 02 05	704	0.1-	0.2-	2000 03 06	704	1.4+	1.8+
1998 07 26	691	0.2-	0.3+	2000 02 05	704	0.9+	0.2-	2000 03 06	704	0.2-	1.1+

1998 07 26	691	0.1−	0.1+	2000 02 05	704	1.2+	0.3−	2000 03 06	704	0.0	0.6+
1998 08 17	704	0.7−	0.6−	2000 02 11	704	0.2+	0.7+	2000 03 11	704	0.3+	0.1+
1998 08 17	704	1.2−	1.6+	2000 02 11	704	0.5−	0.0	2000 03 11	704	0.4−	0.1−
1998 08 17	704	0.8+	0.4+	2000 02 11	704	0.5−	0.1+	2000 03 11	704	0.9+	1.3+
1998 08 17	704	0.8−	1.4+	2000 02 29	704	0.4−	0.4+	2000 03 11	704	0.2−	0.4+
1998 08 23	704	(1.7+ 2.3−)		2000 02 29	704	0.3−	0.9+	2000 03 11	704	0.3−	0.2+
1998 08 23	704	1.3+	0.7−	2000 02 29	704	0.1+	0.7+				

(13974)* 1991 YC = 1988 FT

Discovered 1991 Dec. 28 by A. Natori and T. Urata at the JCPM Yakiimo Station.

Id. T. Urata (*MPC* 19684)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23807695	ω	24.71413	−0.67958743	−0.69199491		
<i>a</i>	2.5782467	Ω	109.14887	+0.62288425	−0.71966624		
<i>e</i>	0.2107716	<i>i</i>	14.93883	+0.38752565	−0.05677631		
<i>P</i>	4.14	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1988 03 18	675	0.1−	1.1−	1999 10 10	385	0.7−	1.4−	2000 01 04	699	0.4+	0.1+
1988 03 19	675	0.8−	0.8−	1999 10 10	385	0.3+	0.2−	2000 01 04	699	0.5+	0.6+
1991 12 28	885	0.8−	0.6−	1999 11 05	699	0.2+	0.6−	2000 01 04	699	0.1−	0.2+
1991 12 28	885	0.8−	0.8−	1999 11 05	699	0.4−	0.1+	2000 01 07	704	0.1−	0.5+
1991 12 30	385	0.1+	0.5−	1999 11 05	699	0.2+	0.4−	2000 01 07	704	0.1−	0.3+
1991 12 30	385	0.2+	1.9+	1999 11 05	886	0.2−	0.1−	2000 01 07	704	0.4−	0.2+
1991 12 30	886	0.8+	0.1+	1999 11 05	886	1.5−	0.9−	2000 01 07	704	0.3−	0.4+
1991 12 30	886	0.0	1.9−	1999 11 06	704	0.4+	0.4−	2000 01 07	704	0.3−	0.4+
1992 01 01	691	0.4−	1.0+	1999 11 06	704	0.4+	0.1+	2000 01 08	888	0.1+	0.3+
1992 01 01	691	0.5−	0.8+	1999 11 06	704	0.2+	0.2−	2000 01 08	888	0.0	0.3+
1992 01 03	885	0.1−	0.6+	1999 11 06	704	0.6+	1.1−	2000 01 11	704	0.1−	0.0
1992 01 10	885	1.3+	0.6−	1999 11 06	704	0.1+	0.9−	2000 01 11	704	0.1−	0.1−
1992 01 10	885	0.6+	0.1+	1999 11 14	886	0.8−	1.3+	2000 01 11	704	0.2+	0.2−
1995 12 29	385	0.2+	0.4+	1999 11 14	886	1.2−	1.6+	2000 01 11	704	0.0	0.3−
1995 12 29	385	0.6+	0.1+	1999 11 18	886	0.8−	0.6−	2000 01 11	704	0.4+	0.6+
1995 12 29	385	0.6+	0.3+	1999 11 18	886	0.1−	1.3−	2000 02 04	704	1.1−	0.8+
1995 12 30	385	0.2−	0.2+	1999 11 28	886	2.0+	0.7−	2000 02 04	704	0.2−	0.4−
1995 12 30	385	0.5−	0.1+	1999 11 28	886	0.2+	0.5−	2000 02 04	704	0.1−	0.5+
1995 12 30	385	0.3−	0.4−	1999 12 03	704	0.5+	0.1+	2000 02 04	704	0.7−	0.0
1996 01 17	118	0.3+	0.1−	1999 12 03	704	0.3+	0.5+	2000 02 04	704	0.2−	0.8+
1996 01 17	118	0.5+	0.3+	1999 12 03	704	0.2+	0.8+	2000 02 09	888	0.1−	0.8−
1996 02 28	118	0.0	0.1−	1999 12 03	704	0.4+	0.5+	2000 02 09	888	0.3+	0.1−
1996 02 28	118	0.1−	0.3−	1999 12 03	704	0.4+	1.1+	2000 02 09	888	0.5−	0.1−
1997 06 07	385	0.6+	0.3+	1999 12 10	888	0.1+	0.2−	2000 03 03	703	1.1−	0.1−
1997 06 07	385	0.0	0.1−	1999 12 10	888	0.1−	0.0	2000 03 03	703	0.3+	0.1−
1999 10 09	704	1.0−	1.4+	1999 12 10	888	0.1+	0.0	2000 03 03	703	0.6−	0.9+
1999 10 09	704	0.5+	0.7−	1999 12 29	888	0.1+	0.2+	2000 03 03	703	0.6−	1.2−
1999 10 09	704	0.9+	2.1−	1999 12 29	888	0.3+	0.2+				

(13975)* 1992 BP₂ = 1996 AG₁₉ = 1998 SK₈₂

Discovered 1992 Jan. 30 by E. W. Elst at the European Southern Observatory.

Id. E. Bowell (*MPC* 32927), A. Gnädig (*ibid.*), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.25284368	ω	244.30277	−0.19550982	−0.97897102		
<i>a</i>	2.4768591	Ω	217.12006	+0.93082206	−0.16654098		
<i>e</i>	0.0867581	<i>i</i>	5.53779	+0.30878180	−0.11781274		
<i>P</i>	3.90	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 01 30	809	0.2+	0.3−	1998 09 27	704	0.0	0.2−	2000 02 03	704	0.0	0.1+
1992 01 30	809	1.4−	0.1−	1998 09 27	704	0.2−	0.4+	2000 02 03	704	0.1+	0.4+
1992 01 30	809	1.0−	0.5+	1998 09 27	704	0.1+	1.1+	2000 02 03	704	0.5+	0.1−
1992 02 02	809	(2.8− 1.8+)		1998 09 27	704	0.0	0.3+	2000 02 06	704	0.7+	0.1+

1992 02 02	809	(2.7− 1.7+)		1998 09 27	704	0.4+	0.5+	2000 02 06	704	0.1+	0.8+
1992 02 02	809	(4.0− 0.9+)		1998 10 14	699	0.5+	0.3+	2000 02 06	704	0.2+	0.4+
1992 02 12	809	(2.6+ 0.8−)		1998 10 14	699	0.3−	0.4+	2000 02 06	704	0.5+	0.2+
1992 02 12	809	0.8+	0.0	1998 10 14	699	0.6−	0.2−	2000 02 06	704	0.7+	0.8+
1992 02 12	809	0.6+	0.3−	1999 11 17	704	0.6−	0.4−	2000 02 12	704	0.1+	1.1−
1996 01 15	691	0.1−	0.4−	1999 11 17	704	0.2−	0.3+	2000 02 12	704	0.1+	0.1−
1996 01 15	691	0.5−	0.3−	1999 11 17	704	1.1−	0.6−	2000 02 12	704	0.3−	0.7+
1996 01 15	691	0.2−	0.3−	1999 11 17	704	0.4+	0.3+	2000 02 12	704	0.5+	1.5+
1996 01 24	691	0.0	0.5−	1999 12 05	703	0.7+	0.2−	2000 02 12	704	1.4−	0.5+
1996 01 24	691	0.3−	0.5−	1999 12 05	703	0.3+	0.4−	2000 02 13	704	0.3−	1.0+
1996 01 24	691	0.2−	0.8−	1999 12 05	703	1.6+	0.6+	2000 02 13	704	0.7−	0.6−
1996 04 17	327	0.6+	0.5+	1999 12 05	703	0.0	0.2+	2000 02 13	704	1.7−	0.2−
1996 04 17	327	1.3+	0.4−	1999 12 14	704	0.4+	0.5+	2000 02 26	012	0.7−	0.0
1996 04 17	327	0.9+	0.4−	1999 12 14	704	0.8−	0.3−	2000 02 26	012	0.6−	0.9+
1998 08 27	699	0.6−	0.0	1999 12 14	704	0.0	0.1+	2000 03 06	704	0.3+	0.3+
1998 08 27	699	1.2−	0.5−	1999 12 14	704	0.2−	0.5−	2000 03 06	704	0.1−	1.0+
1998 08 27	699	0.7−	0.0	2000 01 07	699	0.2+	0.8−	2000 03 06	704	1.0−	0.1+
1998 09 16	699	0.0	0.2+	2000 01 07	699	1.2+	1.0−	2000 03 09	608	0.1+	0.1−
1998 09 16	699	0.6+	1.4+	2000 01 07	699	0.1−	0.7+	2000 03 09	608	0.3+	0.2−
1998 09 16	699	0.3−	0.9−	2000 02 02	704	0.2−	0.3+	2000 03 09	608	0.3+	0.1−
1998 09 26	704	0.4+	0.2+	2000 02 02	704	0.4+	0.4−	2000 03 13	704	0.1−	0.0
1998 09 26	704	0.6+	0.1−	2000 02 02	704	0.8+	0.1−	2000 03 13	704	0.0	0.4+
1998 09 26	704	0.2−	0.7−	2000 02 02	704	0.4+	0.6−	2000 03 13	704	0.3+	0.2+
1998 09 26	704	0.2+	0.6+	2000 02 03	704	0.2−	0.2+	2000 03 13	704	0.7−	0.7−
1998 09 26	704	0.2+	0.3−	2000 02 03	704	0.2+	0.2+	2000 03 13	704	0.4+	0.2+

(13976)* 1992 EZ₆

Discovered 1992 Mar. 1 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.24195920	ω	151.63644	+0.20487752	+0.96723386		
<i>a</i>	2.5505938	Ω	129.77547	−0.93085293	+0.23989827		
<i>e</i>	0.2331587	<i>i</i>	11.25061	−0.30255252	−0.08311129		
<i>P</i>	4.07	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 02 27	691	0.4−	1.2−	1997 09 02	566	0.0	1.0+	2000 02 29	704	0.2+	0.5+
1992 02 27	691	0.5+	0.9−	2000 02 03	704	0.2−	0.4+	2000 02 29	704	0.4−	0.2−
1992 02 27	691	0.4+	0.7−	2000 02 03	704	0.2−	0.5+	2000 02 29	704	0.3+	0.1−
1992 03 01	809	0.3−	0.4+	2000 02 03	704	0.5+	0.1−	2000 02 29	704	0.1−	0.1+
1992 03 04	809	0.6−	0.3−	2000 02 03	704	0.1+	0.3+	2000 03 05	704	0.2−	0.2−
1992 03 09	809	1.0−	0.2+	2000 02 03	704	0.6+	0.3+	2000 03 05	704	1.6+	0.1−
1992 04 04	809	0.7+	0.5+	2000 02 06	703	0.2+	1.1−	2000 03 05	704	0.8+	0.9+
1993 08 14	675	0.5+	0.4−	2000 02 06	703	(3.0− 1.9+)		2000 03 05	704	0.5−	0.8+
1993 08 14	675	0.4−	1.0+	2000 02 06	703	0.6−	1.0+	2000 03 05	704	0.1−	0.5+
1997 07 06	688	0.1−	0.0	2000 02 06	703	1.1−	1.4+	2000 03 11	699	0.4−	0.1−
1997 07 06	688	0.1−	0.4+	2000 02 11	704	0.4+	0.1−	2000 03 11	699	0.3−	0.2+
1997 07 06	688	0.5−	0.2+	2000 02 11	704	0.0	0.2−	2000 03 11	699	1.2−	0.5+
1997 07 06	688	0.1+	0.2−	2000 02 11	704	0.8+	0.6+	2000 03 11	699	1.0−	0.4−
1997 07 07	688	0.1+	0.3−	2000 02 11	704	0.6+	0.7+	2000 03 12	704	0.8+	0.3+
1997 07 07	688	0.2−	0.5+	2000 02 28	704	0.1−	0.2+	2000 03 12	704	0.2+	0.8−
1997 07 07	688	0.3−	0.6+	2000 02 28	704	0.3+	0.3+	2000 03 12	704	1.0+	1.5+
1997 07 07	688	0.0	0.5+	2000 02 28	704	0.3−	0.3−	2000 03 12	704	0.4+	0.3+
1997 09 02	566	0.1−	0.8+	2000 02 28	704	0.1−	0.2−				
1997 09 02	566	0.1−	0.9+	2000 02 29	704	0.3−	0.7+				

2000 MAR. 20

M.P.C. 39045

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	242.54404		(2000.0)	P	Q
<i>n</i>	0.25345350	ω	132.38844	+0.82850347	+0.55601718
<i>a</i>	2.4728846	Ω	194.25535	-0.55942450	+0.81650317
<i>e</i>	0.1918513	<i>i</i>	15.67611	-0.02502458	+0.15545888
<i>P</i>	3.89	<i>H</i>	12.8	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1931 10 07	690	(4.8+	5.6+)	1996 04 20	566	0.8+	1.0-	1999 01 23	704	0.8-	1.0-
1931 10 10	690	0.7-	0.3+	1996 04 20	566	0.4+	1.1-	1999 01 23	704	(1.3-	2.5-)
1931 10 11	690	(8.2+	0.2+)	1996 04 20	566	0.1+	0.8-	1999 04 07	704	0.3+	0.4+
1935 10 18	078	1.0+	2.5+	1997 09 30	566	0.1+	0.0	1999 04 07	704	0.8-	1.1+
1973 04 10	805	0.0	0.2+	1997 09 30	566	0.3-	0.1-	1999 04 07	704	(2.3-	2.4+)
1988 01 29	413	0.7-	0.9+	1997 09 30	566	0.3-	0.1+	1999 04 07	704	0.8+	1.1-
1988 01 29	413	1.0+	0.2+	1997 10 30	704	0.6+	0.1+	1999 04 07	704	(3.0-	2.0-)
1988 05 11	413	1.0+	0.9+	1997 10 30	704	0.6-	0.4-	2000 02 10	704	0.1-	1.0-
1988 05 11	413	2.2-	1.0-	1997 10 30	704	0.5+	0.2+	2000 02 10	704	0.4+	0.4-
1989 07 02	675	0.3-	0.3+	1997 10 30	704	0.2+	0.6-	2000 02 10	704	0.7+	0.4+
1989 07 02	675	0.1-	0.1+	1997 10 30	704	0.8+	0.9-	2000 03 04	703	0.3+	0.6+
1989 07 04	675	0.4-	0.3+	1997 12 27	566	0.6+	1.5-	2000 03 04	703	0.5+	0.2+
1989 07 04	675	0.8-	1.0-	1997 12 27	566	0.4+	1.4-	2000 03 04	703	0.6+	0.2+
1992 04 29	033	0.1-	0.2+	1997 12 27	566	0.5+	1.0-	2000 03 04	703	0.7+	0.0
1992 04 30	033	0.9-	0.1+	1999 01 22	704	0.5+	0.5-	2000 03 09	704	0.6+	0.0
1992 05 03	033	0.3-	0.8-	1999 01 22	704	(2.1-	4.4+)	2000 03 09	704	0.1+	0.8+
1992 05 04	033	0.6+	1.0-	1999 01 22	704	(2.8-	1.0+)	2000 03 09	704	(0.2-	4.4+)
1992 05 05	033	0.2+	0.4-	1999 01 22	704	0.0	0.6+	2000 03 14	703	0.2+	0.3+
1996 04 13	399	1.5-	0.2-	1999 01 22	704	1.4-	0.2+	2000 03 14	703	0.7+	0.4+
1996 04 13	399	(0.6-	2.5-)	1999 01 23	704	0.3+	0.3+	2000 03 14	703	0.3+	0.2+
1996 04 14	399	0.3-	0.9+	1999 01 23	704	0.7-	1.0+	2000 03 14	703	0.4+	0.3+
1996 04 14	399	1.6-	0.2-	1999 01 23	704	0.2-	0.7-				

(13978)* 1992 JQ = 1993 SY₆

Discovered 1992 May 4 by T. Seki at Geisei.

Id. G. V. Williams (*MPC* 23124)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	296.50875		(2000.0)	P	Q
<i>n</i>	0.23271633	ω	54.07310	-0.52000600	+0.85398314
<i>a</i>	2.6176896	Ω	184.69705	-0.83628175	-0.51318561
<i>e</i>	0.1831681	<i>i</i>	12.34616	-0.17385794	-0.08575158
<i>P</i>	4.24	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1992 05 04	372	0.5+	1.7+	1996 06 23	709	0.2+	0.6-	1999 12 16	704	1.3+	0.9-
1992 05 04	372	0.5-	1.7+	1996 06 23	709	0.2-	0.0	1999 12 16	704	1.3+	0.7-
1992 05 10	372	(0.3+	2.5-)	1996 06 23	709	0.0	0.4-	1999 12 16	704	0.1-	1.3-
1992 05 10	372	0.4+	0.7-	1996 06 23	709	0.2+	0.1-	1999 12 16	704	0.3-	0.6-
1992 05 22	372	0.4-	0.6-	1996 06 23	709	0.4+	0.4-	2000 02 07	703	0.0	0.1+
1992 05 24	372	0.1-	0.2+	1996 06 23	709	0.5-	0.2+	2000 02 07	703	0.2-	0.2+
1992 05 24	372	0.5-	1.8+	1996 06 23	709	1.1-	0.3+	2000 02 07	703	0.2-	0.2+
1993 09 17	809	0.2-	0.9+	1996 06 24	696	0.5+	0.1-	2000 02 07	703	0.1-	0.2+
1993 09 17	809	1.1-	0.2+	1996 06 24	696	0.3+	0.3-	2000 02 08	704	0.1-	0.8+
1993 09 17	809	1.2-	0.8-	1996 06 24	696	0.4+	0.4-	2000 02 08	704	0.2+	1.0+
1993 09 18	809	0.3+	1.4+	1998 11 13	704	0.6-	0.2-	2000 02 08	704	1.2+	0.8+
1993 09 18	809	0.0	0.7+	1998 11 13	704	1.5-	0.1+	2000 02 13	704	0.1+	0.4+
1993 09 18	809	0.2-	0.7+	1998 11 13	704	0.3+	1.3-	2000 02 13	704	0.5-	0.9-
1993 09 22	809	(0.3+	2.3-)	1998 11 16	699	0.2+	1.3+	2000 02 13	704	0.2+	0.1+
1993 09 22	809	(0.4-	3.4-)	1998 11 16	699	0.4+	0.3+	2000 02 13	704	0.1-	1.2+
1993 09 22	809	(1.4-	3.5-)	1998 11 16	699	0.8+	0.7+	2000 03 01	703	0.4-	0.7+
1993 09 22	675	0.5+	0.7-	1998 12 07	120	0.6+	0.2-	2000 03 01	703	0.4-	0.7+
1993 09 24	809	(2.2+	0.3-)	1998 12 07	120	0.5+	0.6-	2000 03 01	703	0.1-	0.1+
1993 09 24	809	1.5+	0.6-	1998 12 11	385	0.8-	0.5+	2000 03 01	703	0.1-	0.5+
1993 09 24	809	0.7+	1.0-	1998 12 11	385	0.4-	0.3-	2000 03 08	704	0.1+	0.2+
1993 10 15	010	(3.4+	2.6+)	1999 11 09	703	0.3-	1.0+	2000 03 08	704	0.1+	0.1+
1993 10 15	010	(2.5+	2.3+)	1999 11 09	703	1.6+	0.4-	2000 03 08	704	0.4+	0.2+
1993 10 15	010	(4.0+	1.0+)	1999 11 09	703	0.9+	0.6+	2000 03 08	704	0.4+	0.3-
1996 03 17	566	0.5-	0.9-	1999 11 09	703	0.5-	0.4-	2000 03 08	704	0.3+	0.6+

1996 03 17	566	0.8-	0.9-	1999 12 14	704	0.3-	0.1-	2000 03 13	704	0.7-	0.2+
1996 03 17	566	0.6-	1.0-	1999 12 14	704	0.0	0.1-	2000 03 13	704	0.5-	0.4+
1996 05 15	695	1.1+	0.9-	1999 12 14	704	0.8-	0.9-	2000 03 13	704	0.2-	0.4+
1996 05 15	695	1.0+	1.2-	1999 12 14	704	0.5-	0.5-	2000 03 13	704	0.0	0.0
1996 05 15	695	1.0+	1.2-	1999 12 14	704	0.7-	0.5-	2000 03 13	704	0.2-	0.5+

(13979)* 1992 JH₃ = 1998 YY₂₈

Discovered 1992 May 8 by H. Debehogne at the European Southern

Observatory.

Id. G. V. Williams (*MPC* 33682)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	278.67643		(2000.0)	P	Q
<i>n</i>	0.23347520	ω	60.69081	-0.00638783	+0.99953870
<i>a</i>	2.6120143	Ω	208.98867	-0.93740356	-0.01632406
<i>e</i>	0.2224460	<i>i</i>	3.51245	-0.34818640	+0.02561084
<i>P</i>	4.22	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1992 04 08	675	0.1+	1.1+	1997 10 02	098	(2.4+	0.2+)	2000 02 06	704	0.2-	0.4-
1992 04 08	675	0.9+	1.3+	1997 10 30	704	0.7+	0.4+	2000 02 06	704	0.9-	0.6-
1992 05 08	809	1.3-	0.5-	1997 10 30	704	1.1-	0.7+	2000 02 07	704	0.0	0.1-
1992 05 08	809	0.9-	0.5-	1997 10 30	704	1.6-	0.7+	2000 02 07	704	0.6-	0.2-
1992 05 08	809	0.7-	0.7-	1997 10 30	704	1.0-	0.9+	2000 02 07	704	0.9-	0.6-
1992 05 10	809	1.3-	0.7+	1997 10 30	704	(2.5-	0.9+)	2000 02 07	704	0.9-	0.0
1992 05 10	809	1.2-	0.7+	1998 12 16	704	0.1+	1.2-	2000 02 07	704	1.8-	0.9-
1992 05 11	809	1.0-	1.5-	1998 12 16	704	1.5-	1.4-	2000 03 08	704	0.8+	0.9+
1992 05 11	809	0.6-	1.4-	1998 12 16	704	0.3+	1.2-	2000 03 08	704	0.4+	1.0+
1992 05 11	809	0.2-	1.5-	1998 12 22	704	0.6+	1.0-	2000 03 08	704	0.6+	1.3+
1992 05 12	809	0.5+	0.4+	1998 12 22	704	0.0	1.0-	2000 03 08	704	0.8+	1.2+
1992 05 12	809	0.9+	0.8+	1998 12 22	704	0.7-	0.1+	2000 03 08	704	(0.6+	2.1+)
1992 05 12	809	0.2-	0.6-	1998 12 22	704	0.9+	1.8-	2000 03 11	704	0.2+	0.2+
1992 05 12	809	0.3+	0.7-	2000 02 02	704	0.0	1.2+	2000 03 11	704	0.4+	0.4+
1992 05 12	809	0.5+	0.4-	2000 02 02	704	0.6+	0.0	2000 03 11	704	0.3+	0.1+
1992 05 13	809	1.1+	0.1+	2000 02 02	704	1.8+	1.0+	2000 03 11	704	0.1+	0.7+
1992 05 13	809	1.1+	0.1+	2000 02 02	704	0.1+	0.5-	2000 03 11	704	0.1+	0.7+
1992 05 13	809	1.2+	0.1+	2000 02 05	704	0.8-	0.7-	2000 03 15	704	0.1+	0.1-
1996 04 20	566	0.3-	0.7-	2000 02 05	704	0.6+	0.1+	2000 03 15	704	0.7+	0.4+
1996 04 20	566	0.0	0.9-	2000 02 05	704	0.3+	0.4+	2000 03 15	704	1.0+	1.2+
1996 04 20	566	0.1-	0.9-	2000 02 06	704	0.2+	0.1+	2000 03 15	704	0.3+	0.5+
1997 10 02	098	1.3+	1.9+	2000 02 06	704	0.1-	0.0	2000 03 15	704	0.5-	1.2+

(13980)* 1992 NS = 1996 KO₆

Discovered 1992 July 2 by E. F. Helin at Palomar.

Id. T. B. Spahr (*MPC* 27556)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	272.09276		(2000.0)	P	Q
<i>n</i>	0.22666366	ω	64.09811	+0.20555787	+0.97159240
<i>a</i>	2.6640852	Ω	218.35368	-0.95186421	+0.17064907
<i>e</i>	0.1799509	<i>i</i>	10.89453	-0.22737740	+0.16397286
<i>P</i>	4.35	<i>H</i>	13.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1992 07 02	675	0.4+	0.9-	1997 09 04	608	0.8-	1.4+	1998 12 22	704	0.5+	0.7-
1992 07 02	675	0.8+	0.8-	1997 09 04	608	0.2-	1.2+	1998 12 22	704	0.2+	1.0+
1992 07 05	675	1.3-	0.5-	1997 09 11	608	0.0	1.5+	2000 01 10	704	0.3-	1.1+
1992 07 05	675	1.2-	0.1+	1997 09 11	608	0.3-	0.9+	2000 01 10	704	0.3+	0.1+
1992 07 26	675	0.6+	0.3-	1997 09 12	608	0.1+	1.1+	2000 01 10	704	0.4+	0.6-
1992 07 26	675	0.1+	0.3-	1997 09 12	608	0.1+	1.0+	2000 01 10	704	0.3-	0.1+
1992 07 28	675	(2.8+	1.0-)	1997 09 28	691	0.8+	0.3+	2000 03 09	704	0.4-	0.3+
1996 04 17	809	1.0+	0.8-	1997 09 28	691	0.1+	0.1+	2000 03 09	704	0.2+	0.1+
1996 04 17	809	0.8+	0.5-	1997 09 28	691	0.2+	0.0	2000 03 09	704	0.4-	0.0
1996 04 17	809	0.8+	1.2-	1997 10 30	704	0.6-	0.0	2000 03 09	704	0.1-	0.0
1996 05 19	809	1.9+	1.7+	1997 10 30	704	0.1-	0.1+	2000 03 09	704	0.2-	0.5+
1996 05 19	809	1.6+	1.8+	1997 10 30	704	0.4+	0.2+	2000 03 13	704	0.2+	0.5-
1996 05 19	809	1.7+	1.6+	1997 10 30	704	0.2+	1.0-	2000 03 13	704	0.6-	0.3+

1996 05 22	809	1.6−	1.1+	1997 10 30	704	0.8−	0.4+	2000 03 13	704	0.3+	0.7+
1996 05 22	809	1.4−	0.6+	1998 12 22	704	0.1−	0.3−	2000 03 13	704	0.1−	1.1+
1996 05 22	809	1.5−	0.8+	1998 12 22	704	0.4−	0.0	2000 03 13	704	0.4−	0.1+

(13981)* 1992 OT₉ = 1989 YO₆ = 1998 XS₈₇

Discovered 1992 July 28 by H. Debehogne and À. López G. at the European Southern Observatory.

Id. A. Doppler (*MPC* 33934)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	183.83404		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.21095425	<i>ω</i>	248.55977		+0.98169808		+0.13889644
<i>a</i>	2.7947558	<i>Ω</i>	103.27092		−0.08257233		+0.92694353
<i>e</i>	0.0521807	<i>i</i>	7.69325		−0.17161205		+0.34854479
<i>P</i>	4.67	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1989 12 29	372	0.4+	2.3−	1992 08 04	809	0.0	1.4−	2000 01 08	704	0.6+	0.6−
1989 12 29	372	(0.3+	3.1−)	1998 11 23	704	0.2−	1.5+	2000 01 08	704	0.7−	0.4−
1990 01 03	372	0.5−	1.6+	1998 11 23	704	0.2+	0.4+	2000 01 08	704	0.3+	0.6+
1990 01 03	372	(3.0+	0.3−)	1998 11 23	704	0.4−	1.4−	2000 01 08	704	0.0	0.1+
1992 07 28	809	0.7+	1.6+	1998 12 15	704	0.4+	0.5+	2000 01 08	704	0.2+	0.6+
1992 07 28	809	0.7+	1.2+	1998 12 15	704	0.3+	0.1+	2000 02 06	704	0.6+	0.1−
1992 07 28	809	0.8+	1.1+	1998 12 15	704	0.1−	0.3−	2000 02 06	704	1.0+	1.6+
1992 07 30	809	0.1−	0.9+	1998 12 15	704	0.4+	0.0	2000 02 06	704	0.1+	0.3+
1992 07 30	809	0.3+	0.7+	1998 12 15	704	0.6+	0.0	2000 02 06	704	0.2+	0.8+
1992 07 30	809	0.5+	0.6+	1998 12 22	704	0.1+	1.2+	2000 03 12	703	0.2+	0.4+
1992 08 01	809	1.6−	0.7+	1998 12 22	704	0.6−	0.6+	2000 03 12	703	0.1−	0.4+
1992 08 01	809	1.4−	1.2+	1998 12 22	704	1.4−	1.8+	2000 03 12	703	0.6−	0.2+
1992 08 01	809	1.0−	1.3+	1998 12 22	704	1.0−	0.5+	2000 03 12	703	0.1−	0.0
1992 08 03	809	0.0	0.9+	1999 01 22	704	0.2+	0.6+	2000 03 12	704	0.3+	0.2+
1992 08 03	809	0.1+	0.8+	1999 01 22	704	0.8+	0.0	2000 03 12	704	0.1−	0.4+
1992 08 03	809	0.4+	0.6+	1999 01 22	704	0.4−	1.4+	2000 03 12	704	0.3+	0.1+
1992 08 04	809	0.2−	1.4−	1999 01 22	704	0.1+	0.5−	2000 03 12	704	0.3−	0.3+
1992 08 04	809	0.3−	1.2−	1999 01 22	704	0.4+	0.1+				

(13982)* 1992 RB₃ = 1987 SX₁₈ = 1997 QS₁

Discovered 1992 Sept. 2 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 30657)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	155.93919		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.19258414	<i>ω</i>	109.49970		+0.99748801		+0.07030185
<i>a</i>	2.9697669	<i>Ω</i>	246.46976		−0.06802218		+0.91646434
<i>e</i>	0.1091475	<i>i</i>	0.54239		−0.01976520		+0.39389181
<i>P</i>	5.12	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 09 16	095	1.2+	1.7−	1998 11 19	704	0.6−	0.7−	2000 02 02	704	0.8+	0.6+
1992 09 02	809	0.0	1.8−	1998 11 19	704	(2.2−	0.9+)	2000 02 02	704	1.2+	0.6+
1992 09 02	809	0.8−	1.5−	1998 12 11	369	0.2−	0.1+	2000 02 02	704	1.1+	1.3+
1992 09 02	809	(1.4−	2.1−)	1998 12 11	369	0.9+	0.3−	2000 02 06	704	0.8+	0.5+
1992 09 03	809	(2.2−	2.4−)	1998 12 11	369	0.0	0.1+	2000 02 06	704	0.8+	0.5−
1992 09 22	809	1.2+	0.8−	1998 12 12	369	0.1−	0.4+	2000 02 06	704	0.5+	1.2+
1992 09 22	809	0.4+	0.6−	1998 12 12	369	0.1−	1.0+	2000 02 06	704	0.9+	0.5+
1992 09 22	809	0.3−	1.0−	1998 12 15	704	0.2+	0.8+	2000 02 07	691	0.3−	0.6−
1992 09 23	809	1.1+	0.8−	1998 12 15	704	0.8−	0.7+	2000 02 07	691	0.2−	0.6−
1992 09 23	809	0.8+	0.5−	1998 12 15	704	0.2+	0.1+	2000 02 07	691	0.3−	0.7−
1992 09 23	809	0.3+	1.6−	1998 12 15	704	0.6−	0.6+	2000 02 08	704	0.6+	0.5+
1997 08 29	552	0.2−	0.7+	1998 12 16	704	0.2−	0.2+	2000 02 08	704	0.0	0.0
1997 08 29	552	0.7−	0.8+	1998 12 16	704	0.5+	1.0−	2000 02 08	704	0.3+	0.4+
1997 08 29	552	0.8−	0.6+	1998 12 16	704	0.7+	0.6−	2000 02 08	704	0.1+	0.1+
1997 08 30	566	0.8−	1.1+	1998 12 16	704	0.4+	0.3−	2000 02 08	704	0.4+	0.1+
1997 08 30	566	0.3−	1.4+	1998 12 16	704	1.3+	0.7−	2000 02 10	732	0.8−	0.3−
1997 08 30	566	0.3−	1.7+	1998 12 17	704	1.1−	1.0+	2000 02 10	732	0.3−	0.3−
1997 08 30	566	0.5−	0.9+	1998 12 17	704	0.3−	0.3−	2000 02 10	732	0.8−	0.6−

1997 08 30	566	0.4−	1.1+	1998 12 17	704	0.3−	1.1−	2000 02 11	704	0.5+	0.7−
1997 08 30	566	0.6−	1.1+	1998 12 17	704	0.1+	0.1+	2000 02 11	704	0.2−	0.0
1997 08 30	552	0.1+	0.8+	1998 12 17	704	0.3+	0.1−	2000 02 11	704	0.6+	0.0
1997 08 30	552	0.2+	0.6+	1998 12 17	704	0.2+	0.7+	2000 02 29	704	0.3−	0.2−
1997 08 31	552	0.2−	0.8+	1998 12 17	704	0.3−	0.2−	2000 02 29	704	0.3−	0.1−
1997 08 31	552	0.1−	1.3+	1998 12 17	704	0.5−	0.2−	2000 02 29	704	0.4−	0.2+
1997 08 31	552	0.1−	0.8+	1998 12 17	704	0.4−	0.3−	2000 02 29	704	0.6−	0.4+
1997 08 31	552	0.1−	1.1+	1998 12 17	704	0.4−	0.4+	2000 02 29	704	0.5−	0.1+
1997 09 04	552	0.5−	0.3−	1998 12 22	704	0.2−	0.1+	2000 03 03	704	0.4+	0.4+
1997 09 04	552	0.0	0.5+	1998 12 22	704	1.4+	0.9+	2000 03 03	704	0.1−	0.1+
1997 09 04	552	0.2−	0.8+	1998 12 22	704	0.4−	0.2−	2000 03 03	704	0.0	0.4+
1997 09 04	552	0.1−	0.8+	1998 12 22	704	0.1+	0.3+	2000 03 03	704	0.1−	0.4+
1997 09 05	552	0.5−	0.9+	1998 12 22	704	0.1−	0.9−	2000 03 03	704	0.3−	1.1+
1997 09 05	552	0.2−	0.6+	1999 01 11	704	0.7−	0.9+	2000 03 11	704	0.1−	0.1+
1997 09 08	552	0.3−	0.0	1999 01 11	704	1.3+	1.6+	2000 03 11	704	0.1−	0.2−
1997 09 08	552	0.1−	0.7+	1999 01 11	704	(1.0−	2.2+)	2000 03 11	704	0.0	0.1+
1998 11 19	704	0.2+	0.4−	1999 01 11	704	(1.2−	2.8+)	2000 03 11	699	0.9−	0.4+
1998 11 19	704	0.2+	0.5+	1999 01 11	704	1.8−	0.9−	2000 03 11	704	0.2−	0.2+
1998 11 19	704	0.5−	1.0+	2000 02 01	703	0.1+	0.0	2000 03 11	704	0.2+	0.4+
1998 11 19	704	0.3+	0.9+	2000 02 01	703	0.9−	1.0+	2000 03 11	699	0.2−	0.2+
1998 11 19	704	1.0+	0.2+	2000 02 01	703	1.0+	0.0	2000 03 11	699	0.0	0.3+
1998 11 19	704	0.3−	0.8−	2000 02 01	703	0.7+	0.8+	2000 03 11	699	0.6−	0.6+
1998 11 19	704	(3.0−	1.6−)	2000 02 02	704	0.6+	0.0				
1998 11 19	704	(2.2−	0.3−)	2000 02 02	704	0.4+	0.2+				

(13983)* 1992 RJ₅ = 1996 HA₁₈

Discovered 1992 Sept. 2 by E. W. Elst at the European Southern Observatory.

Id. B. G. Marsden (*MPC* 27310)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Marsden			
<i>M</i>	136.31622		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.18329171	<i>ω</i>	276.70461		+0.99773717		+0.03345184
<i>a</i>	3.0693105	<i>Ω</i>	81.38990		−0.00696620		+0.91420739
<i>e</i>	0.1738138	<i>i</i>	3.38168		−0.06687305		+0.40386361
<i>P</i>	5.38	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 09 02	809	0.9−	1.3−	1996 04 20	809	0.4+	1.0−	2000 01 30	703	0.1+	1.6−
1992 09 02	809	1.0−	0.8−	1996 05 22	809	0.5+	1.2+	2000 01 30	703	1.1−	0.3−
1992 09 02	809	1.3−	1.0−	1996 05 22	809	0.4−	1.7+	2000 02 03	704	0.4+	0.2−
1992 09 03	809	1.6−	0.4−	1996 05 22	809	0.5−	1.7+	2000 02 03	704	0.2−	0.4−
1992 09 22	809	1.1+	1.1+	1996 05 23	809	0.1−	0.4+	2000 02 03	704	0.0	0.3+
1992 09 22	809	1.2+	0.7+	1996 05 23	809	0.1+	1.7+	2000 02 03	704	0.8−	0.6−
1992 09 22	809	0.2+	0.0	1996 05 23	809	1.1−	1.4+	2000 02 03	704	0.3+	0.1−
1992 09 23	809	0.6+	0.4+	1998 11 19	426	0.7−	1.8+	2000 02 25	703	1.0+	1.1+
1992 09 23	809	0.8+	1.4+	1998 11 19	426	(1.3−	2.3+)	2000 02 25	703	0.2−	1.6+
1992 09 23	809	0.7+	0.2+	1998 11 19	426	0.3−	1.5+	2000 02 25	703	(0.7−	2.1+)
1996 04 18	809	1.7+	1.7+	1998 11 20	426	0.1−	1.6+	2000 02 25	703	1.5−	0.0
1996 04 18	809	(0.6+	2.2+)	1998 11 20	426	0.0	1.8+	2000 02 28	704	0.0	0.6−
1996 04 18	809	0.2+	1.0+	1998 11 20	426	0.7−	1.9+	2000 02 28	704	0.6+	0.5−
1996 04 20	809	1.5+	0.2−	2000 01 30	703	0.7+	1.2−	2000 02 28	704	0.5+	0.8−

Residuals in seconds of arc

1992 09 02	809	(3.0– 0.3–)	1994 01 29	589	0.3– 0.4+	1998 12 19	691	0.6– 0.1–
1992 09 02	809	(2.9– 0.8–)	1994 01 29	589	0.4+ 0.0	1998 12 19	691	0.5– 0.1+
1992 09 02	809	(4.5– 1.2–)	1994 01 29	589	0.3– 0.5–	1998 12 19	691	0.5– 0.2–
1992 09 03	809	(3.1– 0.5+)	1994 01 30	589	0.2+ 0.2+	1998 12 25	327	0.1– 0.0
1992 09 22	809	(0.5+ 2.8+)	1994 01 30	589	0.0 0.8+	1998 12 25	327	0.1– 0.4–
1992 09 22	809	(0.3– 2.8+)	1994 01 30	589	0.2– 1.3+	1998 12 25	327	(1.1– 2.2–)
1992 09 22	809	(1.1– 2.1+)	1997 08 01	688	0.3– 0.1–	1999 01 04	327	0.2+ 0.1+
1992 09 23	809	0.1+ 1.7+	1997 08 01	688	0.4– 0.1–	1999 01 04	327	0.4– 0.2–
1992 09 23	809	0.3– 1.0+	1998 11 20	699	0.2+ 1.5+	1999 01 04	327	1.7– 1.3–
1992 09 23	809	0.4– 0.6+	1998 11 20	699	0.1+ 0.6+	2000 02 10	120	0.8+ 0.5–
1993 12 18	589	0.8– 0.7+	1998 11 20	699	0.5+ 1.2+	2000 02 10	120	0.0 0.2–
1993 12 18	589	0.1– 0.9+	1998 11 21	704	0.4+ 0.3–	2000 02 10	120	0.0 1.1–
1993 12 18	589	0.8– 0.9–	1998 11 21	704	0.8+ 0.8–	2000 02 10	120	0.5+ 1.4+
1993 12 19	589	0.2+ 0.2+	1998 11 21	704	1.6+ 1.1–	2000 02 10	120	1.7– 0.0
1993 12 19	589	0.2– 0.6+	1998 11 21	704	(2.3+ 1.3–)	2000 02 11	704	0.3– 0.2–
1993 12 19	589	0.3+ 0.7–	1998 11 21	704	(3.0+ 1.6–)	2000 02 11	704	0.3– 0.5–
1993 12 22	589	0.2– 0.6–	1998 11 24	704	0.2+ 0.2–	2000 02 11	704	1.3+ 1.1–
1993 12 22	589	0.0 0.3+	1998 11 24	704	0.6+ 1.1–	2000 03 02	012	0.3+ 0.1+
1993 12 22	589	0.4+ 0.0	1998 11 24	704	0.2– 0.2–	2000 03 02	012	0.2– 0.4–
1993 12 27	589	0.3– 0.3–	1998 11 24	704	0.3+ 0.6+	2000 03 02	012	0.7– 0.2+
1993 12 27	589	0.6+ 0.8–	1998 11 24	704	0.7+ 0.3–	2000 03 05	704	0.3– 0.1+
1993 12 27	589	0.4– 0.0	1998 11 25	699	0.4+ 0.2+	2000 03 05	704	0.5– 0.3–
1994 01 08	589	0.0 0.3+	1998 11 25	699	0.5+ 0.6–	2000 03 05	704	0.1– 1.4–
1994 01 08	589	1.2+ 0.6+	1998 11 25	699	1.3+ 0.3–	2000 03 05	704	0.7– 0.2–
1994 01 08	589	1.4+ 0.8+	1998 12 04	327	1.6– 0.1–	2000 03 07	049	0.5+ 0.5–
1994 01 11	589	0.0 0.1+	1998 12 04	327	0.7– 0.7–	2000 03 07	049	0.1+ 0.2+
1994 01 12	589	0.0 0.2+	1998 12 04	327	0.9– 0.8–	2000 03 07	049	0.2– 0.1–
1994 01 12	589	0.2– 0.2+	1998 12 08	699	0.4– 0.2+	2000 03 12	704	0.5+ 0.2+
1994 01 12	589	0.0 0.5+	1998 12 08	699	0.1+ 0.1+	2000 03 12	704	0.7+ 1.2+
1994 01 12	589	0.4– 0.1+	1998 12 08	699	0.0 0.2–	2000 03 12	704	0.5– 0.1+
1994 01 12	589	0.0 0.2+	1998 12 17	704	1.6+ 0.3+	2000 03 12	704	0.2+ 0.1+
1994 01 15	589	0.4– 0.3+	1998 12 17	704	0.6+ 0.6+	2000 03 12	704	0.7+ 1.7+
1994 01 15	589	0.0 0.1+	1998 12 17	704	1.2– 0.0			
1994 01 15	589	0.4– 0.7+	1998 12 17	704	0.3– 1.2–			

(13985)* 1992 UH₃ = 1979 TE₁ = 1979 XZ₁

Discovered 1992 Oct. 22 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 21274), B. G. Marsden (d, *ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	77.20369		<i>P</i>	(2000.0)		<i>Q</i>	
<i>n</i>	0.30481435	ω	41.30203	+0.58422331	–0.81125338		
<i>a</i>	2.1866492	Ω	13.00701	+0.71455461	+0.50044006		
<i>e</i>	0.1105963	<i>i</i>	5.98693	+0.38483091	+0.30237014		
<i>P</i>	3.23	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 10 14	095	0.0 1.6+	1995 09 29	801	0.5+ 0.5+	1999 12 08	704	0.2– 0.4–
1979 12 13	809	0.4– 0.2+	1996 01 22	704	0.5– 1.1+	1999 12 09	703	0.8+ 0.1+
1979 12 15	809	0.3+ 0.7–	1996 01 22	704	(0.2– 2.5+)	1999 12 09	703	0.7+ 0.3+
1992 10 22	399	(2.9– 1.9–)	1996 01 23	704	0.2+ 0.4+	1999 12 09	703	0.0 0.2+
1992 10 22	399	(0.9– 2.8+)	1996 01 23	704	1.8+ 0.8+	1999 12 09	703	0.6+ 0.1+
1992 10 28	399	1.6– 0.5–	1996 01 24	704	0.4– 1.1–	1999 12 15	704	0.4– 0.6+
1992 10 28	399	1.0– 0.4+	1996 01 24	704	0.6+ 1.8–	1999 12 15	704	1.1– 0.5–
1992 11 16	399	1.7– 0.1–	1997 04 06	566	0.5+ 1.4+	1999 12 15	704	0.1– 0.7–
1992 11 16	399	0.6– 0.0	1997 04 06	566	0.6+ 1.6+	2000 02 28	704	1.3+ 0.6+
1992 11 18	399	0.2+ 0.3+	1997 04 06	566	0.4+ 1.7+	2000 02 28	704	0.1+ 0.1+
1992 11 18	399	1.1+ 0.4+	1998 07 27	689	0.8– 0.5–	2000 02 28	704	0.4+ 0.4+
1995 08 26	801	0.8– 0.0	1998 08 19	566	0.8– 0.9+	2000 02 28	704	0.8+ 0.0
1995 08 26	801	0.4– 0.6+	1998 08 19	566	0.9– 0.8+	2000 03 04	704	0.0 0.3+
1995 08 28	801	0.8+ 1.5+	1998 08 19	566	0.1– 0.6+	2000 03 04	704	0.1+ 0.5+
1995 08 28	801	0.0 0.4+	1999 12 08	704	0.3– 0.3+	2000 03 04	704	0.2– 0.6+
1995 09 21	399	0.6+ 0.6+	1999 12 08	704	0.2– 0.3–	2000 03 04	704	0.1+ 0.7+
1995 09 21	399	1.1+ 1.3+	1999 12 08	704	0.2– 0.1–	2000 03 04	704	0.5+ 0.5+
1995 09 29	801	0.5– 0.0	1999 12 08	704	0.1+ 0.3–			

(13986)* 1992 WA₄ = 1986 TO₆ = 1986 VC₉

Discovered 1992 Nov. 21 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 21596)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	125.56964		<i>P</i>	(2000.0)		<i>Q</i>	
<i>n</i>	0.17227173	ω	307.75260	+0.92975500	–0.35242148		
<i>a</i>	3.1988463	Ω	73.10617	+0.36302002	+0.82921402		
<i>e</i>	0.1584153	<i>i</i>	6.39398	+0.06141741	+0.43382394		
<i>P</i>	5.72	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1986 10 07	688	0.1+ 0.2–	1998 12 14	704	0.8– 1.6–	2000 02 04	704	0.7+ 0.3+
1986 10 07	688	1.4+ 0.4+	1998 12 16	704	1.4+ 0.7–	2000 02 04	704	0.8+ 0.1+
1986 11 04	095	1.4+ 1.2+	1998 12 16	704	0.7+ 1.5–	2000 02 04	704	0.1+ 0.7+
1986 11 05	688	(0.3+ 2.5+)	1998 12 16	704	(2.6+ 1.7–)	2000 02 04	704	0.1– 0.9+
1986 11 05	688	0.1– 1.6+	1998 12 16	704	(1.5– 3.0–)	2000 02 11	704	0.4+ 0.7+
1990 05 26	675	0.2+ 0.8+	1998 12 17	704	0.9+ 0.4+	2000 02 11	704	0.5+ 0.7+
1990 05 26	675	0.4– 0.3+	1998 12 17	704	0.1+ 0.7–	2000 02 11	704	0.5+ 1.1+
1992 11 21	399	(0.2– 2.3+)	1998 12 17	704	0.1+ 0.1+	2000 02 11	704	0.7+ 0.7+
1992 11 21	399	0.9– 1.7+	1998 12 17	704	1.0+ 0.3–	2000 02 11	704	0.7+ 0.3+
1992 11 25	675	1.3– 0.6–	1998 12 17	704	0.3– 1.3–	2000 02 29	704	0.0 0.2+
1992 11 25	675	0.7– 0.6–	1999 01 14	663	1.0– 0.2–	2000 02 29	704	0.1– 0.2+
1992 11 26	691	0.7– 0.3+	1999 01 15	663	0.0 1.0+	2000 02 29	704	0.5– 0.5+
1992 11 26	691	0.8– 0.4+	1999 01 15	663	0.3+ 0.4+	2000 02 29	704	0.3+ 0.5+
1992 11 27	399	(3.1– 1.9+)	1999 01 16	704	0.7+ 0.5–	2000 02 29	704	0.2+ 0.6+
1992 11 27	399	(4.2– 1.4+)	1999 01 16	704	1.1– 0.9–	2000 03 02	703	0.5– 0.1+
1992 11 28	675	1.5– 0.7–	1999 01 16	704	0.8+ 0.1+	2000 03 02	703	1.5+ 0.1+
1992 11 28	675	0.6– 0.8–	1999 01 19	704	0.1– 0.5+	2000 03 02	703	1.3– 0.7+
1992 12 15	399	(3.9– 0.7+)	1999 01 19	704	1.9+ 0.4+	2000 03 02	703	0.2– 0.8–
1992 12 15	399	(2.5– 0.6+)	1999 01 19	704	0.0 0.5+	2000 03 05	704	0.2– 0.6–
1992 12 17	399	1.7– 2.0+	1999 01 19	704	0.5– 0.8–	2000 03 05	704	0.4+ 0.1+
1992 12 17	399	(0.1+ 2.7+)	1999 01 19	104	0.5– 0.1+	2000 03 05	704	0.4– 0.1–
1995 04 27	691	0.8– 1.1–	1999 01 19	104	0.2– 0.2+	2000 03 05	704	0.2– 0.4+
1995 04 27	691	1.0– 1.0–	1999 01 19	104	0.5– 0.5+	2000 03 05	704	0.1+ 0.6+
1995 04 27	691	0.8– 1.2–	1999 01 19	104	0.7– 0.8+	2000 03 12	704	0.1– 0.1–
1998 12 14	704	1.8+ 0.5–	1999 01 20	104	0.6+ 0.1–	2000 03 12	704	0.3+ 0.5–
1998 12 14	704	0.2– 2.0–	1999 01 20	104	0.3+ 0.2+	2000 03 12	704	0.1+ 0.9–
1998 12 14	704	0.4– 0.9–	1999 01 20	104	0.4+ 0.4+	2000 03 12	704	0.3+ 1.0–
1998 12 14	704	0.2+ 1.0–	2000 02 04	704	0.0 1.2+	2000 03 12	704	0.2– 0.9–

(13987)* 1992 WK₉ = 1986 PS

Discovered 1992 Nov. 16 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 33483)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	121.74598		<i>P</i>	(2000.0)		<i>Q</i>	
<i>n</i>	0.17665239	ω	322.97663	+0.95665217	–0.29097772		
<i>a</i>	3.1457416	Ω	53.94426	+0.27068253	+0.87292453		
<i>e</i>	0.2248227	<i>i</i>	0.86393	+0.10745970	+0.39157979		
<i>P</i>	5.58	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1986 08 01	675(49.9+ 3.0+)	1998 12 14	704	0.5– 0.1+	2000 02 29	704	0.5– 0.1+
1986 08 01	675(46.4+ 3.2+)	1998 12 14	704	0.2– 0.2–	2000 02 29	704	0.9+ 0.4–
1986 08 02	675(30.5+ 2.8+)	1998 12 14	704	1.1+ 0.2–	2000 02 29	704	0.6+ 0.2+
1986 08 02	675(31.4+ 3.8+)	1998 12 14	704	0.5– 0.2+	2000 02 29	704	0.8– 0.4–
1986 08 04	675(19.0+ 5.5+)	1998 12 14	704	0.3– 0.3–	2000 03 03	704	0.3– 1.0+
1986 08 04	675(19.5+ 4.3+)	1998 12 16	704	0.8– 0.7–	2000 03 03	704	0.2+ 0.3+
1992 10 19	399 (2.0+ 2.6+)	1998 12 16	704	0.8+ 0.0	2000 03 03	704	0.9+ 0.5–
1992 10 19	399 1.0+ 1.8+	1998 12 16	704	(1.2+ 2.7+)	2000 03 03	704	0.5+ 0.1+
1992 10 22	399 0.8+ 0.9+	1998 12 16	704	0.3+ 0.5+	2000 03 03	704	0.6+ 0.3+
1992 10 22	399 (0.1+ 3.3+)	1998 12 17	704	0.4– 0.4–	2000 03 09	704	0.2+ 0.1+
1992 11 16	399 1.0– 0.8–	1998 12 17	704	1.4+ 1.3+	2000 03 09	704	0.2– 0.5–
1992 11 16	399 1.3– 1.3–	1998 12 17	704	0.2+ 0.3–	2000 03 09	704	0.5+ 0.8–
1992 11 18	399 0.6– 0.5–	1998 12 17	704	0.2+ 0.2–	2000 03 09	704	0.0 0.0
1992 11 18	399 (5.1– 1.2+)	1998 12 17	704	0.1+ 0.7+	2000 03 09	704	0.2– 0.5–

1993 12 17	691	0.4+	0.6−	2000 02 10	120	0.9+	1.4−	2000 03 11	704	0.3−	0.1−
1993 12 17	691	0.7+	0.2−	2000 02 10	120	1.2+	1.2−	2000 03 11	704	0.3−	0.0
1994 01 10	691	(2.6+	3.5−)	2000 02 11	704	0.0	0.5−	2000 03 11	704	0.4+	0.3+
1994 01 10	691	(6.6+	6.4−)	2000 02 11	704	0.3+	0.8+	2000 03 11	699	0.6−	0.6+
1997 08 07	691	0.4−	1.9+	2000 02 11	704	0.3+	0.6+	2000 03 11	704	0.6+	0.9+
1997 08 07	691	(1.1−	2.2+)	2000 02 11	704	0.2+	0.4+	2000 03 11	704	0.3+	0.7+
1997 08 07	691	0.0	1.0+	2000 02 25	703	0.8−	1.1+	2000 03 11	699	0.6−	0.1+
1998 12 09	411	0.8−	0.1+	2000 02 25	703	0.2−	1.4+	2000 03 11	699	0.6−	1.0+
1998 12 09	411	0.2−	0.3+	2000 02 25	703	0.8−	0.1+	2000 03 11	699	0.3−	0.1+
1998 12 11	411	0.7+	0.7−	2000 02 25	703	1.5−	0.5+				
1998 12 11	411	0.6−	0.9+	2000 02 29	704	0.4−	0.3−				

(13988)* 1992 YG₂ = 1995 UN₄₄

Discovered 1992 Dec. 18 by E. W. Elst at Caussols.

Id. S. Nakano (*MPC* 26172)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>	119.06288	(2000.0)		P	Q		
<i>n</i>	0.30028230	<i>ω</i>	83.69277	+0.89229765	−0.44867224		
<i>a</i>	2.2085957	<i>Ω</i>	302.95526	+0.38706733	+0.81732542		
<i>e</i>	0.1527923	<i>i</i>	3.41488	+0.23234411	+0.36148634		
<i>P</i>	3.28	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 12 18	010	(2.9+	1.0+)	1998 08 10	046	0.8−	1.1+	2000 02 06	704	0.5+	0.3+
1992 12 19	010	(3.4+	0.8+)	1998 08 10	046	0.8−	0.3−	2000 02 06	704	1.7−	1.5+
1992 12 19	010	(3.7+	0.6−)	1998 08 10	046	0.8−	0.4−	2000 02 29	704	0.1+	0.6−
1992 12 19	010	1.6+	1.2+	1998 08 10	046	0.5−	0.2+	2000 02 29	704	0.3−	0.3−
1992 12 19	010	1.7+	1.4+	1998 08 17	704	0.2+	0.7−	2000 02 29	704	0.5+	0.2−
1992 12 20	010	0.6+	1.5+	1998 08 17	704	0.1+	0.2+	2000 02 29	704	0.2−	0.4−
1993 01 16	010	0.6−	1.5−	1998 08 17	704	0.1+	0.3+	2000 02 29	704	0.5−	0.4+
1993 01 16	010	1.1−	1.4−	1998 08 17	704	0.3+	0.6+	2000 03 03	704	0.5+	0.0
1993 01 16	010	1.2−	1.1−	1998 08 17	704	0.7+	0.6+	2000 03 03	704	0.2−	0.6+
1993 01 17	010	1.2−	0.7−	1998 08 23	704	0.7−	1.1−	2000 03 03	704	0.6+	0.2+
1993 01 17	010	1.0−	0.4−	1998 08 23	704	0.3+	0.2−	2000 03 03	704	0.4+	0.6+
1993 01 17	010	1.1+	0.2−	1998 08 23	704	(0.5+	2.7−)	2000 03 03	704	0.2+	0.3+
1995 10 26	408	0.0	1.0+	1998 08 23	704	0.3+	1.7−	2000 03 11	704	0.0	0.2−
1995 10 26	408	1.4+	0.4+	1998 08 28	699	0.4−	0.9+	2000 03 11	704	0.2+	0.1−
1995 10 27	408	1.2−	0.9−	1998 08 28	699	1.1−	0.1−	2000 03 11	704	0.5+	0.4−
1995 10 27	408	0.4−	0.0	1998 08 28	699	0.2+	0.1−	2000 03 11	699	0.3+	0.1+
1998 07 26	809	(0.7−	2.6−)	2000 02 02	704	0.2−	0.3+	2000 03 11	704	0.2+	0.3−
1998 07 26	809	(1.1−	3.6−)	2000 02 02	704	0.1+	0.8+	2000 03 11	704	0.2+	0.0
1998 07 26	809	(1.4−	2.6−)	2000 02 02	704	1.1+	0.0	2000 03 11	699	0.4−	0.3+
1998 07 27	809	1.0+	0.5+	2000 02 02	704	0.1−	0.3−	2000 03 11	699	0.3−	0.0
1998 07 27	809	1.0+	1.0+	2000 02 06	704	0.3+	0.4+	2000 03 11	699	0.5−	0.2−
1998 07 27	809	0.7+	0.7+	2000 02 06	704	0.2−	0.2+				

(13989)* 1993 BG = 1984 PE = 1997 AA₁₅ = 2000 AP₁₈₇

Discovered 1993 Jan. 16 by T. Seki at Geisei.

Id. M. E. Sansaturio (*MPC* 38442), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	62.29161	(2000.0)		P	Q		
<i>n</i>	0.26881421	<i>ω</i>	233.92732	+0.97785759	+0.01530798		
<i>a</i>	2.3777594	<i>Ω</i>	124.29128	+0.03914803	+0.96633441		
<i>e</i>	0.2880581	<i>i</i>	14.63262	−0.20557715	+0.25683357		
<i>P</i>	3.67	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1984 08 02	675	0.5+	0.1+	1998 05 23	704	0.1−	1.1+	2000 01 07	699	0.2+	0.5−
1984 08 02	675	0.3−	1.9+	1998 05 23	704	(0.2−	2.1+)	2000 01 07	699	0.4+	0.7−
1993 01 16	372	0.3−	1.9+	1998 05 23	704	0.7−	1.4+	2000 01 08	704	0.3−	0.2+
1993 01 16	372	(2.3−	3.8+)	1999 09 14	704	0.4−	0.0	2000 01 08	704	0.2+	0.2+
1993 01 18	372	(3.7−	3.8−)	1999 09 14	704	0.8+	0.6+	2000 01 08	704	0.5−	0.6+
1993 01 18	372	(0.1−	2.9−)	1999 09 14	704	0.1+	0.3−	2000 01 08	704	0.2+	0.7+
1993 01 25	372	1.5−	0.1−	1999 09 14	704	0.3+	0.6−	2000 01 08	704	0.0	0.6+
1993 01 25	372	0.1−	1.1−	1999 09 14	704	0.1−	0.2−	2000 01 11	704	0.5+	0.4+

1997 01 13	566	0.0	0.1+	1999 11 07	704	0.9−	0.5−	2000 01 11	704	0.4+	0.2+
1997 01 13	566	0.3−	0.6+	1999 11 07	704	1.0−	0.2−	2000 01 11	704	0.8+	0.6+
1997 01 13	566	0.3+	0.0	1999 11 07	704	0.8−	0.3−	2000 01 11	704	0.4+	0.7+
1997 01 14	566	0.3+	0.0	1999 11 07	704	0.7−	0.6−	2000 01 11	704	0.8+	0.9+
1997 01 14	566	0.2+	0.2−	1999 11 07	704	1.2−	0.5−	2000 02 04	704	0.5+	0.9+
1997 01 14	566	0.1+	0.2+	1999 12 16	704	0.2−	0.5−	2000 02 04	704	0.8+	0.7+
1998 04 24	704	0.5+	0.2−	1999 12 16	704	0.3−	0.3−	2000 02 04	704	1.0+	0.5+
1998 04 24	704	(1.4+	2.8−)	1999 12 16	704	0.1−	0.4−	2000 03 05	704	0.1+	0.9+
1998 04 24	704	1.4+	0.9−	1999 12 16	704	0.2−	0.6−	2000 03 05	704	0.1+	0.3+
1998 04 24	704	0.9+	1.8−	1999 12 16	699	0.3+	0.0	2000 03 05	704	0.2+	0.0
1998 04 24	704	0.9−	0.2−	1999 12 16	699	0.5+	0.2−	2000 03 05	704	0.9+	0.6+
1998 05 23	704	1.7−	0.7+	1999 12 16	699	0.5+	0.1+				
1998 05 23	704	(0.9−	2.0+)	2000 01 07	699	0.2+	0.7−				

(13990)* 1993 EK = 1998 QT₅₆

Discovered 1993 Mar. 2 by T. Urata at the Nihondaira Observatory.

Id. G. V. Williams (*MPC* 32454)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	59.24889	(2000.0)		P	Q		
<i>n</i>	0.28547253	<i>ω</i>	125.37567	−0.25457671	−0.96610970		
<i>a</i>	2.2843352	<i>Ω</i>	339.24816	+0.84358173	−0.20027098		
<i>e</i>	0.1770167	<i>i</i>	6.92065	+0.47282192	−0.16286065		
<i>P</i>	3.45	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1988 11 09	675	1.8−	0.3+	1993 04 14	385	0.2−	1.3−	1998 09 25	704	1.7+	1.1−
1991 09 07	691	1.1−	0.5−	1993 04 14	385	0.1+	1.7−	1998 09 27	704	0.7−	0.7+
1991 09 07	691	0.9−	0.1−	1998 08 30	691	0.5−	0.9+	1998 09 27	704	0.5−	0.8−
1991 09 07	691	1.1−	0.5−	1998 08 30	691	1.3+	1.0−	1998 09 27	704	0.4+	0.2+
1993 03 02	385	0.1−	0.7−	1998 08 30	691	0.5−	0.7+	1998 09 27	704	0.8+	0.4−
1993 03 02	385	0.5−	0.5−	1998 08 31	691	0.5−	0.6+	1998 09 27	704	0.1+	0.1+
1993 03 02	385	0.6−	1.1−	1998 08 31	691	0.5−	0.7+	2000 02 02	704	0.3−	0.1−
1993 03 13	385	0.7+	0.3−	1998 08 31	691	0.5−	0.9+	2000 02 02	704	0.1+	0.3−
1993 03 13	385	0.1−	0.1−	1998 09 14	704	0.6−	0.2−	2000 02 02	704	0.0	0.1+
1993 03 13	385	0.4+	0.1+	1998 09 14	704	(1.0+	2.0−)	2000 03 02	888	1.1−	0.4+
1993 03 20	385	1.4+	0.5+	1998 09 14	704	0.6+	1.1−	2000 03 02	888	0.3−	0.9+
1993 03 20	385	1.4+	1.0+	1998 09 14	704	0.8−	1.2−	2000 03 02	888	0.5−	0.3+
1993 03 20	385	1.3+	0.7+	1998 09 18	704	0.1−	0.9+	2000 03 04	703	0.5−	0.6+
1993 03 21	385	0.2+	1.0−	1998 09 18	704	0.7−	0.3+	2000 03 04	703	0.2−	0.8+
1993 03 21	385	0.7−	0.7−	1998 09 18	704	1.3+	1.8+	2000 03 04	703	0.1−	1.1+
1993 03 21	385	1.2−	0.2+	1998 09 18	704	0.5−	0.5+	2000 03 04	703	0.6+	0.5+
1993 04 13	385	0.3+	0.7−	1998 09 18	704	1.8+	1.9+	2000 03 09	704	0.0	1.2+
1993 04 13	385	1.0+	1.8−	1998 09 25	704	1.0+	0.8−	2000 03 09	704	0.5−	0.9+
1993 04 13	385	0.9−	0.6+	1998 09 25	704	1.3+	1.0−	2000 03 09	704	0.2+	0.7+
1993 04 14	385	0.5−	0.3−	1998 09 25	704	0.9+	1.2−				

(13991)* 1993 FZ₆ = 1997 JD₁₀

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. S. Nakano (*MPC* 29918)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano		

2000 MAR. 20

M.P.C. 39049

1997 05 09	358	0.8−	0.7−	2000 02 03	704	0.6−	0.3+	2000 02 11	704	1.1−	1.4+
1997 05 09	358	(3.0−	1.5+)	2000 02 03	704	1.1−	0.0	2000 02 11	704	0.1+	0.0
1997 05 11	358	(3.5+	2.7−)	2000 02 03	704	0.3−	0.1−	2000 02 11	704	0.9+	0.5−
1997 05 11	358	(2.5+	1.5−)	2000 02 08	704	0.2−	0.4+	2000 02 11	704	0.4+	0.3+
1997 05 28	816	0.1+	0.8+	2000 02 08	704	0.4−	0.1+	2000 02 11	704	1.8+	0.7−
1997 06 04	816	0.5+	0.7+	2000 02 08	704	0.1+	0.0	2000 03 04	704	0.1−	1.0−
1997 06 04	816	0.6+	0.9+	2000 02 08	704	0.0	0.4+	2000 03 04	704	0.3−	0.3−
1997 06 04	816	0.6+	1.0+	2000 02 08	704	0.1+	0.0	2000 03 04	704	0.4+	0.9−
1998 10 29	704	1.0+	0.7−	2000 02 10	704	0.3−	0.4−	2000 03 04	704	0.0	0.7−
1998 10 29	704	0.2−	0.8−	2000 02 10	704	0.7−	0.1+	2000 03 04	704	0.0	0.3+
1998 10 29	704	0.3−	0.4+	2000 02 10	704	0.4+	1.4+				

(13992)* 1993 FL₈ = 1976 UG₇

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 23522)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	251.42133		(2000.0)	P	Q		
<i>n</i>	0.26996041	ω	229.45233	−0.07733846	+0.99413193		
<i>a</i>	2.3710243	Ω	36.32377	−0.87179885	−0.03062553		
<i>e</i>	0.1008658	<i>i</i>	7.33582	−0.48372050	−0.10374862		
<i>P</i>	3.65	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 10 22	381	0.4+	0.6+	1998 10 23	691	0.4+	0.2+	1998 11 14	699	0.5+	0.5+
1976 10 22	381	1.4−	0.3+	1998 10 23	691	0.6+	0.2+	2000 02 14	704	0.4+	0.2+
1976 10 22	381	0.0	0.5+	1998 10 23	691	0.8+	0.0	2000 02 14	704	0.4+	0.2+
1976 10 22	381	0.2−	0.6−	1998 10 29	704	0.2+	0.3−	2000 02 14	704	0.2−	0.4+
1976 10 24	381	1.6+	0.9+	1998 10 29	704	0.2−	0.1−	2000 02 14	704	1.3−	0.7+
1976 10 24	381	1.4−	0.1−	1998 10 29	704	0.2+	0.4−	2000 02 14	704	0.4−	0.7+
1993 03 17	809	1.0−	1.1−	1998 10 29	704	0.2+	0.0	2000 03 04	704	(1.0−	3.8−)
1993 03 18	809	0.3−	1.3−	1998 10 29	704	0.5+	0.1−	2000 03 04	704	0.5+	1.1−
1993 03 23	809	0.1−	0.2+	1998 11 10	704	0.2−	0.4−	2000 03 04	704	0.0	0.4−
1993 04 16	413	0.4+	0.3+	1998 11 10	704	1.4−	0.7−	2000 03 04	704	0.2−	0.6−
1998 10 14	699	0.3+	0.4−	1998 11 10	704	0.7−	0.8−	2000 03 12	704	0.0	0.4−
1998 10 14	699	0.0	0.7−	1998 11 10	704	1.6−	1.5+	2000 03 12	704	0.4+	0.7−
1998 10 14	699	1.0+	0.5+	1998 11 11	704	0.4−	0.3−	2000 03 12	704	0.6−	0.1−
1998 10 18	691	0.4−	0.2−	1998 11 11	704	0.4+	0.4−	2000 03 12	703	0.2+	1.3+
1998 10 18	691	0.4−	0.0	1998 11 11	704	0.9+	0.7+	2000 03 12	704	0.1+	0.1−
1998 10 18	691	0.4−	0.2−	1998 11 11	704	0.3+	0.1−	2000 03 12	703	0.2+	0.6+
1998 10 20	699	0.7+	0.5−	1998 11 11	704	0.5−	1.0−	2000 03 12	704	0.2+	0.0
1998 10 20	699	0.1+	0.1−	1998 11 14	699	0.5+	0.1+	2000 03 12	703	0.5+	0.0
1998 10 20	699	0.2−	0.2−	1998 11 14	699	0.2+	0.7+	2000 03 12	703	0.2+	0.7+

(13993)* 1993 FN₉

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	59.24415		(2000.0)	P	Q		
<i>n</i>	0.27572424	ω	49.78614	−0.11889133	−0.99155727		
<i>a</i>	2.3378649	Ω	47.12264	+0.88817466	−0.12950926		
<i>e</i>	0.0515108	<i>i</i>	4.05025	+0.44385878	−0.00644510		
<i>P</i>	3.57	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 10 13	691	0.9+	0.7−	1998 09 26	704	0.8−	0.6−	2000 02 04	704	0.6−	0.5−
1991 10 13	691	0.9+	0.7−	1998 09 26	704	0.4−	0.4−	2000 02 04	704	0.1−	0.3−
1991 10 13	691	1.1+	0.7−	1998 09 27	704	0.2−	0.1−	2000 02 04	704	0.0	0.4+
1993 03 17	809	1.4−	0.7+	1998 09 27	704	0.5−	0.2+	2000 02 11	704	0.1−	0.6+
1993 03 18	809	0.9−	0.2−	1998 09 27	704	0.2−	0.1−	2000 02 11	704	0.0	0.1+
1993 03 23	809	0.3+	0.0	1998 09 27	704	0.6−	0.1−	2000 02 11	704	0.1+	0.1+
1993 04 16	413	0.4−	0.0	1998 09 27	704	0.1+	0.2+	2000 02 11	704	0.3+	0.4−
1997 06 03	566	1.3+	0.8+	1998 10 14	704	0.0	0.3−	2000 02 11	704	0.1+	0.3−
1997 06 03	566	0.4+	0.2+	1998 10 14	704	0.7+	0.8−	2000 02 29	704	0.0	0.1+
1997 06 03	566	0.0	0.4+	1998 10 14	704	0.3−	0.9−	2000 02 29	704	0.1+	0.8+

1998 09 14	704	1.5−	1.3−	1998 10 14	704	0.8−	0.3+	2000 02 29	704	0.4−	0.4+
1998 09 14	704	0.7+	1.3−	1998 10 15	704	0.1+	0.1+	2000 02 29	704	0.5−	0.3+
1998 09 14	704	1.2−	0.2−	1998 10 15	704	0.4−	0.3−	2000 02 29	704	0.3−	0.6+
1998 09 17	699	0.3−	1.5+	1998 10 15	704	(2.3−	0.7−)	2000 03 02	703	0.1−	0.4+
1998 09 17	699	0.7+	0.9+	1998 10 15	704	0.9−	1.3−	2000 03 02	703	0.0	0.4+
1998 09 17	699	0.2−	1.8+	1998 10 15	704	1.6−	1.3+	2000 03 02	703	(3.9+	0.8+)
1998 09 18	704	0.7+	1.5+	1998 10 17	699	0.7+	1.5+	2000 03 02	703	0.8+	0.8−
1998 09 18	704	0.7+	0.5+	1998 10 17	699	0.1−	0.5+	2000 03 05	704	0.0	0.1+
1998 09 18	704	1.4−	1.4+	1998 10 19	699	0.7+	0.4+	2000 03 05	704	0.1+	0.1−
1998 09 18	704	0.3+	0.0	1998 10 19	699	0.1−	0.8+	2000 03 05	704	0.5+	0.2+
1998 09 18	704	(0.5−	2.3+)	1998 10 19	699	0.6−	0.3+	2000 03 05	704	0.2−	0.3+
1998 09 25	699	0.1−	1.0+	1998 10 28	704	0.0	0.3−	2000 03 05	704	0.5+	0.7+
1998 09 25	699	0.6+	1.6+	1998 10 28	704	0.7+	0.1−	2000 03 12	704	0.3+	0.1+
1998 09 25	699	0.4−	1.7+	1998 10 28	704	1.1+	0.6−	2000 03 12	704	0.4+	0.6+
1998 09 26	704	0.3−	0.0	1998 10 28	704	0.0	0.4−	2000 03 12	704	0.1+	0.3+
1998 09 26	704	0.6−	0.7−	2000 02 04	704	1.2+	0.3−	2000 03 12	704	0.6+	0.6+
1998 09 26	704	0.1−	0.0	2000 02 04	704	0.6+	0.3+	2000 03 12	704	0.9+	1.0+

(13994)* 1993 FA₁₅

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	132.67341		(2000.0)	P	Q		
<i>n</i>	0.26534712	ω	314.64590	+0.99083033	−0.08649643		
<i>a</i>	2.3984268	Ω	50.59927	+0.12564326	+0.87238407		
<i>e</i>	0.1277945	<i>i</i>	7.71957	−0.04968929	+0.48110748		
<i>P</i>	3.71	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 03 17	809	1.6−	0.9−	1998 09 27	699	0.2+	0.4+	2000 03 09	704	0.6+	0.3−
1993 03 18	809	0.8−	1.3−	1998 12 08	704	0.4+	0.6+	2000 03 09	704	0.7+	0.3+
1993 03 23	809	0.6+	0.8−	1998 12 08	704	1.0−	1.8−	2000 03 09	704	0.1+	0.6+
1993 03 24	675	0.2−	0.2+	1998 12 08	704	0.1−	0.1+	2000 03 09	704	0.2+	0.6+
1993 04 16	413	0.4+	0.2+	1998 12 08	704	0.6−	0.4+	2000 03 09	704	0.3+	0.0
1997 05 02	910	0.4+	1.2+	1999 12 08	704	0.2−	0.3−	2000 03 09	704	0.1−	0.3−
1997 05 02	910	0.4+	1.0+	1999 12 08	704	0.1−	0.1+	2000 03 09	704	0.6−	0.1+
1997 05 03	910	0.3+	1.1+	1999 12 08	704	0.4+	0.2+	2000 03 09	704	0.5+	0.2−
1998 09 22	699	0.1−	0.4+	2000 03 04	704	0.7−	0.1+	2000 03 09	704	0.7+	0.4−
1998 09 22	699	0.0	0.5+	2000 03 04	704	0.1−	0.8+	2000 03 12	703	1.5−	0.7+
1998 09 22	699	0.1+	0.4+	2000 03 04	704	0.3−	0.1+	2000 03 12	703	0.6+	0.2+
1998 09 27	699	0.2+	0.5+	2000 03 04	704	1.4+	0.8+	2000 03 12	703	0.6−	0.9+
1998 09 27	699	0.6−	0.3+	2000 03 09	704	0.1+	0.1+	2000 03 12	703	0.2+	0.4−

(13995)* 1993 FV₁₆ = 1979 SA₁₅ = 1997 JD₂ = 1998 VM₂₀

Discovered 1993 Mar. 19 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. A. Doppler (*MPC* 33233), A. Milani (*MPC* 34188)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	194.84327		(2000.0)	P	Q		
<i>n</i>	0.26319970	ω	211.82936	+0.69779258	+0.71510708		
<i>a</i>	2.4114548	Ω	102.45772	−0.64799583	+0.65478619		
<i>e</i>	0.1717879	<i>i</i>	2.42530	−0.30526534	+0.24469758		
<i>P</i>	3.74	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 09 20	675	0.5+	0.4−	1998 11 10	704	0.0	0.0	2000 02 03	704	0.0	0.6+
1979 09 21	675	0.2+	0.9−	1998 11 10	704	0.5+	0.3−	2000 02 03	704	0.4+	0.4+
1993 03 19	809	0.3+	0.9−	1998 11 10	704	0.3−	0.2+	2000 02 08	704	0.2+	1.9−
1993 03 20	809	0.3−	1.1−	1998 11 10	704	0.1+	0.3+	2000 02 08	704	0.4+	0.2+
1993 03 23	809	0.1−	0.5−	1998 11 10	704	0.5+	1.6−	2000 02 08	704	0.7+	0.2+
1993 03 24	691	1.0−	0.7−	1998 11 11	704	0.3+	1.3+	2000 02 08	704	0.7−	0.2−
1993 03 24	691	0.7−	0.9−	1998 11 11	704	1.2+	0.4+	2000 02 08	704	0.7+	0.2−
1993 03 24	691	0.7−	0.9−	1998 11 11	704	0.0	0.1+	2000 02 11	704	0.1−	0.2−
1997 05 01	910	0.6+	0.6+	1998 11 11	704	0.2+	0.3−	2000 02 11	704	0.2+	0.4+
1997 05 01	910	0.9+	0.3+	1998 11 11	704	1.0+	0.0	2000 02 11	704	0.1+	0.0

1997 05 01	910	0.7+	0.4+	2000 01 30	703	0.7-	0.1+	2000 02 11	704	0.0	0.0
1997 05 02	910	0.6-	0.3+	2000 01 30	703	1.3-	0.5-	2000 02 29	704	0.3-	0.4+
1997 05 02	910	0.4-	0.3+	2000 01 30	703	0.6+	0.1-	2000 02 29	704	0.3-	0.3+
1997 05 03	910	0.2-	0.3+	2000 01 30	703	1.0+	0.1+	2000 02 29	704	0.5+	0.5+
1998 10 24	691	1.0-	0.1-	2000 02 03	704	0.1-	1.1+	2000 02 29	704	0.2+	0.2+
1998 10 24	691	1.2-	0.1-	2000 02 03	704	0.1-	0.3+	2000 02 29	704	0.3-	0.2+
1998 10 24	691	1.3-	0.1-	2000 02 03	704	0.6-	0.0				

(13996)* 1993 FH₂₀ = 1995 YN₂₁

Discovered 1993 Mar. 19 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. K. Ichikawa (*MPC* 27915)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	92.10186		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.26974560	ω	116.57500	+0.74702720		-0.66415312	
<i>a</i>	2.3722829	Ω	285.05750	+0.59868529		+0.69117014	
<i>e</i>	0.1711850	<i>i</i>	1.73111	+0.28900915		+0.28492888	
<i>P</i>	3.65	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 03 19	809	1.3+	1.0-	2000 02 02	703	0.1+	0.7+	2000 03 03	704	0.0	0.3-
1993 03 20	809	0.4-	1.1+	2000 02 02	703	0.8+	0.2+	2000 03 03	704	0.6-	0.5-
1993 03 24	809	0.4+	1.7+	2000 02 02	703	1.1-	0.6+	2000 03 09	704	0.0	0.3+
1993 04 15	691	0.9-	0.9-	2000 02 02	704	0.2-	0.4-	2000 03 09	704	0.4+	0.5+
1993 04 15	691	0.7-	1.5-	2000 02 02	704	0.3+	0.5-	2000 03 09	704	0.5+	0.2+
1993 04 15	691	0.4-	0.7-	2000 02 02	704	0.3+	0.6-	2000 03 09	704	0.5+	0.3-
1995 12 20	566	0.2+	0.4-	2000 02 02	704	0.5-	0.6-	2000 03 09	704	0.7+	1.0+
1995 12 20	566	0.3+	0.4-	2000 02 02	704	0.2+	0.9-	2000 03 09	704	0.2+	0.7+
1995 12 20	566	0.3+	0.3-	2000 02 03	691	1.7-	0.5-	2000 03 09	704	0.3+	0.1-
1995 12 21	566	0.1-	0.0	2000 02 03	691	0.9-	0.6-	2000 03 09	704	0.6+	0.7+
1995 12 21	566	0.4-	0.2-	2000 02 03	691	1.0-	0.6-	2000 03 09	704	0.7+	0.7+
1995 12 21	566	0.3-	0.2+	2000 02 25	703	1.8-	0.9+	2000 03 09	704	0.5-	0.3+
1998 07 26	809	(2.3+	0.8-)	2000 02 25	703	0.0	1.1+	2000 03 11	704	0.3+	0.1+
1998 07 26	809	(0.9+	2.1-)	2000 02 25	703	0.7+	0.1-	2000 03 11	704	0.3+	0.1-
1998 07 26	809	0.9+	1.3-	2000 02 25	703	0.2+	0.7+	2000 03 11	704	0.6+	0.2+
1998 07 27	809	0.6+	0.4-	2000 02 29	704	0.3+	0.7-	2000 03 11	704	0.3+	0.0
1998 07 27	809	0.6+	0.8-	2000 02 29	704	0.1+	0.4-	2000 03 11	699	0.8-	0.5+
1998 07 27	809	0.2+	0.1+	2000 02 29	704	0.6+	0.4-	2000 03 11	699	0.8-	0.3-
1998 10 23	725	0.4-	0.1-	2000 02 29	704	0.5+	0.7-	2000 03 11	699	0.5-	0.8+
1998 10 23	725	0.6-	0.4-	2000 03 03	704	0.4+	0.2-	2000 03 11	699	0.2-	0.8-
1998 10 23	725	0.7-	0.0	2000 03 03	704	0.1+	0.7-				
2000 02 02	703	0.0	0.0	2000 03 03	704	0.1+	0.8-				

(13997)* 1993 FB₃₂ = 1949 QG = 1979 OO₁₂

Discovered 1993 Mar. 19 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. T. Kobayashi (*MPC* 24108), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	100.72885		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.26147606	ω	227.03348	+0.88672904		-0.46181637	
<i>a</i>	2.4220407	Ω	160.44212	+0.44024574		+0.82978105	
<i>e</i>	0.1838878	<i>i</i>	3.58126	+0.14105066		+0.31335132	
<i>P</i>	3.77	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1949 08 21	024	0.1-	0.3+	1998 08 23	704	0.2-	1.4+	2000 02 11	704	0.5+	0.1+
1949 08 22	024	(5.2+	0.6-)	1998 08 23	704	(0.4+	2.1+)	2000 02 11	704	1.0+	1.0+
1979 07 26	675	(2.7-	3.2+)	1998 08 23	704	0.8-	0.1-	2000 02 27	703	0.1+	0.2-
1979 07 27	675	0.0	1.0+	1998 09 14	704	0.8-	0.4-	2000 02 27	703	0.1-	1.4+
1993 03 19	809	0.4-	0.3+	1998 09 14	704	0.1+	1.1+	2000 02 27	703	0.5-	0.4+
1993 03 20	809	0.2-	0.8-	1998 09 14	704	1.0-	0.7+	2000 02 27	703	1.2-	0.9+
1993 03 24	809	0.7-	0.4-	1998 09 14	704	0.4+	1.5+	2000 02 29	704	0.2-	1.3+
1993 04 14	691	0.2+	0.9-	1998 09 14	704	0.5-	0.5+	2000 02 29	704	1.2+	0.5+
1993 04 14	691	0.8+	1.2+	1998 11 19	910	(2.6-	0.0)	2000 02 29	704	0.5+	1.0+
1993 04 14	691	(2.7-	0.6+)	1998 11 19	910	(2.7-	0.1-)	2000 02 29	704	1.0+	0.5+

1993 04 18	413	(5.7-	0.4-)	1998 11 19	910	(2.8-	0.3+)	2000 02 29	704	0.5+	0.0
1998 07 26	809	1.2+	0.5+	2000 02 02	704	0.1-	0.2+	2000 03 03	704	1.0+	0.9+
1998 07 26	809	1.2+	1.4+	2000 02 02	704	0.2+	0.4+	2000 03 03	704	1.0+	0.1+
1998 07 26	809	0.9+	1.0+	2000 02 02	704	0.2-	0.6+	2000 03 03	704	0.5+	0.6+
1998 07 27	809	(3.8+	1.5-)	2000 02 02	704	0.1+	0.1-	2000 03 03	704	0.1-	1.5+
1998 07 27	809	(3.1+	1.5+)	2000 02 02	704	0.3+	0.2+	2000 03 03	704	1.1+	0.6+
1998 07 27	809	(2.8+	1.6+)	2000 02 04	704	0.5+	0.6+	2000 03 04	691	0.5-	0.6-
1998 08 17	704	0.5-	0.1-	2000 02 04	704	0.4+	0.0	2000 03 04	691	0.6-	0.6-
1998 08 17	704	0.3-	0.8+	2000 02 04	704	0.2-	0.6+	2000 03 04	691	0.4-	0.6-
1998 08 17	704	0.1-	1.4+	2000 02 04	704	0.3+	0.5-	2000 03 05	704	0.3-	0.0
1998 08 17	704	0.6-	0.1-	2000 02 04	704	0.6-	1.1+	2000 03 05	704	0.2+	0.3-
1998 08 17	704	0.1-	0.7+	2000 02 08	691	0.7-	0.3-	2000 03 05	704	0.9+	0.0
1998 08 22	566	1.3-	0.3+	2000 02 08	691	0.7-	0.4-	2000 03 11	704	0.0	0.3+
1998 08 22	566	(2.2-	0.1-)	2000 02 08	691	0.9-	0.4-	2000 03 11	704	0.1-	0.6+
1998 08 22	566	0.6-	0.0	2000 02 11	704	0.2-	1.0+	2000 03 11	704	0.1-	0.8+
1998 08 23	704	0.4-	0.2+	2000 02 11	704	0.4+	0.5+	2000 03 11	704	0.2-	0.5+
1998 08 23	704	0.1+	1.8+	2000 02 11	704	0.9+	1.0+	2000 03 11	704	0.1+	1.1+

(13998)* 1993 FL₃₉ = 1996 BY₁₄

Discovered 1993 Mar. 19 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 26743)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	263.77610		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.27386736	ω	244.72100	+0.20317688		+0.97874280	
<i>a</i>	2.3484205	Ω	37.03615	-0.88082350		+0.19517156	
<i>e</i>	0.2096412	<i>i</i>	2.66053	-0.42763199		+0.06301263	
<i>P</i>	3.60	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 03 19	809	0.1+	0.2+	1997 06 28	704	0.9-	0.8+	2000 02 11	704	1.4+	0.8-
1993 03 20	809	(3.0+	4.6-)	1997 06 28	704	0.1+	0.3+	2000 02 26	703	0.1-	0.7+
1993 03 20	809	0.4-	0.4-	1997 06 29	704	1.6-	0.9-	2000 02 26	703	0.4-	0.4-
1993 03 24	809	0.4+	0.5-	1997 06 29	704	0.1-	0.3+	2000 02 26	703	0.6+	0.4-
1993 04 21	413	0.4-	0.2+	1997 06 29	704	0.3+	0.1+	2000 02 26	703	1.3-	0.3-
1994 10 26	691	0.3-	0.1+	1997 06 29	704	0.4+	0.6+	2000 03 11	699	0.4-	0.1+
1994 10 26	691	0.0	0.3+	1997 06 29	704	0.5-	0.8+	2000 03 11	699	0.4+	1.3+
1994 10 26	691	0.0	0.0	1997 07 02	704	0.5+	1.0-	2000 03 11	699	0.2+	0.7-
1996 01 18	691	0.1-	0.1-	1997 07 02	704	0.1-	0.5-	2000 03 11	699	1.0-	0.8+
1996 01 18	691	0.1+	0.0	1997 07 02	704	0.4+	0.0	2000 03 12	704	0.2-	0.3-
1996 01 18	691	0.2-	0.1-	1997 07 02	704	1.7+	0.4+	2000 03 12	704	0.3-	0.4+
1996 01 25	691	0.2+	0.1-	1997 07 02	704	0.1-	0.3-	2000 03 12	704	0.1-	0.2-
1996 01 25	691	0.0	0.4+	2000 02 11	704	1.3+	0.3-	2000 03 12	704	0.3-	0.6+
1996 01 25	691	0.4+	0.2-	2000 02 11	704	0.0	0.6+	2000 03 12	704	0.3-	0.0
1997 06 28	704	0.1+	0.0	2000 02 11	704	1.2+	0.1-				

(13999)* 1993 FH₄₃ = 1976 SH₄ = 1983 QQ₁ = 1990 HC₂

Discovered 1993 Mar. 19 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. K. Ichikawa (*MPC* 24231)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	251.35403		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.27673858	ω	252.70754	+0.51067834		+0.85974517	
<i>a</i>	2.3321487	Ω	48.00345	-0.78532371		+0.46965035	
<i>e</i>	0.2314418	<i>i</i>	0.52215	-0.34996330		+0.20066584	
<i>P</i>	3.56	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1950 04 17	675	0.1-	0.3-	1994 11 12	385	0.7+	0.5-	2000 03 03	704	0.6+	1.0-
1950 04 17	675	0.3-	0.1-	1994 11 12	385	1.0-	0.4-	2000 03 03	704	0.6+	0.1-
1976 09 24	095	0.7+	0.3+	1994 11 28	675	(0.2-	2.6-)	2000 03 08	704	(3.6+	0.4-)
1976 09 29	095	(1.4+	3.2-)	1994 11 28	675	(0.1+	2.5-)	2000 03 08	704	(4.0+	1.3-)
1983 08 16	095	(3.2-	0.3+)	2000 02 06	704	0.4+	0.0	2000 03 08	704	(4.6+	0.2+)
1990 04 27	413	(7.7+	0.8+)	2000 02 06	704	0.1-	0.3-	2000 03 08	704	(4.4+	2.8-)
1990 04 27	413	(3.3+	2.0-)	2000 02 06	704	0.8+	0.0	2000 03 08	704	(4.7+	2.2-)

2000 MAR. 20

M.P.C. 39051

1990 04 30	413	0.0	0.8−	2000 02 06	704	0.2−	0.6+	2000 03 11	704	0.1−	0.2−
1993 03 19	809	1.1−	0.1+	2000 02 11	120	1.0−	0.4−	2000 03 11	699	0.3+	0.1−
1993 03 20	809	(2.1+ 0.0)		2000 02 11	120	(2.2− 0.8−)		2000 03 11	704	0.0	0.3−
1993 03 24	809	0.5−	0.5−	2000 02 11	704	0.3+	0.2+	2000 03 11	704	0.1−	0.1−
1993 04 17	413	0.8−	0.5−	2000 02 11	704	0.4+	1.3+	2000 03 11	699	0.1−	0.2−
1994 10 31	905	0.6+	1.1+	2000 02 11	704	0.3+	1.1+	2000 03 11	704	0.2−	0.2−
1994 10 31	905	0.2−	1.5+	2000 02 11	704	0.6−	0.3+	2000 03 11	699	0.1−	0.2−
1994 11 04	675	0.6+	1.4−	2000 02 27	703	1.6−	0.6−	2000 03 11	704	0.0	0.4−
1994 11 04	675	0.3−	1.2−	2000 02 27	703	0.4−	0.6−	2000 03 11	699	0.0	0.3−
1994 11 06	675	0.2+	1.4−	2000 02 27	703	0.3+	0.4−	2000 03 15	704	0.1−	0.3+
1994 11 06	675	0.4−	1.5−	2000 02 27	703	0.1−	0.5+	2000 03 15	704	0.6+	0.5+
1994 11 09	905	1.5−	1.8+	2000 03 03	704	0.4+	0.4−	2000 03 15	704	0.6+	0.6+
1994 11 09	905	0.7+	0.8+	2000 03 03	704	0.5+	0.0	2000 03 15	704	(1.3− 2.4+)	
1994 11 12	385	0.0	0.6−	2000 03 03	704	0.8+	0.2−	2000 03 15	704	0.5+	0.9+

(14000)* 1993 FZ₅₅ = 1972 TV = 1990 ST₂₉ = 1995 WJ₄₃

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. T. B. Spahr (*MPC* 30659), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	224.08881	(2000.0)	P	Q	
<i>n</i>	0.27073390	ω	176.44591	+0.69166630	+0.71859421
<i>a</i>	2.3665061	Ω	137.29727	−0.66522061	+0.67283724
<i>e</i>	0.2424606	<i>i</i>	6.11550	−0.28121038	+0.17581927
<i>P</i>	3.64	<i>H</i>	13.7	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1972 10 07	095	0.2+	0.4−	1998 12 22	704	0.4+	0.3−	2000 02 24	106	0.6−	0.6−
1990 09 23	413	0.2−	0.6+	1998 12 22	704	0.1−	0.8+	2000 02 24	106	1.0−	0.3+
1990 09 23	413	0.0	0.1−	1998 12 22	704	1.1+	0.8+	2000 02 26	703	0.5−	0.2−
1993 03 17	809	0.3+	0.1−	1998 12 22	704	0.9+	0.7+	2000 02 26	703	0.9+	0.1+
1993 03 18	809	0.2+	0.2+	1998 12 29	689	1.3−	0.0	2000 02 26	703	0.2−	0.0
1993 03 23	809	0.4−	0.4+	2000 02 06	704	0.5+	0.0	2000 02 26	703	0.2+	0.8+
1993 04 16	413	0.1−	0.9−	2000 02 06	704	0.6+	0.5+	2000 03 06	704	0.4+	0.2−
1995 11 30	691	0.5−	0.4−	2000 02 06	704	0.0	0.4+	2000 03 06	704	0.2−	0.0
1995 11 30	691	0.4−	0.4−	2000 02 06	704	0.4−	0.7+	2000 03 06	704	0.6−	1.1+
1995 11 30	691	0.4−	0.5−	2000 02 06	704	0.7+	0.0	2000 03 12	704	(2.9− 0.3−)	
1998 12 15	704	0.4−	0.1−	2000 02 11	704	0.0	0.3+	2000 03 12	704	0.3−	0.0
1998 12 15	704	0.1+	0.4−	2000 02 11	704	0.2+	0.3+	2000 03 12	704	0.4−	0.1−
1998 12 15	704	0.4−	1.0−	2000 02 11	704	1.0+	0.4−	2000 03 12	704	0.1−	0.3−
1998 12 15	704	0.6−	0.6−	2000 02 11	704	0.2−	0.6−	2000 03 12	704	0.4−	1.1−
1998 12 15	704	0.0	0.7+	2000 02 11	704	0.2+	0.0				
1998 12 22	704	0.5+	0.0	2000 02 24	106	1.2+	0.1−				

(14001)* 1993 KR = 1996 BG₄

Discovered 1993 May 26 by S. Otomo at Kiyosato.

Id. B. G. Marsden (*MPC* 26744)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Marsden			
<i>M</i>	8.84957	(2000.0)	P	Q	
<i>n</i>	0.27683959	ω	305.53681	−0.95513082	−0.11737329
<i>a</i>	2.3315814	Ω	229.40874	+0.16453064	−0.97369695
<i>e</i>	0.2521862	<i>i</i>	20.98391	−0.24628193	−0.19528893
<i>P</i>	3.56	<i>H</i>	13.8	<i>G</i>	0.15 <i>U</i> 2

Residuals in seconds of arc

1993 05 17	675	0.6−	0.1−	1998 10 29	699	0.6−	1.2−	1999 01 19	691	0.4+	0.7−
1993 05 19	675	0.4−	0.7−	1998 11 14	704	0.7+	0.1+	1999 01 22	691	0.5−	0.3−
1993 05 19	675	(2.5− 0.4+)		1998 11 14	704	0.6−	0.1+	1999 01 22	691	0.6−	0.2−
1993 05 26	894	1.1+	1.6−	1998 11 14	704	0.6+	1.6−	2000 02 03	423	1.2+	1.0−
1993 05 26	894	0.3−	1.4−	1998 11 14	704	0.3+	0.2+	2000 02 03	423	1.6+	0.6+
1993 05 27	894	0.0	0.5+	1998 12 09	704	0.2−	1.2−	2000 02 04	423	1.0+	1.4−
1993 05 27	894	0.7+	1.4−	1998 12 09	704	0.2−	0.6−	2000 02 04	423	0.3+	0.9−
1993 06 11	361	0.3+	1.5+	1998 12 09	704	0.0	0.1+	2000 02 17	423	1.9+	0.8−
1993 06 11	361	0.1+	1.4−	1998 12 09	704	0.2+	0.7+	2000 02 17	423	0.4−	0.7−
1996 01 27	413	0.6+	0.6−	1998 12 09	704	(0.1+ 3.1−)		2000 02 17	423	(2.2− 1.0−)	

1996 01 27	413	0.4−	0.4+	1999 01 08	704	(0.4+ 2.0−)	2000 02 28	423	0.9−	0.1+	
1996 01 28	413	0.6−	0.5−	1999 01 08	704	0.2+	0.7−	2000 02 28	423	1.2−	0.2−
1996 01 28	413	0.6−	0.5−	1999 01 08	704	0.1−	0.1−	2000 03 01	423	1.4−	0.8+
1998 10 29	699	0.1+	0.2−	1999 01 19	691	0.4+	0.6−	2000 03 01	423	0.3−	0.1+
1998 10 29	699	0.2+	1.0−	1999 01 19	691	0.6+	0.7−	2000 03 01	423	0.6−	0.0

(14002)* 1993 LW₁ = 1998 XS₂₈

Discovered 1993 June 15 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 33485)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	262.59868	(2000.0)	P	Q	
<i>n</i>	0.26072607	ω	205.14306	−0.05499827	+0.98043927
<i>a</i>	2.4266832	Ω	62.20198	−0.87619416	+0.04337090
<i>e</i>	0.2416969	<i>i</i>	12.33550	−0.47880996	−0.19198389
<i>P</i>	3.78	<i>H</i>	13.7	<i>G</i>	0.15 <i>U</i> 2

Residuals in seconds of arc

1989 03 29	675	0.0	0.9+	1998 11 21	704	0.3−	0.2+	1998 12 17	704	0.3+	0.6+
1989 03 29	675	0.2−	1.1−	1998 11 21	704	1.6+	0.4+	2000 01 29	704	0.1+	0.1+
1993 04 15	675	0.4−	0.8−	1998 11 24	704	1.2+	0.0	2000 01 29	704	0.3−	0.1−
1993 04 15	675	0.2−	1.3−	1998 11 24	704	0.9+	0.8−	2000 01 29	704	0.2+	0.3+
1993 05 27	808	(2.4− 2.3+)		1998 11 24	704	0.6+	0.1+	2000 01 29	704	0.1+	0.5+
1993 05 27	808	0.6+	0.5−	1998 11 24	704	1.2+	0.5−	2000 01 29	704	0.1−	0.1+
1993 05 27	675	0.3+	0.3+	1998 11 24	704	0.4+	1.1−	2000 03 10	703	0.3−	0.1+
1993 05 27	675	0.1−	1.1−	1998 12 14	704	0.6−	0.7−	2000 03 10	703	0.3−	0.1−
1993 06 15	675	1.7−	0.5+	1998 12 14	704	(1.3+ 2.1−)		2000 03 10	703	0.5−	0.2+
1993 06 15	675	(2.5− 0.9+)		1998 12 14	704	(2.1+ 2.2−)		2000 03 10	703	0.5+	0.4−
1998 11 20	699	1.5−	0.2−	1998 12 14	704	1.4+	0.1+	2000 03 11	703	0.7+	0.5+
1998 11 20	699	0.7−	1.1+	1998 12 17	704	0.3−	0.3−	2000 03 11	703	1.0+	0.7+
1998 11 20	699	0.3+	0.9−	1998 12 17	704	0.8−	0.1−	2000 03 11	703	0.6−	0.0
1998 11 21	704	0.8−	0.7−	1998 12 17	704	1.0−	0.3−	2000 03 11	703	0.1−	0.3−
1998 11 21	704	0.4−	0.2−	1998 12 17	704	0.1+	0.4−				

(14003)* 1993 OO₄ = 7646 P-L = 1998 VK₂₄

Discovered 1993 July 20 by E. W. Elst at the European Southern Observatory.

Id. A. Gnädig (*MPC* 34189)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	191.23799	(2000.0)	P	Q	
<i>n</i>	0.23560260	ω	188.61571	+0.73452606	+0.67651802
<i>a</i>	2.5962669	Ω	128.67415	−0.61848072	+0.69949132
<i>e</i>	0.0640119	<i>i</i>	3.88277	−0.27920076	+0.23029385
<i>P</i>	4.18	<i>H</i>	14.9	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1960 10 17	675	0.4−	0.3+	1998 11 11	704	0.7+	0.9+	2000 02 27	703	0.4−	0.4−
1960 10 22	675	0.5+	0.2+	1998 11 11	704	0.6+	0.2+	2000 02 27	703	0.9+	0.1+
1960 10 25	675	0.0	0.4+	1998 11 11	704	1.8+	0.2−	2000 02 27	703	0.9−	0.1+
1960 10 26	675	0.5−	1.0+	1998 11 11	704	1.0+	1.3−	2000 02 29	704	0.2−	1.3+
1993 07 13	809	(3.1+ 4.1+)		2000 02 04	704	0.9+	0.1+	2000 02 29	704	0.4+	0.2−
1993 07 13	809	(2.3+ 3.1+)		2000 02 04	704	0.8+	0.6+	2000 02 29	704	0.3−	0.2+
1993 07 13	809	(2.0+ 3.5+)		2000 02 04	704	0.3+	0.2−	2000 02 29	704	0.6−	0.0
1993 07 20	809	0.2−	1.7+	2000 02 04	704	0.5+	0.4−	2000 02 29	704	0.4−	0.0
1993 07 20	809	0.3−	1.1+	2000 02 04	704	0.5+	1.2+	2000 03 03	704	0.2+	0.2+
1993 07 20	809	0.5−	1.4+	2000 02 06	704	0.1+	0.1−	2000 03 03	704	0.7−	0.9+
1993 07 24	809	(1.0+ 2.3+)		2000 02 06	704	0.1−	1.0−	2000 03 03	704	0.6−	0.3+
1994 12 02	691	0.6−	0.2−	2000 02 06	704	0.2−	0.6+	2000 03 03	704	0.3−	0.2+
1994 12 02	691	0.5−	0.2−	2000 02 06	704	0.5+	0.3+	2000 03 03	704	0.1+	0.3−
1994 12 02	691	0.5−	0.1−	2000 02 11	704	0.2+	0.6−	2000 03 05	704	0.3+	0.1−
1998 11 10	704	1.4−	1.8+	2000 02 11	704	0.2+	0.5−	2000 03 05	704	1.2+	0.2+
1998 11 10	704	0.5+	0.4−	2000 02 11	704	(2.1+ 0.6−)		2000 03 05	704	0.8−	1.6+
1998 11 10	704	1.0−	0.1−	2000 02 11	704	1.1+	0.4−	2000 03 05	704	0.6−	1.9+
1998 11 10	704	1.2−	0.6+	2000 02 27	703	0.3−	0.1−				

(14004)* 1993 SK₂ = 1996 FR₁₃

Discovered 1993 Sept. 19 by K. Endate and K. Watanabe at Kitami.

Id. A. Doppler (*MPC* 34848), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 220.27066		(2000.0)		P		Q	
<i>n</i>	0.23359388	ω	313.44416	+0.67855507	+0.73454286		
<i>a</i>	2.6111295	Ω	359.26470	-0.58354693	+0.53646872		
<i>e</i>	0.2472388	<i>i</i>	14.12631	-0.44613451	+0.41550945		
<i>P</i>	4.22	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

1989 10 29	675	(3.3- 1.0-)	1993 09 22	675	0.1+ 0.2+	2000 02 29	704	0.2+ 0.2+
1989 10 29	675	0.9- 0.7-	1993 10 11	400	0.4+ 0.5+	2000 02 29	704	0.3- 0.5+
1993 09 15	809	(3.1+ 0.3+)	1993 10 11	400	1.4- 0.9-	2000 02 29	704	0.6+ 0.8+
1993 09 15	809	(3.6+ 0.7+)	1996 03 18	691	0.3+ 0.5+	2000 02 29	704	0.0 0.0
1993 09 15	809	(3.3+ 0.5+)	1996 03 18	691	0.1- 0.3+	2000 03 02	703	0.5- 0.2+
1993 09 16	400	(1.1- 4.5-)	1996 03 27	691	0.4+ 0.2-	2000 03 02	703	0.5- 0.2-
1993 09 16	400	0.3- 1.3+	1996 03 27	691	0.6+ 0.1+	2000 03 02	703	0.5- 0.2-
1993 09 17	809	(3.8+ 0.1+)	1996 03 27	691	0.6+ 0.3+	2000 03 02	703	0.4+ 0.8-
1993 09 17	809	(4.3+ 0.9+)	1996 04 10	675	0.8+ 0.2+	2000 03 05	704	0.6- 0.8-
1993 09 17	809	(3.4+ 0.0)	1996 04 10	675	1.6- 0.3+	2000 03 05	704	0.7- 0.1+
1993 09 18	809	(3.3+ 1.8+)	1997 10 29	566	0.3- 0.5-	2000 03 05	704	0.4+ 0.4-
1993 09 18	809	(3.0+ 1.9+)	1997 10 29	566	0.7- 0.1-	2000 03 05	704	0.2- 0.1+
1993 09 18	809	(2.9+ 0.7+)	1997 10 29	566	0.4- 0.2+	2000 03 05	704	0.7+ 0.7+
1993 09 18	675	0.3+ 0.3-	2000 02 11	704	0.0 0.1+	2000 03 12	704	0.4- 0.1-
1993 09 18	675	0.1+ 0.1+	2000 02 11	704	0.6- 1.4-	2000 03 12	704	0.3+ 0.6+
1993 09 19	400	(2.2+ 0.4-)	2000 02 11	704	0.0 0.7-	2000 03 12	704	0.3- 0.2+
1993 09 19	400	0.7+ 1.1+	2000 02 11	704	1.0+ 0.4+	2000 03 12	704	0.8+ 0.1+
1993 09 22	675	0.7+ 0.1-	2000 02 29	704	0.4+ 0.3+			

(14005)* 1993 SO₃ = 1982 SK₄ = 1998 VN₄₄ = 1999 XZ₁₈₀

Discovered 1993 Sept. 22 by O. A. Naranjo at Mérida.

Id. M. E. Sansaturio (*MPC* 38446), G. V. Williams (*ibid.*, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 76.45569		(2000.0)		P		Q	
<i>n</i>	0.17852809	ω	332.01752	+0.99328835	+0.04037664		
<i>a</i>	3.1236690	Ω	26.34878	+0.03110123	+0.80934248		
<i>e</i>	0.0376103	<i>i</i>	14.13506	-0.11140451	+0.58594750		
<i>P</i>	5.52	<i>H</i>	12.1	<i>G</i> 0.15	<i>U</i> 1		

Residuals in seconds of arc

1982 09 20	095	2.0- 0.7+	1996 02 29	327	0.8+ 0.3-	1999 09 03	704	0.0 0.3-
1993 09 22	303	0.5- 0.7-	1996 02 29	327	0.1- 0.0	1999 12 07	703	0.4+ 0.1+
1993 09 22	303	0.6- 0.0	1996 02 29	327	0.2+ 0.2-	1999 12 07	703	0.1- 0.2-
1993 09 22	303	0.6- 0.3-	1996 02 29	327	0.8- 0.9-	1999 12 07	703	0.1+ 0.1+
1993 09 23	303	0.9+ 0.3-	1996 02 29	327	1.0+ 0.0	1999 12 07	703	0.2+ 0.1-
1993 10 09	809	1.8+ 0.1+	1996 04 23	566	0.5- 0.4+	1999 12 12	704	0.4+ 0.3-
1993 10 09	809	0.9+ 0.3+	1996 04 23	566	0.0 0.6+	1999 12 12	704	0.2+ 0.2-
1993 10 09	809	0.6+ 0.1+	1996 04 23	566	0.3- 0.6+	1999 12 12	704	0.3- 0.5+
1993 10 10	675	0.2- 0.3-	1998 11 11	699	0.2- 0.6+	1999 12 12	704	0.5- 0.1-
1993 10 10	675	0.1- 0.2-	1998 11 11	699	0.6- 0.0	1999 12 12	704	0.3- 0.2+
1993 10 11	809	1.1+ 0.9+	1998 11 11	699	1.0- 0.0	1999 12 15	704	0.4+ 0.9+
1993 10 11	809	0.9+ 0.0	1998 11 20	699	0.1+ 0.8+	1999 12 15	704	0.1+ 0.5+
1993 10 11	809	0.0 0.2-	1998 11 20	699	1.4- 0.4+	1999 12 15	704	1.0- 0.0
1993 10 12	809	0.8+ 0.6+	1998 11 20	699	1.1+ 1.0+	1999 12 15	704	1.9- 0.2+
1993 10 12	809	0.2- 0.5+	1998 12 08	704	0.4+ 0.2+	1999 12 15	704	1.8- 1.0+
1993 10 12	809	0.6- 0.2+	1998 12 08	704	1.2- 1.4-	2000 01 02	704	1.3+ 0.3+
1993 10 13	675	0.2+ 0.3-	1998 12 08	704	0.2- 0.5-	2000 01 02	704	0.4+ 0.8-
1993 10 13	675	0.1- 0.5-	1998 12 08	704	1.4+ 0.2-	2000 01 02	704	0.2+ 0.1-
1993 10 22	809	(4.2+ 4.2-)	1998 12 08	704	0.4- 0.7-	2000 01 02	704	0.2+ 1.0-
1993 10 22	809	(1.2+ 2.3-)	1999 09 03	704	0.3+ 0.3-	2000 01 02	704	0.1+ 0.3-
1993 10 22	809	(5.7- 0.4+)	1999 09 03	704	0.2+ 0.8-			

(14006)* 1993 SA₄ = 1962 XL = 1976 UT₅ = 1984 SL₈ = 1989 YL₉

Discovered 1993 Sept. 18 by K. Endate and K. Watanabe at Kitami.

Id. A. Gnädig (*MPC* 31235), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 167.75128		(2000.0)		P		Q	
<i>n</i>	0.21988698	ω	172.33385	+0.98662281	+0.16295701		
<i>a</i>	2.7185441	Ω	178.26799	-0.15638195	+0.95392086		
<i>e</i>	0.1830908	<i>i</i>	8.60511	-0.04604483	+0.25195237		
<i>P</i>	4.48	<i>H</i>	12.4	<i>G</i> 0.15	<i>U</i> 1		

Residuals in seconds of arc

1962 12 01	760	0.2+ 0.7+	1998 12 15	704	0.1+ 0.4+	2000 02 07	704	0.0 0.4-
1962 12 01	760	0.5- 0.6+	1998 12 22	704	0.5+ 0.4+	2000 02 07	704	0.1- 0.2-
1976 10 24	809	0.0 0.7-	1998 12 22	704	0.0 0.3+	2000 02 07	704	0.2+ 0.1+
1976 10 24	809	0.3+ 0.8-	1998 12 22	704	0.6+ 0.2+	2000 02 07	704	0.3+ 0.2-
1984 09 21	010	0.2+ 0.8-	1998 12 22	704	0.5+ 0.5+	2000 02 07	704	0.4+ 0.3+
1989 12 28	511	(0.3+ 3.4-)	1998 12 22	704	0.8+ 0.0	2000 02 29	704	0.1- 0.3+
1989 12 28	511	(1.6+ 3.1-)	1999 01 20	732	1.2- 1.9-	2000 02 29	704	0.4- 0.2-
1989 12 28	511	(2.2+ 3.1-)	1999 01 20	732	0.6- 1.1-	2000 02 29	704	0.1+ 0.7+
1993 09 17	809	0.1+ 1.5+	1999 01 20	732	1.1- 1.7-	2000 02 29	704	0.1+ 0.7+
1993 09 17	809	1.0- 1.0+	1999 01 21	732	0.1- 1.3-	2000 03 03	704	0.2+ 0.3+
1993 09 17	809	1.2- 1.0+	1999 01 21	732	0.5- 1.2-	2000 03 03	704	0.2- 0.4+
1993 09 18	809	1.7+ 1.4+	1999 01 21	732	0.4- 0.9-	2000 03 03	704	0.3+ 0.6+
1993 09 18	809	0.5+ 1.1+	2000 02 02	704	0.2- 0.6+	2000 03 03	704	0.1- 0.8+
1993 09 18	809	0.1- 0.9+	2000 02 02	704	0.7+ 0.5-	2000 03 03	704	0.1- 0.7+
1993 09 18	400	0.3+ 0.1+	2000 02 02	704	0.3+ 0.3+	2000 03 04	704	0.3+ 0.3+
1993 09 18	400	1.9- 0.9+	2000 02 02	704	0.0 0.1+	2000 03 04	704	0.2- 0.2+
1993 10 11	400	0.3+ 0.4+	2000 02 02	704	0.0 0.1-	2000 03 04	704	0.3+ 0.2-
1993 10 11	400	0.7+ 1.6+	2000 02 05	704	0.5+ 0.9+	2000 03 04	704	0.2+ 0.0
1993 10 12	675	0.2+ 0.6-	2000 02 05	704	0.3+ 0.7+	2000 03 04	704	0.2- 0.3+
1993 10 15	400	1.0- 0.5+	2000 02 05	704	0.4- 0.5+	2000 03 11	704	0.2+ 0.3+
1993 10 15	400	1.1- 0.6+	2000 02 06	704	0.2- 0.4+	2000 03 11	704	0.1+ 0.4+
1998 11 01	689	0.4- 0.9-	2000 02 06	704	0.4+ 1.0+	2000 03 11	704	0.1+ 0.7+
1998 12 15	704	1.3+ 0.2+	2000 02 06	704	0.7- 1.3+	2000 03 11	704	0.2+ 0.7+
1998 12 15	704	0.1+ 0.2+	2000 02 06	704	1.0+ 0.9+	2000 03 11	704	0.2+ 1.0+

(14007)* 1993 TH₁₄ = 1983 CJ₄ = 1989 UV₅ = 1996 HF₂

Discovered 1993 Oct. 9 by E. W. Elst at the European Southern Observatory.

Id. S. Nakano (*MPC* 27311)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 328.93475		(2000.0)		P		Q	
<i>n</i>	0.23634335	ω	68.66579	-0.69519705	+0.71840851		
<i>a</i>	2.5908392	Ω	157.23458	-0.68058061	-0.64696202		
<i>e</i>	0.1929011	<i>i</i>	3.59972	-0.23132464	-0.25559609		
<i>P</i>	4.17	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

1983 02 14	381	0.1- 0.4-	1996 06 18	689	0.4+ 0.8-	2000 02 08	704	0.3+ 0.5-
1989 10 30	807	0.1+ 0.6+	1996 06 19	689	0.7+ 1.7-	2000 02 08	704	0.1- 0.4-
1993 10 09	809	(3.5+ 3.9+)	1998 12 15	704	0.4- 0.6-	2000 02 08	704	0.4+ 0.5-
1993 10 09	809	(2.8+ 3.5+)	1998 12 15	704	0.2+ 1.6-	2000 02 11	704	1.0+ 1.0+
1993 10 09	809	(2.4+ 3.4+)	1998 12 15	704	0.5+ 0.4-	2000 02 11	704	1.3- 0.6+
1993 10 11	809	(2.5+ 3.8+)	1998 12 15	704	0.6+ 0.0	2000 02 11	704	1.1+ 0.5+
1993 10 11	809	(1.8+ 4.4+)	1998 12 15	704	(1.2- 2.5-)	2000 03 01	703	0.1- 0.4-
1993 10 11	809	(1.1+ 3.4+)	1998 12 22	704	0.2- 0.5+	2000 03 01	703	0.1- 0.6-
1993 10 20	809	(0.9+ 4.1+)	1998 12 22	704	0.3+ 0.5-	2000 03 01	703	0.3- 0.4-
1993 10 20	809	(0.6+ 3.2+)	1998 12 22	704	0.7- 1.7-	2000 03 01	703	0.2- 0.4-
1993 10 20	809	(0.4- 4.0+)	1998 12 22	704	(0.6- 2.5-)	2000 03 08	704	0.7+ 0.7-
1996 04 24	358	0.7- 0.4-	1999 11 05	703	1.6- 0.8-	2000 03 08	704	0.1- 0.2-
1996 04 24	358	0.2- 0.2-	1999 11 05	703	0.7+ 1.0+	2000 03 08	704	0.3+ 0.3+
1996 04 27	358	0.3- 0.5-	1999 11 05	703	1.1+ 1.4+	2000 03 08	704	0.2+ 0.4+
1996 04 27	358	0.0 1.3-	1999 11 05	703	0.8+ 0.2+	2000 03 08	704	1.1- 1.2+
1996 05 13	358	0.4- 0.8+	2000 01 11	699	0.7- 0.2-	2000 03 10	704	1.0+ 0.7-
1996 05 13	358	1.1- 0.1+	2000 01 11	699	0.9- 0.0	2000 03 10	704	0.6+ 0.4+
1996 05 14	358	0.4- 0.4-	2000 01 11	699	0.6- 0.2-	2000 03 10	704	0.6+ 0.3+
1996 05 14	358	0.3+ 0.3+	2000 02 08	704	0.3- 0.2-	2000 03 10	704	0.9+ 0.9+
1996 06 17	689	0.6+ 0.3-	2000 02 08	704	0.1+ 0.2-	2000 03 10	704	1.1- 1.4+

2000 MAR. 20

M.P.C. 39053

(14008)* 1993 TD₁₇ = 1996 GJ₇

Discovered 1993 Oct. 9 by E. W. Elst at the European Southern Observatory.

Id. A. Gnädig (*MPC* 32934)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams		Q	
<i>M</i>	222.60318		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.21298770	ω	199.42413	+0.29513050		+0.95495192	
<i>a</i>	2.7769392	Ω	87.75086	-0.87245118		+0.28260202	
<i>e</i>	0.0405579	<i>i</i>	1.78136	-0.38952141		+0.09057004	
<i>P</i>	4.63	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 10 09	809	1.0+	0.1+	1998 11 23	691	0.9-	0.2-	2000 02 08	704	0.6-	0.1+
1993 10 09	809	0.9+	0.5-	1998 11 27	691	0.1+	0.3-	2000 02 08	704	0.0	0.5-
1993 10 09	809	0.3-	0.5-	1998 11 27	691	(2.2-	3.2+)	2000 02 08	704	0.5-	0.0
1993 10 11	809	(3.8+	0.5+)	1998 12 15	910	0.4-	0.7+	2000 02 11	704	0.2+	1.0+
1993 10 11	809	(2.6+	0.3+)	1998 12 15	910	0.3-	0.7+	2000 02 11	704	1.1+	0.9-
1993 10 11	809	(2.5+	0.4+)	1998 12 15	910	0.3-	0.6+	2000 02 11	704	0.3-	0.1+
1993 10 20	809	0.8+	0.0	1998 12 21	910	0.3-	1.0+	2000 02 11	704	0.5+	0.3+
1993 10 20	809	0.9+	0.5-	1998 12 21	910	0.6-	0.8+	2000 02 11	704	0.3+	0.3-
1993 10 20	809	0.2+	0.0	1998 12 21	910	0.4-	0.2+	2000 02 11	120	1.4-	0.1+
1995 01 28	691	0.5-	0.3-	2000 02 03	704	0.5+	0.6-	2000 02 11	120	1.4-	0.2-
1995 01 28	691	0.6-	0.8-	2000 02 03	704	1.0+	0.2-	2000 02 11	120	0.6-	0.3-
1995 01 28	691	0.5-	0.7-	2000 02 03	704	0.0	0.8-	2000 02 12	120	0.3+	0.1-
1996 04 12	691	0.3-	0.2+	2000 02 03	704	0.7+	0.4+	2000 02 12	120	0.1-	0.3+
1996 04 12	691	0.1-	0.2+	2000 02 03	704	0.1+	0.3+	2000 02 29	704	0.1+	0.4-
1996 04 12	691	0.2-	0.3+	2000 02 06	703	1.4-	0.7+	2000 02 29	704	0.2+	0.5-
1996 04 19	691	0.4-	0.2-	2000 02 06	703	1.2+	0.4+	2000 02 29	704	0.4+	0.5-
1996 04 19	691	0.5-	0.0	2000 02 06	703	0.7+	0.4+	2000 02 29	704	0.5+	0.3+
1996 04 19	691	0.4-	0.1-	2000 02 06	703	0.1+	0.0	2000 02 29	704	0.8+	0.3-
1998 11 15	691	0.2+	0.5-	2000 02 07	691	0.3+	0.1+	2000 03 03	704	0.2+	0.1+
1998 11 15	691	0.2+	0.2-	2000 02 07	691	0.4+	0.2+	2000 03 03	704	0.0	0.0
1998 11 15	691	0.3+	0.4-	2000 02 07	691	0.5+	0.0	2000 03 03	704	0.0	0.3-
1998 11 23	691	0.9-	0.3-	2000 02 08	704	0.6-	0.7-	2000 03 03	704	0.2+	0.1-
1998 11 23	691	1.0-	0.3-	2000 02 08	704	0.2+	0.0	2000 03 03	704	0.0	0.6+

(14009)* 1993 TQ₃₆ = 1998 VJ₂₉

Discovered 1993 Oct. 13 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 33238)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams		Q	
<i>M</i>	111.98959		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.21051130	ω	328.33774	+0.81439649		-0.55575968	
<i>a</i>	2.7986748	Ω	66.33083	+0.56320346		+0.68759788	
<i>e</i>	0.1376724	<i>i</i>	10.50610	+0.13985783		+0.46726901	
<i>P</i>	4.68	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1986 03 04	675	0.8-	0.3-	1998 11 10	704	0.4-	0.3-	1999 01 06	699	0.1+	0.4+
1993 09 18	675	0.7-	1.8+	1998 11 10	704	0.7-	0.1-	1999 02 02	699	0.2-	1.3+
1993 09 18	675	0.3-	1.1+	1998 11 10	704	0.1+	1.5+	1999 02 02	699	0.4-	0.4+
1993 09 20	675	1.1+	0.9-	1998 11 11	699	0.3+	0.2-	1999 02 02	699	0.2+	0.4+
1993 09 20	675	0.7-	0.4+	1998 11 11	704	0.1-	0.0	2000 02 03	704	0.1+	0.2+
1993 09 21	675	0.9-	1.3+	1998 11 11	699	0.2+	0.2-	2000 02 03	704	0.0	0.5+
1993 09 21	675	0.1-	1.1+	1998 11 11	704	0.8-	0.6+	2000 02 03	704	0.4-	0.8+
1993 09 22	675	1.3-	0.7+	1998 11 11	699	0.6+	0.0	2000 02 03	704	0.2-	0.7+
1993 09 22	675	0.8-	1.2+	1998 11 11	704	0.4-	0.1-	2000 02 14	704	0.1-	0.1+
1993 10 10	675	0.1+	1.2+	1998 11 11	704	0.5-	0.0	2000 02 14	704	0.1+	0.6+
1993 10 10	675	0.7-	1.1+	1998 11 18	704	0.3-	0.9+	2000 02 14	704	0.3+	1.1+
1993 10 13	675	1.7+	1.9-	1998 11 18	704	1.7+	0.5-	2000 02 14	704	0.2+	0.6+
1993 10 13	675	1.0+	1.6-	1998 11 18	704	(2.7+	1.9-)	2000 02 14	704	0.1-	0.1-
1993 10 15	675	0.5-	0.0	1998 11 18	704	(2.6+	2.3-)	2000 03 03	608	0.5+	0.8-
1993 10 15	675	0.1+	1.5-	1998 11 18	704	(1.5+	2.8-)	2000 03 03	608	0.4+	0.8+
1996 05 10	691	1.4+	0.4-	1998 11 21	704	0.3-	0.4-	2000 03 03	608	0.6+	0.2-
1996 05 10	691	0.8+	0.0	1998 11 21	704	(1.6-	2.7-)	2000 03 04	704	0.1-	0.0
1996 05 10	691	1.0+	0.2+	1998 11 21	704	1.6-	1.3+	2000 03 04	704	0.2+	0.0
1997 08 02	566	1.6-	0.1-	1998 11 21	704	(1.1-	2.4+)	2000 03 04	704	0.3-	0.1-

1997 08 02	566	0.2-	0.4+	1998 11 24	699	0.3+	0.1-	2000 03 04	704	0.4-	0.1+
1997 08 02	566	0.0	0.5+	1998 11 24	699	1.0+	0.1-	2000 03 04	704	0.2-	0.1+
1998 08 31	704	0.7-	0.2-	1998 11 24	699	1.0+	0.4-	2000 03 12	704	0.1+	0.0
1998 08 31	704	(2.3-	0.0)	1998 12 08	699	0.6+	1.2-	2000 03 12	704	0.1-	0.5+
1998 08 31	704	(0.9+	2.1-)	1998 12 08	699	0.1+	1.0-	2000 03 12	704	0.2+	0.3+
1998 08 31	704	0.7+	0.4+	1998 12 08	699	0.6+	1.1-	2000 03 12	704	0.1-	0.3+
1998 08 31	704	(0.4-	2.3+)	1999 01 06	699	0.1+	0.2+	2000 03 12	704	0.2+	0.1+
1998 11 10	704	0.4-	0.4-	1999 01 06	699	0.2+	0.3-				

(14010)* 1993 UL = 1996 HT₂₁

Discovered 1993 Oct. 16 by K. Endate and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 27312)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams		Q	
<i>M</i>	210.32910		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.22582019	ω	131.14771	+0.83930537		+0.54007103	
<i>a</i>	2.6707149	Ω	196.47430	-0.54096829		+0.81823375	
<i>e</i>	0.1914812	<i>i</i>	12.70475	-0.05403519		+0.19701982	
<i>P</i>	4.36	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 04 28	691	0.6+	0.5-	1996 04 21	566	0.2-	0.0	2000 02 02	704	0.1+	0.7+
1992 04 28	691	0.4-	0.5+	1996 04 21	566	0.1+	0.2+	2000 02 02	704	0.1+	0.4+
1993 10 14	675	1.1-	1.0+	1996 04 22	566	0.2+	0.0	2000 02 02	704	(0.1+	2.1+)
1993 10 14	675	1.8-	1.7+	1996 04 22	566	0.4+	0.1-	2000 02 08	704	1.6+	0.4+
1993 10 16	400	1.0+	0.9+	1996 04 22	566	0.2-	0.0	2000 02 08	704	0.1-	0.7-
1993 10 16	400	0.4+	0.9+	1997 08 26	563	0.8+	0.1-	2000 02 08	704	1.1+	1.7-
1993 10 20	400	0.5-	0.5-	1997 08 26	563	0.4+	0.2-	2000 02 08	704	0.2+	0.7-
1993 10 20	400	(3.8-	3.8-)	1997 08 27	563	0.9+	0.2-	2000 02 08	704	0.5-	0.1+
1993 11 11	400	(2.2+	2.5-)	1997 08 27	563	0.3-	0.4-	2000 03 01	703	0.7-	0.4+
1993 11 11	400	1.7+	1.6-	1997 08 27	563	0.6-	0.3-	2000 03 01	703	1.1-	1.0+
1993 11 11	033	0.1-	0.1+	1997 08 27	563	0.8-	0.4-	2000 03 01	703	0.1-	0.1-
1993 11 11	033	0.3+	0.6-	1998 12 15	704	1.3+	0.5-	2000 03 01	703	0.3-	1.1-
1993 11 12	033	0.2+	0.4-	1998 12 15	704	1.6-	1.4-	2000 03 08	704	0.5+	0.2+
1996 04 20	566	0.1-	0.0	1998 12 15	704	(0.0	3.6-)	2000 03 08	704	0.0	1.4+
1996 04 20	566	0.2-	0.2-	1998 12 15	704	(1.6-	2.5-)	2000 03 08	704	0.2-	1.0-
1996 04 20	566	0.8-	0.3-	2000 02 02	704	0.2-	1.0+	2000 03 08	704	0.1-	0.2+
1996 04 21	566	0.1+	0.2-	2000 02 02	704	0.2+	0.2+	2000 03 08	704	0.3+	0.0

(14011)* 1993 US = 1993 TD₂₃ = 1953 RG₂ = 1996 FB₂₀

Discovered 1993 Oct. 22 by T. Urata at the Nihondaira Observatory.

Id. G. V. Williams (*MPC* 28589), S. Nakano (d, *MPC* 24886; *MPC* 30662),T. Urata (*MPC* 30662)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano		Q	
<i>M</i>	198.09208		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.22345900	ω	169.43651	+0.91459165		+0.40430990	
<i>a</i>	2.6894955	Ω	166.70814	-0.37333566		+0.85132422	
<i>e</i>	0.0937715	<i>i</i>	1.85899	-0.15537892		+0.33433603	
<i>P</i>	4.41	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1953 09 06	675	0.1+	0.3+	1994 12 28	691	0.1-	0.1+	1998 12 19	385	0.9+	1.3-
1953 09 06	675	0.0	0.1-	1996 03 24	809	0.2+	1.2+	1998 12 22	704	0.7-	0.0
1993 10 09	809	(1.4-	3.4-)	1996 03 24	809	0.7+	1.3+	1998 12 22	704	(1.1+	2.6-)
1993 10 09	809	(1.6-	3.4-)	1996 03 24	809	0.2+	0.9+	1998 12 22	704	1.6-	0.1+
1993 10 09	809	(1.7-	3.3-)	1996 03 26	809	(2.5+	1.9-)	1998 12 22	704	0.2+	0.6+

1993 10 22	809	0.6−	1.2−	1996 04 23	566	0.1−	1.7−	2000 03 08	732	0.1+	0.5+
1993 10 22	385	0.2+	0.4+	1997 09 02	566	0.2−	1.3+	2000 03 08	732	0.5+	1.7+
1993 10 22	385	0.1+	0.6+	1997 09 02	566	0.1−	0.7+	2000 03 08	732	0.1−	0.6+
1993 10 22	385	0.6−	0.3−	1997 09 02	566	0.5−	1.7+	2000 03 10	732	0.4+	0.2+
1993 10 23	385	0.1−	0.0	1997 09 02	566	0.2−	0.7+	2000 03 10	732	0.8+	0.9+
1993 10 23	385	1.3+	0.3+	1997 09 02	566	0.1+	1.1+	2000 03 10	732	1.2−	0.5−
1993 10 23	385	0.1−	1.1+	1997 09 02	566	0.2+	0.7+	2000 03 11	704	0.1+	0.8+
1993 10 24	385	0.4−	0.3+	1997 09 03	385	0.0	0.2−	2000 03 11	699	0.9−	0.5+
1993 10 24	385	0.1+	0.0	1997 09 03	385	0.9−	0.4+	2000 03 11	704	0.2+	0.5+
1993 10 24	385	0.4−	0.2+	1997 09 04	385	0.2−	0.5+	2000 03 11	704	0.4+	0.2+
1993 11 04	385	1.0−	0.7−	1997 09 04	385	0.7+	0.1+	2000 03 11	699	0.5−	1.2+
1993 11 04	385	0.6−	0.6−	1997 09 04	385	0.6−	0.1+	2000 03 11	704	0.2+	1.0+
1993 11 04	385	1.0−	0.9−	1998 12 16	704	0.7+	0.9+	2000 03 11	699	0.5−	0.1−
1993 11 05	385	1.2−	0.3+	1998 12 16	704	0.6+	0.6−	2000 03 11	704	0.1+	0.7+
1993 11 05	385	0.4+	0.3−	1998 12 16	704	2.1+	0.1+	2000 03 11	699	0.6−	0.8−
1993 11 05	385	0.3+	0.4+	1998 12 16	704	1.4+	2.0+				
1994 12 28	691	0.0	0.0	1998 12 19	385	0.9−	1.1−				

(14012)* 1993 XG = 1996 LV₂ = 1998 WB₂₀

Discovered 1993 Dec. 6 by T. Seki at Geisei.

Id. G. V. Williams (*MPC* 33486)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	130.23234		(2000.0)	P	Q
<i>n</i>	0.20284068	ω	295.25707	+0.80672266	−0.54159572
<i>a</i>	2.8687939	Ω	98.37248	+0.59057348	+0.72502872
<i>e</i>	0.1234434	<i>i</i>	13.82282	+0.02053075	+0.42544967
<i>P</i>	4.86	<i>H</i>	12.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1993 12 06	372	(5.0−	3.4+)	1998 12 08	426	0.1−	0.1−	1999 03 11	704	0.7+	1.3+
1993 12 08	372	0.3+	0.3+	1998 12 16	704	0.1−	0.4−	1999 03 11	704	1.9+	1.4−
1993 12 12	372	(2.0−	2.7+)	1998 12 16	704	0.8−	1.2−	1999 03 11	704	0.1−	1.6+
1993 12 14	372	0.6−	0.2+	1998 12 16	704	0.0	1.2−	1999 03 11	704	0.9+	0.7−
1996 06 11	691	0.0	0.5−	1998 12 16	704	0.9−	0.9−	2000 01 07	704	0.2+	0.2−
1996 06 11	691	0.4−	0.4−	1998 12 18	426	0.1+	0.1+	2000 01 07	704	0.7−	0.2−
1996 06 11	691	0.6−	0.2−	1998 12 18	426	0.1−	0.1−	2000 01 07	704	0.2−	0.1+
1996 06 22	691	0.2+	0.3−	1998 12 18	426	0.1−	0.1+	2000 01 07	704	0.2−	0.5+
1996 06 22	691	0.3+	0.3−	1998 12 20	426	0.0	0.1−	2000 01 07	704	0.1+	0.5+
1996 06 22	691	0.1−	0.5−	1998 12 20	426	0.2−	0.0	2000 02 04	704	(4.2+ 1.3−)	
1998 11 23	704	1.4+	1.1−	1998 12 22	704	0.8+	0.9−	2000 02 04	704	(2.9+ 0.5+)	
1998 11 23	704	0.3+	0.7+	1998 12 22	704	0.6−	0.7−	2000 02 04	704	(2.8+ 0.0)	
1998 11 23	704	1.8+	1.1+	1998 12 22	704	1.5+	0.6−	2000 02 04	704	0.4+	0.6+
1998 11 23	704	1.7−	0.5−	1998 12 22	704	1.1+	0.8−	2000 03 05	704	0.1−	0.3−
1998 11 23	704	0.5−	1.1+	1998 12 22	704	0.1+	0.5−	2000 03 05	704	0.5+	0.1−
1998 11 30	426	0.1−	0.8+	1999 01 13	761	0.1+	0.4+	2000 03 05	704	0.5+	0.2+
1998 11 30	426	0.0	0.3+	1999 01 13	761	0.5−	0.7+	2000 03 05	704	0.2+	0.2−
1998 11 30	426	0.7−	0.3+	1999 01 18	704	0.2−	0.4−	2000 03 05	704	0.4+	0.2+
1998 12 01	426	0.8−	0.0	1999 01 18	704	0.3−	0.3−	2000 03 12	704	0.2−	0.0
1998 12 01	426	0.1−	0.2−	1999 01 18	704	0.8+	1.5+	2000 03 12	704	0.3−	0.2+
1998 12 01	426	0.4−	0.1+	1999 01 18	704	0.6−	0.0	2000 03 12	704	0.4−	0.1+
1998 12 08	426	0.0	0.0	1999 01 18	704	0.5−	0.0	2000 03 12	704	0.4−	0.1+
1998 12 08	426	0.1+	0.0	1999 03 11	704	(2.1−	1.5−)				

(14013)* 1993 YF = 1976 UJ₁₅ = 1982 YJ₄

Discovered 1993 Dec. 17 by T. Kobayashi at Oizumi.

Id. T. Kobayashi (*MPC* 23241)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	69.02532		(2000.0)	P	Q
<i>n</i>	0.17903212	ω	306.78665	+0.49728920	−0.86660970
<i>a</i>	3.1178036	Ω	113.34379	+0.80958124	+0.44648051
<i>e</i>	0.1710301	<i>i</i>	2.56708	+0.31190009	+0.22280659
<i>P</i>	5.51	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1976 10 22	381	1.3−	1.0+	1998 11 10	704	0.2+	0.3−	2000 02 11	704	0.2−	1.1+
1976 10 22	381	0.4−	1.0+	1998 11 10	704	1.1+	0.1−	2000 02 11	704	0.5+	0.4−
1982 12 23	095	1.8+	0.2+	1998 11 10	704	0.1+	0.6+	2000 02 25	703	0.0	0.3+
1993 12 17	411	0.6−	1.1−	1998 11 10	704	0.8−	1.6+	2000 02 25	703	0.5−	0.4+
1993 12 17	411	0.6−	1.4−	1998 11 11	704	0.0	1.3−	2000 02 25	703	1.8−	0.1−
1993 12 18	411	0.1−	0.4−	1998 11 11	704	0.8+	0.7−	2000 02 25	703	0.9−	0.0
1993 12 18	411	0.8+	0.9−	1998 11 11	704	1.1+	2.0+	2000 02 29	704	1.4−	0.5−
1993 12 18	411	0.0	0.3−	1998 11 11	704	2.1+	0.7−	2000 02 29	704	0.5−	1.0+
1993 12 21	411	0.0	0.1−	1998 11 11	704	1.5+	0.4−	2000 02 29	704	0.7−	0.7+
1993 12 21	411	0.4+	0.0	2000 01 07	704	0.1−	0.5−	2000 03 03	704	1.2−	1.1−
1993 12 21	411	0.0	0.5+	2000 01 07	704	1.9+	0.4−	2000 03 03	704	1.3+	0.4−
1994 01 02	411	0.2−	1.1−	2000 01 07	704	1.0+	0.4−	2000 03 03	704	0.9+	0.5−
1994 01 02	411	0.7−	0.3−	2000 01 07	704	0.5+	0.0	2000 03 03	704	0.6+	0.7−
1994 01 02	411	1.2−	0.7−	2000 01 07	704	0.2−	0.1+	2000 03 03	704	0.5+	1.0−
1994 01 19	411	0.3−	1.4+	2000 02 04	704	0.1+	0.3−	2000 03 05	704	0.3−	1.3−
1994 01 19	411	0.4+	1.2+	2000 02 04	704	0.5+	0.2−	2000 03 05	704	0.5−	0.3−
1994 01 19	411	0.1−	1.2+	2000 02 04	704	0.6+	0.3+	2000 03 05	704	0.1−	0.9+
1998 10 29	704	0.6−	0.0	2000 02 04	704	1.0+	0.2+	2000 03 05	704	0.0	0.1+
1998 10 29	704	0.3−	0.2−	2000 02 11	704	0.8−	0.7+	2000 03 08	704	0.1+	0.2+
1998 10 29	704	1.0−	0.5−	2000 02 11	704	0.1+	1.7+	2000 03 08	704	0.1+	0.4+
1998 10 29	704	0.8−	0.3−	2000 02 11	704	0.5+	0.3+	2000 03 08	704	0.1−	0.6+
1998 10 29	704	1.0−	0.3−	2000 02 11	704	0.1+	0.3−	2000 03 08	704	0.0	0.7+
1998 11 10	704	1.2−	0.6+	2000 02 11	704	0.3+	0.2−	2000 03 08	704	0.1−	0.8+

(14014)* 1994 AL₁₆ = 1989 EF₅

Discovered 1994 Jan. 14 by F. Börngen at Tautenburg.

Id. G. V. Williams (*MPC* 23676)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	70.05880		(2000.0)	P	Q
<i>n</i>	0.18425298	ω	283.09817	−0.23143103	−0.97285094
<i>a</i>	3.0586259	Ω	180.28738	+0.94553588	−0.22472603
<i>e</i>	0.0626929	<i>i</i>	9.81833	+0.22891389	−0.05531065
<i>P</i>	5.35	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1989 03 02	413	0.5−	0.7+	1999 01 18	704	0.4+	0.0	2000 03 10	704	0.6+	0.0
1989 03 02	413	0.0	0.5+	1999 01 18	704	1.0−	1.7+	2000 03 10	704	0.2−	0.3+
1989 03 04	413	0.8+	0.1+	1999 01 18	704	(2.2+ 0.9+)		2000 03 10	704	0.3+	0.7+
1994 01 14	033	(0.2−	3.0−)	1999 01 18	704	1.0+	0.0	2000 03 11	704	0.2−	0.2−
1994 01 15	033	0.4−	0.8−	1999 01 18	704	0.5−	1.5−	2000 03 11	704	0.8+	0.1+
1994 01 15	033	0.3−	0.6−	1999 01 21	113	0.0	0.5+	2000 03 11	704	(0.8+ 2.7+)	
1994 02 16	033	0.2−	0.3+	1999 01 21	113	0.4−	0.7+	2000 03 11	704	0.2+	0.7+
1994 02 16	033	0.5+	0.2+	1999 02 10	113	0.4+	0.1+	2000 03 11	704	0.7+	1.0+
1994 02 17	033	0.1+	0.8−	1999 02 10	113	0.5+	0.2+	2000 03 12	691	0.4−	0.7−
1998 12 17	113	0.1−	1.7−	1999 02 10	113	0.4+	0.1−	2000 03 12	691	0.5−	0.6−
1998 12 17	113	1.2−	0.1+	1999 02 10	113	0.3+	0.9+	2000 03 12	691	0.5−	0.7−
1998 12 22	704	0.4+	0.6−	2000 02 08	704	0.1−	0.9−	2000 03 12	151	0.8−	1.2−
1998 12 22	704	(0.5+ 2.4−)		2000 02 08	704	0.6−	0.1+	2000 03 13	151	(0.7+ 3.4−)	
1998 12 22	704	0.1+	0.4−	2000 02 08	704	0.5−	0.7+	2000 03 13	151	(0.3− 2.3−)	
1998 12 22	704	(1.9+ 2.5−)		2000 03 08	704	0.3+	0.2−	2000 03 13	151	(1.4− 2.3−)	
1998 12 29	113	0.6+	0.6+	2000 03 08	704	0.1+	0.1−	2000 03 14	703	0.1+	0.0
1998 12 30	113	1.6−	0.2+	2000 03 08	704	0.1−	0.2+	2000 03 14	703	(1.6− 2.0+)	
1998 12 30	113	0.7+	0.4+	2000 03 08	704	0.1−	0.2+	2000 03 14	703	0.6+	0.5+
1999 01 05	113	0.3−	0.1−	2000 03 08	704	0.2+	0.2+	2000 03 14	703	0.7−	0.9−
1999 01 05	113	0.2+	0.4+	2000 03 10	704	0.3+	0.1−				
1999 01 05	113	0.3+	0.1−	2000 03 10	704	0.2+	0.2+				

2000 MAR. 20

M.P.C. 39055

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	45.29912	(2000.0)	P	Q
<i>n</i>	0.17590501	ω	306.24307	-0.23448211
<i>a</i>	3.1546456	Ω	157.21868	+0.92188166
<i>e</i>	0.0879599	<i>i</i>	5.95614	+0.30846775
<i>P</i>	5.60	<i>H</i>	13.1	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1981 10 24	675	0.1+	0.4+	1999 12 05	704	1.0-	0.3+	2000 02 11	704	0.4+	0.0
1981 10 25	675	0.2+	0.5+	1999 12 05	703	0.8-	0.3+	2000 02 11	704	0.4+	0.5-
1981 10 26	675	0.8-	0.4-	1999 12 05	703	1.0-	0.8-	2000 02 11	704	0.3-	0.2-
1994 01 16	010	0.8+	0.4-	1999 12 05	704	0.4-	0.7+	2000 02 11	691	0.5-	0.5-
1994 01 16	010	0.4+	0.4-	1999 12 05	703	0.4-	0.4+	2000 02 11	691	0.5-	0.7-
1994 01 17	010	0.7+	0.1-	2000 02 01	703	0.3-	1.0+	2000 02 11	691	0.5-	0.6-
1994 01 17	010	0.4+	0.2-	2000 02 01	703	0.4-	0.5+	2000 02 29	704	0.0	0.4+
1994 01 17	010	0.1+	0.5-	2000 02 01	703	0.2+	0.6+	2000 02 29	704	0.2-	0.2+
1994 01 30	010	(4.5- 1.0-)		2000 02 01	703	0.3-	0.5+	2000 02 29	704	0.0	0.5+
1994 01 30	010	(4.3- 2.2-)		2000 02 06	704	0.4+	0.1-	2000 02 29	704	0.1+	0.4+
1994 01 31	010	1.0-	0.2-	2000 02 06	704	0.0	0.2-	2000 03 03	704	0.2+	0.1+
1994 01 31	010	1.1-	0.3-	2000 02 06	704	0.6+	0.1+	2000 03 03	704	0.2+	0.3+
1994 01 31	010	0.2+	1.5-	2000 02 06	704	1.3+	0.6-	2000 03 03	704	0.1+	0.1+
1994 02 13	691	(3.6- 0.3+)		2000 02 07	691	0.0	0.6-	2000 03 03	704	0.3+	0.0
1994 02 13	691	(3.3- 0.2+)		2000 02 07	691	0.3-	0.7-	2000 03 03	704	0.3+	0.5+
1994 02 13	691	(3.4- 0.5+)		2000 02 07	691	0.1+	0.0	2000 03 11	704	0.1-	0.2+
1998 11 11	699	0.4-	0.8+	2000 02 08	704	0.1+	0.6+	2000 03 11	704	0.0	0.2+
1998 11 11	699	0.3+	0.7+	2000 02 08	704	0.6+	0.5+	2000 03 11	704	0.1-	0.4+
1998 11 11	699	0.2+	0.1+	2000 02 08	704	0.5+	0.2+	2000 03 11	699	0.2-	0.1+
1998 11 23	699	0.2+	0.1+	2000 02 08	704	0.9+	0.2+	2000 03 11	704	0.1-	0.5+
1998 11 23	699	0.0	0.2+	2000 02 08	704	0.3+	0.1+	2000 03 11	704	(4.9- 0.2+)	
1998 11 23	699	0.3-	0.1-	2000 02 10	732	0.1-	0.1-	2000 03 11	699	0.1-	0.5+
1999 12 05	704	0.8-	0.5+	2000 02 10	732	0.3+	0.6-	2000 03 11	699	0.6-	0.2+
1999 12 05	704	1.0-	0.1-	2000 02 10	732	0.9+	0.4-	2000 03 11	699	0.1-	0.6+
1999 12 05	704	0.5-	0.7-	2000 02 11	704	0.7+	0.1-				
1999 12 05	703	1.1-	0.4+	2000 02 11	704	0.7+	0.4-				

(14016)* 1994 BJ₄ = 1996 OC

Discovered 1994 Jan. 16 by E. W. Elst and C. Pollas at Caussols.

Id. G. V. Williams (*MPC* 27717)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	328.76250	(2000.0)	P	Q
<i>n</i>	0.18307241	ω	290.26679	-0.88599415
<i>a</i>	3.0717612	Ω	276.08058	-0.35136836
<i>e</i>	0.0450478	<i>i</i>	8.44979	-0.30257997
<i>P</i>	5.38	<i>H</i>	13.1	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1991 08 08	675	1.2-	1.4+	1996 08 07	595	1.1+	0.3-	2000 01 10	704	0.6+	1.0+
1991 08 08	675	1.5-	0.5+	1996 08 08	595	0.0	0.4+	2000 01 10	704	0.8+	0.2+
1994 01 16	010	0.3+	1.0-	1996 08 09	595	0.6+	0.1+	2000 01 10	704	0.2+	1.8+
1994 01 16	010	0.8-	0.9-	1998 12 14	704	(0.2- 2.2+)		2000 02 07	704	0.1-	0.6+
1994 01 17	010	0.7+	0.3+	1998 12 14	704	0.7-	0.3+	2000 02 07	704	1.1-	0.2+
1994 01 17	010	0.0	0.0	1998 12 14	704	0.1+	0.5-	2000 02 07	704	0.9-	0.1+
1994 01 17	010	0.1-	1.3-	1998 12 14	704	0.9-	0.8-	2000 02 07	704	0.1-	0.3-
1994 01 31	010	(1.5- 2.2+)		1998 12 14	704	(2.9- 0.5-)		2000 03 09	704	0.1+	0.4-
1994 01 31	010	(2.9- 2.5+)		1998 12 17	704	0.0	1.2+	2000 03 09	704	0.1+	0.2-
1994 01 31	010	(3.0- 1.8+)		1998 12 17	704	0.7-	0.7+	2000 03 09	704	0.5-	0.0
1996 07 16	595	0.7-	0.5+	1998 12 17	704	(3.7- 5.0+)		2000 03 09	704	0.4-	0.1+
1996 07 16	595	0.4-	0.4+	1998 12 17	704	0.4+	1.7+	2000 03 09	704	0.4-	0.1+
1996 07 17	595	0.0	0.0	1999 01 16	704	1.6+	0.6+	2000 03 13	704	1.0+	0.5+
1996 07 17	595	0.7-	0.4-	1999 01 16	704	0.3-	0.2-	2000 03 13	704	0.4-	0.3+
1996 07 26	595	1.0-	0.5+	1999 01 16	704	(0.0 2.7+)		2000 03 13	704	0.7+	0.2+
1996 07 26	595	0.3+	0.3+	1999 01 16	704	0.9+	1.6+	2000 03 13	704	0.5+	0.4+
1996 07 26	595	0.1+	0.0	1999 01 16	704	(0.1+ 2.9+)		2000 03 13	704	0.6+	0.5+
1996 07 26	595	1.0+	0.8+	2000 01 10	704	0.2+	0.2+				
1996 08 06	595	0.9+	0.1-	2000 01 10	704	0.1+	0.1-				

(14017)* 1994 NS = 1988 TH₃ = 1988 TC₅ = 1988 VR₆ = 1991 PV₂₀

Discovered 1994 July 4 by Y. Shimizu and T. Urata at the Nachi-Katsuura

Observatory.

Id. T. Urata (*MPC* 23786)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	274.92652	(2000.0)	P	Q
<i>n</i>	0.30894352	ω	78.88413	+0.21697769
<i>a</i>	2.1671218	Ω	203.79608	-0.93390656
<i>e</i>	0.2396671	<i>i</i>	6.48284	-0.28414646
<i>P</i>	3.19	<i>H</i>	14.6	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1988 10 07	675	0.3-	0.6-	1994 08 07	801	0.2+	0.6-	2000 02 16	888	0.1+	0.1+
1988 10 07	675	0.5-	1.4-	1994 08 07	801	0.0	0.5-	2000 03 01	703	0.2+	0.3-
1988 10 13	675	1.0-	0.2+	1997 05 25	385	0.4+	1.0-	2000 03 01	703	0.0	0.1-
1988 10 13	399	1.6+	2.1-	1997 05 25	385	0.2+	0.7-	2000 03 01	703	0.0	0.2-
1988 10 13	399	(6.2+ 2.0+)		1997 06 05	385	0.4-	0.2-	2000 03 01	703	0.2+	0.3-
1988 10 13	399	(6.4+ 3.8+)		1997 06 05	385	1.2-	0.5+	2000 03 08	704	0.2-	0.0
1988 10 14	046	(2.9- 3.6-)		1998 11 23	385	0.6-	1.0-	2000 03 08	704	0.6-	0.6+
1988 10 14	046	(0.3+ 2.4-)		1998 11 23	385	0.1-	0.1+	2000 03 08	704	0.7-	0.2+
1988 11 03	033	0.3+	1.4+	1998 12 13	385	0.7+	0.2-	2000 03 08	704	0.4-	0.9-
1988 11 03	033	0.5-	0.2+	1998 12 13	385	0.6-	0.1-	2000 03 08	704	0.6-	0.1+
1988 11 04	033	0.9+	0.3-	1998 12 19	385	0.2+	0.1-	2000 03 12	858	0.2-	0.0
1991 08 07	675	0.9+	0.4-	1998 12 19	385	0.2+	0.1-	2000 03 12	858	0.2+	0.3-
1991 08 07	675	0.1+	0.4-	2000 02 08	704	0.2+	0.1-	2000 03 12	858	0.3+	0.0
1994 07 04	905	0.5-	0.6+	2000 02 08	704	0.8-	1.2+	2000 03 13	703	0.1+	0.5-
1994 07 04	905	2.0-	0.0	2000 02 08	704	0.0	0.2-	2000 03 13	703	0.1-	0.0
1994 07 10	905	0.8+	0.2+	2000 02 08	704	0.2-	0.6-	2000 03 13	703	0.5-	0.0
1994 07 10	905	0.6+	0.6+	2000 02 12	888	0.1+	0.8-	2000 03 13	703	0.0	0.2+
1994 07 11	905	0.1-	0.1+	2000 02 12	888	0.0	0.4-	2000 03 13	704	0.7+	1.0-
1994 07 11	905	1.2+	0.2-	2000 02 12	888	0.4+	0.5-	2000 03 13	704	(0.2- 2.4-)	
1994 07 31	905	0.2+	2.1-	2000 02 16	888	0.4+	0.4+	2000 03 13	704	0.1+	0.7-
1994 07 31	905	0.5-	0.7+	2000 02 16	888	0.8+	0.2+	2000 03 13	704	0.0	0.1-

(14018)* 1994 PM₁₄ = 1998 TZ₃₄

Discovered 1994 Aug. 10 by E. W. Elst at the European Southern

Observatory.

Id. A. Gnädig (*MPC* 33242), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	170.45616	(2000.0)	P	Q
<i>n</i>	0.26190649	ω	165.10783	+0.86435521
<i>a</i>	2.4193863	Ω	164.69681	-0.46480914
<i>e</i>	0.2247368	<i>i</i>	1.95896	-0.19194406
<i>P</i>	3.76	<i>H</i>	15.4	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1991 12 08	691	0.1-	0.1+	1998 10 14	699	0.2+	0.4+	2000 02 04	691	1.4+	0.2-
1991 12 08	691	0.5-	2.0+	1998 10 14	699	0.3+	0.1+	2000 02 04	691	0.2+	0.3-
1991 12 08	691	0.8+	0.7+	1998 10 20	699	0.5+	0.2-	2000 02 04	691	0.3-	0.4-
1994 08 10	809	0.9+	0.3-	1998 10 20	699	0.9-	0.2+	2000 02 08	691	0.0	0.7-
1994 08 10	809	0.5-	0.6-	1998 10 20	699	0.1+	0.9+	2000 02 08	691	0.0	0.8-
1994 08 10	809	1.0-	0.0	1998 11 10	704	0.0	0.1-	2000 02 08	691	0.3+	0.4-
1994 08 11	809	0.5+	0.0	1998 11 10	704	0.4+	0.7-	2000 03 03	704	0.7+	0.3+
1994 08 11	809	0.0	0.3-	1998 11 10	704	0.2+	0.2-	2000 03 03	704	0.2+	0.1-
1994 08 11	809	1.3-	0.9-	1998 11 10	704	1.1-	1.7-	2000 03 03	704	0.9-	0.1+
1994 09 03	809	(2.8+ 1.1+)		1998 11 11	704	1.1-	1.4+	2000 03 09	691	0.4-	0.2-
1994 09 03	809	(2.3+ 1.0+)		1998 11 11	704	0.7+	1.8-	2000 03 09	691	1.0-	0.0
1994 09 03	809	1.8+	1.2+	1998 11 11	704	0.0	0.0	2000 03 09	691	0.7-	0.0
1994 09 04	809	0.8+	0.0	1998 11 11	704	0.9+	0.0	2000 03 14	691	0.1-	0.3-
1994 09 04	809	0.3+	0.4-	1998 11 14	699	0.7-	0.2+	2000 03 14	691	0.3-	0.5-
1994 09 04	809	1.0-	0.5-	1998 11 14	699	0.5+	0.4-	2000 03 14	691	0.5-	1.1-
1998 10 14	699	0.7+	0.5+	1998 11 14	699	0.4-	0.0				

(14019)* 1994 PP₁₆ = 4859 P-L

Discovered 1994 Aug. 10 by E. W. Elst at the European Southern Observatory.

Id. A. Gnädig (*MPC* 33242)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams					
<i>M</i>	275.70819		(2000.0)	P		Q			
<i>n</i>	0.28842119	ω	136.01449	-0.03496133		+0.99929132			
<i>a</i>	2.2687393	Ω	131.97675	-0.92202647		-0.02686739			
<i>e</i>	0.1254522	<i>i</i>	1.07511	-0.38554493		-0.02636298			
<i>P</i>	3.42	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1960 09 24	675	0.0	1.2+	1998 11 24	704	0.0	0.7-	2000 03 03	704	0.4+	0.5+
1960 09 26	675	0.0	0.7-	1998 11 24	704	0.2-	0.2+	2000 03 03	704	0.3+	0.4+
1960 09 27	675	0.9+	0.5-	1998 11 24	704	0.7-	1.2+	2000 03 03	704	0.6+	0.1+
1960 09 28	675	0.5-	0.8-	1998 11 24	704	(1.2-	2.4+)	2000 03 03	704	0.5+	0.4+
1960 10 17	675	(9.6-	7.1+)	1998 11 24	704	(0.4+	3.4+)	2000 03 05	608	0.2+	1.3-
1994 08 10	809	0.7+	0.1+	1998 12 16	910	0.3+	0.2+	2000 03 05	608	0.5+	1.4-
1994 08 10	809	0.1+	0.1-	1998 12 16	910	0.1+	0.5+	2000 03 05	608	0.5+	1.2-
1994 08 10	809	0.1+	0.6+	1998 12 16	910	0.1+	0.4+	2000 03 08	704	0.4-	1.6+
1994 08 11	809	0.8-	1.6-	2000 02 11	120	(2.9-	1.2-)	2000 03 08	704	(2.3-	0.3+)
1994 08 11	809	(0.5-	2.2-)	2000 02 11	120	0.3-	2.0-	2000 03 08	704	1.8+	1.4+
1994 08 11	809	(1.4-	2.8-)	2000 02 11	120	0.8-	0.8-	2000 03 08	704	0.1+	0.9+
1994 09 03	809	0.2-	1.4+	2000 02 11	120	1.3-	0.8-	2000 03 11	704	0.1+	0.4+
1994 09 03	809	0.2-	1.9+	2000 02 13	120	1.3-	0.4+	2000 03 11	699	0.4-	0.1-
1994 09 03	809	(0.5-	2.1+)	2000 02 13	120	0.7-	0.4-	2000 03 11	704	0.2+	0.2+
1994 09 04	809	1.1-	1.9+	2000 02 13	120	0.3-	0.4-	2000 03 11	704	0.2+	0.3+
1994 09 04	809	(2.3-	0.8+)	2000 02 27	703	0.2+	1.0+	2000 03 11	699	0.1-	0.6+
1994 09 04	809	(2.4-	1.2+)	2000 02 27	703	0.4+	0.6+	2000 03 11	704	0.3+	0.7+
1998 11 23	691	0.0	0.1+	2000 02 27	703	0.2+	0.5+	2000 03 11	699	0.5-	0.3+
1998 11 23	691	0.1-	0.0	2000 02 27	703	0.2+	0.4+	2000 03 11	704	0.4+	0.7+
1998 11 23	691	0.1+	0.1+	2000 03 03	704	0.3+	0.3+	2000 03 11	699	0.1-	0.2+

(14020)* 1994 PE₁₈ = 1998 WD₁₀

Discovered 1994 Aug. 10 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 33242)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams					
<i>M</i>	241.56091		(2000.0)	P		Q			
<i>n</i>	0.28358510	ω	338.51098	+0.42683406		+0.90429703			
<i>a</i>	2.2944597	Ω	316.75482	-0.82805636		+0.38738892			
<i>e</i>	0.1520487	<i>i</i>	0.64547	-0.36350427		+0.17937866			
<i>P</i>	3.48	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1991 11 12	691	0.7-	0.1+	1994 09 04	809	1.1+	1.1+	2000 02 26	703	1.0+	0.2-
1991 11 12	691	0.5-	0.6+	1998 11 21	704	0.9+	0.2-	2000 02 26	703	0.1-	0.0
1991 11 12	691	0.7-	0.1-	1998 11 21	704	1.9+	1.7-	2000 02 26	703	1.4-	0.4-
1991 11 27	691	1.0+	0.1+	1998 11 21	704	1.0-	0.2+	2000 02 29	704	0.1+	0.2+
1991 11 27	691	0.1-	0.7+	1998 11 21	704	0.3-	0.8+	2000 02 29	704	1.1+	0.6+
1991 11 27	691	0.3+	1.3+	1998 11 21	704	0.2+	0.9-	2000 02 29	704	0.2-	0.2-
1994 08 10	809	0.3-	0.1-	1998 11 24	704	0.2+	0.4+	2000 02 29	704	0.8+	0.4+
1994 08 10	809	1.3-	0.1+	1998 11 24	704	1.0-	0.9-	2000 03 03	704	1.1-	0.1+
1994 08 10	809	1.7-	0.2-	1998 11 24	704	0.5-	0.7-	2000 03 03	704	0.5+	0.1+
1994 08 11	809	0.2+	0.2+	1998 11 24	704	(0.4+	3.1-)	2000 03 03	704	0.3+	0.6-
1994 08 11	809	0.6-	0.8-	1998 12 23	691	0.1+	0.4-	2000 03 03	704	0.2+	1.0-
1994 08 11	809	1.1-	0.3+	1998 12 23	691	0.1-	1.1+	2000 03 11	704	0.2+	0.2-
1994 08 12	809	0.7+	0.1+	1998 12 23	691	0.1+	0.6-	2000 03 11	704	0.1+	0.1+
1994 08 12	809	0.0	0.7-	2000 02 06	704	0.3+	0.8+	2000 03 11	704	0.1+	0.2-
1994 08 12	809	0.4-	0.6-	2000 02 06	704	1.2+	0.2+	2000 03 11	704	0.4+	0.3-
1994 09 03	809	0.5+	0.2+	2000 02 06	704	0.6+	0.9+	2000 03 11	704	0.6-	0.0
1994 09 03	809	0.0	0.0	2000 02 25	691	0.0	0.5-	2000 03 11	699	0.9-	1.0+
1994 09 03	809	0.5+	0.5+	2000 02 25	691	0.2-	0.4-	2000 03 11	699	0.4-	0.1+

1994 09 04	809	(2.2+	0.5+)	2000 02 25	691	0.1-	0.5-	2000 03 11	699	0.0	0.6+
1994 09 04	809	1.6+	0.8+	2000 02 26	703	0.1+	0.8+	2000 03 11	699	0.8-	0.4+

(14021)* 1994 PL₂₀ = 1995 YV₉ = 1998 SW₉₈

Discovered 1994 Aug. 12 by E. W. Elst at the European Southern Observatory.

Id. A. Gnädig (*MPC* 33243)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams					
<i>M</i>	21.82888		(2000.0)	P		Q			
<i>n</i>	0.26393336	ω	328.62621	-0.70732257		-0.70681614			
<i>a</i>	2.4069839	Ω	166.38180	+0.65726790		-0.66295337			
<i>e</i>	0.1126876	<i>i</i>	2.50292	+0.26018012		-0.24678688			
<i>P</i>	3.73	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

1994 08 12	809	0.3+	1.5+	1998 09 26	704	0.0	0.3+	2000 02 26	703	0.1-	0.5+
1994 08 12	809	1.3-	1.1+	1998 09 27	704	0.3-	0.0	2000 02 26	703	0.5-	0.1+
1994 08 12	809	0.6-	1.9+	1998 09 27	704	0.3+	1.9+	2000 02 29	704	0.7+	0.4+
1994 08 13	809	0.1+	1.2+	1998 09 27	704	0.9+	0.9+	2000 02 29	704	0.9+	0.1-
1994 08 13	809	(1.0+	2.4+)	1998 09 27	704	1.6+	0.6-	2000 02 29	704	0.3+	0.5+
1994 08 13	809	0.6-	1.3+	1998 10 01	691	0.7-	0.1-	2000 02 29	704	0.2+	0.4+
1994 09 05	809	(5.5-	3.0-)	1998 10 01	691	0.8-	0.3+	2000 03 03	704	0.2-	0.0
1994 09 05	809	(4.9-	2.8-)	1998 10 01	691	0.9-	0.2-	2000 03 03	704	0.2-	0.4+
1994 09 05	809	(4.9-	1.6-)	1999 12 05	704	0.6+	1.6-	2000 03 03	704	0.2-	0.4+
1994 09 06	809	(2.6-	0.6+)	1999 12 05	704	0.2+	1.6-	2000 03 03	704	0.3-	0.3+
1994 09 06	809	(4.0-	0.9+)	1999 12 05	704	0.1-	0.2+	2000 03 03	704	0.0	0.5+
1994 09 06	809	(4.4-	1.1+)	2000 02 02	704	0.1+	0.4+	2000 03 05	608	0.5-	0.5-
1995 12 18	691	0.3-	0.3+	2000 02 02	704	0.7+	0.4+	2000 03 05	608	0.1+	0.4-
1995 12 18	691	0.2-	0.2+	2000 02 02	704	0.3+	0.4+	2000 03 05	608	0.2-	0.3-
1995 12 18	691	0.2-	0.2+	2000 02 02	704	0.2+	0.6+	2000 03 11	704	0.4-	0.2+
1995 12 29	691	0.2+	0.1+	2000 02 02	704	0.1-	0.3+	2000 03 11	704	0.1-	0.1+
1995 12 29	691	0.2-	0.1-	2000 02 06	704	0.8+	0.7+	2000 03 11	704	0.1-	0.1-
1995 12 29	691	0.4+	0.0	2000 02 06	704	1.1+	0.4+	2000 03 11	704	0.4-	0.2-
1998 09 12	691	1.4-	0.2+	2000 02 06	704	0.8+	0.5+	2000 03 11	704	0.3+	0.4-
1998 09 12	691	0.9-	0.2+	2000 02 06	704	0.2+	0.1+	2000 03 11	699	0.3-	0.1+
1998 09 12	691	0.8-	0.3+	2000 02 25	691	0.2-	0.1-	2000 03 11	699	0.3+	0.9+
1998 09 26	704	0.9+	0.6+	2000 02 25	691	0.2-	0.2-	2000 03 11	699	0.0	0.2+
1998 09 26	704	0.7+	1.7-	2000 02 25	691	0.2-	0.0	2000 03 11	699	0.9-	0.5+
1998 09 26	704	0.4+	0.4+	2000 02 26	703	0.5+	0.2-				
1998 09 26	704	0.2+	1.8-	2000 02 26	703	0.4+	1.0+				

(14022)* 1994 PW₂₇ = 1966 PX = 1992 BU₃

Discovered 1994 Aug. 12 by E. W. Elst at the European Southern Observatory.

Id. B. G. Marsden (*MPC* 24901)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Marsden					
<i>M</i>	219.18853		(2000.0)	P		Q			
<i>n</i>	0.28253934	ω	322.00489	+0.76096930		+0.64878297			
<i>a</i>	2.3001179	Ω	357.54079	-0.57991259		+0.67843459			
<i>e</i>	0.0943244	<i>i</i>	3.37368	-0.29090739		+0.34468415			
<i>P</i>	3.49	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1966 08 09	074	1.6-	0.6+	1998 10 29	704	0.1+	0.4-	2000 02 08	704	0.9-	0.9-
1966 08 10	074	0.5-	0.8+	1998 10 29	704	0.6-	0.5-	2000 02 08	704	1.1-	1.0-
1966 08 12	074	1.0+	0.7+	1998 10 29	704	0.9-	0.3+	2000 02 11	704	0.8+	0.3+
1966 08 12	074	0.1+	1.5+	1998 10 29	704	1.3-	0.0	2000 02 11	704	0.4-	0.2+
1966 08 16	074	(12.6-	1.3-)	1998 10 29	704	0.8-	0.1-	2000 02 11	704	0.7-	0.4-
1992 01 28	691	0.8-	0.3+	1998 11 11	704	0.3+	1.6+	2000 02 11	704	0.6+	0.3-
1992 01 28	691	0.8-	0.1+	1998 11 11	704	0.2-	0.2-	2000 02 27	012	0.4-	0.2+
1992 01 28	691	0.6-	0.1-	1998 11 11	704	0.4-	1.4-	2000 02 27	012	0.3-	1.0-
1992 01 29	691	0.2-	0.6+	1998 11 11	704	0.2+	0.3+	2000 02 27	703	0.4+	0.6-
1992 01 29	691	0.7-	0.6+	1998 11 18	704	0.1+	0.1-	2000 02 27	703	0.4-	0.1+
1992 01 29	691	0.7-	0.6+	1998 11 18	704	0.5-	0.4-	2000 02 27	703	0.0	0.2-
1994 08 12	809	0.0	0.8+	1998 11 18	704	0.2+	0.1-	2000 02 27	703	0.2+	0.1+

1994 08 12	809	0.4+	0.6+	1998 11 18	704	0.0	0.2+	2000 02 29	704	0.1+	0.3+
1994 08 12	809	0.2-	0.1-	1998 11 18	704	0.5+	0.6+	2000 02 29	704	0.5+	0.3+
1994 08 13	809	0.4+	1.3-	1998 11 20	699	0.0	1.6+	2000 02 29	704	0.4-	0.5+
1994 08 13	809	0.4+	1.4-	1998 11 20	699	0.0	0.3+	2000 03 08	704	0.2+	0.3+
1994 08 13	809	0.4+	1.1-	1998 11 20	699	0.2+	0.2+	2000 03 08	704	0.9-	0.2+
1994 09 05	809	(0.4-	3.5+)	1998 11 21	704	0.2+	0.0	2000 03 08	704	0.1+	1.1-
1994 09 05	809	(0.3-	3.1+)	1998 11 21	704	0.5+	1.5-	2000 03 08	704	0.3-	0.5-
1994 09 05	809	(0.6-	3.0+)	1998 11 21	704	1.8+	0.8-	2000 03 08	704	1.0+	0.3+
1994 09 06	809	(1.1-	3.1+)	1998 11 21	704	(3.6-	0.0)	2000 03 11	704	0.1+	0.5+
1994 09 06	809	(1.9-	3.7+)	1998 11 24	704	0.6+	0.5-	2000 03 11	704	0.1+	0.4+
1994 09 06	809	(1.3-	2.6+)	1998 11 24	704	0.1-	0.1-	2000 03 11	704	0.1-	0.5+
1996 01 11	411	1.3+	0.0	1998 11 24	704	0.6+	0.3+	2000 03 11	704	0.1+	0.5+
1996 01 11	411	(2.2+	0.8-)	1998 11 24	704	0.4-	0.0	2000 03 11	704	0.1+	0.1+
1998 08 31	704	0.5+	0.7-	1998 12 11	699	1.2+	0.0	2000 03 14	703	0.1-	0.4+
1998 08 31	704	(2.3-	1.1+)	1998 12 11	699	0.5+	0.5+	2000 03 14	703	0.3+	0.3+
1998 08 31	704	1.0-	1.8-	1998 12 11	699	1.4+	0.5+	2000 03 14	703	0.0	0.3+
1998 08 31	704	0.2-	0.4-	2000 02 08	704	0.5+	0.2-	2000 03 14	703	0.0	0.5+
1998 10 26	098	1.7-	1.1+	2000 02 08	704	0.1-	0.3-				
1998 10 26	098	(2.4-	1.1+)	2000 02 08	704	0.0	0.1+				

(14023)* 1994 PX₃₁

Discovered 1994 Aug. 12 by E. W. Elst at the European Southern Observatory.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	339.74977		(2000.0)	P	Q		
<i>n</i>	0.28038418	ω	258.70652	-0.94093059	+0.32558369		
<i>a</i>	2.3118894	Ω	300.23489	-0.25320574	-0.85889267		
<i>e</i>	0.0452890	<i>i</i>	6.17798	-0.22480322	-0.39534622		
<i>P</i>	3.52	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1994 08 12	809	0.7-	0.8+	1998 10 18	704	1.5-	1.1-	2000 03 09	704	0.4-	0.3+
1994 08 12	809	0.4+	0.8+	1998 10 18	012	1.4+	0.1+	2000 03 09	704	0.0	1.0+
1994 08 12	809	0.8+	0.7+	1998 10 18	012	1.0-	0.9+	2000 03 09	704	0.9-	0.2+
1994 08 13	809	0.4+	0.6-	1998 10 18	012	1.2-	0.1+	2000 03 12	163	0.0	1.0-
1994 08 13	809	0.4-	0.3-	1998 11 14	704	1.3+	0.5+	2000 03 13	163	0.6-	0.3-
1994 08 13	809	0.2-	0.2-	1998 11 14	704	0.5+	0.6-	2000 03 13	704	0.4+	0.5+
1994 09 05	809	(0.1-	4.6+)	1998 11 14	704	0.8+	0.6+	2000 03 13	704	0.4+	0.7+
1994 09 05	809	(0.5-	4.0+)	1998 11 14	704	0.8-	0.4-	2000 03 13	704	0.7+	1.3+
1994 09 05	809	(1.5-	3.7+)	1998 11 14	704	0.9-	0.0	2000 03 13	704	0.2+	0.8-
1994 09 06	809	(1.0-	2.6+)	1998 11 16	704	0.1+	0.5+	2000 03 13	704	0.1-	0.1+
1994 09 06	809	(1.3-	2.6+)	1998 11 16	704	(2.2+	1.5-)	2000 03 15	704	0.2+	0.2+
1994 09 06	809	1.3-	1.5+	1998 11 16	704	(1.2+	2.5+)	2000 03 15	704	0.1-	0.0
1995 12 26	411	1.7-	0.2-	1998 11 16	704	0.2+	0.8+	2000 03 15	704	0.3-	0.2+
1995 12 26	411	0.6+	0.5+	2000 01 10	704	1.2+	1.2-	2000 03 15	704	0.3-	0.3+
1995 12 27	411	0.4+	0.4+	2000 01 10	704	1.2+	0.1+	2000 03 15	704	0.0	0.2+
1995 12 27	411	0.3+	0.7-	2000 01 10	704	1.0+	0.6-	2000 03 17	704	(2.4-	0.7+)
1998 10 18	704	(1.1+	2.4-)	2000 01 10	704	0.2+	1.6+	2000 03 17	704	0.3+	0.6-
1998 10 18	704	1.7+	0.5-	2000 03 04	163	0.2-	0.3+	2000 03 17	704	0.0	0.4+
1998 10 18	704	1.2-	0.3+	2000 03 04	163	0.2-	0.2-	2000 03 17	704	0.4+	0.4+

(14024)* 1994 RZ = 1986 TW₁₂ = 1992 EW₃₅

Discovered 1994 Sept. 9 by P. Sicoli and P. Ghezzi at Sormano.

Id. G. V. Williams (*MPC* 24233)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	99.42130		(2000.0)	P	Q		
<i>n</i>	0.24162314	ω	44.25072	+0.89318413	-0.44950581		
<i>a</i>	2.5529582	Ω	342.44856	+0.39979093	+0.80688672		
<i>e</i>	0.2632189	<i>i</i>	2.45332	+0.20588666	+0.38324711		
<i>P</i>	4.08	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1986 10 05	095	1.0-	0.6-	1996 02 22	587	0.6-	0.0	1998 09 14	704	0.2-	0.9+
1992 03 01	809	1.0+	0.9+	1996 02 22	587	1.2+	0.2-	1998 09 15	587	0.7-	0.1+
1992 03 06	809	1.2-	1.6+	1996 02 22	587	1.2+	1.5-	1998 09 15	587	0.0	0.1+

1994 09 09	587	0.9+	0.8+	1996 02 23	587	1.1+	1.9-	1998 09 15	587	0.3+	0.5+
1994 09 09	046	0.2+	0.6+	1996 02 23	587	1.2-	1.7-	1998 09 16	587	0.6+	0.9+
1994 09 09	587	0.6+	0.4+	1996 02 23	587	0.5-	0.0	1998 09 16	587	0.6+	0.1-
1994 09 09	046	0.1-	0.6+	1998 07 26	809	(3.2+	0.0)	1998 09 18	704	1.6+	0.9-
1994 09 09	587	0.3+	0.7+	1998 07 26	809	(2.8+	0.2+)	1998 09 18	704	1.1-	0.5+
1994 09 09	046	0.5+	0.7+	1998 07 26	809	(2.5+	0.1+)	1998 09 18	704	0.2-	0.6+
1994 09 09	557	0.1+	0.1-	1998 07 27	809	(2.8+	0.0)	1998 09 18	704	(2.6-	0.3-)
1994 09 09	557	0.0	0.1-	1998 07 27	809	(2.5+	0.6-)	1998 11 06	910	(2.1-	0.3-)
1994 09 10	587	0.0	0.1+	1998 07 27	809	(2.6+	0.7+)	1998 11 06	910	(2.4-	0.0)
1994 09 10	587	0.4+	0.4+	1998 08 17	704	0.3-	0.1-	1998 11 06	910	(2.3-	0.1-)
1994 09 10	587	0.1+	0.1-	1998 08 17	704	0.6+	1.3-	2000 02 11	704	1.4+	0.1-
1994 09 10	046	0.1-	0.3-	1998 08 17	704	0.1-	0.5-	2000 02 11	704	1.3-	0.2-
1994 09 10	046	0.2+	0.1-	1998 08 17	704	0.3+	0.2-	2000 02 11	704	0.6+	1.0-
1994 09 10	046	0.2+	0.1-	1998 08 17	704	0.5+	0.5-	2000 02 11	704	0.1+	0.7+
1994 09 11	557	0.2+	0.1+	1998 08 23	704	0.2-	0.2+	2000 02 11	704	1.1-	0.1+
1994 09 11	557	0.0	0.5+	1998 08 23	699	0.7-	0.1+	2000 02 25	703	0.8-	0.6+
1994 09 11	557	0.1-	0.1-	1998 08 23	704	0.4+	0.8+	2000 02 25	703	0.1+	0.3-
1994 09 15	587	0.3-	0.8-	1998 08 23	704	0.8+	0.4+	2000 02 25	703	(0.2+	3.0+)
1994 09 15	587	1.2-	0.7-	1998 08 23	699	0.2-	0.0	2000 02 25	703	0.9+	1.0+
1994 09 30	474	0.0	0.2+	1998 08 23	704	1.0-	1.4+	2000 02 29	704	0.0	0.1+
1994 09 30	474	0.8-	1.2-	1998 08 23	704	0.3-	0.3+	2000 02 29	704	1.0+	1.1+
1994 10 02	474	0.2-	1.3-	1998 08 23	699	0.1+	0.1-	2000 02 29	704	0.8+	1.7+
1994 10 02	474	0.8-	0.2+	1998 08 24	587	0.8-	0.6+	2000 02 29	704	0.0	1.3+
1994 10 04	587	0.6-	0.1+	1998 08 24	587	0.1-	0.1+	2000 02 29	704	0.9+	1.9+
1994 10 04	587	0.5+	0.5-	1998 08 26	587	1.1-	0.0	2000 03 11	704	0.3-	0.8+
1994 10 10	587	1.0+	0.9+	1998 08 26	587	1.7-	0.8-	2000 03 11	704	0.3+	0.4+
1994 10 10	587	0.5-	0.9-	1998 09 14	704	0.6-	0.2-	2000 03 11	704	0.5+	1.0+
1994 10 24	587	1.4+	1.4+	1998 09 14	704	0.3-	1.2+	2000 03 11	704	0.4-	0.8+
1994 10 24	587	1.5+	0.2+	1998 09 14	704	0.6-	0.5+	2000 03 11	704	0.2-	0.4+
1994 10 24	587	0.3-	0.4+	1998 09 14	704	0.5-	0.3+				

(14025)* 1994 RR₁₁ = 1985 TH = 1998 MY₃₀

Discovered 1994 Sept. 2 by F. Börngen at Tautenburg.

Id. A. Doppler (*MPC* 33244)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	43.42438		(2000.0)	P	Q		
<i>n</i>	0.21771786	ω	157.48403	+0.80325541	-0.58471445		
<i>a</i>	2.7365707	Ω	238.79414	+0.52427112	+0.78452146		
<i>e</i>	0.1657947	<i>i</i>	7.62789	+0.28270222	+0.20648266		
<i>P</i>	4.53	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1983 05 12	413	0.5+	0.6+	1999 11 09	704	0.7+	0.3-	1999 12 08	849	0.3+	1.5+
1983 05 12	413	0.2-	0.9-	1999 11 09	704	0.6+	0.6-	1999 12 08	704	0.6-	0.2-
1985 10 15	688	(2.2-	3.0-)	1999 11 09	704	0.4+	0.6-	1999 12 08	704	0.1+	0.2-
1985 10 15	688	0.5+	2.0-	1999 11 09	704	0.2+	1.0-	1999 12 08	704	0.2-	0.1-
1994 09 02	033	0.0	0.3+	1999 11 12	704	0.1-	0.0	1999 12 08	704	0.1+	0.5-
1994 09 02	033	0.1-	0.0	1999 11 12	704	0.3+	0.0	1999 12 08	704	0.0	0.6-
1994 09 04	033	0.7-	0.2-	1999 11 12	704	0.8-	0.2+	2000 01 05	704	0.2+	0.8+
1994 09 06	033	0.5+	0.3+	1999 11 12	704	0.2+	0.4-	2000 01 05	704	0.6+	0.2-
1998 06 24	704	0.7+	0.5+	1999 11 12	704	0.1+	0.5-	2000 01 05	704	0.1-	0.5+
1998 06 24	704	(0.7+	2.2+)	1999 11 17	704	0.0	0.5+	2000 01 05	704	0.1+	0.4+
1998 06 24	704	(2.1-	2.3+)	1999 11 17	704	0.0	0.5-	2000 01 05	704	0.4-	0.1-
1998 06 24	704	0.6-	1.4+	1999 11 17	704	0.3+	0.3+	2000 01 05	113	0.4-	0.3-
1998 06 24	704	(5.3-	1.6+)	1999 11 17	704	0.4+	0.2+	2000 01 05	113	0.0	0.6+
1998 06 26	704	0.9-	0.0	1999 11 17	704	0.2+	0.4+	2000 01 06	704	1.4+	0.9+
1998 06 26	704	0.1+	1.9+	1999 11 26	113	0.4-	0.3+	2000 01 06	704	0.2+	0.5+
1998 06 26	704	0.4-	0.7+	1999 11 27	113	0.3-	0.5+	2000 01 06	704	0.2+	0.2-
1998 06 26	704	0.3-	0.9+	1999 11 27	151	1.4-	0.7+	2000 01 06	704	0.5+	0.2-
1999 10 12	704	0.2-	0.1-	1999 11 27	151	0.7-	0.1-	2000 01 06	704	0.1-	0.6-
1999 10 12	704	0.1-	0.1+	1999 11 27	151	0.9-	0.4+	2000 02 02	704	0.2-	0.1+
1999 10 12	704	0.4+	0.2+	1999 11 27	151	0.5+	0.2-	2000 02 02	704	0.1+	0.5+
1999 10 12	704	0.6+	0.3-	1999 11 27	151	0.6+	1.0+	2000 02 02	704	0.6-	0.1-
1999 10 12	704	1.2+	0.1-	1999 12 03	151	1.1-	1.5+	2000 02 02	704	0.0	0.6+
1999 10 22	704	0.6+	0.3+	1999 12 03	151	0.5+	0.7+	2000 02 02	704	0.3-	0.6+
1999 10 22	704	0.5+	0.5-	1999 12 03	151	0.5+	0.4-	2000 02 03	704	0.3-	0.1+
1999 10 22	704	0.2+	0.6+	1999 12 03	151	0.5-	1.7-	2000 02 03	704	0.2-	0.0

1999 10 22	704	0.4+	1.1-	1999 12 07	704	0.0	0.4-	2000 02 03	704	0.2+	1.4+
1999 11 03	704	0.2-	0.4+	1999 12 07	704	0.1-	0.4-	2000 02 03	704	0.0	0.2-
1999 11 03	704	0.2-	0.4+	1999 12 07	704	0.0	0.3+	2000 02 03	704	0.1-	0.7+
1999 11 03	704	0.8-	0.5-	1999 12 07	704	0.1-	0.1-	2000 03 05	704	0.1+	0.1+
1999 11 03	704	0.2-	0.3-	1999 12 07	704	0.0	0.0	2000 03 05	704	0.0	0.0
1999 11 03	704	1.1-	1.3-	1999 12 08	849	0.6+	0.8+	2000 03 05	704	0.3+	0.0
1999 11 09	704	0.4+	0.1-	1999 12 08	849	1.5-	1.3+	2000 03 05	704	(2.3+	0.5-)

(14026)* 1994 ST₇ = 1976 UV₁₆ = 1976 UF₂₁ = 1997 JM₁₈ = 1997 LR₁₅

Discovered 1994 Sept. 28 by Spacewatch at Kitt Peak.

Id. A. Doppler (*MPC* 32668, *MPC* 35293)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	240.85536	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.27192515	ω	128.01041	+0.28383221	+0.95872596
<i>a</i>	2.3595895	Ω	158.46044	-0.89350493	+0.27081760
<i>e</i>	0.1620284	<i>i</i>	2.62995	-0.34797733	+0.08661612
<i>P</i>	3.62	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1976 10 22	381	1.3-	0.3+	1997 06 09	809	(3.4+	2.3-)	2000 02 29	704	0.0	0.5+
1976 10 22	381	0.2-	0.6+	1997 06 09	809	(2.8+	2.5-)	2000 02 29	704	0.3-	0.8+
1976 10 24	381	0.2+	0.8+	1998 11 18	704	1.3-	0.2-	2000 03 03	704	0.0	0.2-
1994 09 28	691	0.4+	0.4+	1998 11 18	704	0.6-	1.0-	2000 03 03	704	0.2+	0.1+
1994 09 28	691	0.1+	0.6+	1998 11 18	704	(1.2+	2.5-)	2000 03 03	704	0.2+	0.2-
1994 09 28	691	0.9+	0.7+	1998 11 18	704	(4.4-	0.8-)	2000 03 03	704	0.3+	0.3-
1994 09 29	691	0.1-	0.6+	1998 11 24	704	0.0	0.1+	2000 03 03	704	0.3-	0.5-
1994 09 29	691	0.1+	0.4+	1998 11 24	704	(0.6-	2.9-)	2000 03 05	704	0.6+	0.1+
1994 09 29	691	0.0	0.5+	1998 11 24	704	1.7-	1.7-	2000 03 05	704	0.2+	0.0
1994 10 06	691	0.4-	0.9+	1998 11 24	704	1.9-	0.8-	2000 03 05	704	0.3+	0.4+
1994 10 06	691	0.1-	0.7+	2000 01 12	691	0.1-	0.7-	2000 03 05	704	0.0	0.4+
1994 10 06	691	0.1+	0.6+	2000 01 12	691	0.1-	0.7-	2000 03 05	704	0.8+	0.7+
1994 10 13	691	0.5+	0.9+	2000 01 12	691	0.2+	0.8-	2000 03 05	608	0.0	0.6-
1994 10 13	691	0.5+	0.7+	2000 02 04	704	0.5+	0.2-	2000 03 05	608	0.2-	0.6-
1994 10 13	691	0.4+	0.8+	2000 02 04	704	0.1+	0.1+	2000 03 05	608	0.1+	0.6-
1997 05 03	809	0.4+	0.3-	2000 02 04	704	0.4+	0.2-	2000 03 11	704	0.2-	0.6+
1997 05 03	809	0.2-	0.4-	2000 02 04	704	0.2+	0.7+	2000 03 11	704	0.6+	0.5-
1997 05 03	809	0.5-	0.3+	2000 02 04	704	0.2-	0.0	2000 03 11	704	0.2+	0.4+
1997 05 04	809	0.3-	1.7+	2000 02 25	703	0.7-	0.0	2000 03 11	704	0.2-	0.4-
1997 05 04	809	0.4-	1.1+	2000 02 25	703	0.5-	1.3+	2000 03 11	704	0.9+	0.2+
1997 05 04	809	0.9-	0.8+	2000 02 25	703	0.4+	0.7+	2000 03 11	699	0.0	0.5+
1997 06 08	809	(4.4+	1.8-)	2000 02 25	703	0.2+	0.3-	2000 03 11	699	0.2+	1.0+
1997 06 08	809	(4.3+	2.1-)	2000 02 29	704	0.2+	0.3-	2000 03 11	699	0.1-	1.2+
1997 06 08	809	(3.8+	2.4-)	2000 02 29	704	1.4+	0.2+	2000 03 11	699	0.2+	0.6+
1997 06 09	809	(3.0+	2.4-)	2000 02 29	704	0.6+	0.9+				

(14027)* 1994 TJ₁ = 1986 XM₄

Discovered 1994 Oct. 2 by K. Endate and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 32668)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	114.85828	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.24004947	ω	194.26118	+0.95940518	-0.28200143
<i>a</i>	2.5641035	Ω	182.13170	+0.26837834	+0.91734312
<i>e</i>	0.2460982	<i>i</i>	6.34401	+0.08668778	+0.28099252
<i>P</i>	4.11	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1986 12 05	010	(6.8+	2.0+)	1998 09 16	699	0.6+	0.2+	1998 10 02	120	0.9-	0.9+
1986 12 05	010	(4.5+	2.0+)	1998 09 16	699	0.6+	0.4+	1998 10 14	704	0.3-	0.2-
1986 12 05	010	1.6+	1.4+	1998 09 16	699	0.7+	0.6+	1998 10 14	704	0.7-	0.5+
1992 03 06	809	0.6-	0.5+	1998 09 18	704	0.7+	0.1-	1998 10 14	704	0.2+	0.1+
1993 05 23	691	0.2-	0.1+	1998 09 18	704	0.1-	1.0-	1998 10 14	704	0.5+	0.1-
1993 05 23	691	0.2-	0.4+	1998 09 18	704	0.8+	1.1+	1998 10 14	704	0.2+	0.3-
1993 05 23	691	0.2+	0.8+	1998 09 18	704	1.4+	0.4+	1998 10 15	704	0.2+	0.1-
1994 10 02	400	0.7-	1.0-	1998 09 18	704	0.2-	0.6-	1998 10 15	704	0.8+	0.2+
1994 10 02	400	1.1-	0.9-	1998 09 24	691	0.4-	0.2-	1998 10 15	704	0.0	0.2-

1994 10 03	400	0.7-	0.7-	1998 09 24	691	0.1-	0.1-	1998 10 15	704	0.5+	0.1-
1994 10 03	400	1.6-	1.5-	1998 09 24	691	0.1-	0.1-	1998 10 15	704	(0.8+	2.7-)
1994 10 07	400	1.1+	0.3-	1998 09 25	699	0.3+	0.5+	1998 11 25	699	0.3-	0.1-
1994 10 07	400	1.6+	0.7+	1998 09 25	699	0.1+	0.6+	1998 11 25	699	0.6-	0.5+
1994 10 26	400	0.1-	0.7+	1998 09 25	699	0.4+	0.6+	1998 12 08	704	0.1+	0.9-
1994 10 26	400	1.1-	0.4-	1998 09 26	704	1.3+	0.3-	1998 12 08	704	0.5+	1.6-
1997 05 28	691	0.0	0.1-	1998 09 26	704	0.5+	0.4-	1998 12 08	704	0.9-	0.5+
1997 05 28	691	0.1-	0.3-	1998 09 26	704	0.2+	0.3+	1998 12 08	704	0.3-	0.7-
1997 05 28	691	0.1-	0.5-	1998 09 26	704	0.6-	0.8+	1998 12 08	704	1.1-	0.2-
1998 08 23	704	1.4+	0.7+	1998 09 26	704	0.5-	0.6-	2000 02 02	704	0.2+	1.0+
1998 08 23	704	1.2-	0.1-	1998 09 27	704	0.1+	0.3-	2000 02 02	704	0.6-	0.1-
1998 08 23	704	1.3-	1.5+	1998 09 27	704	0.7-	0.7-	2000 02 02	704	0.1+	0.2-
1998 08 23	704	(1.0-	2.6+)	1998 09 27	704	0.1-	0.3-	2000 02 02	704	0.2+	1.5+
1998 08 23	704	(0.3+	2.6-)	1998 09 27	704	0.7-	0.1-	2000 02 02	704	0.2+	0.0
1998 09 14	704	0.1+	0.9+	1998 09 27	704	0.1+	0.3-	2000 03 11	699	0.8+	0.5+
1998 09 14	704	1.2-	0.4+	1998 09 29	120	0.4-	0.3+	2000 03 11	699	0.4-	0.1-
1998 09 14	704	0.2+	0.1+	1998 09 29	120	0.4-	0.2+	2000 03 11	699	0.3+	0.3-
1998 09 14	704	0.5+	0.1+	1998 10 02	120	0.6+	0.7+	2000 03 11	699	0.3+	0.3+
1998 09 14	704	0.4-	0.5+	1998 10 02	120	0.0	0.3-				

(14028)* 1994 TZ₁₄ = 1997 KF₃

Discovered 1994 Oct. 5 by K. Endate and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 30080)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	116.44882	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.24172328	ω	200.92702	+0.91565891	-0.40193343
<i>a</i>	2.5522530	Ω	182.78311	+0.38016820	+0.86943142
<i>e</i>	0.2052853	<i>i</i>	5.05204	+0.13054083	+0.28729519
<i>P</i>	4.08	<i>H</i>	14.1	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1994 10 05	400	0.9+	0.1+	1998 09 26	704	0.4-	0.6+	1998 11 25	699	0.4-	0.2-
1994 10 05	400	0.2+	0.1+	1998 09 26	704	1.1-	1.2+	1998 11 25	699	0.0	0.3-
1994 10 06	400	0.9+	0.8+	1998 09 26	704	1.7-	0.3+	1998 11 25	699	0.2-	0.5-
1994 10 06	400	1.4-	0.3-	1998 09 26	691	0.5+	0.0	1998 12 08	704	(2.5-	0.4-)
1994 10 27	400	0.0	0.6+	1998 09 26	691	0.4+	0.3+	1998 12 08	704	0.2+	0.0
1994 10 27	400	0.8-	0.1-	1998 09 26	691	0.6+	0.4+	1998 12 08	704	1.8-	1.1-
1997 05 04	809	0.1-	0.8+	1998 09 27	704	0.8-	0.4+	1998 12 08	704	0.7+	0.6+
1997 05 04	809	0.8-	1.3+	1998 09 27	704	0.1-	1.0+	1998 12 08	704	1.4-	0.4-
1997 05 04	809	1.2-	1.5+	1998 09 27	704	0.3-	0.8+	1998 12 14	699	0.7-	1.0+
1997 05 30	691	0.4+	0.5+	1998 09 27	704	0.8+	1.0+	1998 12 14	699	0.2-	0.6+
1997 05 30	691	0.3+	0.5+	1998 09 27	704	0.0	0.1+	1998 12 14	699	0.2-	0.3+
1997 05 30	691	0.2+	0.7+	1998 10 10	699	0.1-	0.3+	2000 02 02	704	0.1+	0.8+
1997 06 07	691	0.2+	0.3+	1998 10 10	699	0.2-	0.1+	2000 02 02	704	0.1-	1.0+
1997 06 07	691	0.4+	0.5+	1998 10 10	699	1.7+	0.2-	2000 02 02	704	0.2+	1.2+
1997 06 07	691	0.3+	0.3+	1998 10 14	704	0.3-	0.2-	2000 02 02	704	0.6-	1.4+
1997 06 09	809	0.1-	1.4+	1998 10 14	704	0.1-	0.8+	2000 02 02	704	0.4-	0.6+
1997 06 09	809	0.0	0.7+	1998 10 14	704	0.0	0.2+	2000 02 06	704	(3.0+	0.1-)
1997 06 09	809	1.0+	1.1+	1998 10 14	704	0.2-	0.7+	2000 02 06	704	0.3+	0.7+
1997 06 29	691	0.2+	0.7-	1998 10 14	704	0.7-	0.6+	2000 02 06	704	(3.2-	1.4-)
1997 06 29	691	0.2+	0.1-	1998 10 15	704	0.9+	0.4+	2000 02 29	704	0.6+	0.4+
1997 06 29	691	0.4+	0.3-	1998 10 15	704	0.0	0.4+	2000 02 29	704	0.6+	0.2+
1997 07 06	691	0.1-	0.6+	1998 10 15	704	0.1-	0.2+	2000 02 29	704	0.5+	0.3+
1997 07 06	691	0.1-	0.3+	1998 10 15	704	0.4-	0.2-	2000 02 29	704	0.8+	0.2+
1997 07 06	691	0.0	0.4+	1998 10 15	704	0.6-	0.9+	2000 02 29	704	0.3+	0.1+
1998 09 15	699	0.0	0.7+	1998 10 19	699	0.2+	0.2+	2000 03 03	704	0.5+	0.0
1998 09 15	699	0.1+	0.9+	1998 10 19	699	0.3+	0.9+	2000 03 03	704	0.2+	0.3+
1998 09 15	699	0.5+	0.6+	1998 10 19	699	0.5+	0.2+	2000 03 03	704	0.6+	0.5+
1998 09 18	704	0.1-	0.1-	1998 10 28	704	0.9+	0.6-	2000 03 03	704	0.4+	0.5+
1998 09 18	704	0.3-	0.1-	1998 10 28	704	1.1+	1.2-	2000 03 03	704	0.5+	0.3+
1998 09 18	704	0.5+	0.4+	1998 10 28	704	0.0	0.8-	2000 03 11	704	0.3+	0.1-
1998 09 18	704	1.2-	0.7+	1998 10 28	704	0.3-	0.3-	2000 03 11	704	0.1-	0.6+
1998 09 18	704	(2.9-	1.0-)	1998 10 28	704	0.9-	1.1-	2000 03 11	704	0.1+	0.8+
1998 09 20	691	0.1-	0.3-	1998 10 29	704	(0.4+	2.3-)	2000 03 11	699	0.0	0.2+
1998 09 20	691	0.3-	0.0	1998 10 29	704	0.6+	0.2-	2000 03 11	704	0.0	0.3+
1998 09 20	691	0.0	0.0	1998 10 29	704	0.2+	0.1-	2000 03 11	704	0.1-	1.0+
1998 09 21	691	0.7-	0.0	1998 10 29	704	0.9+	0.0	2000 03 11	699	0.1+	0.8+

2000 MAR. 20

1998 09 21	691	0.5−	0.1+	1998 10 29	704	0.8+	0.1−	2000 03 11	699	0.3−	0.8+
1998 09 21	691	0.8−	0.1−	1998 11 06	699	0.2+	0.5+	2000 03 11	699	0.1−	0.2+
1998 09 26	704	0.6−	0.6+	1998 11 06	699	0.7+	0.4+				
1998 09 26	704	0.8−	0.6+	1998 11 06	699	0.3+	0.1+				

(14029)* 1994 UC₁ = 1977 DK₁₀ = 1996 AL₂₀

Discovered 1994 Oct. 31 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

Id. S. Nakano (*MPC* 30454), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	243.21862		(2000.0)	P		Q	
<i>n</i>	0.25603748	ω	248.27903	+0.23094204		+0.97283327	
<i>a</i>	2.4562186	Ω	35.08594	−0.88196853		+0.21632780	
<i>e</i>	0.1139948	<i>i</i>	1.61117	−0.41084947		+0.08244819	
<i>P</i>	3.85	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 02 19	381	0.8−	0.3−	1998 11 10	704	(0.8−	2.8+)	2000 02 11	704	0.2+	0.4+
1977 02 19	381	0.6+	1.3−	1998 11 10	704	1.8−	1.2+	2000 02 11	704	0.4+	0.0
1994 10 31	905	0.1+	1.1+	1998 11 11	704	0.1+	0.6+	2000 02 11	888	0.2+	0.9−
1994 10 31	905	1.6−	1.0+	1998 11 11	704	0.8−	0.7+	2000 02 11	888	0.1+	0.9−
1994 11 03	905	0.6+	0.5+	1998 11 11	704	0.4−	1.0−	2000 02 11	888	0.2+	0.6−
1994 11 03	905	(0.5+	2.3+)	1998 11 11	704	0.7−	0.9−	2000 02 25	703	0.0	0.3+
1994 11 04	675	0.5+	0.3−	1998 11 18	704	0.2−	0.3+	2000 02 25	703	0.5−	0.9+
1994 11 04	675	0.1+	1.3−	1998 11 18	704	0.2+	0.1−	2000 02 25	703	0.4−	1.2+
1994 11 07	399	(2.8−	0.4+)	1998 11 18	704	0.1−	1.1−	2000 02 25	703	0.2−	0.4+
1994 11 07	399	0.8+	0.6+	1998 11 18	704	0.4−	1.5−	2000 02 27	888	0.0	0.5−
1994 11 09	905	0.4−	0.7+	1998 11 18	704	(1.8−	2.7−)	2000 02 27	888	0.1+	0.1−
1994 11 09	905	0.6+	1.2+	1998 11 21	704	0.6+	0.3+	2000 02 29	704	0.2+	0.3+
1994 11 12	385	0.3+	0.2+	1998 11 21	704	0.9+	0.6−	2000 02 29	704	0.1−	0.1+
1994 11 12	385	0.4−	0.4+	1998 11 21	704	(2.2+	0.8−)	2000 02 29	704	0.5+	0.2+
1994 11 12	385	0.1−	0.3−	1998 11 21	704	1.7+	0.4−	2000 02 29	704	0.1+	0.0
1994 11 12	385	0.4−	0.0	1998 11 21	704	1.5+	2.0−	2000 02 29	704	0.4+	0.2+
1994 11 27	385	0.7−	0.4+	1998 11 24	704	0.6+	0.4−	2000 03 03	704	0.0	0.1+
1994 11 27	385	0.7−	0.1+	1998 11 24	704	1.1+	0.5+	2000 03 03	704	0.1−	0.2−
1994 11 27	385	0.6−	0.4+	1998 11 24	704	1.3+	0.2+	2000 03 03	704	0.2+	0.2−
1994 11 28	675	0.1+	1.0−	1998 11 24	704	0.9+	0.5+	2000 03 03	704	0.1−	0.1−
1994 11 28	675	1.3+	1.0−	1998 11 24	704	1.2+	1.6+	2000 03 03	704	0.3+	0.3−
1994 11 29	691	0.6−	0.2−	1998 12 11	691	0.8−	0.3+	2000 03 04	704	0.5+	0.1−
1994 11 29	691	0.9−	0.3+	1998 12 11	691	0.9−	0.4+	2000 03 04	704	0.0	0.1−
1994 11 29	691	(2.3−	1.2+)	1998 12 11	691	1.1−	0.2+	2000 03 04	704	0.2+	0.2+
1994 12 03	675	0.5−	1.0−	1998 12 14	704	0.1+	0.2+	2000 03 04	704	0.1−	0.1−
1994 12 03	675	0.1−	0.6−	1998 12 14	704	0.5+	0.8−	2000 03 04	704	0.0	0.3+
1995 01 01	385	0.1+	0.7−	1998 12 14	704	0.6+	1.9−	2000 03 05	704	0.2+	0.0
1995 01 01	385	0.6+	0.2−	1998 12 14	704	0.5+	0.1+	2000 03 05	704	0.2−	0.1+
1996 01 04	327	0.3+	0.5+	1998 12 14	704	0.2+	1.1−	2000 03 05	704	0.1+	0.4−
1996 01 04	327	1.4−	0.7+	1998 12 19	385	1.1−	0.5+	2000 03 05	704	0.1+	0.4+
1996 01 04	327	0.1−	0.4+	1998 12 20	888	0.2−	0.6+	2000 03 05	704	0.3−	0.4+
1998 10 18	888	0.0	1.0+	1998 12 20	888	0.0	0.5+	2000 03 06	704	0.3+	0.2+
1998 10 18	888	0.1+	0.7+	1999 02 06	888	0.2−	0.3+	2000 03 06	704	0.1+	0.2+
1998 10 18	888	0.1−	0.6+	1999 02 06	888	0.2+	0.4+	2000 03 06	704	0.0	0.0
1998 10 24	888	0.0	0.5+	2000 02 01	703	0.2−	0.2+	2000 03 06	704	0.1+	0.4+
1998 10 24	888	0.7−	0.1+	2000 02 01	703	0.1+	0.0	2000 03 06	704	0.1−	0.1+
1998 10 24	888	0.5−	0.1−	2000 02 01	703	0.2−	0.4+	2000 03 06	704	0.2+	0.5+
1998 10 29	704	0.5−	0.5−	2000 02 01	703	0.0	0.0	2000 03 06	704	0.2−	0.2+
1998 10 29	704	0.6−	1.2−	2000 02 04	704	0.3−	0.1+	2000 03 06	704	0.5+	0.4+
1998 10 29	704	1.1+	0.8−	2000 02 04	704	0.6−	0.4+	2000 03 06	704	0.5−	0.5−
1998 10 29	704	1.2+	0.6−	2000 02 04	704	0.3−	0.1+	2000 03 11	704	0.3+	0.4−
1998 10 29	704	0.6+	1.0−	2000 02 04	704	0.2−	0.2−	2000 03 11	704	0.2−	0.2−
1998 11 09	888	0.7−	1.3+	2000 02 04	704	0.4−	0.3+	2000 03 11	704	0.3+	0.5−
1998 11 09	888	0.8−	1.1+	2000 02 11	704	0.6+	0.6−	2000 03 11	704	0.0	0.3−
1998 11 09	888	0.6−	1.0+	2000 02 11	704	0.6+	0.1+	2000 03 11	704	0.5−	0.6−
1998 11 10	704	(2.9−	0.1−)	2000 02 11	704	0.3−	0.0				

(14030)* 1994 UP₁ = 1976 JQ₄ = 1986 XQ₃ = 1998 SH₆₅

Discovered 1994 Oct. 25 by S. Ueda and H. Kaneda at Kushiuro.

M.P.C. 39059

Id. G. V. Williams (*MPC* 33246)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	74.83044		(2000.0)	P		Q	
<i>n</i>	0.24160710	ω	50.38549	+0.10657874		−0.98523187	
<i>a</i>	2.5530712	Ω	34.21516	+0.82353989		+0.01194588	
<i>e</i>	0.1360400	<i>i</i>	13.78781	+0.55715620		+0.17080823	
<i>P</i>	4.08	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 05 03	809	0.3+	0.3+	1998 10 10	699	0.6+	0.1+	1998 11 23	699	0.4+	0.5−
1986 12 04	010	1.0+	2.2−	1998 10 10	699	0.2+	0.4−	1998 11 23	699	0.1−	0.5+
1986 12 04	010	1.8+	0.0	1998 10 28	704	0.1+	0.1−	1998 12 09	699	1.3+	0.5−
1986 12 04	010	1.3−	0.6−	1998 10 28	704	0.7−	0.7−	1998 12 09	699	0.0	0.9+
1992 04 26	691	0.8−	0.3−	1998 10 28	704	0.5+	0.1−	1998 12 09	699	0.6+	0.0
1992 04 26	691	0.7−	0.3−	1998 10 28	704	0.8−	0.1−	1999 01 08	704	1.1−	0.3+
1994 10 25	399	0.8+	0.1+	1998 10 29	704	1.3+	0.3+	1999 01 08	704	0.1+	0.1−
1994 10 25	399	0.9+	0.8+	1998 10 29	704	0.8+	0.1−	1999 01 08	704	0.3−	1.7+
1994 10 26	399	1.7−	1.3−	1998 10 29	704	0.8+	0.3−	1999 01 08	704	0.1+	0.2−
1994 10 26	399	(3.6−	2.0−)	1998 10 29	704	0.9+	0.8−	1999 01 08	704	0.5−	1.4+
1994 11 07	399	(3.1−	1.2+)	1998 10 29	704	0.5+	0.7−	2000 01 07	704	0.8+	0.7+
1994 11 07	399	0.5+	0.5+	1998 11 10	704	0.1−	0.1+	2000 01 07	704	1.8+	0.5+
1994 11 10	399	(2.7−	1.5+)	1998 11 10	704	0.8−	0.6−	2000 01 07	704	1.6+	0.2+
1994 11 10	399	1.0−	1.2+	1998 11 10	704	1.3−	0.8−	2000 01 07	704	1.1+	0.6+
1998 09 18	699	0.1−	0.8+	1998 11 10	704	1.3−	1.0−	2000 01 07	704	1.9+	0.0
1998 09 18	699	0.5+	1.3+	1998 11 11	704	0.7−	1.3−	2000 03 12	703	(2.2+	5.7+)
1998 09 18	699	0.1+	1.1+	1998 11 11	704	1.5−	0.3+	2000 03 12	703	0.4+	0.5+
1998 09 20	809	0.5−	1.1+	1998 11 11	704	0.5+	1.4−	2000 03 12	703	0.3+	0.4+
1998 09 20	809	0.9−	0.8+	1998 11 11	704	0.6+	0.1−	2000 03 12	703	0.1−	0.0
1998 09 20	809	0.8−	1.3+	1998 11 11	704	0.3−	0.7−	2000 03 12	704	0.5−	0.3+
1998 09 21	809	0.5−	0.6+	1998 11 14	699	0.9+	0.1+	2000 03 12	704	0.7−	0.1−
1998 09 21	809	0.9−	1.7+	1998 11 14	699	0.1−	0.2−	2000 03 12	704	0.9−	0.3+
1998 09 21	809	0.9−	1.3+	1998 11 14	699	0.2−	0.1−	2000 03 12	704	0.1−	0.2+
1998 10 10	699	0.3+	0.3−	1998 11 23	699	0.4+	0.3−				

(14031)* 1994 WF₂ = 1999 AA₆

Discovered 1994 Nov. 26 by K. Endate and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 33690)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	127.43249		(2000.0)	P		Q	
<i>n</i>	0.23662990	ω	290.55140	+0.92332932		−0.29848300	
<i>a</i>	2.5887472	Ω	87.44115	+0.37461930		+0.83841688	
<i>e</i>	0.1974254	<i>i</i>	13.99527	−0.08439991		+0.45603183	
<i>P</i>	4.17	<i>H</i>	12.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1994 11 26	400	1.9−	0.3+	1999 01 11	704	0.3−	0.4+	2000 02 29	865	1.4−	0.3−
1994 11 26	400	0.8+	0.0	1999 01 11	704	0.5−	0.1+	2000 03 01	865	0.2−	0.1+
1994 11 29	400	0.7+	0.3+	1999 01 11	704	0.2+	0.3+	2000 03 01	865	1.1−	0.5+
1994 11 29	400	0.6+	0.6−	1999 02 02	699	1.1−	1.8+	2000 03 01	865	1.3−	0.2+
1994 12 02	905	0.0	0.6+	1999 02 02	699	0.5−	0.9+	2000 03 04	865	0.2+	0.0
1994 12 02	905	1.5+	1.0−	1999 02 02	699	0.5−	0.2+	2000 03 04	865	1.0−	0.8−
1994 12 10	399	0.4−	1.3−	1999 02 04	704	0.3−	1.0+	2000 03 04	865	0.7−	0.6+
1994 12 10	399	0.0	1.9−	1999 02 04	704	0.9−	0.2+	2000 03 04	704	1.6+	0.6+
1994 12 30	400	0.4+	0.9−	1999 02 04	704	0.0	1.0+	2000 03 04	704	1.3+	0.3+
1994 12 30	400	0.6+	1.0−	1999 02 04	704	1.4−	1.3+	2000 03 04	704	1.4+	0.3+
1997 04 16	704	1.0+	0.5+	1999 02 20	699	0.9−	0.2−	2000 03 04	704	1.5+	0.4+
1997 04 16	704	0.4−	1.4+	1999 02 20	699	0.1−	0.4−	2000 03 04	704	1.4+	0.4+
1999 01 07	704	0.0	0.2+	1999 02 20	699	0.5−	0.1+	2000 03 15	704	0.2−	0.4−
1999 01 07	704	0.5+	0.1+	1999 12 17	699	0.9−	0.8−	2000 03 15	704	0.0	0.6−
1999 01 07	704	0.4−	0.8+	1999 12 17	699	0.4+	0.3−	2000 03 15	704	0.7+	0.3−
1999 01 07	704	1.2+	0.2−	1999 12 17	699	0.3+	0.2−	2000 03 15	704	0.6+	0.6+
1999 01 07	704	0.2+	1.5+	2000 02 29	865	1.1−	0.0	2000 03 15	704	0.5+	0.4−
1999 01 11	704	0.1−	0.2+	2000 02 29	865	0.3−	0.2+				
1999 01 11	704	0.5−	0.6+	2000 02 29	865	1.4−	0.2+				

(14032)* 1994 XP = 1953 XX₁ = 1998 QJ₉₃

Discovered 1994 Dec. 4 by M. Koishikawa at the Ayashi Station of the Sendai Observatory.

Id. G. V. Williams (*MPC* 32462, *MPC* 34509)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		134.08528		(2000.0)		P		Q	
<i>n</i>		0.24087006	ω	156.50445		+0.92407447		−0.37130855	
<i>a</i>		2.5582766	Ω	225.61887		+0.32747807		+0.89144685	
<i>e</i>		0.2086702	<i>i</i>	7.28630		+0.19709004		+0.25971613	
<i>P</i>		4.09	<i>H</i>	13.5		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1953 12 08	024	0.1−	2.3+	1998 10 29	704	0.2−	0.2−	1999 01 11	704	0.3−	1.5+
1994 12 01	400	1.5+	0.2−	1998 10 29	704	0.8−	0.8−	1999 01 11	704	0.1+	0.1−
1994 12 01	400	0.1−	0.6−	1998 10 29	704	1.3−	0.4−	1999 01 11	704	(2.5+, 0.9+)	
1994 12 03	400	0.0	0.5−	1998 10 29	704	1.3−	0.1−	1999 01 11	704	(2.8+, 0.2+)	
1994 12 03	400	0.0	0.6−	1998 11 10	704	0.0	0.5−	1999 01 15	699	0.5−	0.4+
1994 12 04	391	0.9−	0.7+	1998 11 10	704	0.2+	1.0−	1999 01 15	699	0.1−	0.3−
1994 12 04	391	1.7−	0.0	1998 11 10	704	0.6−	0.4+	1999 01 15	699	0.5+	0.6−
1994 12 04	391	0.8−	0.1+	1998 11 10	704	0.1−	0.5−	1999 02 04	704	0.1−	0.2+
1994 12 06	893	0.1−	0.1+	1998 11 10	704	(2.3−, 1.5−)		1999 02 04	704	0.4+	0.2+
1994 12 06	893	0.3+	0.2+	1998 11 11	704	0.2−	0.2−	1999 02 04	704	0.6+	0.6−
1994 12 06	893	0.2+	0.7+	1998 11 11	704	0.5−	0.2−	1999 02 04	704	0.3+	0.1−
1994 12 07	893	0.6+	0.3+	1998 11 11	704	0.4−	1.0−	1999 02 04	704	1.3+	0.3+
1994 12 07	893	0.6+	0.6+	1998 11 11	704	0.5+	1.0−	1999 02 15	699	0.7−	0.7−
1994 12 08	391	1.3+	1.1+	1998 11 11	704	0.1+	1.6−	1999 02 15	699	0.4−	0.2−
1994 12 08	391	1.4+	1.3+	1998 11 15	691	0.3−	0.1+	1999 02 15	699	0.5−	1.6−
1994 12 08	391	0.4+	1.4−	1998 11 15	691	0.4−	0.1−	2000 02 02	704	0.3−	0.5−
1994 12 10	893	0.3−	0.3−	1998 11 15	691	0.2−	0.0	2000 02 02	704	0.5+	0.1+
1994 12 10	893	0.4−	0.5−	1998 11 18	704	0.1+	0.0	2000 02 02	704	0.1−	0.1−
1994 12 20	893	1.0−	0.7+	1998 11 18	704	0.4+	0.0	2000 02 02	704	0.1+	1.0+
1994 12 20	893	0.5−	0.1−	1998 11 18	704	1.2+	1.3−	2000 02 02	704	0.1−	0.1+
1994 12 21	893	0.7−	0.2+	1998 11 18	704	1.1+	0.8−	2000 02 07	704	1.0+	0.4−
1994 12 21	893	0.6−	0.1+	1998 11 18	704	0.5+	1.1−	2000 02 07	704	0.0	0.1−
1994 12 22	893	0.3−	0.3+	1998 11 21	704	1.2+	0.5+	2000 02 07	704	0.1+	0.3+
1994 12 22	893	0.5−	0.3+	1998 11 21	704	1.1+	0.2+	2000 02 07	704	0.1+	0.0
1998 08 28	704	0.3−	0.6+	1998 11 21	704	1.8+	0.1−	2000 02 07	704	0.3+	0.2−
1998 08 28	704	0.5−	0.9+	1998 11 21	704	0.9+	0.9+	2000 02 10	704	0.6+	0.3−
1998 08 28	704	0.1−	0.5+	1998 11 21	704	0.7+	1.1+	2000 02 10	704	1.2+	1.4+
1998 08 28	704	0.6−	1.0+	1998 11 24	704	0.1−	1.4+	2000 02 10	704	0.0	0.1+
1998 08 31	704	0.7−	0.4−	1998 11 24	704	0.0	0.3+	2000 02 10	704	0.4+	0.6+
1998 08 31	704	0.9−	0.3+	1998 11 24	704	0.5−	0.1−	2000 03 01	703	0.3−	0.2+
1998 08 31	704	0.3−	0.2−	1998 11 24	704	0.1+	0.5−	2000 03 01	703	1.2−	0.3−
1998 08 31	704	0.2−	0.3+	1998 11 24	704	(3.0−, 0.7+)		2000 03 01	703	0.4−	0.2−
1998 08 31	704	0.6+	1.0−	1998 11 25	360	0.1−	1.1+	2000 03 01	703	0.3−	0.3−
1998 09 29	704	0.2+	0.8+	1998 11 25	360	0.3−	1.1+	2000 03 09	704	0.1+	0.1−
1998 09 29	704	(0.7+, 3.7−)		1998 11 25	360	0.2−	1.1+	2000 03 09	704	0.2−	0.1−
1998 09 29	704	(1.7+, 2.3+)		1998 12 13	716	0.5−	0.2−	2000 03 09	704	0.6−	0.2−
1998 09 29	704	1.3+	0.3−	1998 12 14	716	0.3+	0.3−	2000 03 09	704	0.3−	0.6−
1998 09 29	704	(3.1+, 1.0−)		1998 12 14	716	0.9+	0.7−	2000 03 09	704	0.1−	0.4−
1998 10 29	704	0.8−	0.3−	1999 01 11	704	0.8−	0.9−				

(14033)* 1994 YR = 1955 RN

Discovered 1994 Dec. 28 by T. Kobayashi at Oizumi.

Id. S. Nakano (unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		165.24243		(2000.0)		P		Q	
<i>n</i>		0.23221856	ω	243.07930		+0.96530558		+0.25066905	
<i>a</i>		2.6214290	Ω	102.33010		−0.20505882		+0.90112891	
<i>e</i>		0.2901311	<i>i</i>	4.29386		−0.16166637		+0.35373962	
<i>P</i>		4.24	<i>H</i>	14.0		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1955 09 13	760	0.2+	2.1−	1997 05 20	118	0.6−	0.4−	1998 12 22	704	0.3+	0.3−
1955 09 13	760	0.3+	0.6+	1997 05 20	118	0.4−	0.3+	1998 12 22	704	0.0	0.5−

1994 11 29	691	0.7−	0.4+	1997 05 20	118	0.7−	0.7−	1998 12 22	704	(1.8+ 2.6+)	
1994 11 29	691	0.5−	0.1+	1997 05 28	124	1.1−	1.0−	2000 02 04	704	0.9−	0.6−
1994 11 29	691	0.6−	0.4+	1997 05 28	124	0.9+	0.5+	2000 02 04	704	0.2+	0.2+
1994 12 28	411	0.3−	0.0	1997 06 04	118	0.7−	0.1−	2000 02 04	704	0.2−	0.3+
1994 12 28	411	0.9+	1.2+	1997 06 04	118	0.6−	0.1−	2000 03 05	704	0.2+	0.0
1994 12 29	411	0.4−	0.0	1997 06 04	118	0.9−	0.3−	2000 03 05	704	0.3+	0.1−
1994 12 29	411	0.1+	0.8−	1997 07 01	118	0.2+	1.2−	2000 03 05	704	0.2+	0.2−
1995 01 05	411	0.0	0.1+	1997 07 01	118	0.2+	0.6−	2000 03 05	704	0.7+	0.1+
1995 01 05	411	0.2−	0.0	1997 07 01	118	0.2−	1.6−	2000 03 05	704	0.5+	0.5+
1995 01 07	411	0.5+	0.1+	1998 11 18	411	0.7−	0.2−	2000 03 11	699	0.5−	0.5+
1995 01 07	411	0.5+	0.2−	1998 11 18	411	0.5−	0.3−	2000 03 11	699	0.5−	0.7−
1995 01 20	411	(1.2−, 2.5−)		1998 11 24	747	0.5+	0.5+	2000 03 11	699	0.5−	0.5+
1995 01 20	411	0.4+	1.6−	1998 11 24	747	0.3+	0.4+	2000 03 11	699	0.2+	0.5−
1997 05 11	118	0.0	0.0	1998 12 15	704	0.3+	0.6−	2000 03 12	704	0.1+	0.4+
1997 05 11	118	0.8+	0.7−	1998 12 15	704	1.3+	1.3−	2000 03 12	704	0.1+	0.3+
1997 05 11	118	0.1−	0.0	1998 12 15	704	0.3+	1.6−	2000 03 12	704	0.2−	0.5−
1997 05 12	118	1.1+	0.7−	1998 12 15	704	0.1−	1.2−	2000 03 12	704	0.2+	0.2+
1997 05 12	118	0.2+	0.3−	1998 12 15	704	0.1−	0.6−	2000 03 12	704	0.1+	0.0
1997 05 12	118	0.2+	0.2−	1998 12 22	704	0.7−	1.0−				

(14034)* 1995 BW = 1996 HF₁₂

Discovered 1995 Jan. 25 by T. Kobayashi at Oizumi.

Id. B. G. Marsden (*MPC* 27315)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		129.03545		(2000.0)		P		Q	
<i>n</i>		0.21780481	ω	7.33476		+0.80538253		−0.59222794	
<i>a</i>		2.7358423	Ω	29.02598		+0.54119231		+0.71746324	
<i>e</i>		0.0850451	<i>i</i>	2.95356		+0.24180541		+0.36675955	
<i>P</i>		4.53	<i>H</i>	14.0		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1995 01 25	411	0.2+	1.2−	1996 05 22	809	(0.7−, 5.5+)		2000 01 08	704	0.4+	1.3−
1995 01 25	411	0.2+	1.2−	1996 05 22	809	(0.3−, 4.1+)		2000 02 06	704	0.3+	0.7+
1995 01 26	411	0.4+	0.1+	1997 11 29	688	0.2+	0.2+	2000 02 06	704	0.0	0.6+
1995 01 26	411	0.1−	0.5−	1997 11 29	688	0.1−	0.0	2000 02 06	704	0.2+	1.3+
1995 01 30	411	0.4−	0.3+	1998 12 09	327	0.6+	0.4−	2000 02 06	704	0.6−	0.1−
1995 01 30	411	0.1−	0.1+	1998 12 09	327	0.7+	0.5−	2000 02 27	703	0.3−	0.6+
1995 02 06	411	0.1−	0.9−	1998 12 09	327	0.8+	0.2−	2000 02 27	703	0.6+	0.6+
1995 02 06	411	0.8−	1.0−	1998 12 13	327	0.2+	0.1−	2000 02 27	703	0.6−	0.7+
1995 02 10	411	0.2+	0.1−	1998 12 13	327	0.1+	0.1+	2000 02 27	703	0.2−	0.8+
1995 02 10	411	1.4−	0.0	1998 12 13	327	0.1−	0.2−	2000 02 29	704	1.9+	0.4+
1995 02 19	411	1.1+	0.4−	1998 12 14	704	0.4−	0.5−	2000 02 29	704	0.3+	0.1+
1995 02 19	411	0.8−	0.9−	1998 12 14	704	0.2+	1.3+	2000 02 29	704	0.3−	0.2−
1996 04 17	809	1.7−	0.8−	1998 12 14	704	1.8−	1.1+	2000 03 11	699	0.0	0.9+
1996 04 17	809	0.6−	1.0−	1998 12 14	704	1.0−	0.9+	2000 03 11	699	1.0−	0.5+
1996 04 17	809	1.6−	1.0−	1998 12 17	704	0.7+	1.6−	2000 03 11	699	1.4−	1.8+
1996 04 18	809	0.9+	1.3−	1998 12 17	704	(1.1+, 2.2−)		2000 03 11	704	0.9+	0.5+
1996 04 18	809	0.1+	0.9−	1998 12 17	704	(0.0, 2.5−)		2000 03 11	699	0.1−	1.5+

2000 MAR. 20

M.P.C. 39061

Residuals in seconds of arc

1991 08 06	675	0.6+	1.2-	1999 12 31	699	0.4+	0.5-	2000 01 30	704	0.1+	0.5+
1991 08 06	675	0.0	1.2-	1999 12 31	699	0.0	0.3+	2000 01 30	704	0.1+	0.3+
1991 08 10	675	0.7-	0.4+	1999 12 31	699	0.0	0.0	2000 01 30	704	0.0	0.1+
1991 08 10	675	0.2+	1.0-	2000 01 04	120	2.1+	0.6+	2000 02 03	704	0.1+	0.1+
1995 02 01	411	0.5+	1.1-	2000 01 04	120	0.3+	1.4-	2000 02 03	704	0.0	0.3+
1995 02 01	411	0.2-	1.2-	2000 01 04	120	0.7+	0.3-	2000 02 03	704	0.3+	0.5+
1995 02 03	411	0.1-	0.1+	2000 01 05	120	1.0-	0.8-	2000 02 03	704	0.4+	0.1+
1995 02 03	411	0.7+	0.3-	2000 01 05	704	0.3-	0.4-	2000 02 03	704	0.2+	0.4+
1995 02 07	411	0.9-	1.0-	2000 01 05	704	0.3-	0.1-	2000 02 08	691	0.0	0.6-
1995 02 07	411	0.6+	0.1-	2000 01 05	704	0.2-	0.0	2000 02 08	691	0.1+	0.6-
1995 02 10	411	0.8-	0.5-	2000 01 05	704	0.1-	0.1+	2000 02 08	691	0.0	0.7-
1997 10 25	688	0.1-	0.3+	2000 01 05	704	0.7-	0.3-	2000 02 11	704	0.2-	0.3+
1997 10 25	688	0.3+	0.3+	2000 01 06	704	0.3-	0.1+	2000 02 11	704	0.0	0.8-
1997 10 26	688	0.1+	0.4-	2000 01 06	704	0.0	0.1+	2000 02 11	704	0.6-	0.5+
1997 10 26	688	0.1+	0.4+	2000 01 06	704	0.4-	0.2-	2000 02 11	704	0.6-	0.3+
1998 12 17	699	0.3-	0.7-	2000 01 06	704	0.6-	0.2+	2000 03 04	704	0.2+	0.1+
1998 12 17	699	0.2-	0.2-	2000 01 27	691	0.2+	0.1-	2000 03 04	704	0.3+	0.7+
1998 12 17	699	0.8+	0.2-	2000 01 27	691	0.1+	0.0	2000 03 04	704	0.3-	0.2-
1999 12 05	699	0.0	0.2+	2000 01 27	691	0.1+	0.1-	2000 03 04	704	0.5-	1.0+
1999 12 05	699	0.6-	0.8+	2000 01 30	704	0.2-	0.6+				
1999 12 05	699	0.3+	0.3-	2000 01 30	704	0.1+	0.6+				

(14036)* 1995 EY₇ = 1997 QQ

Discovered 1995 Mar. 5 by M. Hirasawa and S. Suzuki at Nyukasa.

Id. G. V. Williams (*MPC* 30665)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Williams	
<i>M</i>	88.93306	(2000.0)	P	Q	
<i>n</i>	0.20943074	ω 254.51229	-0.19134990	-0.97948719	
<i>a</i>	2.8082931	Ω 206.76981	+0.94571101	-0.16676107	
<i>e</i>	0.0915807	<i>i</i> 8.06198	+0.26270877	-0.11311764	
<i>P</i>	4.71	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1995 03 05	408	(1.3- 3.3+)	1998 12 15	704	0.0	0.4-	1999 01 20	704	0.4+	0.3+
1995 03 05	408	(0.6+ 2.5-)	1998 12 15	704	1.4-	0.2-	1999 01 20	704	0.2-	0.5+
1995 03 07	408	(2.6+ 0.4-)	1998 12 16	747	0.1+	0.2+	1999 01 20	704	1.0-	0.5+
1995 03 07	408	0.8- 0.6+	1998 12 16	747	0.0	0.2+	1999 04 07	704	0.0	1.4-
1995 03 28	409	0.9+ 0.3+	1998 12 17	747	0.2+	0.1-	1999 04 07	704	1.4+	1.9+
1995 03 28	409	0.4+ 0.9+	1998 12 17	747	0.4+	0.1+	1999 04 07	704	0.4+	0.2+
1995 04 04	409	(0.6- 2.0+)	1998 12 22	704	0.1-	0.0	1999 04 07	704	0.7+	1.1-
1995 04 04	409	0.2- 0.7-	1998 12 22	704	0.7+	0.9+	2000 01 06	699	1.4-	0.6+
1997 08 26	557	0.2- 0.8+	1998 12 22	704	1.2+	0.7-	2000 01 06	699	1.0-	0.4+
1997 08 26	557	0.2- 0.7+	1998 12 22	704	0.8-	0.3+	2000 01 06	699	0.4-	0.8+
1997 08 26	557	0.3- 0.7+	1998 12 22	704	(0.4+ 2.2+)		2000 02 10	704	0.1-	0.7+
1997 08 26	557	0.2- 0.7+	1999 01 14	716	0.2-	0.0	2000 02 10	704	0.0	0.5+
1997 08 26	557	0.2- 0.8+	1999 01 14	716	0.7-	0.4+	2000 02 10	704	0.5+	0.4+
1997 08 26	557	0.1- 0.5+	1999 01 18	704	1.3-	0.7+	2000 03 14	704	0.7+	1.3-
1997 08 26	557	0.0 0.7+	1999 01 18	704	1.2+	0.5-	2000 03 14	704	0.1+	0.7+
1997 08 27	557	0.3- 0.9+	1999 01 18	704	0.5+	0.4-	2000 03 14	704	1.4+	1.1+
1998 12 15	704	0.4+ 0.1-	1999 01 18	704	0.4-	0.4-	2000 03 14	704	0.7+	0.3+
1998 12 15	704	1.3+ 1.9+	1999 01 20	704	0.2+	0.0	2000 03 14	704	0.6-	1.1+
1998 12 15	704	1.9- 0.5-	1999 01 20	704	0.2+	0.1-				

(14037)* 1995 EZ₇ = 1987 PJ = 1998 XU₉₂

Discovered 1995 Mar. 5 by M. Hirasawa and S. Suzuki at Nyukasa.

Id. A. Doppler (*MPC* 33944)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Williams	
<i>M</i>	11.47154	(2000.0)	P	Q	
<i>n</i>	0.20519178	ω 332.60003	-0.99629757	+0.02804923	
<i>a</i>	2.8468379	Ω 209.35252	-0.00600427	-0.96567323	
<i>e</i>	0.0719714	<i>i</i> 9.54315	-0.08576183	-0.25824107	
<i>P</i>	4.80	<i>H</i> 13.1	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1987 08 06	010	1.6-	0.6+	1998 12 07	104	(0.0 2.3-)	2000 02 10	704	0.3+	0.3+	
1987 08 06	010	0.9+	1.4+	1998 12 07	104	0.3-	0.4-	2000 02 10	704	0.9+	0.3+
1987 08 06	010	0.1-	1.1+	1998 12 15	704	1.2+	0.6+	2000 03 10	704	0.2+	0.8-
1995 03 05	408	1.5+	0.1-	1998 12 15	704	0.8+	0.6-	2000 03 10	704	1.4-	0.1-
1995 03 05	408	(2.9+ 1.6-)		1998 12 15	704	0.0	0.7+	2000 03 10	704	(0.5- 2.5+)	
1995 03 06	408	0.6-	0.7-	1998 12 15	704	1.5+	0.0	2000 03 11	704	0.8+	0.4-
1995 03 06	408	(2.3- 0.2+)		1998 12 15	704	(3.3+ 1.1+)		2000 03 11	704	1.2+	1.8+
1995 03 07	408	0.2-	0.8+	1998 12 22	704	0.7-	0.7+	2000 03 11	704	0.3+	1.3+
1995 03 07	408	0.2+	1.0+	1998 12 22	704	0.2-	0.5+	2000 03 11	704	(1.1+ 3.4+)	
1995 03 20	409	0.1+	0.6+	1998 12 22	704	0.7-	0.2+	2000 03 11	704	(0.7- 3.1+)	
1995 03 20	409	0.1+	0.7+	1998 12 22	704	0.7-	0.6+	2000 03 14	704	0.3+	0.7+
1995 03 21	409	0.1-	0.7+	1998 12 22	704	0.2+	0.5+	2000 03 14	704	1.4-	0.4+
1995 03 21	409	0.2-	0.2+	1999 02 04	704	(0.8+ 2.3-)		2000 03 14	704	0.6+	1.6+
1997 10 30	704	0.1+	0.8+	1999 02 04	704	0.3-	0.5+	2000 03 14	704	(1.5- 2.7+)	
1997 10 30	704	0.4+	1.3+	1999 02 04	704	1.1-	1.4-	2000 03 15	428	0.3-	0.3-
1997 10 30	704	0.6-	0.8+	1999 02 04	704	0.2+	0.9-	2000 03 15	428	1.0-	0.1-
1997 10 30	704	0.9-	0.9+	1999 02 04	704	(4.6- 0.3+)					
1997 10 30	704	0.1-	0.4+	2000 02 10	704	0.6+	1.5-				

(14038)* 1995 HR = 1977 EA

Discovered 1995 Apr. 27 by S. Ueda and H. Kaneda at Kushiro.

Id. G. V. Williams (*MPC* 25434)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Williams	
<i>M</i>	274.83564	(2000.0)	P	Q	
<i>n</i>	0.17775450	ω 76.78163	+0.09815254	+0.99313730	
<i>a</i>	3.1327253	Ω 199.19921	-0.97145145	+0.08174816	
<i>e</i>	0.1867334	<i>i</i> 11.15041	-0.21598186	+0.08363937	
<i>P</i>	5.54	<i>H</i> 12.7	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1977 03 12	809	0.0	0.6-	1996 10 03	494	0.3+	0.5+	2000 03 01	703	0.1+	0.1-
1977 03 13	809	0.2+	0.7-	1996 10 03	494	0.4+	0.0	2000 03 01	703	0.0	0.3-
1989 03 09	675	0.7+	0.4+	2000 02 02	704	(0.9+	5.5+)	2000 03 01	703	0.2-	0.2-
1989 03 09	675	0.6-	0.2+	2000 02 02	704	0.9+	0.4+	2000 03 08	704	0.5+	0.1-
1991 10 13	691	0.1-	0.4+	2000 02 02	704	0.4+	0.8+	2000 03 08	704	0.5+	0.6+
1991 10 13	691	0.4-	0.4+	2000 02 07	704	0.8-	0.1-	2000 03 08	704	0.5-	0.5+
1991 10 13	691	0.5-	0.3+	2000 02 07	704	0.4-	0.4-	2000 03 08	704	0.7+	1.2+
1995 04 27	399	0.3-	0.9+	2000 02 07	704	0.3-	0.2+	2000 03 08	704	0.3-	0.7+
1995 04 27	399	0.3+	1.4+	2000 02 07	704	0.7-	0.2-	2000 03 13	704	0.1+	0.3+
1995 05 05	399	(3.1- 0.9-)		2000 02 07	704	0.6-	0.2-	2000 03 13	704	0.9+	0.3+
1995 05 05	399	(4.7- 0.3+)		2000 02 08	704	0.6+	0.2+	2000 03 13	704	0.8+	0.2+
1995 05 26	399	0.2-	1.2-	2000 02 08	704	0.1+	0.7+	2000 03 13	704	0.5-	0.5-
1995 05 26	399	0.0	0.8-	2000 02 08	704	0.2+	0.6-	2000 03 13	704	0.6+	0.0
1995 05 28	399	(2.3- 1.7-)		2000 02 08	704	0.6+	0.5+	2000 03 14	608	0.7-	1.3-
1995 05 28	399	(3.9- 1.2-)		2000 02 08	704	0.1-	1.1+	2000 03 14	608	1.0-	1.0-
1996 10 03	494	(1.3- 2.4-)		2000 03 01	703	0.1+	0.3+	2000 03 14	608	0.7-	1.8-

(14039)* 1995 KZ₁ = 1985 SL₁ = 1986 XJ₄ = 1997 VU₄

Discovered 1995 May 28 by E. F. Helin at Palomar.

Id. T. B. Spahr (*MPC* 30875), T. Urata (*ibid.*), S. Nakano (unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Williams	
<i>M</i>	302.73152	(2000.0)	P	Q	
<i>n</i>	0.17191877	ω 18.81276	-0.45779238	+0.86753455	
<i>a</i>	3.2032231	Ω 224.51266	-0.84713550	-0.49201418	
<i>e</i>	0.0904998	<i>i</i> 16.10270	-0.26979175	+0.07284129	
<i>P</i>	5.73	<i>H</i> 12.2	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1985 09 16	675	0.1+	0.2-	1997 10 29	704	1.5-	1.8+	1999 01 20	704	0.1-	0.3+
1985 09 16	675	0.3-	0.1+	1997 10 30	704	0.8+	1.7-	1999 01 20	704	0.0	0.7+
1986 12 05	010	(12.2+	8.2+)	1997 10 30	704	0.9+	1.7-	1999 01 20	704	(0.4-	2.3-)
1986 12 05	010	(9.5+	4.9+)	1997 10 30	704	1.0+	0.9-	2000 01 11	704	1.0+	0.0
1986 12 05	010	(6.0+	4.2+)	1997 10 30	704	0.5+	1.2-	2000 01 11	704	0.7+	0.2-
1995 05 22	010	0.8-	0.8+	1997 10 30	704	0.5-	1.1-	2000 01 11	704	0.1+	0.5-

1995 05 22	010	1.8–	0.6+	1997 11 04	905	1.6+	1.3+	2000 01 11	704	0.2+	0.2–
1995 05 22	010	(3.1–	0.7+)	1997 11 04	905	1.7+	0.2+	2000 01 11	704	0.7+	0.4–
1995 05 23	010	(3.6–	3.0+)	1997 11 06	905	0.9+	0.8+	2000 03 02	423	0.8–	1.4–
1995 05 23	010	1.3–	1.2+	1997 11 06	905	0.0	1.6+	2000 03 02	423	0.1+	1.3–
1995 05 23	010	(4.4–	3.3+)	1998 12 15	704	1.5+	0.8+	2000 03 13	704	0.8+	1.5+
1995 05 28	675	1.8+	0.0	1998 12 15	704	1.0+	0.5–	2000 03 13	704	0.2+	1.1+
1995 05 28	675	1.0+	0.1+	1998 12 15	704	0.6+	1.9–	2000 03 13	704	0.4+	1.0+
1995 05 30	675	0.9+	1.1+	1998 12 15	704	0.3+	1.3+	2000 03 13	704	(0.6+	2.3+)
1995 05 30	675	0.3+	1.1+	1998 12 22	704	0.0	0.0	2000 03 13	704	(0.9+	2.4+)
1997 10 29	704	1.8–	0.8+	1998 12 22	704	0.3–	0.4–	2000 03 14	704	1.0–	0.4–
1997 10 29	704	1.2–	0.9+	1998 12 22	704	0.8–	0.3+	2000 03 14	704	1.3–	0.1+
1997 10 29	704	1.2–	1.2+	1998 12 22	704	0.8–	1.9+	2000 03 14	704	1.3–	0.6–
1997 10 29	704	1.8–	0.8+	1999 01 20	704	0.4+	0.7+				

(14040)* 1995 QD₂

Discovered 1995 Aug. 23 by A. Galád at the Astronomical and Geophysical Observatory, Modra.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	116.23675	(2000.0)		P	Q		
<i>n</i>	0.30681477	ω	105.09633	+0.81840547	–0.57128844		
<i>a</i>	2.1771342	Ω	289.78095	+0.49868653	+0.75968239		
<i>e</i>	0.1119011	<i>i</i>	3.77685	+0.28552448	+0.31066411		
<i>P</i>	3.21	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1995 08 23	118	0.1+	0.2–	1997 03 06	118	0.2–	0.2+	1998 08 31	118	0.3–	0.7–
1995 08 23	118	0.1–	0.2–	1997 03 30	118	0.2+	0.1–	1998 08 31	118	0.9–	0.6–
1995 08 23	118	0.2–	0.0	1997 03 30	118	0.0	0.1–	1998 09 14	704	0.8–	0.5–
1995 08 23	118	0.3+	0.3–	1997 04 01	118	0.4+	0.1–	1998 09 14	704	0.3+	0.5+
1995 08 23	118	0.1+	0.3–	1997 04 01	118	0.2+	0.2–	1998 09 14	704	0.0	0.5–
1995 08 23	118	0.3+	0.5–	1997 04 01	118	0.1+	0.1+	1998 09 14	704	0.9–	0.3–
1995 08 23	118	0.3+	0.1–	1997 04 02	118	0.3–	0.2–	1998 09 14	704	(0.3–	2.6+)
1995 08 24	118	0.2+	0.3–	1997 04 02	118	0.3+	0.2–	1998 09 18	704	0.3–	0.1+
1995 08 26	118	1.6–	0.1+	1997 04 02	118	0.0	0.0	1998 09 18	704	0.4+	0.7–
1995 08 26	118	1.7–	0.4+	1997 04 03	118	0.0	0.1–	1998 09 18	704	0.7–	0.2+
1995 09 04	118	0.4+	0.7–	1997 04 03	118	0.2–	0.2–	1998 09 18	704	(2.5–	1.9+)
1995 09 04	118	0.2–	0.4–	1998 07 26	699	1.1+	1.4+	1998 09 18	704	0.7–	0.7–
1995 09 06	118	0.5–	0.0	1998 07 26	699	0.1+	1.6+	2000 02 02	704	0.1–	0.2–
1995 09 06	118	0.1–	0.1+	1998 07 26	699	0.1+	1.5+	2000 02 02	704	0.4+	0.1+
1995 09 07	118	0.8–	0.3–	1998 08 05	118	0.6+	0.2+	2000 02 02	704	0.1–	0.1+
1995 09 16	118	0.0	0.8+	1998 08 05	118	0.0	0.6+	2000 02 02	704	0.8+	0.5+
1995 09 16	118	0.2–	0.8+	1998 08 05	118	1.0+	0.8+	2000 02 02	704	0.0	0.1+
1995 09 17	118	0.2–	0.7+	1998 08 16	118	0.1+	0.2+	2000 02 08	704	0.3+	0.2+
1995 09 18	118	0.4+	0.9+	1998 08 16	118	0.0	0.1+	2000 02 08	704	0.1–	0.1+
1995 09 24	118	0.2–	0.6–	1998 08 17	704	0.5+	0.3+	2000 02 08	704	0.7+	0.5–
1995 09 29	118	0.6+	0.6+	1998 08 17	704	0.4–	0.0	2000 02 08	704	0.7–	0.5+
1995 09 30	118	0.6+	0.4+	1998 08 17	704	0.1+	0.4–	2000 03 04	118	0.4+	0.7+
1995 10 04	118	0.4+	0.2+	1998 08 17	704	0.2–	1.0–	2000 03 04	118	0.5+	0.3–
1995 10 05	118	0.1–	0.1+	1998 08 17	704	0.5+	1.0–	2000 03 08	704	0.5+	1.0+
1995 10 19	118	0.0	1.7–	1998 08 19	118	0.4–	0.0	2000 03 08	704	0.0	0.1–
1995 10 21	118	0.3+	0.4–	1998 08 19	118	0.5–	0.1+	2000 03 08	704	0.6–	0.1+
1995 10 22	118	0.3+	0.2+	1998 08 23	704	0.2+	0.6–	2000 03 08	704	0.7–	0.1+
1995 10 26	118	0.1+	0.1+	1998 08 23	704	0.4–	0.3+	2000 03 08	704	0.2–	0.2+
1995 12 28	118	0.4+	0.2–	1998 08 23	704	0.1+	0.2+	2000 03 11	699	0.3+	0.9+
1996 01 15	118	0.3+	0.7+	1998 08 23	704	0.8–	0.4–	2000 03 11	699	0.0	0.5+
1996 01 15	118	0.3+	0.5+	1998 08 25	560	1.0–	0.3–	2000 03 11	699	0.4+	0.6+
1997 02 07	118	0.7–	0.7–	1998 08 25	560	1.1–	0.2+	2000 03 11	699	0.3–	0.1–
1997 02 07	118	1.1–	0.9–	1998 08 25	560	0.8–	0.8–	2000 03 12	704	0.5–	0.3+
1997 02 07	118	1.0–	1.3–	1998 08 25	910	1.2+	0.7+	2000 03 12	704	0.4+	0.8–
1997 02 10	118	1.0+	0.5–	1998 08 25	910	1.6+	0.7+	2000 03 12	704	0.4+	1.3+
1997 02 10	118	0.4+	1.3–	1998 08 26	910	1.5+	0.6+	2000 03 12	704	0.2–	0.4–
1997 03 06	118	0.7–	0.1+	1998 08 26	118	0.1+	0.6+	2000 03 12	704	1.0+	1.6+
1997 03 06	118	0.2–	0.2+	1998 08 26	118	0.1+	0.3+				

(14041)* 1995 SO₅₄ = 1992 YR₅

Discovered 1995 Sept. 21 by F. Börngen at Tautenburg.

Id. G. V. Williams (*MPC* 29624)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	79.46779	(2000.0)		P	Q		
<i>n</i>	0.28399358	ω	268.93560	+0.80155240	–0.59603771		
<i>a</i>	2.2922591	Ω	127.64916	+0.56966323	+0.73714038		
<i>e</i>	0.1749851	<i>i</i>	3.43675	+0.18165230	+0.31837573		
<i>P</i>	3.47	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1988 09 10	675	0.4+	0.2–	2000 01 04	704	0.3–	1.2+	2000 01 30	704	0.5–	0.2+
1988 09 10	675	0.3+	0.5–	2000 01 04	704	(1.0+	2.7+)	2000 02 03	704	0.2–	0.5+
1992 12 24	691	0.4–	0.8–	2000 01 04	704	0.5–	1.2+	2000 02 03	691	0.7+	0.8–
1992 12 24	691	0.3–	0.0	2000 01 05	113(47.2–	16.4+)		2000 02 03	704	0.0	0.2+
1992 12 24	691	0.7+	0.1–	2000 01 05	113	0.1+	0.3–	2000 02 03	704	0.0	0.2+
1993 01 02	385	0.6–	0.3+	2000 01 06	704	0.1–	0.2+	2000 02 03	691	0.7+	0.8–
1993 01 02	385	(2.0+	2.1–)	2000 01 06	704	0.0	0.1–	2000 02 03	704	0.4+	0.6+
1995 09 21	033	0.5+	0.0	2000 01 06	704	0.5+	0.2+	2000 02 03	691	0.8+	0.8–
1995 09 21	033	0.4–	0.6+	2000 01 06	704	0.2+	0.2+	2000 02 03	704	0.3–	0.2+
1995 09 23	033	0.5–	0.3+	2000 01 11	691	0.9–	0.0	2000 02 06	691	0.2+	0.4–
1995 10 23	033	0.1–	0.6–	2000 01 11	691	1.0–	0.0	2000 02 06	691	0.1+	0.5–
1995 10 23	033	0.7+	0.4–	2000 01 11	691	0.8–	0.0	2000 02 06	691	0.2+	0.5–
1995 10 24	033	0.3–	0.4+	2000 01 11	113	0.3–	0.0	2000 02 09	120	1.2+	0.0
1995 10 25	033	0.4–	0.1+	2000 01 11	113	0.1+	0.0	2000 02 09	120	0.9+	0.9–
1999 11 17	704	0.2+	0.5–	2000 01 12	113	0.3–	0.4+	2000 02 11	704	0.2+	0.1–
1999 11 17	704	0.1+	0.6–	2000 01 12	113	0.3–	0.3+	2000 02 11	704	0.2+	0.1+
1999 11 17	704	0.4+	1.2–	2000 01 27	151	0.5–	0.1–	2000 02 11	704	0.1+	0.6–
1999 11 17	704	0.1–	0.2+	2000 01 27	151	(2.5–	0.2–)	2000 02 11	704	0.4–	0.9–
1999 12 09	699	0.2–	0.3+	2000 01 27	151	0.1+	0.4–	2000 02 11	704	0.3–	0.7–
1999 12 09	699	0.9+	0.8+	2000 01 27	151	0.2+	0.9–	2000 02 11	113	0.9–	0.6+
1999 12 09	699	0.2+	0.3+	2000 01 30	703	0.3–	0.3+	2000 02 11	113	0.1–	0.2+
1999 12 31	699	0.5+	0.2+	2000 01 30	703	0.3+	0.4+	2000 02 11	113	0.5–	0.4+
1999 12 31	699	0.6+	0.5+	2000 01 30	703	0.2–	0.0	2000 02 12	113	0.3–	0.3+
1999 12 31	699	1.3+	1.3+	2000 01 30	703	0.2–	0.3+	2000 02 24	703	0.3–	0.1–
2000 01 03	691	0.1+	0.4–	2000 01 30	704	0.1–	0.1–	2000 02 24	703	0.0	0.1+
2000 01 03	691	0.2+	0.3–	2000 01 30	704	0.6–	0.4–	2000 02 24	703	0.0	0.1–
2000 01 03	691	0.1+	0.8–	2000 01 30	704	0.1+	0.5+	2000 02 24	703	0.2–	0.0
2000 01 04	704	0.1+	0.6+	2000 01 30	704	0.0	0.3+				

(14042)* 1995 UG₅ = 1994 GF₄

Discovered 1995 Oct. 16 by T. V. Kryachko at the Zelenchukskaya Station of the Engelhardt Observatory.

Id. A. Doppler (*MPC* 32945)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	136.79917	(2000.0)		P	Q		
<i>n</i>	0.29981752	ω	326.96823	+0.99829281	+0.04510864		
<i>a</i>	2.2108777	Ω	30.51164	–0.02334408	+0.89045175		
<i>e</i>	0.1687840	<i>i</i>	4.19091	–0.05353998	+0.45283650		
<i>P</i>	3.29	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

2000 MAR. 20

M.P.C. 39063

1995 10 22	691	1.0+	0.2+	1998 11 20	699	1.5-	0.7+	2000 03 04	704	0.5-	0.3+
1995 10 22	691	1.1+	0.3+	1998 11 20	699	1.7-	0.8-	2000 03 04	704	0.6-	0.5-
1995 10 27	691	0.3+	0.1+	1998 11 20	699	0.2-	1.0-	2000 03 04	704	0.4-	0.2+
1995 10 27	691	0.2+	0.2+	2000 01 30	703	0.1+	0.8+	2000 03 04	704	0.0	0.0
1995 10 27	691	0.6+	0.3+	2000 01 30	703	0.4+	0.3+				

(14043)* 1995 UA₄₅

Discovered 1995 Oct. 20 by N. Kawasato at Uenohara.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	96.06889		(2000.0)		P		Q
<i>n</i>	0.30254035	ω	355.49297		+0.40853865		-0.90756576
<i>a</i>	2.1975926	Ω	70.36923		+0.84061166		+0.33268869
<i>e</i>	0.1343564	<i>i</i>	5.91478		+0.35562370		+0.25620819
<i>P</i>	3.26	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 11 24	033	0.2+	0.1-	1997 05 04	376	0.1+	0.9+	1998 09 22	699	0.7-	1.7+
1992 11 24	033	0.3+	1.0+	1998 08 19	699	0.1+	0.4-	1998 09 22	699	0.9-	0.8+
1995 10 20	376	0.1+	0.8+	1998 08 19	699	0.4-	0.9-	2000 01 08	704	1.1+	0.3+
1995 10 20	376	0.9-	0.9-	1998 08 19	699	0.5+	0.1-	2000 01 08	704	0.5+	0.4+
1995 10 27	376	0.1-	0.5+	1998 09 01	426	0.8+	0.2-	2000 01 08	704	0.5+	0.5-
1995 10 27	376	(0.8-	4.0+)	1998 09 01	426	0.7+	0.6-	2000 01 08	704	0.7+	1.1-
1995 11 30	327	0.3+	0.2-	1998 09 01	426	0.7+	0.4-	2000 03 12	703	1.1-	0.4+
1995 11 30	327	0.4-	0.3+	1998 09 03	426	0.0	0.0	2000 03 12	703	0.3-	0.1-
1995 11 30	327	0.2-	0.1+	1998 09 03	426	0.0	0.1-	2000 03 12	703	0.6+	0.1+
1995 12 02	327	0.2+	0.5+	1998 09 03	426	0.2+	0.6-	2000 03 12	703	0.0	0.4+
1995 12 02	327	0.0	0.0	1998 09 21	704	0.1+	0.4+	2000 03 12	704	0.3+	0.7+
1995 12 02	327	0.2-	0.3-	1998 09 21	704	0.3-	1.3+	2000 03 12	704	0.1-	0.7+
1995 12 07	327	0.1+	0.2-	1998 09 21	704	0.1-	0.6+	2000 03 12	704	0.1+	0.7+
1995 12 07	327	0.3+	0.2-	1998 09 21	704	0.1-	0.3+	2000 03 12	704	0.4+	0.5+
1995 12 07	327	0.1-	0.0	1998 09 21	704	0.2-	0.6+				
1997 05 04	376	0.3+	1.2+	1998 09 22	699	1.2-	1.2+				

(14044)* 1995 VS₁ = 1991 RJ₈ = 1999 XH₁₆₉

Discovered 1995 Nov. 1 by S. Otomo at Kiyosato.

Id. M. E. Sansaturio (*MPC* 38451)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	72.62450		(2000.0)		P		Q
<i>n</i>	0.26009277	ω	328.23623		+0.94705218		-0.30777312
<i>a</i>	2.4306207	Ω	49.96985		+0.31389473		+0.82755512
<i>e</i>	0.1353128	<i>i</i>	6.86130		+0.06754454		+0.46949784
<i>P</i>	3.79	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 09 12	675	0.4-	0.2-	1999 10 05	704	0.9+	1.1-	1999 12 15	704	0.1+	0.5-
1991 09 12	675	0.9-	0.2+	1999 10 05	704	0.5+	0.4+	1999 12 15	704	0.1-	0.7-
1991 09 14	675	0.8+	0.4+	1999 10 05	704	0.0	0.4-	1999 12 15	704	0.5-	0.5-
1991 09 14	675	0.0	0.6-	1999 10 05	704	0.1-	0.0	1999 12 15	704	0.6-	0.9-
1995 11 01	894	(2.3-	0.6+)	1999 11 14	704	0.1+	0.4-	2000 01 02	704	0.1+	0.3-
1995 11 01	894	(2.5+	4.7-)	1999 11 14	704	1.2-	1.6-	2000 01 02	704	0.3-	0.4-
1995 11 02	894	0.8-	1.5+	1999 11 14	704	1.1-	0.3-	2000 01 02	704	(3.4-	0.8+)
1995 11 02	894	0.7+	0.4-	1999 11 14	704	0.3-	0.3-	2000 01 04	704	0.1+	0.2-
1995 11 12	894	0.2-	1.6+	1999 11 16	704	0.0	0.2-	2000 01 04	704	0.0	0.2+
1995 11 12	894	1.0+	1.9+	1999 11 16	704	0.1+	0.2+	2000 01 04	704	0.3-	0.2-
1995 11 16	894	1.3-	0.4+	1999 11 16	704	0.2+	0.4+	2000 01 04	704	0.5-	0.5-
1995 11 16	894	0.2-	0.1-	1999 11 16	704	0.0	0.3-	2000 01 04	704	0.1-	0.8-
1997 04 11	327	0.6+	0.6+	1999 11 16	704	0.1+	0.0	2000 02 11	704	0.9-	0.3+
1997 04 11	327	0.3+	0.6+	1999 12 10	704	0.7+	0.3+	2000 02 11	704	0.3-	1.1+
1997 04 11	327	0.3+	0.6+	1999 12 10	704	0.9+	1.1+	2000 02 11	704	0.3-	0.8+
1998 06 26	704	0.0	2.0+	1999 12 10	704	0.3+	0.4+	2000 02 11	704	0.1+	1.4+
1998 06 26	704	0.2-	1.1-	1999 12 10	704	0.4+	0.2-	2000 02 11	704	0.2-	0.9+
1998 06 26	704	0.9+	0.6-	1999 12 10	704	0.8+	0.2+				
1998 06 26	704	0.7-	1.0+	1999 12 15	704	0.3+	0.3-				

(14045)* 1995 VW₁ = 1989 EY₈

Discovered 1995 Nov. 4 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 32670)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	63.28524		(2000.0)		P		Q
<i>n</i>	0.27305481	ω	188.93944		-0.21247861		-0.96724056
<i>a</i>	2.3530772	Ω	273.41672		+0.90491444		-0.14111971
<i>e</i>	0.1476640	<i>i</i>	7.99962		+0.36875832		-0.21102350
<i>P</i>	3.61	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1989 03 07	413	0.4-	0.8+	1996 04 09	327	0.3+	0.7+	1998 12 09	704	1.9+	0.1+
1989 03 07	413	0.3+	0.5-	1996 04 11	327	1.0+	0.6+	1998 12 22	699	1.0-	1.9-
1995 11 04	327	0.2-	1.4-	1996 04 11	327	1.0+	0.6-	1998 12 22	699	0.2+	1.5+
1995 11 04	327	0.1-	0.7-	1996 04 11	327	0.8-	0.3-	1998 12 22	699	1.1-	0.1+
1995 11 04	327	0.6-	0.2-	1998 09 19	699	0.1-	0.4-	1998 12 24	699	0.5-	0.4-
1995 11 05	327	1.4-	0.7-	1998 09 19	699	0.2+	0.5+	1998 12 24	699	0.6-	0.9+
1995 11 05	327	0.1-	0.5-	1998 09 19	699	0.1-	0.3+	1998 12 24	699	0.0	1.2+
1995 11 05	327	0.2-	1.1-	1998 09 25	699	0.2-	0.2+	2000 01 10	704	0.0	0.6-
1995 11 18	327	0.5+	0.4+	1998 09 25	699	0.4+	0.0	2000 01 10	704	0.2-	1.0-
1995 11 18	327	0.8+	0.4+	1998 09 25	699	0.4-	0.6+	2000 01 10	704	0.1+	0.4-
1995 11 18	327	0.7+	0.6+	1998 10 18	704	0.0	0.2-	2000 01 10	704	0.6-	0.3+
1995 11 28	327	0.1-	0.1+	1998 10 18	704	0.2-	0.6-	2000 01 28	704	0.7+	1.0+
1995 11 28	327	0.3-	0.4+	1998 10 18	704	0.2-	1.1-	2000 01 28	704	0.1+	0.9+
1995 11 28	327	0.6-	0.2+	1998 10 18	704	1.1+	0.5+	2000 01 28	704	(0.1+	2.5+)
1995 11 29	327	0.1-	0.5+	1998 10 18	704	0.1+	0.9-	2000 01 28	704	1.7+	0.4+
1995 11 29	327	0.0	0.1+	1998 10 18	699	0.6+	0.2-	2000 03 14	704	0.3-	0.3-
1995 11 29	327	0.4-	0.3+	1998 10 18	699	0.3-	0.6-	2000 03 14	704	0.7-	0.0
1995 11 30	327	0.5+	0.6+	1998 10 18	699	1.0+	0.2-	2000 03 14	704	0.5-	0.8-
1995 11 30	327	0.3+	0.1-	1998 12 09	704	0.4+	0.8-	2000 03 14	704	0.7-	0.7-
1995 11 30	327	0.5-	0.6-	1998 12 09	704	1.8-	1.5+	2000 03 14	704	0.5-	0.9-
1996 04 09	327	1.0+	0.3+	1998 12 09	704	0.0	0.2-				

(14046)* 1995 WE₅ = 1998 SC₁₄

Discovered 1995 Nov. 17 by T. Okuni at Nanyo.

Id. E. Bowell (*MPC* 32671), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	91.51325		(2000.0)		P		Q
<i>n</i>	0.28674737	ω	1.74393		+0.53948618		-0.83793255
<i>a</i>	2.2775596	Ω	55.61598		+0.77129806		+0.45245503
<i>e</i>	0.1115817	<i>i</i>	5.74466		+0.33771877		+0.30521058
<i>P</i>	3.44	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1995 11 17	358	1.1+	0.4+	2000 01 07	704	0.1+	0.3+	2000 02 29	704	0.2-	0.1-
1995 11 17	358	1.7-	0.4-	2000 01 07	704	0.3+	0.4-	2000 02 29	704	0.0	0.2+
1995 11 21	358	0.5-	0.3-	2000 01 07	704	0.7+	1.0-	2000 02 29	704	0.0	0.3+
1995 11 21	358	0.8+	0.3+	2000 01 07	704	1.6+	0.0	2000 02 29	704	0.4+	0.4+
1995 12 12	358	0.3+	0.3-	2000 01 07	704	0.1+	0.5-	2000 02 29	704	1.0+	0.5+
1995 12 12	358	0.3+	0.1-	2000 02 04	704	0.0	0.1+	2000 03 02	703	0.2-	0.2+
1995 12 13	358	1.0+	0.3-	2000 02 04	704	0.2-	0.2+	2000 03 02	703	0.1+	0.0
1995 12 13	358	1.1-	0.6+	2000 02 04	704	0.2+	0.5+	2000 03 02	703	0.2-	0.1+
1997 04 02	704	0.6+	0.1+	2000 02 04	704	0.0	0.3+	2000 03 02	703	0.6-	0.1+
1997 04 02	704	0.6-	0.1+	2000 02 04	704	0.3-	0.3-	2000 03 05	704	0.3+	0.2+
1998 09 16	699	0.7+	1.1-	2000 02 14	704	0.7-	0.4-	2000 03 05	704	0.6+	0.0
1998 09 16	699	1.4-	0.3+	2000 02 14	704	0.2-	0.6+	2000 03 05	704	0.2+	0.1+
1998 09 16	699	0.8-	0.5+	2000 02 14	704	0.6-	0.5-	2000 03 05	704	0.4+	0.1-
1998 09 22	699	0.6+	0.4+	2000 02 14	704	0.9-	0.2+	2000 03 05	704	0.5+	0.1-
1998 09 22	699	1.0+	1.2+	2000 02 14	704	0.6-	0.5+	2000 03 12	704	0.2-	0.3+
1998 09 22	699	0.9-	0.8+	2000 02 25	170	(2.1+	2.5-)	2000 03 12	704	0.1+	0.4+
2000 01 04	704	0.0	0.0	2000 02 25	170	1.9-	1.6-	2000 03 12	704	1.6+	0.4+
2000 01 04	704	0.3+	0.3+	2000 02 26	170	0.1-	0.3-	2000 03 12	704	0.2-	0.9+
2000 01 04	704	0.1+	1.1+	2000 02 27	170	0.4+	1.3-				

(14047)* 1995 WG₅ = 1991 TD₈

Discovered 1995 Nov. 18 by K. Endate and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 26410)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	35.96161	ω	243.02224	+0.14838258	-0.98841878		
<i>a</i>	2.3793919	Ω	198.52689	+0.93910090	+0.15091011		
<i>e</i>	0.0801747	<i>i</i>	5.74282	+0.30995500	+0.01595169		
<i>P</i>	3.67	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 09 17	675	0.5-	0.7+	1999 10 10	704	0.6+	0.3-	2000 01 07	704	0.1-	0.2-
1991 09 17	675	0.8-	0.8+	1999 10 10	704	0.2+	0.4-	2000 01 07	704	0.3-	0.2+
1991 10 07	033	0.2+	0.0	1999 10 10	704	1.2+	0.0	2000 01 07	704	0.0	0.2-
1991 10 07	033	0.3-	0.7+	1999 10 21	704	0.2+	0.6+	2000 01 07	704	0.1-	0.0
1991 10 08	033	0.5+	0.5+	1999 10 21	704	0.0	0.4-	2000 01 11	704	0.3+	0.7-
1995 11 18	400	0.4+	0.5+	1999 10 21	704	0.7-	0.5+	2000 01 11	704	(1.1- 2.5-)	
1995 11 18	400	0.0	0.7+	1999 10 21	704	0.6-	0.0	2000 01 11	704	(2.2- 0.7-)	
1995 11 21	691	0.2+	0.3-	1999 10 21	704	0.6+	0.8-	2000 01 11	704	0.1+	0.5-
1995 11 21	691	0.8-	0.1+	1999 12 06	704	1.0+	0.1-	2000 01 11	704	0.0	1.2-
1995 11 21	691	0.3-	0.0	1999 12 06	704	0.0	0.5-	2000 02 03	106	0.4+	0.0
1995 11 21	400	(0.0 2.2-)		1999 12 06	704	0.6-	0.0	2000 02 03	106	0.2-	0.1+
1995 11 21	400	0.3-	0.7-	1999 12 06	704	0.4+	0.0	2000 02 03	106	0.4+	0.1+
1995 11 25	400	0.8+	0.2-	1999 12 06	704	0.5-	0.3-	2000 02 04	704	(5.8+ 0.2-)	
1995 11 25	400	0.3-	0.4+	1999 12 14	704	1.0-	0.1+	2000 02 04	704	1.7+	0.1-
1998 08 17	704	0.6-	0.0	1999 12 14	704	0.3-	0.2-	2000 02 04	704	0.6-	1.2+
1998 08 17	704	0.7+	0.7-	1999 12 14	704	0.0	0.2-	2000 03 05	704	0.1+	0.1-
1998 08 17	704	0.3+	0.4-	1999 12 14	704	0.2-	0.2-	2000 03 05	704	1.0-	0.9+
1998 08 17	704	0.7-	1.6-	1999 12 14	704	0.5-	0.3-	2000 03 05	704	0.0	0.5+
1998 08 17	704	1.3+	1.4-	2000 01 07	704	0.4-	0.4-				

(14048)* 1995 WS₇ = 1991 RT₄₁

Discovered 1995 Nov. 27 by T. Kobayashi at Oizumi.

Id. G. V. Williams (*MPC* 29627)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	2.55574	ω	86.51714	-0.99823444	-0.05601689		
<i>a</i>	2.2321294	Ω	90.27097	+0.04356396	-0.91651809		
<i>e</i>	0.0674689	<i>i</i>	1.13176	+0.04037564	-0.39605139		
<i>P</i>	3.33	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1990 04 01	675	0.0	0.5-	1998 09 26	704	1.0-	1.1+	1998 11 11	704	(3.0+ 2.2-)	
1990 04 01	675	1.0+	0.6-	1998 10 14	704	0.9+	0.6+	1999 01 07	691	1.0-	0.5-
1991 09 08	691	0.9-	0.1-	1998 10 14	704	0.9+	1.9+	1999 01 07	691	1.3-	0.5-
1991 09 08	691	0.9-	0.4+	1998 10 14	704	0.2+	1.5+	1999 01 07	691	1.2-	0.5-
1991 09 08	691	0.6-	0.0	1998 10 14	704	0.9+	1.1+	1999 01 15	691	0.5-	0.3-
1995 11 27	411	0.7-	0.1-	1998 10 15	704	0.5+	1.8+	1999 01 15	691	0.4+	0.2+
1995 11 27	411	0.5+	0.0	1998 10 15	704	1.2+	0.8-	2000 01 11	699	0.4+	0.5+
1995 11 28	411	0.5-	0.1+	1998 10 15	704	0.6+	0.4+	2000 01 11	699	0.5-	0.8+
1995 11 28	411	0.1+	1.0-	1998 10 15	704	0.6-	1.1-	2000 01 11	699	0.0	0.2+
1995 12 01	411	0.3-	0.4-	1998 10 28	704	0.0	0.8+	2000 03 01	703	0.3-	0.3+
1995 12 01	411	0.4+	0.8-	1998 10 28	704	1.0-	1.0-	2000 03 01	703	0.3-	0.5+
1995 12 10	411	0.1+	1.3+	1998 10 28	704	0.1-	0.6-	2000 03 01	703	0.3-	0.2+
1995 12 10	411	0.4-	0.3+	1998 10 28	704	1.4-	1.3-	2000 03 01	703	0.6+	0.3+
1995 12 17	411	0.6-	0.4-	1998 10 29	704	0.5-	0.9+	2000 03 08	704	0.3+	0.1+
1995 12 17	411	0.1+	0.1+	1998 10 29	704	0.1-	0.7-	2000 03 08	704	0.4+	0.5+
1998 09 20	809	(3.2+ 2.0+)		1998 10 29	704	0.4-	0.5-	2000 03 08	704	0.1+	0.6+
1998 09 20	809	1.6+	0.6+	1998 10 29	704	0.7-	0.3+	2000 03 08	704	0.4+	0.4+
1998 09 20	809	1.8+	1.6+	1998 10 29	704	0.3-	0.8-	2000 03 08	704	0.2-	0.2+
1998 09 21	809	(2.9+ 1.7+)		1998 11 10	704	0.2-	0.7-	2000 03 10	704	0.0	0.4+
1998 09 21	809	1.8+	1.6+	1998 11 10	704	0.5+	0.2+	2000 03 10	704	0.4+	0.5+
1998 09 21	809	(1.2+ 2.2+)		1998 11 10	704	0.1-	0.3-	2000 03 10	704	0.5+	0.2-
1998 09 26	704	0.6+	0.1-	1998 11 10	704	1.5-	0.8+	2000 03 10	704	0.1-	0.7-
1998 09 26	704	0.8-	0.4+	1998 11 11	704	0.2+	0.5-	2000 03 10	704	0.9-	0.4+

1998 09 26	704	0.5-	0.6-	1998 11 11	704	1.0+	0.4-
1998 09 26	704	0.3+	0.3+	1998 11 11	704	0.9+	1.5-

(14049)* 1995 XH₁ = 1988 VB₁₄

Discovered 1995 Dec. 15 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 32671)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	145.23321	ω	92.16903	+0.98835458	-0.13423225		
<i>a</i>	2.2555809	Ω	275.55085	+0.09439178	+0.91025942		
<i>e</i>	0.1604742	<i>i</i>	4.12944	+0.11935413	+0.39167523		
<i>P</i>	3.39	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1988 11 04	327	(12.5- 42.2-)	1998 09 12	411	0.2-	0.4-	1998 10 15	704	0.4+	0.2+	
1988 11 04	327	0.0	0.2+	1998 09 13	411	0.3-	0.5-	1998 10 15	704	0.1-	0.4-
1993 01 28	809	(2.6- 1.0-)	1998 09 13	411	0.1-	0.5-	1998 11 14	699	0.4-	0.2+	
1993 01 28	809	(4.5- 2.4-)	1998 09 13	411	0.2-	0.7-	1998 11 14	699	0.9-	0.5+	
1995 12 15	411	0.5-	0.8+	1998 09 16	699	0.1+	0.0	1998 11 14	699	0.4-	0.8+
1995 12 15	411	0.1-	0.2-	1998 09 16	699	0.0	0.3+	1998 12 09	704	0.1+	1.1+
1995 12 16	411	0.1+	0.2-	1998 09 16	699	0.1+	0.1+	1998 12 09	704	(1.8+ 2.4+)	
1995 12 16	411	0.4+	0.3-	1998 09 20	127	0.5-	0.3-	1998 12 09	704	1.3-	0.3-
1995 12 22	411	0.5+	1.1-	1998 09 20	127	0.0	1.6-	1998 12 09	704	0.2+	0.8+
1995 12 22	411	0.6+	0.5-	1998 09 21	127	0.1-	0.1-	1998 12 09	704	(1.4- 2.2+)	
1995 12 25	411	1.5-	0.2+	1998 09 21	127	0.2-	0.2-	2000 02 02	704	0.7+	0.9+
1995 12 25	411	0.4+	0.3-	1998 09 26	704	0.4-	0.6-	2000 02 02	704	0.6-	0.2+
1995 12 30	411	0.6+	1.5-	1998 09 26	704	1.2-	0.2-	2000 02 02	704	1.1+	0.6+
1995 12 30	411	1.6-	0.1+	1998 09 26	704	0.1+	0.4+	2000 02 02	704	0.0	0.4+
1996 01 09	411	0.4+	0.4-	1998 09 26	704	0.8-	0.1+	2000 02 07	704	0.4-	1.4+
1996 01 09	411	0.4+	0.6+	1998 09 26	704	1.0-	0.6-	2000 02 07	704	0.1-	0.5-
1998 06 29	704	0.3+	0.4+	1998 09 27	704	0.3+	0.3+	2000 02 07	704	0.3+	1.5-
1998 06 29	704	0.2-	1.0-	1998 09 27	704	1.2-	0.4+	2000 02 07	704	1.0-	0.7-
1998 06 29	704	1.5-	0.5+	1998 09 27	704	0.4-	0.9+	2000 02 07	704	0.2+	1.0-
1998 06 29	704	(3.9- 2.4-)	1998 09 27	704	0.6-	0.9+	2000 02 08	704	0.5+	1.0+	
1998 07 24	566	0.1-	0.3-	1998 09 27	704	0.4+	0.4+	2000 02 08	704	0.1-	0.2+
1998 07 24	566	0.2-	0.2-	1998 10 14	704	1.6+	0.2-	2000 02 08	704	0.1+	1.0+
1998 07 24	566	0.0	0.1+	1998 10 14	704	0.7+	0.3+	2000 02 08	704	0.6+	0.5+
1998 08 23	704	0.2+	0.1-	1998 10 14	704	0.0	0.3+	2000 02 08	704	0.4+	1.1+
1998 08 23	704	0.5+	0.8+	1998 10 14	704	0.1+	0.1+	2000 03 11	699	0.4+	0.0
1998 08 23	704	1.2+	2.1+	1998 10 14	704	0.4+	0.4+	2000 03 11	699	0.2+	0.1+
1998 08 23	704	1.8+	0.5+	1998 10 15	704	0.7+	0.3+	2000 03 11	699	0.1-	0.2+
1998 08 23	704	0.1+	0.9-	1998 10 15	704	0.3+	0.3+	2000 03 11	699	0.0	0.4+
1998 09 12	411	0.1-	0.9-	1998 10 15	704	0.3+	0.9+				

(14050)* 1995 YH₁ = 1991 RD₁₄

Discovered 1995 Dec. 21 by T. Kobayashi at Oizumi.

Id. G. V. Williams (*MPC* 26413)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	147.10309	ω	100.78358	+0.94977106	-0.30704759		
<i>a</i>	2.2837838	Ω	277.11859	+0.25800697	+0.87763509		
<i>e</i>	0.1310872	<i>i</i>	3.49380	+0.17710829	+0.36807393		
<i>P</i>	3.45	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 09 11	095	(1.6- 2.7+)	1998 10 11	699	0.7- 0.3+	1998 11 17	699	0.2+ 1.0+
1991 09 11	095	(0.4- 2.6+)	1998 10 12	699	0.3- 0.6+	1998 12 09	704	1.8- 0.5-
1991 09 13	675	0.4+ 0.7-	1998 10 12	699	0.3- 0.6+	1998 12 09	704	1.3- 0.5-
1991 09 13	675	0.4+ 0.8-	1998 10 12	699	0.0 0.8+	1998 12 09	704	(1.4+ 3.2+)
1991 09 15	675	0.3+ 1.2-	1998 10 14	704	0.1- 0.7+	1998 12 09	704	1.0+ 1.8+
1991 09 15	675	0.4+ 0.8-	1998 10 14	704	0.4- 1.2+	1998 12 09	704	1.6+ 1.1-
1995 11 15	327	0.2+ 0.5-	1998 10 14	704	1.0- 0.5+	1999 01 08	704	1.2+ 0.4+
1995 11 15	327	0.5- 0.5-	1998 10 14	704	0.1+ 1.2+	1999 01 08	704	0.8- 0.3-
1995 11 15	327	0.5+ 0.7-	1998 10 14	704	0.9- 0.9+	1999 01 08	704	0.5+ 0.9+
1995 11 18	327	0.4+ 0.6-	1998 10 15	704	0.8- 0.8+	1999 01 08	704	(2.2- 2.1+)

2000 MAR. 20

M.P.C. 39065

1995 11 18	327	0.1+	0.8-	1998 10 15	704	0.3+	0.5+	1999 01 08	704	1.2-	0.8+
1995 11 18	327	0.1+	0.7-	1998 10 15	704	0.5-	0.6+	2000 01 11	699	0.0	1.5+
1995 12 21	411	0.4-	0.4-	1998 10 15	704	0.8-	0.9+	2000 01 11	699	1.2+	0.5+
1995 12 21	411	0.3+	0.1-	1998 10 15	704	0.2-	0.9+	2000 01 11	699	0.5+	1.9+
1995 12 22	411	0.4-	0.3+	1998 10 18	367	0.5-	0.6+	2000 02 08	704	0.7+	0.7+
1995 12 22	411	0.0	0.3-	1998 10 18	367	0.5-	0.4+	2000 02 08	704	0.5+	0.3+
1995 12 27	411	0.3-	1.1-	1998 10 28	704	0.3+	0.8-	2000 02 08	704	0.2+	0.3+
1995 12 27	411	1.5-	1.5-	1998 10 28	704	1.4+	0.1+	2000 02 08	704	0.3+	0.2-
1995 12 30	411	0.6-	0.8-	1998 10 28	704	0.9+	0.3-	2000 02 08	704	0.4-	0.2-
1995 12 30	411	0.2+	1.0-	1998 10 28	704	0.4+	0.1+	2000 03 01	703	0.3+	0.6+
1998 09 23	098	1.0+	1.0-	1998 10 28	704	0.8+	0.5-	2000 03 01	703	0.3+	0.4+
1998 09 23	098	(2.8-	0.6+)	1998 10 29	704	0.4-	0.1+	2000 03 01	703	0.0	0.4+
1998 09 23	098	(2.6-	2.1-)	1998 10 29	704	0.4-	0.3-	2000 03 01	703	0.0	0.3+
1998 09 26	704	1.0+	0.9-	1998 10 29	704	0.4-	0.2-	2000 03 08	704	0.5+	0.2+
1998 09 26	704	0.3+	0.3-	1998 10 29	704	0.2+	0.6+	2000 03 08	704	0.2+	0.3+
1998 09 26	704	0.6+	0.7-	1998 10 29	704	0.3-	0.8+	2000 03 08	704	0.2-	0.4-
1998 09 26	704	0.4-	0.9-	1998 11 10	704	0.5-	0.3+	2000 03 08	704	0.9+	0.8+
1998 09 26	704	0.2+	1.7-	1998 11 10	704	0.4-	0.8+	2000 03 08	704	0.8-	0.3+
1998 09 27	704	0.9+	0.7-	1998 11 10	704	1.4-	0.6-	2000 03 13	703	0.3+	0.4+
1998 09 27	704	0.1+	0.2-	1998 11 10	704	(2.4-	0.6+)	2000 03 13	703	0.2-	0.0
1998 09 27	704	0.5+	0.7+	1998 11 11	704	0.8+	0.2-	2000 03 13	703	0.2+	0.1+
1998 09 27	704	0.4+	1.1-	1998 11 11	704	0.8-	0.5+	2000 03 13	703	0.3+	0.7+
1998 09 27	704	0.7-	0.0	1998 11 11	704	0.4-	0.4+	2000 03 13	704	0.7-	0.5-
1998 10 09	886	0.5-	0.0	1998 11 11	704	0.5+	0.0	2000 03 13	704	0.3+	0.2-
1998 10 09	886	0.2+	0.1+	1998 11 11	704	0.2+	0.0	2000 03 13	704	(0.1-	2.2-)
1998 10 11	699	0.2-	0.2+	1998 11 17	699	0.2+	0.7+	2000 03 13	704	0.7-	0.7-
1998 10 11	699	0.4-	0.2+	1998 11 17	699	0.1+	0.7+				

(14051)* 1995 YY₁ = 1976 HC

Discovered 1995 Dec. 21 by T. Kobayashi at Oizumi.

Id. T. B. Spahr (*MPC* 30667)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	309.21920	(2000.0)		P	Q		
<i>n</i>	0.28715416	ω	137.90698	-0.44493548	+0.88945931		
<i>a</i>	2.2754082	Ω	105.43049	-0.84783178	-0.38080969		
<i>e</i>	0.1305636	<i>i</i>	6.21618	-0.28846784	-0.25267788		
<i>P</i>	3.43	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1976 04 23	095	(5.0-	2.1-)	1996 01 10	411	0.3+	0.0	2000 01 19	327	1.2+	0.7-
1993 03 24	675	0.4-	0.2+	1996 01 24	411	0.2+	1.1+	2000 01 19	327	0.2-	1.0-
1993 03 24	675	1.8+	0.0	1996 01 24	411	0.6+	0.4+	2000 02 06	704	0.0	1.2+
1994 09 10	675	0.3-	0.8+	1998 11 11	699	1.1+	0.6+	2000 02 06	704	0.3-	0.4-
1994 09 10	675	0.9-	0.7+	1998 11 11	699	0.4+	0.2+	2000 02 06	704	0.6+	0.2-
1995 12 21	411	0.3+	1.5+	1998 11 11	699	0.2-	1.1-	2000 03 07	704	0.2+	0.5+
1995 12 21	411	1.1-	0.4-	1998 11 23	699	0.0	0.5+	2000 03 07	704	0.0	0.6+
1995 12 22	411	0.3+	0.4+	1998 11 23	699	0.2+	0.5+	2000 03 07	704	0.3+	1.3+
1995 12 22	411	0.1+	1.5-	1998 11 23	699	0.4+	0.3+	2000 03 08	704	0.5+	0.5-
1995 12 22	411	0.1-	0.6-	2000 01 08	704	0.7-	0.4+	2000 03 08	704	0.3-	0.6+
1995 12 26	411	0.9-	0.7+	2000 01 08	704	0.4+	0.9-	2000 03 08	704	0.5+	0.9+
1995 12 26	411	0.8+	0.7+	2000 01 08	704	0.5+	1.1-	2000 03 08	704	0.3+	1.0+
1995 12 27	411	1.2-	0.3-	2000 01 08	704	0.1+	1.6-	2000 03 11	699	0.5-	0.4+
1995 12 27	411	(2.5-	0.2-)	2000 01 16	327	0.4+	1.2-	2000 03 11	699	0.7-	0.2+
1995 12 31	411	1.8-	1.1-	2000 01 16	327	0.5+	1.2-	2000 03 11	699	0.9-	0.4+
1995 12 31	411	0.0	0.0	2000 01 16	327	0.2+	0.8-	2000 03 11	699	1.3-	0.7+
1996 01 10	411	0.2-	0.5+	2000 01 19	327	0.9+	0.7-				

(14052)* 1995 YH₃ = 1991 RZ₃₅

Discovered 1995 Dec. 27 by T. Kobayashi at Oizumi.

Id. T. Kobayashi (*MPC* 26574)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	138.24664	(2000.0)		P	Q
<i>n</i>	0.28528997	ω	263.98313	+0.94484415	-0.29615034
<i>a</i>	2.2853096	Ω	113.17611	+0.32669152	+0.88254692
<i>e</i>	0.2304576	<i>i</i>	8.75165	-0.02328466	+0.36524774
<i>P</i>	3.45	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1991 09 14	675	0.6+	0.0	1997 05 13	688	0.4-	0.4+	2000 02 04	704	0.7+	0.9+
1991 09 14	675	0.0	0.2+	1997 05 13	688	0.2-	0.3+	2000 02 04	704	0.3-	0.5+
1991 09 16	675	0.2+	0.6-	1997 05 13	688	0.5-	0.2+	2000 02 04	704	1.0-	1.5+
1991 09 16	675	0.3-	0.9-	1998 09 21	704	1.3-	1.4+	2000 03 05	704	0.8+	0.2+
1995 12 27	411	0.3+	1.0+	1998 09 21	704	0.1+	0.6+	2000 03 05	704	1.2+	0.6+
1995 12 27	411	0.1-	0.5-	1998 09 21	704	0.2-	0.8+	2000 03 05	704	0.6+	0.6+
1995 12 29	411	0.1-	0.4-	1998 09 21	704	0.4-	0.5+	2000 03 05	704	0.7+	1.1+
1995 12 29	411	0.9+	1.3-	1998 10 16	704	0.3+	1.0+	2000 03 05	704	1.0+	0.8-
1995 12 31	411	0.0	0.9-	1998 10 16	704	0.4-	0.5+	2000 03 12	704	0.6+	0.2+
1995 12 31	411	1.9-	1.1+	1998 10 16	704	(1.1-	2.5+)	2000 03 12	704	0.1-	0.2+
1996 01 10	411	0.4+	0.5-	1998 10 16	704	(1.5-	2.6+)	2000 03 12	704	0.0	0.5+
1996 01 10	411	0.4+	0.0	1998 10 16	704	(2.6-	2.7+)	2000 03 12	704	0.2-	0.1+
1997 05 13	688	0.5-	0.1+	2000 02 04	704	0.4-	0.9-	2000 03 12	704	0.0	0.3+

(14053)* 1995 YS₂₅ = 1991 VA₁₇ = 1993 HD₈

Discovered 1995 Dec. 27 by W. Bickel at Bergisch Gladbach.

Id. B. G. Marsden (*MPC* 27110)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	36.37347	(2000.0)		P	Q
<i>n</i>	0.27582685	ω	78.41450	-0.62116183	-0.77996991
<i>a</i>	2.3372851	Ω	50.25805	+0.67486692	-0.58180105
<i>e</i>	0.0391331	<i>i</i>	5.68651	+0.39838752	-0.23055254
<i>P</i>	3.57	<i>H</i>	16.4	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1991 11 05	691	0.5-	0.8-	1996 01 19	621	0.5+	0.6+	1998 11 19	621	0.1+	0.4+
1991 11 05	691	0.2+	0.5-	1996 01 19	621	0.1+	0.2+	1998 11 20	621	0.4+	0.3-
1991 11 05	691	0.4+	0.4+	1996 01 19	621	0.3+	0.2+	1998 11 20	621	0.1-	0.8+
1993 04 24	691	0.7-	1.3-	1996 01 19	621	0.3+	0.0	1998 11 20	621	0.0	0.8+
1993 04 24	691	0.1-	0.5-	1996 03 07	621	0.7+	1.0-	1998 11 20	621	0.1+	0.7+
1993 04 24	691	0.2-	0.3-	1996 03 10	621	0.3-	0.6-	2000 02 12	621	0.9+	0.1+
1995 12 27	621	0.1-	0.2+	1996 04 01	709	0.0	0.1+	2000 02 12	621	0.3+	0.7+
1995 12 27	621	0.4+	0.4+	1996 04 01	709	0.1+	0.1+	2000 02 12	621	0.3+	0.2+
1995 12 27	621	0.2+	0.2-	1996 04 01	709	0.2+	0.3+	2000 02 12	621	0.5+	0.1+
1995 12 27	621	0.1-	0.3+	1996 04 01	709	0.4+	1.0-	2000 02 25	621	0.7-	0.4+
1995 12 27	621	0.8-	0.1-	1996 04 01	709	(0.8-	2.2-)	2000 02 25	621	0.3-	0.3-
1995 12 27	621	0.8-	0.6-	1998 09 20	621	0.2+	0.2-	2000 02 25	621	0.2-	0.1-
1995 12 28	621	0.1+	0.6+	1998 09 20	621	0.2-	0.5-	2000 02 26	621	0.8-	0.2+
1995 12 28	621	0.1+	0.8-	1998 09 21	621	0.5-	0.2-	2000 02 26	621	0.2-	0.1+
1995 12 28	621	0.3+	0.3-	1998 09 21	621	0.4-	0.1+	2000 02 26	621	0.6-	0.5+
1995 12 28	621	0.0	0.1+	1998 09 21	621	0.3-	0.3-	2000 03 12	704	0.1-	0.0
1995 12 29	621	0.2+	0.2+	1998 09 21	621	0.8-	0.1-	2000 03 12	704	1.8+	1.2+
1995 12 29	621	0.2-	0.6-	1998 09 21	621	0.1+	0.5-	2000 03 12	704	0.7+	0.3+
1995 12 29	621	1.0-	0.5-	1998 11 19	621	0.2+	0.6+				
1995 12 29	621	0.3-	0.2-	1998 11 19	621	0.7+	0.6+				

(14054)* 1996 AR

Discovered 1996 Jan. 12 at Kletř.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	41.85368	(2000.0)		P	Q
<i>n</i>	0.26189236	ω	21.59232	-0.31726588	-0.94585503
<i>a</i>	2.4194733	Ω	86.95773	+0.85972272	-0.31738222
<i>e</i>	0.1837755	<i>i</i>	3.93690	+0.40027392	-0.06802047
<i>P</i>	3.76	<i>H</i>	15.9	<i>G</i>	0.15

Residuals in seconds of arc

1991 12 14	691	0.3−	0.3−	1996 01 25	691	0.4−	0.1−	1998 11 07	910	1.1−	0.5+
1991 12 14	691	0.3−	0.2−	1996 01 25	691	0.3−	0.2−	1998 11 07	910	0.3−	0.8+
1991 12 14	691	0.2−	0.4−	1996 01 31	046	1.1−	0.1+	1998 11 07	910	0.0	0.8+
1996 01 12	046	0.3+	0.1+	1996 01 31	046	0.1−	0.2−	2000 02 11	704	0.5+	1.4−
1996 01 12	046	0.5+	0.3−	1996 01 31	046	0.6−	0.3−	2000 02 11	704	1.5+	0.4−
1996 01 12	046	0.3+	0.2+	1996 02 01	046	0.1+	0.5−	2000 02 11	704	1.4+	0.6+
1996 01 12	046	0.2−	0.1+	1996 02 01	046	0.6−	0.1−	2000 02 26	703	0.3+	0.9+
1996 01 12	046	0.1+	0.2+	1996 02 01	046	0.5−	0.5−	2000 02 26	703	0.6+	0.8+
1996 01 12	691	0.2−	0.0	1996 02 09	046	0.9+	0.0	2000 02 26	703	0.7−	0.8+
1996 01 12	691	0.1−	0.2+	1996 02 09	046	0.1+	0.3+	2000 02 26	703	0.4+	0.9+
1996 01 12	691	0.6−	0.1+	1996 02 09	046	0.9+	0.4−	2000 02 29	704	0.4−	0.0
1996 01 12	046	0.4+	0.1−	1996 02 24	046	0.4+	0.1−	2000 02 29	704	0.3+	0.4+
1996 01 12	046	0.3+	0.1+	1996 02 24	046	0.4+	0.5−	2000 02 29	704	0.1−	0.4+
1996 01 12	046	0.6+	0.0	1996 02 24	046	0.1+	0.4−	2000 02 29	704	0.2+	0.7+
1996 01 12	046	0.0	0.3+	1996 02 25	046	0.0	0.3−	2000 03 02	703	0.8+	0.0
1996 01 12	046	0.3+	0.1−	1996 02 25	046	0.2−	0.4−	2000 03 02	703	0.4−	0.6+
1996 01 14	046	0.2+	0.4+	1996 02 25	046	0.1+	0.2−	2000 03 02	703	0.8+	0.2+
1996 01 14	046	0.3+	0.2−	1996 03 19	046	0.1+	0.6−	2000 03 02	703	0.3+	0.1−
1996 01 14	046	0.1−	0.3+	1996 03 19	046	0.1+	0.5−	2000 03 11	699	0.3−	1.1+
1996 01 16	046	0.0	0.5+	1996 03 19	046	0.6+	0.9−	2000 03 11	699	1.1−	0.9+
1996 01 16	046	0.1−	0.1+	1996 03 20	046	0.7+	0.6−	2000 03 11	699	0.9−	0.7+
1996 01 16	046	0.1−	0.3+	1996 03 20	046	0.6+	0.3−	2000 03 11	699	0.5−	0.5+
1996 01 17	046	0.1+	0.4+	1996 03 20	046	0.3+	0.0	2000 03 12	704	0.1−	0.0
1996 01 17	046	0.1−	0.6+	1998 09 23	046	0.2−	1.1+	2000 03 12	704	0.9−	0.1−
1996 01 17	046	0.0	0.4+	1998 09 23	046	0.0	0.5+	2000 03 12	704	0.8+	0.2+
1996 01 18	691	0.3−	0.1−	1998 09 23	046	0.5+	1.1+	2000 03 12	704	0.0	0.4+
1996 01 18	691	0.0	0.1+	1998 09 24	046	1.1−	1.6+	2000 03 12	704	0.1−	0.2−
1996 01 18	691	0.2−	0.3+	1998 09 24	046	(0.7−	2.4+)				
1996 01 25	691	0.2−	0.0	1998 09 24	046	(0.7−	2.4+)				

(14055)* 1996 AS

Discovered 1996 Jan. 10 by T. Kobayashi at Oizumi.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	17.50697		(2000.0)	P	Q
<i>n</i>	0.26422959	ω	358.86774	−0.71453319	−0.69701144
<i>a</i>	2.4051846	Ω	136.73294	+0.64255964	−0.68784538
<i>e</i>	0.0489693	<i>i</i>	5.03425	+0.27669375	−0.20259265
<i>P</i>	3.73	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1989 03 29	675	0.1+	0.6−	1998 09 26	704	0.2+	0.7−	2000 02 05	739	0.2−	0.7−
1989 03 29	675	0.6−	1.9−	1998 09 27	704	0.4+	0.0	2000 02 05	739	0.4−	0.6−
1994 09 11	675	(2.7−	1.3+)	1998 09 27	704	0.8+	0.3+	2000 02 11	704	0.6+	0.1+
1994 09 11	675	0.9−	0.2+	1998 09 27	704	0.3−	0.8+	2000 02 11	704	0.5+	0.4+
1995 12 27	411	0.4−	0.7+	1998 09 27	704	0.6+	0.2−	2000 02 11	704	0.6+	0.0
1995 12 27	411	0.2+	0.2+	1998 09 27	704	0.0	0.5−	2000 02 11	704	0.9+	0.4+
1996 01 10	411	0.3−	0.3−	1998 10 14	327	0.7−	0.2+	2000 02 11	704	0.7+	0.2−
1996 01 10	411	1.5−	1.6−	1998 10 14	327	0.6−	0.1+	2000 02 25	703	1.4−	0.5+
1996 01 13	411	0.4+	0.1+	1998 10 14	327	0.6−	0.1−	2000 02 25	703	0.2−	0.1+
1996 01 13	411	1.0+	0.4−	1998 10 15	704	1.2−	1.0+	2000 02 25	703	0.3−	0.3+
1996 01 18	411	(1.5−	2.4−)	1998 10 15	704	0.9−	0.6−	2000 02 25	703	0.2+	0.2−
1996 01 18	411	0.6−	0.9−	1998 10 15	704	0.7+	0.9−	2000 02 29	704	0.0	0.0
1996 01 27	411	0.1−	0.8−	1998 10 15	704	0.6−	0.0	2000 02 29	704	0.1−	0.2+
1996 01 27	411	0.7+	0.8−	1998 10 15	327	0.4−	0.1−	2000 02 29	704	0.1−	0.0
1998 09 14	704	0.1−	0.9+	1998 10 15	327	0.5+	0.4−	2000 02 29	704	0.0	0.1+
1998 09 14	704	1.0+	0.7+	1998 10 15	327	0.3−	0.1−	2000 02 29	704	0.1−	0.3+
1998 09 14	704	0.6+	0.4+	1998 10 17	327	0.6−	0.2−	2000 03 05	704	0.2+	0.1+
1998 09 17	327	0.2−	0.3+	1998 10 17	327	0.9−	0.4−	2000 03 05	704	0.4+	0.5+
1998 09 17	327	0.2−	1.0+	1998 10 17	327	0.7−	0.6−	2000 03 05	704	0.1−	0.7+
1998 09 17	327	0.0	0.3+	1998 10 28	704	0.9−	1.8+	2000 03 05	704	0.6+	0.7+
1998 09 18	704	0.2−	0.9−	1998 10 28	704	0.2+	1.0+	2000 03 05	704	0.0	1.5+
1998 09 18	704	1.2−	0.0	1998 10 28	704	1.5+	0.2+	2000 03 09	704	0.3+	0.3+
1998 09 18	704	0.8+	1.1+	1998 10 28	704	1.6−	0.5−	2000 03 09	704	0.3+	0.8+
1998 09 18	704	(0.2+	2.2+)	1998 10 28	704	0.4−	0.1−	2000 03 09	704	0.5+	0.6+
1998 09 18	704	0.3+	0.6+	1998 10 29	704	0.9+	1.0−	2000 03 09	704	0.2+	0.5+
1998 09 20	426	0.3−	0.5−	1998 10 29	704	1.0−	0.7+	2000 03 09	704	0.0	1.1+

1998 09 20	426	0.5+	0.1−	1998 10 29	704	1.6+	0.6+	2000 03 11	699	0.1+	0.2+
1998 09 20	327	0.4+	0.6−	2000 02 01	703	0.1+	0.1+	2000 03 11	699	0.0	0.5+
1998 09 20	327	0.4+	0.2−	2000 02 01	703	0.1−	0.1−	2000 03 11	699	0.1−	0.2+
1998 09 20	327	0.4+	0.0	2000 02 01	703	0.2−	0.1+	2000 03 11	699	0.3+	0.1+
1998 09 23	426	0.8+	0.1−	2000 02 01	703	0.4+	0.8+	2000 03 12	704	0.4−	1.1−
1998 09 23	426	0.2+	0.0	2000 02 04	704	0.0	0.0	2000 03 12	704	0.4−	0.7−
1998 09 23	426	0.1+	0.3−	2000 02 04	704	0.3−	0.2+	2000 03 12	704	0.5−	0.8−
1998 09 26	704	0.6+	0.4+	2000 02 04	704	0.1−	0.2−	2000 03 12	704	0.3−	0.7−
1998 09 26	704	0.0	1.1−	2000 02 04	704	0.6+	0.5+	2000 03 12	704	0.4−	0.8−
1998 09 26	704	0.4+	0.6−	2000 02 04	704	0.2−	1.0+				
1998 09 26	704	0.8+	0.1+	2000 02 05	739	0.2−	0.4−				

(14056)* 1996 AO₁ = 1991 VT₁₃ = 1993 FO₈₄

Discovered 1996 Jan. 13 at Klet.

Id. B. G. Marsden (*MPC* 26748), G. V. Williams (unpublished), A. Milani (unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	101.35999		(2000.0)	P	Q
<i>n</i>	0.26641768	ω	326.32669	+0.80937456	−0.58379228
<i>a</i>	2.3919973	Ω	69.51978	+0.55278153	+0.72045123
<i>e</i>	0.1928276	<i>i</i>	3.91902	+0.19835673	+0.37434822
<i>P</i>	3.70	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1991 11 11	399	(4.2−	0.0)	1997 05 05	704	0.9+	0.1+	1998 09 24	699	0.3+	0.8+
1991 11 11	399	(4.0−	0.9+)	1997 05 05	704	0.6+	1.4−	1998 09 24	046	0.3+	0.2+
1993 03 24	809	(4.9−	1.0+)	1997 05 05	704	0.6+	0.1−	1998 09 24	046	0.4+	0.1+
1993 04 18	413	0.1+	0.2+	1997 05 05	704	0.0	1.2−	1998 09 24	046	0.2+	0.3+
1996 01 13	046	0.0	0.4+	1997 05 05	704	0.2−	1.4−	1998 09 25	046	0.1+	0.0
1996 01 13	046	0.1+	0.3+	1997 05 05	046	0.2−	0.4−	1998 09 25	046	0.0	0.1+
1996 01 13	046	0.3−	0.4+	1997 05 05	046	0.0	1.3−	1998 09 25	046	0.3−	0.1+
1996 01 13	046	0.6−	0.9+	1997 05 05	046	0.2−	0.6−	1998 11 11	046	0.6+	0.6+
1996 01 13	046	0.4−	0.8+	1998 07 21	046	0.4−	0.0	1998 11 11	046	0.2−	0.9+
1996 01 14	046	0.2+	0.1+	1998 07 21	046	0.1+	0.0	1998 11 11	046	0.0	0.2+
1996 01 14	046	0.1−	0.1−	1998 07 21	046	0.0	0.5+	1998 11 11	046	0.3+	0.8+
1996 01 14	046	0.0	0.3−	1998 07 21	046	0.6−	0.3+	2000 02 04	704	0.8+	0.0
1996 01 14	046	0.0	0.1−	1998 07 21	046	0.4−	0.1+	2000 02 04	704	0.1+	0.9+
1996 01 15	046	0.2+	0.2+	1998 07 27	046	0.1+	0.2−	2000 02 04	704	0.0	1.3+
1996 01 15	046	0.0	0.1−	1998 07 27	046	0.0	0.2−	2000 02 04	704	0.2−	0.8−
1996 01 15	046	0.5+	0.0	1998 07 27	046	0.1−	0.4−	2000 02 04	704	0.4+	0.0
1996 01 16	046	0.2−	0.2+	1998 07 27	046	1.6−	1.0−	2000 02 11	704	1.0+	0.5+
1996 01 17	046	0.2−	0.1+	1998 08 15	046	0.4−	0.5+	2000 02 11	704	0.1+	0.4−
1996 01 17	046	0.0	0.1−	1998 08 15	046	0.5−	0.2+	2000 02 11	704	0.6+	0.3−
1996 01 18	046	0.3−	0.1+	1998 08 15	046	0.4−	0.3+	2000 02 11	704	0.6+	0.2−
1996 01 18	046	0.3−	0.1−	1998 08 15	046	0.5−	0.2+	2000 02 25	703	0.8+	1.1+
1996 01 18	046	0.3−	0.0	1998 08 15	046	0.8−	0.0	2000 02 25	703	0.4+	1.0+
1996 02 06	046	0.6+	0.0	1998 08 15	046	0.5−	0.2+	2000 02 25	703	0.4+	0.4+
1996 02 06	046	0.8+	0.4+	1998 08 17	704	0.6−	0.8+	2000 02 25	703	0.6+	0.1+
1996 02 06	046	0.8−	0.3+	1998 08 17	704	0.7−	1.4+	2000 02 27	046	0.1+	0.5+
1996 02 09	046	0.5−	0.9−	1998 08 17	704	0.7−	0.6+	2000 02 27	046	0.1+	0.3+
1996 02 09	046	0.7−	0.5−	1998 08 17	704	0.3+	1.7+	2000 02 27	046	0.1−	0.6+
1996 02 09	046	0.4−	0.3−	1998 08 17	704	0.4+	0.8+	2000 02 28	046	0.0	0.8+
1996 02 22	046	1.2+	1.7−	1998 08 23	704	0.3+	0.0	2000 02 28	046	0.3+	0.5+
1996 02 22	046	0.3+	0.9−	1998 08 23	704	0.6−	0.2+	2000 02 28	046	0.1+	0.5+
1996 02 22	046	0.5+	0.5−	1998 08 23	704	0.5−	0.5−	2000 02 29	704	0.3+	0.1+
1996 02 24	046	0.9+	0.7+	1998 08 23	704	0.1+	0.4+	2000 02 29	704	1.0−	1.2+
1996 02 24	046	0.6+	0.9+	1998 08 23	704	0.8+	0.5+	2000 02 29	704	0.1−	0.5+
1996 02 24	046	0.2+	0.3+	1998 08 28	699	0.8−	1.2+	2000 02 29	704	0.0	0.5+
1997 04 03	046	1.2−	0.0	1998 08 28	699	0.7+	0.2+	2000 02 29	704	0.0	0.4+
1997 04 03	046	1.9−	0.4−	1998 08 31	046	0.1−	0.3+	2000 03 05	704	0.2+	0.4+
1997 04 03	046	1.0−	0.2+	1998 08 31	046	0.2−	0.1+	2000 03 05	704	0.5+	0.0
1997 04 07	809	1.1−	1.4+	1998 08 31	046	0.3−	0.2+	2000 03 05	704	0.4+	0.3+
1997 04 07	809	(1.3−	2.1+)	1998 09 14	704	0.3−	0.5+	2000 03 05	704	0.4+	0.1+
1997 04 07	809	0.6−	1.4+	1998 09 14	704	0.1−	0.1+	2000 03 05	704	0.3+	0.1−
1997 04 08	809	(0.5−	2.1+)	1998 09 14	704	0.2−	0.2+	2000 03 11	699	0.1+	0.2+
1997 04 08	809	0.8+	1.4+	1998 09 14	704	0.3−	0.1−	2000 03 11	699	0.1−	0.7+

2000 MAR. 20

M.P.C. 39067

1997 04 08	809	0.4−	1.2+	1998 09 14	704	0.5+	0.0	2000 03 11	699	0.3−	0.1+
1997 04 08	704	0.9+	0.0	1998 09 17	699	0.1+	1.1+	2000 03 11	699	1.0−	0.4+
1997 04 08	704	0.6+	0.0	1998 09 17	699	0.3−	0.6−	2000 03 11	699	0.4+	1.2+
1997 04 09	046	1.4−	0.1−	1998 09 17	699	0.9+	0.5+	2000 03 11	699	0.3+	1.0+
1997 04 09	046	1.7−	0.3−	1998 09 18	704	0.3+	0.5+	2000 03 11	699	0.2−	0.6+
1997 04 09	046	1.6−	0.1−	1998 09 18	704	0.9+	0.3−	2000 03 11	699	0.3+	1.2+
1997 04 30	704	1.6+	0.8+	1998 09 18	704	0.2−	1.2+	2000 03 12	704	0.4+	0.4+
1997 04 30	704	0.2+	0.2−	1998 09 18	704	(0.4+	2.5+)	2000 03 12	704	0.1−	0.7+
1997 04 30	704	1.6+	0.8+	1998 09 18	704	0.7−	0.5−	2000 03 12	704	1.9+	0.4−
1997 04 30	704	1.1+	0.9+	1998 09 24	699	0.0	1.0+	2000 03 12	704	1.1−	1.4+
1997 04 30	704	0.9+	0.6−	1998 09 24	699	0.0	1.0+				

(14057)* 1996 AV₁

Discovered 1996 Jan. 15 at Linz.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Q			
(2000.0)				P			
<i>M</i>	320.38033						
<i>n</i>	0.26048573	ω	78.13724	−0.93018793	+0.36582158		
<i>a</i>	2.4281756	Ω	123.31391	−0.34937115	−0.85683516		
<i>e</i>	0.1318250	<i>i</i>	2.08568	−0.11265082	−0.36332917		
<i>P</i>	3.78	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1994 10 12	691	0.5−	0.9+	1998 09 20	809	0.6+	1.7−	2000 02 29	704	0.4−	0.5−
1994 10 12	691	0.3−	0.9+	1998 09 20	809	0.7−	0.4−	2000 02 29	704	0.1−	0.1+
1994 10 12	691	0.4−	0.9+	1998 09 21	809	0.2+	1.3+	2000 02 29	704	0.1−	0.6−
1996 01 14	540	1.3−	0.5−	1998 09 21	809	0.1−	0.1+	2000 02 29	704	0.4+	1.0−
1996 01 14	540	(0.4−	2.4−)	1998 09 21	809	0.3+	0.5−	2000 02 29	704	0.2+	1.1−
1996 01 15	540	0.7+	0.1+	2000 01 27	120	0.8+	1.1+	2000 03 03	704	0.1−	0.3−
1996 01 15	540	0.1+	0.2+	2000 01 27	120	0.4−	1.0+	2000 03 03	704	0.4−	0.3+
1996 01 15	540	0.6+	0.6−	2000 02 04	704	0.3+	0.8+	2000 03 03	704	0.0	0.0
1996 01 16	540	0.2−	0.0	2000 02 04	652	0.5+	0.4−	2000 03 03	704	0.1−	0.1−
1996 01 16	540	0.5+	0.2+	2000 02 04	704	0.1+	0.2+	2000 03 03	704	0.7−	0.2−
1996 01 17	540	0.3+	0.8−	2000 02 04	704	0.1−	0.0	2000 03 05	704	0.4+	0.3+
1996 01 17	540	0.9−	0.2−	2000 02 04	652	(2.2−	1.0+)	2000 03 05	704	0.2−	0.2+
1996 01 17	540	0.7−	0.8+	2000 02 04	704	1.3−	0.5+	2000 03 05	704	0.2−	0.2−
1996 01 17	540	0.6−	0.8−	2000 02 04	704	0.7+	0.0	2000 03 05	704	0.3+	0.6+
1996 01 17	540	1.1+	0.8−	2000 02 11	704	0.2+	0.3+	2000 03 05	704	0.4−	0.7+
1996 01 17	540	0.4−	1.0−	2000 02 11	704	0.6+	0.3+	2000 03 08	704	0.8+	0.9−
1996 01 21	540	1.0+	2.0+	2000 02 11	704	0.9+	0.5+	2000 03 08	704	0.4+	0.1+
1996 01 21	540	0.2+	0.6−	2000 02 11	704	0.4+	0.1−	2000 03 08	704	0.3+	0.7−
1996 02 09	540	0.4+	0.8+	2000 02 25	703	0.3+	0.7+	2000 03 08	704	0.6+	0.4−
1996 02 09	540	0.0	0.2+	2000 02 25	703	0.6−	0.1−	2000 03 08	704	0.0	0.3−
1996 02 09	540	0.2−	0.6+	2000 02 25	703	0.0	0.4+	2000 03 11	704	0.2−	0.0
1996 02 09	540	0.1−	0.5−	2000 02 25	703	0.2+	0.6+	2000 03 11	704	0.2+	0.2+
1996 02 09	540	0.4−	0.1−	2000 02 27	691	0.6−	0.0	2000 03 11	699	0.3−	0.3−
1996 02 24	540	0.1+	0.2−	2000 02 27	691	0.6−	0.1−	2000 03 11	704	0.1−	0.0
1996 02 24	540	0.2−	0.3−	2000 02 27	691	0.5−	0.1+	2000 03 11	704	0.2+	0.2+
1996 02 24	540	0.7−	0.5+	2000 02 27	540	0.1+	0.2−	2000 03 11	699	0.0	0.3+
1996 04 16	540	0.5+	1.0−	2000 02 27	540	0.0	0.3−	2000 03 11	704	0.1+	0.3+
1996 04 16	540	(3.4+	2.6+)	2000 02 27	540	0.0	0.2−	2000 03 11	699	1.1−	0.5+
1998 09 20	809	0.6+	1.2−	2000 02 27	540	0.2+	0.1−	2000 03 11	699	0.4−	0.0

(14058)* 1996 AP₁₅ = 1950 MD = 1989 EZ₉

Discovered 1996 Jan. 14 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. A. Gnädig (*MPC* 31241)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Q			
(2000.0)				P			
<i>M</i>	285.91952						
<i>n</i>	0.27475721	ω	140.73272	+0.11660510	+0.99215892		
<i>a</i>	2.3433472	Ω	135.91034	−0.92672829	+0.12498211		
<i>e</i>	0.1772686	<i>i</i>	3.70722	−0.35718053	−0.00037425		
<i>P</i>	3.59	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1950 06 20	839	0.0	0.2+	1996 02 16	010	1.4−	0.8−	2000 02 05	120	0.1+	0.2−
1950 06 20	839	0.4+	0.9+	1996 02 17	010	(2.4+	2.7+)	2000 03 01	703	0.2+	0.0
1989 03 05	033	0.3+	0.6+	1996 02 17	010	(1.8+	3.0+)	2000 03 01	703	0.2+	0.3+
1989 03 05	033	0.5−	0.2+	1996 02 17	010	1.7+	1.7+	2000 03 01	703	0.6−	0.2+
1996 01 14	327	0.1+	0.1−	1997 08 30	566	0.1−	0.6−	2000 03 01	703	0.0	0.2−
1996 01 14	327	0.0	0.3−	1997 08 30	566	0.3−	0.2+	2000 03 08	704	0.2−	0.0
1996 01 14	327	0.0	0.6−	1997 08 30	566	0.1+	0.0	2000 03 08	704	0.0	0.1+
1996 01 18	327	0.1+	0.1−	1998 12 15	704	0.9+	1.4+	2000 03 08	704	0.7+	0.3−
1996 01 18	327	0.3−	0.4−	1998 12 15	704	(2.6−	1.3+)	2000 03 08	704	0.5+	0.3+
1996 01 18	327	0.2−	0.1−	1998 12 15	704	0.1+	1.1+	2000 03 08	704	0.5+	0.5+
1996 02 16	010	0.5−	0.6−	2000 02 04	120	0.3+	0.7−				
1996 02 16	010	1.3−	0.5−	2000 02 05	120	0.7−	0.6−				

(14059)* 1996 BB₂ = 1983 UA = 1994 PR₁₂ = 1994 PQ₃₀

Discovered 1996 Jan. 25 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 26752), G. V. Williams (d, *MPC* 24716)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano				Q			
(2000.0)				P			
<i>M</i>	39.48729						
<i>n</i>	0.26259134	ω	160.42180	−0.49554240	−0.86072034		
<i>a</i>	2.4151778	Ω	319.05282	+0.77131292	−0.37433088		
<i>e</i>	0.1714020	<i>i</i>	10.24945	+0.39939216	−0.34501723		
<i>P</i>	3.75	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1983 10 28	675	1.6+	0.6+	1996 01 25	411	0.9−	0.1−	2000 01 05	704	0.7−	0.1+
1983 10 29	675	0.9−	0.3−	1996 01 25	411	0.1−	0.1+	2000 01 05	704	0.3+	0.9+
1994 08 10	809	1.2−	0.2−	1996 01 26	411	0.4−	0.5−	2000 02 02	704	0.2+	0.7+
1994 08 10	809	1.4−	0.4−	1996 01 26	411	0.4+	0.7+	2000 02 02	704	0.1+	0.3+
1994 08 10	809	(2.8−	0.2+)	1996 01 26	411	0.1+	0.6+	2000 02 02	704	0.3+	0.4+
1994 08 11	809	(0.6+	2.5+)	1996 01 30	411	0.2+	0.6−	2000 03 09	704	0.5+	0.2+
1994 08 11	809	0.7+	0.8+	1996 01 30	411	0.0	0.1−	2000 03 09	704	0.1+	0.3+
1994 08 11	809	0.6+	1.5+	1998 09 18	699	0.4+	1.7+	2000 03 09	704	0.0	0.2−
1994 08 12	809	0.7−	0.6−	1998 09 18	699	0.0	0.5+	2000 03 09	704	0.1+	0.2−
1994 08 12	809	0.2−	1.2−	1998 09 18	699	0.4−	1.4+	2000 03 09	704	0.6+	0.3−
1994 08 12	809	0.8+	0.5−	1998 10 18	704	0.4+	0.2−	2000 03 13	704	0.0	0.4−
1994 08 13	809	0.9+	0.1−	1998 10 18	704	0.9−	0.5+	2000 03 13	704	0.3+	0.1−
1994 08 13	809	0.1+	0.3−	1998 10 18	704	0.1+	0.0	2000 03 13	704	0.5+	0.5+
1994 08 13	809	0.3−	0.2+	1998 10 18	704	1.2+	1.0−	2000 03 13	704	0.6+	0.2+
1994 09 05	809	0.3−	0.5+	1998 10 18	704	1.4−	0.1+	2000 03 13	704	0.2−	0.9+
1994 09 05	809	1.1−	0.7+	2000 01 05	704	0.1−	0.5+				
1994 09 05	809	(2.4−	0.4−)	2000 01 05	704	0.3−	0.1+				

(14060)* 1996 BM₅

Discovered 1996 Jan. 18 by Spacewatch at Kitt Peak.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Q			
(2000.0)				P			
<i>M</i>	255.17408						
<i>n</i>	0.26881777	ω	276.62001	+0.06907574	+0.99760759		
<i>a</i>	2.3777384	Ω	357.33620	−0.89018359	+0.06038631		
<i>e</i>	0.0614487	<i>i</i>	3.40975	−0.45033511	+0.03365401		
<i>P</i>	3.67	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1994 09 29	691	0.1−	0.3+	2000 01 04	704	0.1+	1.1−	2000 02 29	704	0.8+	0.2−
1994 09 29	691	0.1−	0.2+	2000 01 04	704	0.3+	0.6+	2000 02 29	704	0.7+	0.3−
1994 09 29	691	0.1−	0.3+	2000 01 04	704	0.1+	1.0−	2000 02 29	704	0.6+	0.3−
1996 01 12	691	0.1+	0.6−	2000 01 10	699	0.0	0.9+	2000 02 29	704	0.6+	0.0
1996 01 12	691	0.2−	0.7−	2000 01 10	699	0.5+	0.9+	2000 03 03	704	0.2+	0.2−
1996 01 12	691	0.2−	0.7−	2000 01 10	699	0.1−	0.8−	2000 03 03	704	0.2+	0.2+
1996 01 18	691	0.3−	0.7−	2000 02 05	704	0.4+	0.4−	2000 03 03	704	0.2+	0.0
1996 01 18	691	0.2−	0.6−	2000 02 05	704	0.1+	0.2+	2000 03 03	704	0.5+	1.3−
1996 01 18	691	0.3−	0.6−	2000 02 05	704	0.3−	0.8+	2000 03 03	704	0.8−	0.4−
1996 01 25	691	0.1−	0.6−	2000 02 06	704	0.7+	0.1+	2000 03 06	704	0.4+	0.4+
1996 01 25	691	0.2−	0.5−	2000 02 06	704	0.9+	0.5+	2000 03 06	704	0.6−	0.2+
1996 01 25	691	0.3−	0.6−	2000 02 06	704	0.3+	0.7+	2000 03 06	704	0.5−	0.2+

1998 10 19	699	0.8+	0.3+	2000 02 06	704	0.9+	1.4+	2000 03 11	704	0.1-	0.3+
1998 10 19	699	0.5-	0.3+	2000 02 06	704	0.0	0.3+	2000 03 11	704	0.0	0.2+
1998 10 19	699	0.3-	0.2+	2000 02 11	704	0.3+	0.1+	2000 03 11	704	0.0	0.3+
1998 11 11	704	0.5+	0.6-	2000 02 11	704	0.2+	0.5+	2000 03 11	704	0.3-	0.2+
1998 11 11	704	0.5-	0.5+	2000 02 11	704	0.0	0.1+	2000 03 11	704	0.3-	0.4+
1998 11 11	704	0.7-	1.5+	2000 02 11	704	0.5+	0.4-	2000 03 11	699	0.4-	0.0
1998 11 11	704	0.4-	0.2+	2000 02 11	704	0.6+	0.8+	2000 03 11	699	0.3-	0.0
1998 11 11	704	(3.6-	1.2+)	2000 02 23	106	0.1+	0.2+	2000 03 11	699	0.6-	1.1+
1998 11 20	699	0.1+	0.2+	2000 02 23	106	0.9-	0.1+	2000 03 11	699	0.2-	0.4+
1998 11 20	699	0.2+	0.4+	2000 02 26	703	0.2+	0.3+	2000 03 15	691	0.8-	0.4-
1998 11 20	699	0.1-	0.2-	2000 02 26	703	0.4+	0.2+	2000 03 15	691	0.8-	0.3-
2000 01 04	704	0.1+	0.6+	2000 02 26	703	0.3+	0.0	2000 03 15	691	0.8-	0.3-
2000 01 04	704	0.5+	0.1+	2000 02 26	703	0.0	0.0				

(14061)* 1996 CT₇ = 1997 LE₁₂

Discovered 1996 Feb. 13 by U. Munari and M. Tombelli at Cima Ekar.
Id. G. V. Williams (*MPC* 30278)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	102.12687	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.26091061	ω	192.36245	+0.72894735	-0.68236696		
<i>a</i>	2.4255388	Ω	210.89200	+0.63683149	+0.70534123		
<i>e</i>	0.1314780	<i>i</i>	6.13538	+0.25116014	+0.19201325		
<i>P</i>	3.78	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1996 01 15	691	0.9-	0.1-	1998 09 10	108	1.4+	1.5+	1998 10 15	704	0.4+	0.7+
1996 01 15	691	0.2+	0.1-	1998 09 14	704	0.3+	0.0	1998 10 15	704	0.6-	0.4+
1996 01 15	691	0.3+	0.2-	1998 09 14	704	0.6+	0.5+	1998 10 15	704	0.0	0.2-
1996 01 15	098	0.9+	0.2-	1998 09 14	704	0.1+	0.8+	1998 11 10	699	0.2-	0.4+
1996 01 15	098	(3.2+	1.4-)	1998 09 14	704	0.2+	0.6+	1998 11 10	699	0.0	0.8+
1996 01 16	098	1.2+	0.5+	1998 09 14	704	0.4-	1.7+	1998 11 10	699	0.2-	0.5-
1996 01 17	098	0.1-	0.5-	1998 09 16	699	0.0	0.4+	1998 11 25	699	1.6-	0.3-
1996 01 17	098	1.5-	0.1-	1998 09 16	699	0.4-	0.2+	1998 11 25	699	1.4-	1.0-
1996 01 18	098	0.3+	0.8-	1998 09 16	699	0.1-	0.3+	1998 11 25	699	0.5-	0.8+
1996 01 19	098	0.7+	0.9+	1998 09 18	704	0.7+	0.1+	1998 12 08	699	0.4-	0.4+
1996 02 13	098	1.4-	1.8-	1998 09 18	704	0.1-	0.1-	1998 12 08	699	0.7-	0.3-
1996 02 14	098	0.1-	1.1-	1998 09 18	704	0.1+	0.2+	1998 12 08	699	0.5-	1.3+
1996 02 15	098	(3.1-	0.4+)	1998 09 18	704	1.3+	1.1+	1998 12 09	704	1.1-	1.7-
1996 02 17	098	1.1-	1.2-	1998 09 18	704	0.6+	0.9+	1998 12 09	704	1.7-	0.5+
1996 02 17	098	(4.8-	2.0+)	1998 09 18	108	0.8+	1.9-	1998 12 09	704	1.6-	1.5-
1996 02 24	098	0.8+	0.7+	1998 09 18	108	0.2-	1.3-	1998 12 09	704	(2.1-	0.3+)
1996 02 24	098	(4.0-	2.7-)	1998 09 18	108	1.8-	1.3-	1998 12 09	704	(3.1-	2.1+)
1997 05 03	809	1.6+	0.9+	1998 09 26	704	0.3-	0.6-	2000 02 02	704	0.0	0.5+
1997 05 03	809	0.1+	0.6+	1998 09 26	704	0.2-	0.2-	2000 02 02	704	0.6+	0.3+
1997 05 03	809	0.9+	1.3+	1998 09 26	704	1.3-	0.8-	2000 02 02	704	0.0	0.1+
1997 05 04	809	(0.9-	2.1+)	1998 09 26	704	0.8-	0.2-	2000 02 02	704	0.7+	0.7+
1997 05 04	809	0.7-	1.6+	1998 09 26	704	0.2-	0.4+	2000 02 02	704	0.4+	0.5+
1997 05 04	809	1.8-	1.9+	1998 09 27	699	0.6-	0.1-	2000 02 08	704	0.0	0.6+
1997 06 05	691	0.5-	0.5-	1998 09 27	699	0.3-	0.6+	2000 02 08	704	0.1-	0.4+
1997 06 05	691	0.6-	0.2-	1998 09 27	704	0.1-	0.7+	2000 02 08	704	0.8+	0.3+
1997 06 05	691	0.6-	0.3-	1998 09 27	699	0.5-	0.7+	2000 02 08	704	1.4+	0.2+
1997 06 07	809	(1.4+	2.3-)	1998 09 27	704	0.8+	1.3+	2000 02 08	704	0.3+	0.3+
1997 06 07	809	(0.3-	2.4-)	1998 09 27	704	0.3+	0.9+	2000 03 01	704	0.1-	0.9+
1997 06 07	809	(0.1+	2.2-)	1998 09 27	704	0.3+	1.6+	2000 03 01	704	0.0	0.6-
1997 06 08	809	0.1-	0.8-	1998 09 27	704	0.9+	0.1+	2000 03 01	704	0.2+	0.9+
1997 06 08	809	0.4+	0.2-	1998 10 14	704	0.3+	0.5+	2000 03 11	699	0.2-	0.5+
1997 06 08	809	0.8+	0.2-	1998 10 14	704	0.1-	0.0	2000 03 11	699	0.2+	0.9+
1998 08 23	704	1.8+	1.3+	1998 10 14	704	1.0-	0.8+	2000 03 11	699	0.3-	0.5+
1998 08 23	704	1.4+	0.8-	1998 10 14	704	0.5-	1.0+	2000 03 11	699	0.3-	0.5+
1998 08 23	704	1.1+	1.6-	1998 10 14	704	1.4-	0.5+	2000 03 13	704	0.1+	0.5+
1998 08 23	704	0.9+	1.4+	1998 10 14	699	0.1+	0.0	2000 03 13	704	0.3-	1.2+
1998 08 23	704	0.2+	1.7-	1998 10 14	699	0.4+	0.2-	2000 03 13	704	0.5+	0.6+
1998 09 10	108	(0.2+	2.4+)	1998 10 14	699	0.4+	0.5-	2000 03 13	704	0.1-	1.0+
1998 09 10	108	(0.8+	2.3+)	1998 10 15	704	0.2-	0.0				
1998 09 10	108	0.7+	0.7-	1998 10 15	704	0.8-	0.4+				

(14062)* 1996 CR₈ = 1977 DZ₆ = 1998 VJ₁₃

Discovered 1996 Feb. 14 by U. Munari and M. Tombelli at Cima Ekar.
Id. E. Bowell (*MPC* 33252), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	7.16044	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.25978155	ω	132.87215	-0.97837638	-0.20508585		
<i>a</i>	2.4325616	Ω	35.31812	+0.17365746	-0.88495631		
<i>e</i>	0.1294301	<i>i</i>	2.65930	+0.11235104	-0.41808147		
<i>P</i>	3.79	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1977 02 19	381	0.1+	0.3+	1998 11 10	704	0.1-	0.3+	2000 03 01	703	0.3-	0.1+
1977 02 19	381	0.0	0.0	1998 11 10	704	0.2+	1.8-	2000 03 01	703	0.1-	0.1-
1996 02 14	098	0.3-	0.7-	1998 11 11	704	0.2-	0.7-	2000 03 08	704	0.4+	0.2-
1996 02 14	098	1.1+	0.4-	1998 11 11	704	0.0	1.4+	2000 03 08	704	0.6+	0.3-
1996 02 15	098	(2.4-	0.8-)	1998 11 11	704	0.3-	0.2+	2000 03 08	704	0.3+	0.5-
1996 02 15	098	0.3-	1.5-	1998 11 11	704	0.3-	0.3+	2000 03 08	120	0.1+	0.9+
1996 02 24	098	0.1+	0.7-	1998 11 14	699	0.6+	0.4-	2000 03 08	120	1.2-	0.1-
1996 02 24	098	0.2+	0.1-	1998 11 14	699	0.8-	0.9+	2000 03 09	120	(2.8-	0.3+)
1996 03 14	098	0.8-	0.2-	1998 11 14	699	0.7-	1.6+	2000 03 09	120	0.7+	1.1+
1996 03 14	098	1.7-	0.2-	2000 02 08	704	0.1+	1.3+	2000 03 10	704	0.6+	0.3+
1998 08 24	910	1.1-	0.3+	2000 02 08	704	0.1+	0.7+	2000 03 10	704	0.3+	0.2+
1998 08 24	910	0.8-	0.4+	2000 02 08	704	0.4+	0.9+	2000 03 10	704	0.4-	0.9+
1998 08 24	910	0.7-	0.6+	2000 02 08	704	0.4+	0.5-	2000 03 10	704	0.1-	0.0
1998 10 19	699	0.4+	0.5-	2000 02 28	120	0.1-	0.1+	2000 03 11	704	0.4+	0.2+
1998 10 19	699	0.9+	0.1+	2000 02 28	120	0.4-	0.1+	2000 03 11	704	0.3+	0.2+
1998 10 19	699	0.6+	0.1+	2000 02 29	120	0.3+	0.2+	2000 03 11	704	0.2+	0.4+
1998 11 10	704	0.1+	0.2-	2000 03 01	703	0.0	0.1-	2000 03 11	704	0.3+	0.2+
1998 11 10	704	0.2+	1.0+	2000 03 01	703	0.4-	0.2-				

(14063)* 1996 DZ = 1985 JH₂ = 1985 KU

Discovered 1996 Feb. 21 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 27113), F. N. Bowman (d, *MPC* 10151)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>	322.04630	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.25886172	ω	140.73955	-0.58176345	+0.81251195		
<i>a</i>	2.4383207	Ω	93.65504	-0.75528495	-0.52274269		
<i>e</i>	0.1639365	<i>i</i>	2.12989	-0.30182102	-0.25800078		
<i>P</i>	3.81	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1985 05 13	675	0.4+	1.3+	1996 02 26	400	0.4-	0.5-	1996 05 20	327	0.3+	0.1-
1985 05 14	675	(0.0	2.5+)	1996 02 27	411	0.2+	0.2+	1996 05 20	327	0.4+	0.3-
1985 05 27	046	1.5-	0.7-	1996 02 27	411	0.9-	0.0	1996 05 20	327	0.2-	0.3+
1985 05 27	046	1.1+	0.7-	1996 04 05	411	0.8-	0.8-	1997 11 29	688	0.6-	0.7+
1993 08 13	675	0.1+	1.1+	1996 04 05	411	0.8-	0.4-	1997 11 29	688	0.6+	0.3+
1993 08 13	675	0.8-	0.7+	1996 04 05	411	0.8-	0.3-	2000 02 08	704	0.1+	0.3+
1996 02 20	400	0.6-	0.1+	1996 04 21	566	(0.9+	2.3-)	2000 02 08	704	0.3+	0.6+
1996 02 20	400	0.4-	1.7+	1996 04 21	566	(0.9+	2.2-)	2000 02 08	704	0.6+	0.8+
1996 02 21	400	0.1-	0.4+	1996 04 21	566	1.3+	2.1-	2000 02 11	704	0.2-	0.1-
1996 02 21	400	1.6+	1.2+	1996 05 17	327	0.1+	0.6-	2000 02 11	704	0.1+	0.2+
1996 02 21	411	1.4+	0.4+	1996 05 17	327	0.1+	0.1+	2000 02 11	704	0.6+	0.1-
1996 02 21	411	0.2+	0.2-	1996 05 17	327	0.1+	0.0	2000 03 01	703	0.0	0.1+
1996 02 22	411	0.5-	0.5+	1996 05 17	327	0.6-	0.2-	2000 03 01	703	0.1-	0.3+
1996 02 22	411	0.1+	0.5-	1996 05 19	327	0.2-	0.3+	2000 03 01	703	0.1-	0.1+
1996 02 22	411	0.1-	0.2-	1996 05 19	327	0.2+	0.2+	2000 03 01	703	0.1-	0.1+
1996 02 26	400	1.0+	0.3+	1996 05 19	327	0.8-	0.1+				

2000 MAR. 20

M.P.C. 39069

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	73.75640		(2000.0)	P	Q
<i>n</i>	0.25354932	ω	117.97682	+0.26922432	-0.96254038
<i>a</i>	2.4722615	Ω	316.36567	+0.86642690	+0.25665125
<i>e</i>	0.0742400	<i>i</i>	2.67126	+0.42050290	+0.08744227
<i>P</i>	3.89	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1994 10 09	691	0.2-	0.0	1998 09 27	704	0.1+	0.8+	2000 02 29	704	0.2-	0.1-
1994 10 09	691	0.0	1.6+	1998 09 27	704	1.0-	0.5+	2000 03 03	704	0.0	0.3+
1994 10 09	691	0.4-	0.1-	1998 10 14	699	0.5+	0.6-	2000 03 03	704	0.0	0.2+
1996 01 18	327	0.2-	0.9-	1998 10 14	699	0.1-	0.9+	2000 03 03	704	0.2+	0.0
1996 01 18	327	0.1+	1.1-	1998 10 14	699	0.3-	0.5-	2000 03 03	704	0.2+	0.0
1996 01 18	327	0.2-	0.7-	2000 02 01	703	1.2+	0.3+	2000 03 03	704	0.7+	0.5-
1996 02 16	010	0.2+	1.2+	2000 02 01	703	0.2+	0.4+	2000 03 04	704	0.4-	0.3-
1996 02 16	010	0.4-	1.7+	2000 02 01	703	0.1-	0.1+	2000 03 04	704	0.6-	0.1-
1996 02 16	010	0.2-	1.8+	2000 02 01	703	1.3-	0.4+	2000 03 04	704	0.5+	0.4+
1996 02 17	010	(1.9+	2.9+)	2000 02 02	704	0.3+	0.7+	2000 03 04	704	0.3-	0.3+
1996 02 17	010	(0.1-	3.2+)	2000 02 02	704	0.8-	0.0	2000 03 04	704	0.1+	0.7+
1996 02 17	010	(1.6+	3.7+)	2000 02 02	704	0.8-	0.0	2000 03 05	704	0.0	0.2-
1996 02 20	566	0.1-	1.4-	2000 02 02	704	0.8+	0.6+	2000 03 05	704	0.4+	0.2-
1996 02 20	566	0.6-	1.9-	2000 02 02	704	0.3-	0.1-	2000 03 05	704	0.0	0.2+
1996 02 20	566	0.2+	1.5-	2000 02 06	704	0.6+	0.1-	2000 03 05	704	0.3-	0.1-
1998 09 14	704	0.3-	0.7-	2000 02 06	704	0.1+	0.4-	2000 03 05	704	0.4-	0.1-
1998 09 14	704	0.9-	1.2-	2000 02 06	704	0.0	0.9+	2000 03 06	704	0.0	0.5+
1998 09 14	704	(0.7-	2.3-)	2000 02 08	704	0.0	0.1+	2000 03 06	704	0.1-	0.5+
1998 09 18	704	0.2+	1.3-	2000 02 08	704	0.0	0.2+	2000 03 06	704	0.0	0.0
1998 09 18	704	1.4-	0.4+	2000 02 08	704	0.3-	0.2+	2000 03 06	704	0.2+	0.2+
1998 09 18	704	0.9+	0.7-	2000 02 08	704	0.3-	0.2+	2000 03 09	704	0.4-	0.2+
1998 09 18	704	0.1+	0.9-	2000 02 08	704	0.2-	0.3-	2000 03 09	704	0.1+	0.1+
1998 09 18	704	1.3-	0.6+	2000 02 12	704	1.4+	1.7+	2000 03 09	704	0.2+	0.3-
1998 09 26	704	1.7+	0.1-	2000 02 12	704	1.2+	1.1-	2000 03 09	704	0.4+	0.1+
1998 09 26	704	0.4+	0.7-	2000 02 12	704	0.3-	0.7+	2000 03 09	704	1.7+	0.7-
1998 09 26	704	0.4+	1.0+	2000 02 12	704	0.1-	0.8-	2000 03 11	704	0.1+	0.1-
1998 09 26	704	0.4-	0.4-	2000 02 29	704	0.0	0.1-	2000 03 11	704	0.4+	0.2-
1998 09 27	704	0.1+	0.8+	2000 02 29	704	0.1-	0.5-	2000 03 11	704	0.3-	0.1-
1998 09 27	704	0.7+	0.8+	2000 02 29	704	0.1-	0.1+	2000 03 11	704	0.1-	0.5-
1998 09 27	704	0.5+	1.0+	2000 02 29	704	0.2-	0.4+	2000 03 11	704	0.9-	0.1+

(14065)* 1996 EY₅ = 1986 XM₅

Discovered 1996 Mar. 11 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 32674)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	78.30612		(2000.0)	P	Q
<i>n</i>	0.23796124	ω	40.16131	+0.48965533	-0.87180935
<i>a</i>	2.5790825	Ω	20.53201	+0.78965743	+0.43677155
<i>e</i>	0.1571140	<i>i</i>	2.22920	+0.36970096	+0.22176354
<i>P</i>	4.14	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1986 12 07	046	1.5+	1.9-	1998 09 26	704	1.9-	1.2+	2000 02 11	704	1.3+	0.0
1986 12 07	046	(4.4+	0.0)	1998 09 27	704	(3.5+	0.5-)	2000 02 25	703	0.2+	0.3+
1994 10 28	691	1.1-	0.6-	1998 09 27	704	1.0+	0.1-	2000 02 25	703	(0.1-	2.3+)
1994 10 28	691	1.2-	0.1+	1998 09 27	704	0.8+	1.0-	2000 02 25	703	0.4+	0.4+
1994 10 28	691	1.1-	0.1+	1998 09 27	704	1.3+	1.4-	2000 02 25	703	0.1-	0.6+
1996 03 11	691	0.2-	0.3-	1998 09 27	704	0.3+	1.3-	2000 02 29	704	0.6+	0.3+
1996 03 11	691	0.4-	0.2-	1998 09 27	704	0.7+	1.1-	2000 02 29	704	0.3+	0.1+
1996 03 11	691	0.3-	0.3-	1998 09 27	704	0.0	0.4+	2000 02 29	704	0.3-	0.3-
1996 03 18	691	0.2-	0.2-	1998 09 27	704	0.8+	0.8+	2000 02 29	704	0.1+	0.0
1996 03 18	691	0.1+	0.2-	1998 09 27	704	0.3-	0.7-	2000 02 29	704	0.2+	0.2-
1996 03 18	691	0.0	0.3-	1998 10 14	704	0.7+	0.0	2000 03 03	704	0.0	0.2+
1996 03 26	691	0.7-	0.3-	1998 10 14	704	0.1+	0.8-	2000 03 03	704	0.1+	0.2+
1996 03 26	691	0.1-	0.4-	1998 10 14	704	(1.1-	2.1-)	2000 03 03	704	0.2+	0.5+
1996 03 26	691	0.6-	0.3-	1998 10 15	704	1.7-	1.4-	2000 03 03	704	0.1-	0.4+
1998 09 16	699	0.8+	1.3+	1998 10 15	704	0.6-	2.0+	2000 03 03	704	0.2-	0.2+
1998 09 16	699	0.7+	1.2+	1998 10 15	704	1.9-	0.8+	2000 03 05	704	0.3+	0.1+

1998 09 16	699	0.8+	0.1-	1998 10 15	704	0.8+	1.1-	2000 03 05	704	0.6+	0.6+
1998 09 25	699	1.0+	0.8+	2000 02 04	704	0.1-	0.3-	2000 03 05	704	0.2+	0.8+
1998 09 25	699	0.4-	0.5+	2000 02 04	704	0.3-	0.4-	2000 03 05	704	0.1+	0.5+
1998 09 25	699	0.2+	0.1+	2000 02 04	704	0.2-	0.7+	2000 03 05	704	0.3+	0.9+
1998 09 26	704	0.4-	0.5+	2000 02 04	704	0.1+	0.3+	2000 03 11	704	(2.3+	1.6-)
1998 09 26	704	0.3-	1.3+	2000 02 04	704	0.4-	0.1-	2000 03 11	704	(1.7+	2.2-)
1998 09 26	704	1.3-	0.5+	2000 02 11	704	0.2+	0.1+	2000 03 11	704	(2.0+	2.6-)
1998 09 26	704	(2.3-	1.1+)	2000 02 11	704	0.7-	1.1-	2000 03 11	704	(2.3+	4.1-)

(14066)* 1996 FA₄ = 1981 UK₅ = 1998 SW₁₄₁

Discovered 1996 Mar. 20 by AMOS at Haleakala.

Id. G. V. Williams (*MPC* 32951)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	29.99889		(2000.0)	P	Q
<i>n</i>	0.22853292	ω	77.83489	-0.47387196	-0.86737408
<i>a</i>	2.6495383	Ω	41.57931	+0.69230934	-0.47363834
<i>e</i>	0.1112288	<i>i</i>	13.24126	+0.54419954	-0.15273810
<i>P</i>	4.31	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1981 10 30	381	0.2+	0.6-	1998 09 27	704	0.5-	0.6+	1998 11 11	704	0.5+	1.2-
1981 10 30	381	1.0+	1.3-	1998 09 27	704	(0.6+	2.3+)	1998 11 11	704	0.1-	0.4-
1981 10 30	381	0.2-	1.7-	1998 10 11	699	0.1+	1.1+	2000 01 03	704	0.2-	0.7-
1981 10 30	381	1.7+	1.6-	1998 10 11	699	0.1+	0.3+	2000 01 03	704	0.0	0.8+
1996 03 20	608	0.9-	0.0	1998 10 11	699	1.1+	0.7+	2000 01 03	704	0.1+	1.1-
1996 03 20	608	1.1-	0.2-	1998 10 20	699	0.4+	0.0	2000 01 03	704	0.3+	0.2+
1996 03 24	608	0.8-	0.2-	1998 10 20	699	0.0	0.7-	2000 01 03	704	0.2+	1.8-
1996 03 24	608	1.0-	0.4-	1998 10 20	699	0.6-	0.0	2000 01 03	704	0.6+	0.3+
1996 04 08	608	(0.8-	3.6-)	1998 10 28	704	0.8+	0.7-	2000 01 03	704	0.4+	1.2+
1996 04 08	608	(0.2-	3.1-)	1998 10 28	704	1.3-	1.2-	2000 01 03	704	0.4-	1.2+
1996 04 09	608	0.1+	0.5-	1998 10 28	704	0.3-	1.0-	2000 01 03	704	0.3+	1.3+
1996 04 09	608	0.0	0.4-	1998 10 28	704	0.7-	0.2+	2000 01 31	704	0.0	0.1-
1996 04 22	691	0.2+	0.8-	1998 10 29	704	0.3-	0.5+	2000 01 31	704	0.1-	0.7-
1996 04 22	691	0.3+	0.6-	1998 10 29	704	0.4-	0.6+	2000 01 31	704	0.0	0.0
1996 04 22	691	0.4+	0.6-	1998 10 29	704	0.5+	0.7+	2000 03 04	704	0.6-	0.3+
1996 04 23	691	0.5-	0.4-	1998 10 29	704	0.5-	0.1+	2000 03 04	704	0.1-	0.0
1996 04 23	691	0.5-	0.8-	1998 10 29	704	1.5-	0.8+	2000 03 04	704	0.5-	0.6+
1996 04 23	691	0.5-	0.8-	1998 11 10	704	0.6+	0.6-	2000 03 04	704	0.3-	0.3+
1998 09 26	704	0.7-	0.1-	1998 11 10	704	1.1+	0.1+	2000 03 04	704	0.4-	0.5+
1998 09 26	704	1.2+	1.4-	1998 11 10	704	0.7-	0.6+	2000 03 12	704	0.7+	0.2+
1998 09 26	704	0.2-	0.2-	1998 11 10	704	0.2+	0.0	2000 03 12	704	0.7+	0.5+
1998 09 26	704	0.4-	1.1+	1998 11 10	704	0.8+	0.7-	2000 03 12	704	0.5+	0.5+
1998 09 26	704	0.3+	0.7+	1998 11 11	704	0.4-	0.2+	2000 03 12	704	0.8+	0.2+
1998 09 27	704	0.1-	0.7+	1998 11 11	704	0.2-	0.7-	2000 03 12	704	0.8+	0.7+
1998 09 27	704	0.4-	0.7+	1998 11 11	704	1.0+	0.7+				

(14067)* 1996 GY₁₇ = 1991 HJ₁ = 2000 CW₉₃

Discovered 1996 Apr. 15 by E. W. Elst at the European Southern

Observatory.

Id. G. V. Williams (*MPC* 38454)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	209.82676		(2000.0)	P	Q
n	0.20608007	ω	280.17892	+0.49993138	+0.86598363
a	2.8386513	Ω	19.83007	-0.78026717	+0.45631194
e	0.0571750	i	2.00577	-0.37583475	+0.20457705
P	4.78	H	14.1	G 0.15	U 1

1996 03 27	809	0.7+	1.8+	1998 12 14	704	(0.7+	2.2-)	2000 02 29	704	0.3+	0.6-
1996 03 27	809	(0.1+	2.7+)	1998 12 14	704	(6.5-	0.2-)	2000 02 29	704	0.3-	0.3-
1996 04 15	809	0.8+	1.5+	2000 02 03	704	1.5+	0.1-	2000 02 29	704	1.5+	0.1+
1996 04 15	809	0.1-	0.8+	2000 02 03	704	0.3-	0.3-	2000 03 03	704	0.7+	0.8+
1996 04 15	809	0.4+	1.1+	2000 02 03	704	0.1-	0.4+	2000 03 03	704	0.2+	0.3-
1996 04 17	809	(2.0+	4.4+)	2000 02 03	704	0.3-	0.1-	2000 03 03	704	0.2-	0.1-
1996 04 17	809	(1.9+	2.9+)	2000 02 03	704	1.2-	0.5+	2000 03 03	704	0.1-	0.5-
1996 04 17	809	(1.6+	3.4+)	2000 02 06	703	0.2-	0.6+	2000 03 03	704	0.7+	0.5+
1998 11 18	704	1.9-	0.7+	2000 02 06	703	0.7-	0.0	2000 03 05	704	0.1+	0.1-
1998 11 18	704	0.8-	0.2+	2000 02 06	703	1.7-	1.0+	2000 03 05	704	0.1-	0.6+
1998 11 18	704	(2.4-	0.5-)	2000 02 06	703	0.8+	0.1-	2000 03 05	704	0.1+	0.0
1998 11 18	704	0.3-	1.4+	2000 02 08	704	0.1-	0.3-	2000 03 05	704	1.2-	0.2+
1998 11 24	704	0.4+	1.8+	2000 02 08	704	0.4-	0.6-	2000 03 05	704	0.5+	0.6-
1998 11 24	704	1.2-	0.5+	2000 02 08	704	0.5+	1.4-				
1998 11 24	704	0.8+	0.7-	2000 02 08	704	0.3-	0.6-				

(14068)* 1996 HP₁

Discovered 1996 Apr. 21 by J. Tichá and M. Tichý at Kleť.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	336.03416		(2000.0)	P	Q
<i>n</i>	0.23286612	ω	355.41240	-0.97148016	+0.22939469
<i>a</i>	2.6165669	Ω	198.19120	-0.21097756	-0.95177675
<i>e</i>	0.1203328	<i>i</i>	11.08750	-0.10823477	-0.20371326
<i>P</i>	4.23	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1996 03 21	566	0.0	0.4+	1996 05 06	046	0.5-	0.0	1998 10 29	704	1.1-	1.3+
1996 03 21	566	0.1+	0.1+	1996 05 06	046	0.3-	0.1-	1998 10 29	704	0.8-	0.7+
1996 03 21	566	0.1+	0.1+	1996 05 06	046	0.9-	0.7+	1998 10 29	704	0.6-	0.1+
1996 04 12	691	0.0	0.1-	1996 05 16	046	0.2-	0.9+	1998 10 29	704	0.3+	0.2-
1996 04 12	691	0.1-	0.1-	1996 05 16	046	0.7-	0.6+	1998 11 11	704	(1.9+	2.4-)
1996 04 12	691	0.0	0.0	1996 05 16	046	0.0	0.2+	1998 11 11	704	0.4+	0.7-
1996 04 21	566	(2.8+	2.2-)	1996 05 18	046	0.2-	0.6-	1998 11 11	704	(2.2-	1.2-)
1996 04 21	566	(2.7+	2.6-)	1996 05 18	046	0.5-	1.0-	1998 11 12	046	0.5+	0.1-
1996 04 21	566	(2.7+	2.6-)	1996 05 22	046	1.6-	0.2+	1998 11 12	046	0.7+	0.2+
1996 04 21	046	1.2+	0.3-	1996 05 22	046	1.1-	0.4-	1998 11 12	046	0.2+	0.6+
1996 04 21	046	0.9+	0.0	1996 05 22	046	0.2-	0.2+	1998 11 13	046	0.2-	0.0
1996 04 21	046	1.1+	0.0	1997 08 04	046	0.1+	0.5-	1998 11 13	046	0.1+	0.2-
1996 04 21	046	1.2+	0.2+	1997 08 04	046	0.4+	0.2-	1998 11 13	046	0.2-	0.6+
1996 04 22	566	1.9+	0.2-	1997 08 04	046	0.0	0.3-	2000 02 08	704	0.3+	0.4-
1996 04 22	566	1.9+	0.3-	1997 08 06	046	0.6+	0.8+	2000 02 08	704	0.0	0.3-
1996 04 22	566	1.8+	0.4-	1997 08 06	046	0.8-	0.3-	2000 02 08	704	0.7+	0.2-
1996 04 23	046	0.4+	0.4-	1997 08 06	046	0.9-	1.0+	2000 03 05	608	1.7-	0.5-
1996 04 23	046	1.2-	0.5+	1997 08 06	046	0.1+	0.8+	2000 03 05	608	1.4-	0.4-
1996 04 23	046	0.3-	0.6+	1997 08 06	046	0.0	0.7+	2000 03 05	608	1.4-	0.4-
1996 04 23	046	0.0	0.0	1997 08 06	046	0.6+	0.7+	2000 03 08	704	0.4+	0.2+
1996 04 26	046	0.0	0.5+	1997 08 24	046	0.3+	0.0	2000 03 08	704	1.3+	1.4+
1996 04 26	046	0.3+	0.6-	1997 08 24	046	0.2+	0.1+	2000 03 08	704	0.4+	0.1-
1996 04 26	046	0.3+	0.3-	1997 08 24	046	0.1+	0.1+	2000 03 08	704	1.4+	0.5+
1996 05 05	046	1.2-	0.1-	1997 08 25	046	0.2-	0.3+	2000 03 08	704	0.5+	1.9+
1996 05 05	046	1.6-	0.7+	1997 08 25	046	0.7-	0.2-				
1996 05 05	046	1.2-	0.5+	1997 08 25	046	0.2-	0.2-				

(14069)* 1996 HP₁₈ = 1992 RM₁ = 1998 VN₁

Discovered 1996 Apr. 18 by E. W. Elst at the European Southern

Observatory.

Id. A. Doppler (*MPC* 33494)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	107.62433		(2000.0)	P	Q
<i>n</i>	0.17685214	ω	329.58994	+0.93175811	-0.22977835
<i>a</i>	3.1433724	Ω	46.58632	+0.35839636	+0.70602388
<i>e</i>	0.2222317	<i>i</i>	22.76792	-0.05812810	+0.66987476
<i>P</i>	5.57	<i>H</i>	12.9	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1992 09 02	413	0.5+	0.0	1998 11 10	704	0.0	1.0-	1998 12 24	699	0.3-	0.9+
1992 09 04	413	0.6-	0.1-	1998 11 10	704	(1.3-	2.1-)	1998 12 24	699	0.3-	0.8+
1996 04 18	809	(3.0+	2.5+)	1998 11 11	704	0.5-	0.2+	1999 02 06	704	0.0	1.3+
1996 04 18	809	1.9+	1.4+	1998 11 11	704	1.0-	0.1+	1999 02 06	704	(0.8-	2.9+)
1996 04 18	809	(2.7+	1.4+)	1998 11 11	704	0.1+	0.2-	1999 02 06	704	0.3+	0.1-
1996 04 20	809	0.9+	0.0	1998 11 11	704	0.8-	0.8-	1999 02 06	704	1.1-	0.1-
1996 04 20	809	0.5+	1.1+	1998 11 11	704	1.4-	0.1+	1999 02 06	704	0.8+	1.4-
1996 04 20	809	0.5+	0.2-	1998 11 18	704	0.2-	0.6+	2000 01 02	704	1.1-	0.3+
1996 05 22	809	(1.0+	3.4+)	1998 11 18	704	0.4+	0.4+	2000 01 02	704	0.2-	0.1-
1996 05 22	809	(2.0+	2.3+)	1998 11 18	704	0.0	1.7+	2000 01 02	704	0.1-	0.3-
1996 05 22	809	(0.8+	3.2+)	1998 11 18	704	0.1+	1.5+	2000 01 02	704	0.2-	0.5-
1996 05 23	809	(0.8+	2.8+)	1998 11 18	704	0.8+	1.8+	2000 01 02	704	0.4-	0.1+
1996 05 23	809	0.4+	1.7+	1998 11 20	699	0.5-	0.6+	2000 02 15	704	1.2+	1.4-
1996 05 23	809	(1.2+	2.2+)	1998 11 20	699	0.1+	0.5+	2000 02 15	704	1.7+	0.5+
1998 08 28	704	1.0-	1.4-	1998 11 20	699	0.2+	0.1+	2000 02 15	704	(2.5+	0.4+)
1998 08 28	704	0.9-	0.2-	1998 11 21	704	0.1-	0.1+	2000 01 02	704	0.4-	0.2+
1998 08 28	704	0.1+	0.1-	1998 11 21	704	0.3+	0.1-	2000 02 26	704	0.6-	0.5+
1998 08 28	704	(7.1-	0.3+)	1998 11 21	704	0.6+	0.5+	2000 02 26	704	0.1-	0.2-
1998 11 10	704	0.2+	0.0	1998 11 21	704	0.7+	0.1-	2000 02 26	704	0.8-	0.5-
1998 11 10	704	0.2+	1.0-	1998 11 21	704	0.8+	0.4-	2000 02 26	704	1.1-	0.2+
1998 11 10	704	0.4-	1.3-	1998 12 24	699	0.3-	0.7+				

(14070)* 1996 JC₁ = 1978 WZ₁₅ = 1998 XE₄₃ = 1999 XS₃₁

Discovered 1996 May 14 at Haleakala by the JPL Near-Earth Asteroid

Tracking program.

Id. T. B. Spahr (*MPC* 38454)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	195.34855		(2000.0)	P	Q
<i>n</i>	0.19949614	ω	260.47642	+0.81573665	+0.57259146
<i>a</i>	2.9007684	Ω	64.54936	-0.48870828	+0.75803486
<i>e</i>	0.0851714	<i>i</i>	5.20599	-0.30941547	+0.31228539
<i>P</i>	4.94	<i>H</i>	12.7	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1978 11 30	675	0.7-	0.5-	1998 12 17	704	1.1+	0.0	2000 02 25	703	0.4+	0.0
1978 12 01	675	0.5+	0.1+	1999 12 06	704	0.6-	0.7+	2000 02 25	703	0.4-	0.3+
1996 05 14	566	0.0	0.7-	1999 12 06	704	0.6+	0.0	2000 02 29	704	0.2-	0.1-
1996 05 14	566	0.1+	0.1-	1999 12 06	704	0.7-	0.1+	2000 02 29	704	(0.3+	3.1+)
1996 05 14	566	0.4+	0.3-	1999 12 06	704	0.1-	1.0-	2000 02 29	704	0.2-	0.1+
1996 05 15	566	0.1-	0.3-	1999 12 06	704	0.4+	0.8-	2000 02 29	704	0.2-	0.6+
1996 05 15	566	0.2+	0.1-	1999 12 07	704	1.5-	1.7+	2000 02 29	704	0.1-	0.2+
1996 05 15	566	0.8+	0.2-	1999 12 07	704	0.7-	0.0	2000 02 29	704	0.4+	0.3+
1996 05 19	566	0.0	0.8-	1999 12 07	704	0.2-	0.1-	2000 02 29	704	0.1-	0.2+
1996 05 19	566	0.1-	0.9-	1999 12 07	704	0.1-	0.8-	2000 02 29	704	0.1-	0.4+
1996 05 19	566	0.2-	0.8-	1999 12 07	704	0.0	0.1-	2000 02 29	704	0.0	0.0
1997 10 01	566	1.2-	0.7+	1999 12 08	704	0.3-	0.2-	2000 03 02	703	0.2+	0.1-
1997 10 01	566	0.9-	0.9+	1999 12 08	704	0.5+	0.2+	2000 03 02	703	0.2+	0.4+
1997 10 01	566	0.7-	0.3+	1999 12 08	704	0.6-	0.6-	2000 03 02	703	0.1-	0.9+
1998 12 14	704	(2.2+	0.4-)	1999 12 08	704	0.1+	0.8+	2000 03 02	703	0.1+	0.1-
1998 12 14	704	1.0-	0.3-	1999 12 08	704	0.3-	0.2+	2000 03 05	704	0.1-	0.0
1998 12 14	704	0.8+	0.8-	2000 02 02	411	0.3+	0.8-	2000 03 05	704	0.3-	0.0
1998 12 14	704	0.4+	0.0	2000 02 02	411	0.1-	1.4-	2000 03 05	704	0.6-	0.3+
1998 12 16	704	0.2-	0.7+	2000 02 03	411	2.0+	0.5+	2000 03 05	704	0.4-	0.2+
1998 12 16	704	0.1-	0.8-	2000 02 03	411	0.4+	0.6-	2000 03 05	704	0.6-	0.2+

2000 MAR. 20

M.P.C. 39071

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	206.51095		(2000.0)	P		Q	
<i>n</i>	0.20430223	ω	182.55559	+0.55517056	+0.83049208		
<i>a</i>	2.8550955	Ω	121.17059	-0.76215746	+0.52986080		
<i>e</i>	0.0530312	<i>i</i>	3.04702	-0.33301900	+0.17184421		
<i>P</i>	4.82	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1996 05 11	691	0.1+	0.2+	1998 11 24	704	0.7-	0.4-	2000 02 11	704	0.3-	0.0
1996 05 11	691	0.2-	0.5+	1998 11 24	704	0.1+	0.4+	2000 02 11	704	0.6+	0.3-
1996 05 11	691	0.0	0.4+	1998 12 25	691	0.1+	0.2+	2000 02 29	704	0.3+	0.0
1996 05 22	691	0.1-	0.6-	1998 12 25	691	0.2+	0.1+	2000 02 29	704	0.8+	0.4-
1996 05 22	691	0.2-	0.1-	1998 12 25	691	0.2+	0.2+	2000 02 29	704	0.3+	0.6-
1996 05 22	691	0.1-	0.1-	1998 12 28	691	0.1-	0.0	2000 02 29	704	0.2+	0.4-
1996 06 08	809	(1.1- 3.2-)		1998 12 28	691	0.1+	0.0	2000 02 29	704	0.6+	0.4-
1996 06 08	809	(0.6- 2.6-)		1998 12 28	691	0.2+	0.2+	2000 03 03	704	0.4+	0.1+
1996 06 08	809	(1.2- 3.2-)		2000 01 30	703	0.2+	0.5+	2000 03 03	704	0.6-	0.1-
1996 06 10	809	0.1-	0.1-	2000 01 30	703	0.4+	0.6+	2000 03 03	704	0.2-	0.0
1996 06 10	809	0.0	0.4-	2000 01 30	703	1.2-	0.7-	2000 03 03	704	0.2+	0.1+
1996 06 10	809	0.0	1.0-	2000 01 30	703	1.5-	1.0+	2000 03 03	704	0.0	0.0
1997 07 16	910	0.2-	0.5+	2000 02 03	684	0.0	0.7-	2000 03 05	704	0.3+	0.5+
1997 07 16	910	0.2-	0.5+	2000 02 03	684	0.0	0.8-	2000 03 05	704	0.2-	0.5+
1997 07 16	910	0.2-	0.7+	2000 02 04	704	0.5+	0.5+	2000 03 05	704	0.6-	0.1+
1998 11 11	699	0.3-	0.8+	2000 02 04	684	0.1-	0.5-	2000 03 05	704	0.3+	1.0+
1998 11 11	699	0.6+	0.2+	2000 02 04	684	0.1-	0.3-	2000 03 05	704	0.3-	0.3+
1998 11 11	699	1.1-	0.3-	2000 02 04	704	0.1+	0.6+	2000 03 11	704	0.2+	0.1-
1998 11 23	699	0.1+	0.5+	2000 02 04	704	0.3+	0.7+	2000 03 11	704	0.4+	0.1+
1998 11 23	699	0.7+	0.3-	2000 02 04	704	0.1-	0.8+	2000 03 11	704	0.3-	0.0
1998 11 23	699	0.3+	0.2+	2000 02 04	704	0.4+	1.4-	2000 03 11	704	0.1-	0.3+
1998 11 24	704	0.4-	0.3-	2000 02 11	704	0.2-	0.5+	2000 03 11	704	0.5-	0.4+
1998 11 24	704	0.7+	0.4-	2000 02 11	704	0.2+	0.1-				
1998 11 24	704	0.3-	1.7-	2000 02 11	704	0.3+	0.3+				

(14072)* 1996 KN = 1998 WF₁₀

Discovered 1996 May 21 by P. G. Comba at Prescott.

Id. G. V. Williams (*MPC* 33255)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	92.95477		(2000.0)	P		Q	
<i>n</i>	0.17651991	ω	4.95456	+0.72322373	-0.69030351		
<i>a</i>	3.1473152	Ω	38.72661	+0.63248363	+0.65001453		
<i>e</i>	0.1692777	<i>i</i>	1.89618	+0.27732994	+0.31774547		
<i>P</i>	5.58	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1995 04 05	691	0.5-	0.6-	1998 11 20	699	0.1-	0.5+	2000 02 14	049	0.3+	0.3-
1995 04 05	691	0.2-	0.5-	1998 11 21	704	0.0	0.7+	2000 02 14	049	0.6+	0.1-
1996 05 21	684	0.4-	0.5+	1998 11 21	704	0.2+	0.7+	2000 02 14	049	0.3+	0.3-
1996 05 21	684	0.6-	1.4+	1998 11 21	704	0.1-	1.4+	2000 02 25	703	0.7-	0.0
1996 05 22	684	1.9-	0.2-	1998 11 21	704	0.3-	1.9+	2000 02 25	703	0.7-	0.7+
1996 05 22	684	0.3+	1.7-	1998 11 21	704	(0.9+ 2.2+)		2000 02 25	703	0.0	0.2+
1996 05 22	684	0.7-	1.0+	1998 11 24	704	0.0	0.1-	2000 02 25	703	0.7-	0.1+
1996 05 22	684	0.1-	0.8+	1998 11 24	704	0.5+	0.5-	2000 03 03	704	0.2-	0.1-
1996 05 23	684	(4.2- 2.8-)		1998 11 24	704	0.0	0.3-	2000 03 03	704	0.1-	0.5-
1996 05 23	684	(3.4- 4.0-)		1998 11 24	704	0.6+	0.9-	2000 03 03	704	0.1-	0.3-
1996 05 23	684	(0.8- 4.7-)		1998 11 24	704	0.9-	1.1-	2000 03 03	704	0.3+	0.9-
1996 06 08	684	0.6+	0.8-	1998 11 25	699	0.0	0.3+	2000 03 03	704	1.7-	0.8-
1996 06 08	684	0.9+	0.7-	1998 11 25	699	0.3-	0.6+	2000 03 04	704	0.1+	0.1+
1996 06 09	684	0.7+	0.5-	1998 11 25	699	0.2+	0.5+	2000 03 04	704	0.1+	0.1+
1996 06 11	684	0.1+	1.0-	1998 12 08	684	0.5+	0.5-	2000 03 04	704	0.1+	0.2-
1996 06 11	684	0.2+	0.7-	1998 12 08	684	0.3+	0.6-	2000 03 04	704	0.2-	0.4+
1996 06 11	684	0.4+	0.6-	1998 12 09	684	0.0	0.7-	2000 03 04	704	0.2-	0.2-
1998 08 31	704	0.2+	0.1-	1998 12 09	684	0.1+	0.8-	2000 03 05	704	0.1+	0.4+
1998 08 31	704	0.3-	0.5-	1998 12 14	704	0.6+	0.8-	2000 03 05	704	0.2+	0.2+
1998 08 31	704	0.6-	1.1-	1998 12 14	704	1.3+	0.6-	2000 03 05	704	0.2+	0.1+
1998 08 31	704	0.0	1.3+	1998 12 14	704	(0.0 2.3-)		2000 03 05	704	0.1+	0.4+
1998 08 31	704	(2.4- 0.5-)		1998 12 14	704	0.6+	0.9-	2000 03 05	704	0.2-	0.4-

1998 09 25	327	0.6-	0.1+	1998 12 14	704	0.7+	0.5-	2000 03 06	704	0.0	0.1-
1998 09 25	327	0.4-	0.4+	2000 02 01	703	1.1-	0.2-	2000 03 06	704	0.3-	0.1+
1998 09 25	327	0.2-	0.8+	2000 02 01	703	0.5+	1.7+	2000 03 06	704	0.2-	0.2-
1998 11 10	704	0.5-	0.6-	2000 02 01	703	0.4+	0.2+	2000 03 06	704	0.2-	0.3-
1998 11 10	704	0.8-	1.7-	2000 02 01	703	0.8-	0.1+	2000 03 06	704	0.7-	0.4-
1998 11 10	704	1.0+	0.6-	2000 02 04	704	0.0	0.3+	2000 03 11	704	0.6+	0.4+
1998 11 10	704	1.5-	0.9-	2000 02 04	704	0.0	0.5-	2000 03 11	704	0.8+	0.4+
1998 11 10	704	(4.9- 0.6-)		2000 02 04	704	1.0+	0.3+	2000 03 11	704	0.1+	0.7-
1998 11 18	704	0.1+	0.7+	2000 02 04	704	0.2+	0.5+	2000 03 11	699	0.7+	0.2+
1998 11 18	704	0.3-	0.2+	2000 02 04	704	0.6+	0.4-	2000 03 11	704	0.3+	0.4-
1998 11 18	704	0.4+	0.3-	2000 02 11	704	0.1+	0.6-	2000 03 11	704	0.6+	0.7-
1998 11 18	704	0.4-	0.5+	2000 02 11	704	0.1+	0.1-	2000 03 11	699	0.0	0.2+
1998 11 18	704	0.6+	0.2+	2000 02 11	704	0.2+	0.4+	2000 03 11	699	0.3+	0.6+
1998 11 20	699	0.1+	0.2+	2000 02 11	704	0.1+	0.7+	2000 03 11	699	0.0	0.2+
1998 11 20	699	0.2-	0.5+	2000 02 11	704	0.1+	0.7+				

(14073)* 1996 KO₁ = 1987 YN₂

Discovered 1996 May 17 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 38455), A. Gnädig (*ibid.*), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	353.57213		(2000.0)	P		Q	
<i>n</i>	0.25563777	ω	20.96865	-0.99555207	+0.09087565		
<i>a</i>	2.4587783	Ω	164.18434	-0.09406840	-0.94421078		
<i>e</i>	0.1511999	<i>i</i>	5.23208	-0.00521563	-0.31655587		
<i>P</i>	3.86	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1982 11 05	413	0.0	1.2+	1996 05 20	327	0.9+	0.0	2000 03 03	691	0.7-	0.5-
1987 12 20	010	0.5+	1.3-	1996 06 06	327	0.4-	1.2+	2000 03 03	691	0.4-	0.4-
1987 12 20	010	0.8-	0.2-	1996 06 06	327	0.2-	0.9+	2000 03 08	704	0.5+	0.0
1990 09 01	675	0.3-	0.3-	1996 06 06	327	0.1+	0.3+	2000 03 08	704	0.0	0.4+
1990 09 01	675	0.0	0.4+	1999 12 09	703	0.3-	0.2+	2000 03 08	704	0.3+	0.1+
1995 12 20	327	0.3+	0.1+	1999 12 09	703	0.4-	0.6+	2000 03 08	704	1.0+	0.1+
1995 12 20	327	0.3+	0.3+	1999 12 09	703	0.3+	0.6+	2000 03 08	704	(2.5+ 2.5+)	
1995 12 20	327	0.0	0.2+	1999 12 09	703	0.4+	1.0+	2000 03 10	704	0.4+	0.5+
1995 12 20	327	1.8+	0.5+	2000 01 11	699	0.1-	0.3+	2000 03 10	704	0.1+	0.6+
1996 03 26	691	0.7-	0.0	2000 01 11	699	0.6-	0.4+	2000 03 10	704	0.3+	0.6+
1996 03 26	691	0.8-	0.5-	2000 01 11	699	0.3+	0.8+	2000 03 10	704	0.0	0.1+
1996 03 26	691	0.6-	0.3-	2000 02 08	704	0.4+	1.5-	2000 03 10	704	0.4-	0.2-
1996 04 20	566	0.1+	0.3-	2000 02 08	704	0.2+	0.2+	2000 03 11	704	0.2-	0.2+
1996 04 20	566	0.2+	0.6-	2000 02 08	704	0.1+	1.0+	2000 03 11	704	0.3-	0.1+
1996 04 20	566	0.1+	0.3-	2000 02 08	704	0.3+	0.2-	2000 03 11	704	0.1-	0.1-
1996 04 21	566	0.3-	0.4-	2000 02 08	704	0.9+	0.9+	2000 03 11	704	0.3-	0.1+
1996 04 21	566	0.3-	0.1+	2000 02 26	691	0.2-	0.1-	2000 03 11	704	0.1+	0.0
1996 04 21	566	0.1-	0.2-	2000 02 26	691	0.2-	0.2-	2000 03 11	704	0.5-	0.1+
1996 05 17	327	0.1-	0.4-	2000 02 26	691	0.2-	0.3-	2000 03 11	704	0.0	0.5-
1996 05 17	327	0.3+	0.3-	2000 02 27	691	0.7-	0.4-	2000 03 11	704	0.4-	0.2-
1996 05 17	327	0.2-	0.6-	2000 02 27	691	0.6-	0.5-	2000 03 11	704	0.2-	0.4-
1996 05 17	327	0.5-	0.0	2000 02 27	691	0.6-	0.4-	2000 03 11	704	0.4-	0.2-
1996 05 19	327	0.1+	0.1-	2000 03 01	703	0.6+	0.1+	2000 03 11	704	0.3+	0.4+
1996 05 19	327	0.1+	0.1+	2000 03 01	703	0.4+	0.1+	2000 03 11	704	0.4+	0.4+
1996 05 19	327	0.7+	0.2+	2000 03 01	703	0.6+	0.2+	2000 03 11	704	0.2+	0.1+
1996 05 20	327	0.3-	0.4-	2000 03 01	703	0.8+	0.4+	2000 03 11	704	0.2+	0.0
1996 05 20	327	0.2+	0.1+	2000 03 03	691	0.5-	0.4-	2000 03 11	704	0.1+	0.1+

Residuals in seconds of arc

1996 07 10	610	0.9+	0.0	1996 09 13	552	0.4+	1.4-	1999 02 06	552	0.1+	0.4+
1996 07 10	610	0.7+	0.3+	1996 09 13	552	0.2+	1.7-	1999 02 06	552	0.4-	0.6-
1996 07 10	610	0.5+	0.7+	1996 09 13	552	0.5-	1.0-	2000 02 06	704	0.4+	0.6-
1996 07 11	552	0.3+	0.1+	1996 09 14	589	0.6-	0.2+	2000 02 06	704	0.6+	0.5+
1996 07 11	552	0.3-	0.4-	1996 09 14	589	0.2-	0.4+	2000 02 06	704	1.2+	0.1-
1996 07 11	552	0.3-	0.3+	1996 09 14	589	0.2+	0.5+	2000 02 06	704	0.4+	0.3-
1996 07 13	552	0.4-	0.8-	1997 10 27	688	0.0	0.4+	2000 02 06	704	0.2+	1.2+
1996 07 13	552	0.5-	0.4-	1997 10 27	688	0.1-	0.1+	2000 02 11	704	0.3+	0.5-
1996 07 13	552	0.2-	0.0	1997 10 28	688	0.2+	0.5+	2000 02 11	704	0.5-	0.1-
1996 07 18	552	0.8-	0.8+	1997 10 28	688	0.5+	0.2+	2000 02 11	704	0.3+	0.3+
1996 07 18	552	0.2+	1.1+	1997 11 20	552	0.7-	0.3+	2000 02 11	704	0.1+	0.1-
1996 07 18	552	1.0-	1.0+	1997 11 20	552	0.8-	0.0	2000 02 29	704	0.7-	0.5-
1996 07 21	552	0.1+	0.9+	1997 11 20	552	0.0	0.3-	2000 02 29	704	0.2-	0.3-
1996 07 21	552	0.2+	0.8+	1997 12 06	552	0.5-	0.7+	2000 02 29	704	0.8+	0.3-
1996 07 21	552	0.4+	0.1+	1997 12 06	552	0.3+	0.6+	2000 02 29	704	0.3-	1.7+
1996 08 09	552	0.0	0.1+	1999 01 15	552	0.7-	0.7+	2000 03 12	703	0.1-	0.1+
1996 08 09	552	0.0	0.7+	1999 01 15	552	0.0	1.3+	2000 03 12	703	0.2-	0.2-
1996 08 09	552	0.3+	0.1+	1999 01 15	552	0.3-	0.6+	2000 03 12	703	0.1-	0.4+
1996 08 12	552	0.2+	0.8+	1999 01 21	552	0.8-	0.6+	2000 03 12	703	0.3-	0.2-
1996 08 12	552	0.4+	0.4+	1999 01 21	552	1.1+	0.3+	2000 03 12	704	0.3-	0.7+
1996 08 17	552	0.0	0.8+	1999 01 24	552	0.0	0.1-	2000 03 12	704	0.1-	0.5+
1996 08 17	552	0.3-	0.4+	1999 01 24	552	0.2+	0.4+	2000 03 12	704	0.3+	0.8+
1996 08 17	552	0.5-	0.5+	1999 01 24	552	1.1+	0.1+	2000 03 12	704	0.2-	0.7+

(14075)* 1996 OJ = 1991 RG₄₁

Discovered 1996 July 18 by G. R. Viscome at Rand Observatory.

Id. K. Ichikawa (*MPC* 27722), B. G. Marsden (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

M	252.98611		(2000.0)	P	Q
n	0.17984630	ω	159.46666	+0.27768718	+0.96019872
a	3.1083867	Ω	126.64371	-0.88655651	+0.26822043
e	0.1744849	i	2.15256	-0.37000998	+0.07795009
P	5.48	H	13.5	G 0.15	U 1

Residuals in seconds of arc

1991 09 10	033	0.6-	0.2-	1996 10 18	816	0.6-	1.2+	2000 02 26	703	0.5-	0.2+
1991 09 10	033	0.3+	0.8-	1996 10 18	816	0.3+	1.5+	2000 02 26	703	(3.0-	0.6+)
1991 09 13	033	0.8-	0.3-	1997 10 07	816	0.1+	0.4-	2000 02 29	704	0.3-	0.6+
1991 10 03	691	0.6+	0.5+	1997 10 07	816	0.1-	0.4-	2000 02 29	704	0.2+	0.2+
1991 10 03	691	0.6+	0.6+	1997 10 07	816	0.2-	0.2+	2000 02 29	704	0.1-	0.6+
1996 07 18	816	0.4+	0.6+	1997 10 07	816	0.2-	0.2-	2000 02 29	704	0.3+	0.7+
1996 07 18	816	0.9+	0.5+	1997 10 08	816	0.2+	0.5+	2000 02 29	704	0.0	1.2+
1996 07 18	816	0.5+	0.5+	1997 10 08	816	0.4+	0.2+	2000 03 03	704	0.2+	0.3+
1996 07 20	684	0.3-	0.3+	1997 10 08	816	0.1+	0.3+	2000 03 03	704	0.3+	0.2+
1996 07 20	684	0.3-	0.1+	1997 10 25	691	0.2-	0.6-	2000 03 03	704	0.3+	0.2+
1996 07 20	684	0.3-	0.2+	1997 10 25	691	0.3+	0.0	2000 03 03	704	0.4+	0.1+
1996 07 21	816	0.2-	0.2+	1997 10 29	704	0.1-	0.9+	2000 03 03	704	0.7+	0.1-
1996 07 21	816	0.3-	0.1+	1997 10 29	704	0.7+	0.4+	2000 03 05	704	0.1+	0.2+
1996 07 21	816	0.1-	0.3+	1997 10 29	704	1.2+	0.3+	2000 03 05	704	0.3+	0.2+
1996 07 21	816	0.3-	0.7+	1997 10 29	704	0.5-	0.1+	2000 03 05	704	0.6+	0.0
1996 07 22	540	0.6-	0.4+	1997 11 06	704	0.8-	1.8+	2000 03 05	704	0.1+	0.5+
1996 07 22	540	0.3-	0.6+	1997 11 06	704	1.2-	1.4+	2000 03 05	704	0.0	0.5+
1996 07 22	540	0.3+	0.3+	1997 11 06	704	(2.1-	1.2+)	2000 03 06	704	0.2-	0.1-
1996 08 11	816	0.1+	0.3+	1997 11 06	704	1.2-	0.9+	2000 03 06	704	0.5+	0.6+
1996 08 11	816	0.1-	0.3+	2000 02 06	704	0.1+	0.1-	2000 03 06	704	0.0	0.7+
1996 08 11	816	0.2-	0.4+	2000 02 06	704	0.7-	0.2-	2000 03 11	704	0.4+	0.6+
1996 08 11	816	0.2-	0.4+	2000 02 06	704	0.4-	0.4+	2000 03 11	704	0.5-	0.5+
1996 08 11	684	0.0	0.1+	2000 02 06	704	1.0+	0.9+	2000 03 11	704	0.2-	0.5+
1996 08 11	684	0.2-	0.1-	2000 02 11	704	0.6+	0.5+	2000 03 11	704	0.2-	0.1+
1996 08 12	684	0.2-	0.1+	2000 02 11	704	0.8+	0.0	2000 03 11	704	0.1-	0.2-
1996 08 12	684	0.2-	0.1+	2000 02 11	704	0.6+	0.2+	2000 03 11	699	0.1-	0.1-
1996 08 12	684	0.1-	0.1+	2000 02 11	704	0.2-	0.6+	2000 03 11	699	0.3+	1.0-
1996 08 15	816	0.0	0.3+	2000 02 11	704	1.4+	0.4-	2000 03 11	699	0.3-	0.6+
1996 08 15	816	0.1-	0.6+	2000 02 26	703	0.1-	1.3+	2000 03 11	699	0.2-	0.1+
1996 08 15	816	0.3-	0.5+	2000 02 26	703	0.6-	0.8+				

(14076)* 1996 OO₁ = 1999 CL₈₂

Discovered 1996 July 20 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 33948)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	324.22873		(2000.0)		P		Q		
n	0.18566294	ω	268.59638		-0.56297617		+0.82284307		
a	3.0431211	Ω	326.76048		-0.69100455		-0.51999123		
e	0.0938932	i	8.11508		-0.45339889		-0.22921259		
P	5.31	H	12.6		G	0.15	U	2	
Residuals in seconds of arc									
1996 07 20	327 0.0	0.0	1996 08 20	595	1.0+	0.3-	1999 02 13	704 0.2-	0.5+
1996 07 20	327 0.0	0.0	1996 08 20	595	0.9+	0.8-	1999 02 13	704 0.6+	0.4-
1996 07 20	327 0.3+	0.3+	1996 08 21	595	0.4-	0.8-	1999 02 13	704 0.6-	0.0
1996 07 20	327 0.2+	0.2+	1996 08 21	595	0.4+	0.7-	1999 02 13	704 (0.6-	2.1-)
1996 07 20	327 0.2-	0.3-	1997 10 30	566	0.0	0.2+	1999 02 13	704 0.2+	1.5-
1996 07 20	327 0.8-	0.8-	1997 10 30	566	0.1-	0.2+	2000 01 05	699 1.3+	1.5+
1996 07 20	327 0.1-	0.1+	1997 10 30	566	0.4-	0.3+	2000 01 05	699 0.7-	0.1+
1996 07 20	327 0.1-	0.0	1998 12 14	699	0.5+	0.3+	2000 01 05	699 0.9-	0.7+
1996 07 20	327 0.7-	0.3-	1998 12 14	699	0.3+	0.4+	2000 03 10	704 0.1+	0.1+
1996 07 21	327 0.5-	0.2-	1998 12 14	699	1.2-	0.7-	2000 03 10	704 0.5-	0.4-
1996 07 21	327 0.0	0.4-	1999 01 10	699	0.2+	0.5-	2000 03 10	704 0.3-	0.8-
1996 07 21	327 0.1+	0.3-	1999 01 10	699	0.8+	0.5-	2000 03 10	704 0.8+	1.4-
1996 07 21	327 0.2-	0.0	1999 01 10	699	0.7+	0.7-	2000 03 10	704 0.4-	0.1-
1996 08 06	327 0.0	0.6+	1999 02 10	704	0.8-	0.4-	2000 03 14	704 0.2+	0.0
1996 08 06	327 0.5-	0.9+	1999 02 10	704	0.6-	0.6+	2000 03 14	704 0.5+	0.4-
1996 08 06	327 0.6+	0.4+	1999 02 10	704	0.9-	0.4+	2000 03 14	704 0.4+	0.7+
1996 08 13	327 0.4-	0.2+	1999 02 10	704	0.8+	0.5-	2000 03 14	704 0.2-	0.4-
1996 08 13	327 0.4+	0.1-	1999 02 12	699	0.4-	0.3+	2000 03 14	704 1.0-	0.2+
1996 08 13	327 0.3+	0.1+	1999 02 12	699	0.2-	0.5+			
1996 08 20	595 0.8+	0.1-	1999 02 12	699	0.1+	0.4-			

Residuals in seconds of arc

1996 07 20	327	0.0	0.0	1996 08 20	595	1.0+	0.3-	1999 02 13	704	0.2-	0.5+
1996 07 20	327	0.0	0.0	1996 08 20	595	0.9+	0.8-	1999 02 13	704	0.6+	0.4-
1996 07 20	327	0.3+	0.3+	1996 08 21	595	0.4-	0.8-	1999 02 13	704	0.6-	0.0
1996 07 20	327	0.2+	0.2+	1996 08 21	595	0.4+	0.7-	1999 02 13	704	(0.6-	2.1-)
1996 07 20	327	0.2-	0.3-	1997 10 30	566	0.0	0.2+	1999 02 13	704	0.2+	1.5-
1996 07 20	327	0.8-	0.8-	1997 10 30	566	0.1-	0.2+	2000 01 05	699	1.3+	1.5+
1996 07 20	327	0.1-	0.1+	1997 10 30	566	0.4-	0.3+	2000 01 05	699	0.7-	0.1+
1996 07 20	327	0.1-	0.0	1998 12 14	699	0.5+	0.3+	2000 01 05	699	0.9-	0.7+
1996 07 20	327	0.7-	0.3-	1998 12 14	699	0.3+	0.4+	2000 03 10	704	0.1+	0.1+
1996 07 21	327	0.5-	0.2-	1998 12 14	699	1.2-	0.7-	2000 03 10	704	0.5-	0.4-
1996 07 21	327	0.0	0.4-	1999 01 10	699	0.2+	0.5-	2000 03 10	704	0.3-	0.8-
1996 07 21	327	0.1+	0.3-	1999 01 10	699	0.8+	0.5-	2000 03 10	704	0.8+	1.4-
1996 07 21	327	0.2-	0.0	1999 01 10	699	0.7+	0.7-	2000 03 10	704	0.4-	0.1-
1996 08 06	327	0.0	0.6+	1999 02 10	704	0.8-	0.4-	2000 03 14	704	0.2+	0.0
1996 08 06	327	0.5-	0.9+	1999 02 10	704	0.6-	0.6+	2000 03 14	704	0.5+	0.4-
1996 08 06	327	0.6+	0.4+	1999 02 10	704	0.9-	0.4+	2000 03 14	704	0.4+	0.7+
1996 08 13	327	0.4-	0.2+	1999 02 10	704	0.8+	0.5-	2000 03 14	704	0.2-	0.4-
1996 08 13	327	0.4+	0.1-	1999 02 12	699	0.4-	0.3+	2000 03 14	704	1.0-	0.2+
1996 08 13	327	0.3+	0.1+	1999 02 12	699	0.2-	0.5+				
1996 08 20	595	0.8+	0.1-	1999 02 12	699	0.1+	0.4-				

(14077)* 1996 PF₁ = 1989 EG₁₀

Discovered 1996 Aug. 9 by A. Vagnozzi at Stroncone.

Id. G. V. Williams (*MPC* 30764)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	282.21507		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.18002399	ω	255.72951	-0.24848596	+0.96863548
a	3.1063410	Ω	359.88212	-0.85255903	-0.21879468
e	0.1300467	i	4.89587	-0.45978019	-0.11778876
P	5.47	H	13.4	G 0.15	U 1

Residuals in seconds of arc

1989 03 05	033	0.6+	0.3+	1997 09 26	589	0.3+	0.3-	2000 02 11	704	0.6+	0.4+
1989 03 05	033	0.8-	0.1-	1997 09 26	589	0.1-	0.1+	2000 02 11	704	1.2+	0.1+
1996 08 09	589	0.5-	0.8+	1997 09 26	589	0.1+	0.6-	2000 02 12	711	0.2+	0.2-
1996 08 09	589	0.4-	1.4+	1997 10 04	589	0.2-	0.3+	2000 02 12	711	0.0	0.1+
1996 08 09	589	1.5+	0.3+	1997 10 04	589	0.4-	0.4+	2000 02 12	711	0.2-	0.6+
1996 08 09	589	0.7-	0.1-	1997 10 26	589	0.7-	0.0	2000 02 26	703	0.5-	0.3-
1996 08 12	596	0.2-	1.6+	1997 10 26	589	0.3-	0.1-	2000 02 26	703	0.0	0.4-
1996 08 12	596	0.5-	1.3+	1997 10 26	589	0.2-	0.0	2000 02 26	703	0.6+	0.9+
1996 08 12	596	0.1+	1.0+	1997 11 03	589	0.6-	0.0	2000 02 26	703	1.4+	1.1+
1996 08 19	589	0.1+	0.3+	1997 11 03	589	0.1-	0.4+	2000 02 29	704	0.9+	0.6+
1996 08 19	589	0.1+	0.1-	1997 11 03	589	0.3-	0.3+	2000 02 29	704	0.3+	1.7-
1996 08 19	589	0.3+	0.1-	1997 11 03	589	1.1-	0.2+	2000 02 29	704	0.1-	0.3+
1996 08 19	589	0.6+	0.6+	1997 11 03	589	0.1-	0.8+	2000 02 29	704	0.2+	0.3+
1996 08 20	589	0.4-	0.4+	1998 12 08	589	0.5-	1.0+	2000 03 03	704	0.0	0.1+
1996 08 20	589	0.4-	0.1-	1998 12 08	589	0.1+	0.4-	2000 03 03	704	0.1-	0.2+
1996 09 04	589	1.7+	0.7+	1998 12 08	589	0.3+	0.2+	2000 03 03	704	0.1-	0.2+
1996 09 04	589	0.6+	0.4+	1998 12 08	589	0.5+	0.1-	2000 03 03	704	0.2+	0.3+
1996 09 04	589	0.5-	0.2+	1999 01 16	704	0.8+	0.1+	2000 03 03	704	0.5-	0.4+
1996 09 04	589	0.0	0.3+	1999 01 16	704	0.9+	1.3+	2000 03 11	704	0.1-	0.4+
1996 09 06	589	0.6+	0.7+	1999 01 16	704	1.6+	0.8+	2000 03 11	704	0.0	0.5+
1996 09 14	589	0.5-	0.5+	1999 01 16	704	(0.2+	3.7+)	2000 03 11	704	0.1+	0.2+

2000 MAR. 20

M.P.C. 39073

1996 09 14	589	0.8−	0.1+	2000 02 06	704	0.4+	0.9+	2000 03 11	704	0.1−	0.4+
1996 09 30	589	1.6−	0.4+	2000 02 06	704	0.3+	1.1+	2000 03 11	704	0.2+	1.1+
1996 09 30	589	1.7−	0.7+	2000 02 06	704	0.3−	0.4+	2000 03 11	699	0.7−	0.5+
1996 09 30	589	0.9−	0.1−	2000 02 06	704	0.1−	0.4+	2000 03 11	699	0.5−	0.5+
1996 10 09	589	0.4+	1.1+	2000 02 11	704	1.1+	0.4+	2000 03 11	699	0.8−	0.7+
1996 10 09	589	1.5−	0.4+	2000 02 11	704	0.8+	0.9+	2000 03 11	699	0.9−	0.7+
1996 10 09	589	0.1+	0.8+	2000 02 11	704	1.4+	0.8+				

(14078)* 1997 FQ₃ = 1997 GS₂₀ = 1991 PS₁₅

Discovered 1997 Mar. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. B. G. Marsden (d, *MPC* 30798), A. Gnädig (*MPC* 32476)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

M	182.10370		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.29154591	ω	332.03355	+0.89815203	+0.43968279
a	2.2524997	Ω	1.88450	−0.39499262	+0.80826106
e	0.1609425	i	2.45470	−0.19314182	+0.39165433
P	3.38	H	15.0	G 0.15	U 2

Residuals in seconds of arc

1991 08 06	675	0.0	0.7+	1998 10 14	704	0.9+	0.5+	2000 02 01	703	1.3+	1.1+
1991 08 06	675	0.4−	0.6+	1998 10 14	704	0.4−	0.1−	2000 02 01	703	0.5−	0.8−
1991 08 10	675	0.9−	0.7−	1998 10 14	704	0.7+	0.0	2000 02 01	703	1.0−	1.4−
1991 08 10	675	0.4+	1.5+	1998 10 14	704	0.1−	0.6−	2000 02 04	704	0.9+	0.3+
1997 03 11	809	1.2−	0.3+	1998 10 15	704	0.2+	0.4−	2000 02 04	704	0.1+	1.0+
1997 03 11	809	1.0−	0.8+	1998 10 15	704	0.5+	0.4+	2000 02 04	704	1.9+	1.0−
1997 03 11	809	0.6−	0.7+	1998 10 15	704	0.1+	1.0+	2000 02 04	704	1.1+	0.3−
1997 03 13	809	(3.4+ 5.0+)		1998 10 15	704	0.1−	0.8+	2000 02 11	704	1.4+	0.2+
1997 03 13	809	(2.6+ 3.6+)		1998 10 17	699	0.2−	0.6+	2000 02 11	704	0.5−	0.8+
1997 03 13	809	(2.4+ 4.3+)		1998 10 17	699	0.3−	0.3+	2000 02 11	704	0.0	0.1−
1997 03 31	704	0.8+	1.1+	1998 10 17	699	0.5−	0.2+	2000 02 11	704	0.4−	0.2+
1997 03 31	704	0.7+	0.6−	1998 10 20	653	0.1−	0.1−	2000 02 25	703	0.8−	0.7+
1997 04 03	704	0.9+	0.5+	1998 10 20	653	0.2+	0.3+	2000 02 25	703	1.3−	0.3+
1997 04 03	704	1.4+	1.2+	1998 10 21	653	0.3−	0.2+	2000 02 25	703	0.0	0.4−
1997 04 05	704	0.3+	0.7−	1998 10 21	653	0.8−	0.7+	2000 02 25	703	0.0	0.6−
1997 04 05	704	0.1+	0.1−	1998 10 28	704	0.2−	1.0−	2000 02 29	704	0.3−	0.1+
1997 04 06	704	0.1+	1.4+	1998 10 28	704	0.0	0.1−	2000 02 29	704	0.1+	0.0
1997 04 06	704	0.2−	1.1+	1998 10 28	704	0.2−	0.2−	2000 02 29	704	0.2−	0.4+
1997 04 07	704	0.9+	0.1+	1998 10 28	704	0.6+	0.5+	2000 02 29	704	0.2+	0.0
1997 04 07	704	0.3+	0.0	1998 10 28	704	0.0	0.2+	2000 02 29	704	0.2+	0.6+
1998 09 16	411	0.3−	0.2+	1998 10 29	704	0.3+	0.5−	2000 03 03	704	0.1+	0.4+
1998 09 16	411	0.2−	0.0	1998 10 29	704	1.3+	1.3+	2000 03 03	704	0.0	0.0
1998 09 18	809	(1.2+ 4.1+)		1998 10 29	704	1.2+	1.4+	2000 03 03	704	0.5+	0.3+
1998 09 18	809	(0.2+ 3.1+)		1998 10 29	704	1.0−	1.8+	2000 03 03	704	0.1+	0.2−
1998 09 18	809	(0.4− 3.3+)		1998 10 29	704	0.2+	0.1+	2000 03 03	704	0.4+	0.1+
1998 09 20	809	0.3+	1.9+	1998 11 10	704	0.5+	0.0	2000 03 05	704	0.4−	0.0
1998 09 20	809	0.2−	1.8+	1998 11 10	704	0.6+	0.2−	2000 03 05	704	0.4−	0.1−
1998 09 20	809	0.3−	1.9+	1998 11 10	704	0.5−	0.6−	2000 03 05	704	0.0	0.3+
1998 09 26	704	0.1−	0.1−	1998 11 10	699	0.2+	0.2−	2000 03 05	704	0.1−	0.4+
1998 09 26	704	0.5−	0.9−	1998 11 10	704	1.0+	0.5−	2000 03 05	704	0.4+	0.7+
1998 09 26	704	0.2+	0.8−	1998 11 10	699	1.3−	0.6−	2000 03 06	704	0.1+	0.4+
1998 09 26	704	0.3−	0.5−	1998 11 10	699	0.3+	0.0	2000 03 06	704	0.5−	0.2−
1998 09 26	704	1.6−	0.3−	1998 11 11	704	0.3−	0.2+	2000 03 06	704	0.1−	0.1+
1998 09 27	704	0.2−	0.6−	1998 11 11	704	0.3+	1.1−	2000 03 11	704	0.1−	0.1+
1998 09 27	704	0.4−	0.6−	1998 11 11	704	1.7+	0.3−	2000 03 11	704	0.1+	0.4−
1998 09 27	704	0.5−	0.2+	1998 11 11	704	0.3+	0.5+	2000 03 11	704	0.4+	0.2−
1998 09 27	704	1.4−	0.1−	1998 11 11	704	0.4+	0.3−	2000 03 11	704	0.2+	0.7+
1998 09 27	704	1.1−	0.0	1998 12 09	699	0.4−	0.9−	2000 03 11	699	0.4+	0.5+
1998 10 10	699	0.2+	0.2+	1998 12 09	699	0.9+	0.2−	2000 03 11	699	0.4+	1.2+
1998 10 10	699	0.3−	0.8+	1998 12 09	699	0.7−	0.6−	2000 03 11	699	0.1+	0.2−
1998 10 10	699	0.8−	0.0	2000 02 01	703	1.2−	0.5−	2000 03 11	699	0.7−	0.1−

(14079)* 1997 FV₃ = 2000 AV₆₆

Discovered 1997 Mar. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. M. E. Sansaturio (*MPC* 38457)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	114.79833		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.28068370	ω	16.31171	+0.95719482	-0.28944215		
a	2.3102444	Ω	0.51709	+0.24926544	+0.82229429		
e	0.1301417	i	7.32916	+0.14712180	+0.48995443		
P	3.51	H	14.4	G	0.15	U	1

Residuals in seconds of arc

1991 08 06	675	0.1−	0.8+	1998 08 21	566	0.2−	1.0+	2000 02 03	704	0.6+	0.7+
1991 08 06	675	0.2+	0.3−	1998 08 21	566	0.1−	0.9+	2000 02 03	704	0.5+	0.8+
1997 03 11	809	0.7+	0.7−	1998 08 21	566	0.2+	0.8+	2000 02 03	704	0.9+	0.6+
1997 03 11	809	1.1−	1.0−	1998 09 24	699	0.3−	1.8+	2000 02 03	704	0.7+	0.5+
1997 03 11	809	1.4−	0.9−	1998 09 24	699	0.4−	0.8+	2000 02 05	704	0.4+	0.4+
1997 03 13	809	(2.2− 1.2−)		1998 09 24	699	0.5−	1.3+	2000 02 05	704	0.4+	0.0
1997 03 13	809	(2.6− 0.3−)		1998 10 17	699	1.5−	0.3−	2000 02 05	704	0.5+	0.3+
1997 03 13	809	(2.5− 0.1−)		1998 10 17	699	0.2+	0.0	2000 02 05	704	0.4+	0.7+
1997 03 31	704	1.3+	1.0+	1998 10 17	699	1.1+	0.8+	2000 02 05	704	0.8+	0.0
1997 03 31	704	1.4+	0.1+	1998 11 19	910	1.2−	0.5−	2000 02 11	704	0.1+	0.8+
1997 04 03	704	0.5−	1.2+	1998 11 19	910	1.6−	0.6−	2000 02 11	704	0.1−	0.3+
1997 04 03	704	0.1+	0.5+	1998 11 19	910	1.3−	0.8−	2000 02 11	704	0.2+	0.8+
1997 04 05	704	(1.1+ 2.4+)		2000 01 04	704	0.7−	0.8−	2000 02 11	704	0.6+	0.6−
1997 04 05	704	0.3+	0.0	2000 01 04	704	0.4+	1.0−	2000 02 28	704	0.1+	0.5+
1997 04 05	704	0.3−	0.3+	2000 01 04	704	0.7−	0.4+	2000 02 28	704	0.2+	0.1+
1997 04 05	704	0.4−	1.0+	2000 01 04	704	0.1−	0.3−	2000 02 28	704	0.2+	0.2+
1997 04 06	704	0.0	0.6−	2000 01 06	704	0.3−	1.2−	2000 02 28	704	0.0	0.1+
1997 04 06	704	0.1−	0.2+	2000 01 06	704	0.7+	0.3−	2000 02 28	704	0.2+	0.3−
1997 04 07	704	0.2−	0.1−	2000 01 06	704	0.2+	0.1−	2000 03 04	704	0.2−	0.4+
1997 04 07	704	0.5−	0.9+	2000 01 06	704	0.6−	0.4−	2000 03 04	704	0.0	0.5+
1998 08 17	704	0.2+	0.5+	2000 01 06	699	1.1−	1.5+	2000 03 04	704	0.0	0.4+
1998 08 17	704	0.3+	0.9+	2000 01 06	704	1.1−	0.2−	2000 03 04	704	0.3+	0.6+
1998 08 17	704	0.3−	0.1+	2000 01 06	699	0.1+	0.3+	2000 03 04	704	0.0	0.0
1998 08 17	704	1.4+	0.7+	2000 01 06	699	0.4+	1.1+				
1998 08 17	704	1.4−	0.4−	2000 02 03	704	0.1+	0.7+				

(14080)* 1997 GB

Discovered 1997 Apr. 1 at Starkenburg Sternwarte, Heppenheim.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	315.19591		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.27094388	ω	127.77742	-0.91737179	-0.39418980
a	2.3652832	Ω	29.12686	$+0.32018354$	-0.81316497
e	0.0831099	i	6.50782	$+0.23645614$	-0.42822557
P	3.64	H	15.1	G	U
				0.15	1

Residuals in seconds of arc

1976 05 30	413	0.4+	0.7−	1997 04 16	611	0.6−	0.2+	1999 12 12	704	0.3+	0.1+
1976 05 30	413	0.1−	0.2+	1997 05 01	611	0.4+	0.5−	1999 12 12	704	0.3+	0.2−
1991 10 05	413	1.6−	0.3−	1997 05 01	611	0.5−	1.0−	1999 12 12	704	0.7+	0.3+
1991 10 05	413	1.5+	0.2−	1997 05 01	611	1.1−	1.2−	1999 12 12	704	0.4+	0.3+
1997 04 01	611	0.4+	0.1−	1997 05 02	611	0.1−	0.9−	1999 12 15	704	0.4−	0.2−
1997 04 01	611	0.7+	0.2+	1997 05 02	611	0.1−	0.7−	1999 12 15	704	0.1−	0.5−
1997 04 01	611	0.4−	0.1−	1997 05 08	675	(1.9− 2.3−)		1999 12 15	704	0.1−	0.3−
1997 04 02	611	0.7+	0.4+	1997 05 08	675	0.1−	0.3−	1999 12 15	704	1.3+	0.7−
1997 04 02	611	0.3−	0.1−	1997 05 31	611	1.4+	1.0−	1999 12 15	704	0.7−	1.1−
1997 04 02	611	0.1−	0.0	1997 05 31	611	0.2+	1.8−	2000 01 02	704	0.2+	0.1+
1997 04 02	611	0.3+	0.0	1998 07 30	611	1.6−	0.7−	2000 01 02	704	0.5−	0.2−
1997 04 06	611	0.4−	0.5+	1998 07 31	611	0.2−	0.1−	2000 01 02	704	0.4+	0.0
1997 04 06	611	1.5+	0.2+	1998 09 11	426	0.2+	0.8−	2000 01 02	704	0.5−	0.7−
1997 04 07	611	0.4−	0.1+	1998 09 11	426	0.6+	1.9−	2000 01 02	704	0.1−	0.7+
1997 04 07	611	0.3−	0.0	1998 09 11	426	0.1−	1.9−	2000 01 02	704	0.1−	1.4−
1997 04 08	611	0.1+	0.1+	1998 09 12	426	0.3+	0.6−	2000 01 04	704	0.2−	0.6−
1997 04 08	611	1.0−	0.4−	1998 09 12	426	0.1+	0.5−	2000 01 04	704	0.2−	1.0−
1997 04 13	611	0.4−	0.2−	1998 09 12	426	0.4+	1.6−	2000 01 04	704	0.0	0.4−
1997 04 15	611	0.9−	0.1+	1998 09 16	429	1.3+	0.5+	2000 01 04	704	0.0	0.8−
1997 04 16	611	0.6−	1.0−	1998 09 16	429	1.8+	0.3+				
1997 04 16	611	1.3−	0.1+	1999 12 12	704	0.3+	0.1+				

(14081)* 1997 GT₁₈ = 1975 TM₁ = 1977 EW₈ = 1998 QK₂

Discovered 1997 Apr. 3 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 32477)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		135.70046		(2000.0)		P		Q	
<i>n</i>	0.29862913	ω	199.58565	+0.95732773	-0.28900028				
<i>a</i>	2.2167392	Ω	177.21105	+0.26925664	+0.88993447				
<i>e</i>	0.1410095	<i>i</i>	1.84129	+0.10499749	+0.35283917				
<i>P</i>	3.30	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1975 10 03	095	0.5-	1.4-	1998 08 23	704	0.0	0.2+	1998 09 27	704	0.2+	0.7+
1977 03 14	381	(3.7+	3.4-)	1998 08 23	704	0.3-	0.2-	1998 09 27	704	0.6-	0.4+
1977 03 14	381	1.9+	1.1-	1998 08 23	704	0.9-	0.1+	1998 09 27	704	0.3-	0.4+
1995 11 05	327	0.6+	0.1-	1998 08 23	704	1.6-	1.5-	1998 09 27	704	0.2-	0.3+
1995 11 05	327	0.1-	0.0	1998 08 24	132	0.7-	0.3+	1998 10 28	691	0.1-	0.0
1995 11 05	327	0.1-	0.0	1998 08 24	132	1.7+	1.5+	1998 10 28	691	0.1-	0.4+
1997 03 12	809	(0.4-	2.9+)	1998 08 24	132	0.5+	0.4-	1998 10 28	691	0.0	0.2-
1997 03 12	809	(1.3-	2.9+)	1998 08 25	132	0.0	0.8-	2000 02 02	704	0.1+	0.2+
1997 03 12	809	(1.4-	2.7+)	1998 08 25	132	(2.4-	0.9-)	2000 02 02	704	0.2+	0.4+
1997 03 13	809	(0.4+	3.6+)	1998 08 25	132	0.7-	1.0-	2000 02 02	704	0.8+	0.9+
1997 03 13	809	(1.4+	3.2+)	1998 08 25	132	0.9-	0.7-	2000 02 02	704	0.2-	0.1+
1997 03 13	809	(0.4+	4.1+)	1998 08 25	132	0.4-	0.3-	2000 02 06	704	0.3+	0.2-
1997 04 03	704	0.5+	0.1+	1998 08 26	132	0.8+	1.1-	2000 02 06	704	0.0	0.7+
1997 04 03	704	0.6+	0.4+	1998 08 26	132	0.4+	0.0	2000 02 06	704	0.6+	0.6+
1997 04 05	704	0.1+	0.2+	1998 08 26	132	0.8-	0.0	2000 02 25	691	0.4-	0.1-
1997 04 05	704	0.4+	0.0	1998 08 29	132	1.3+	0.2+	2000 02 25	691	0.3-	0.0
1997 04 06	327	0.6-	0.2+	1998 08 30	132	0.1+	0.1+	2000 02 25	691	0.5-	0.1+
1997 04 06	327	(2.9-	0.7+)	1998 08 30	132	(3.0+	0.2+)	2000 02 29	704	0.2+	0.1+
1997 04 06	327	1.2-	0.1-	1998 09 14	704	0.0	0.8+	2000 02 29	704	0.4-	0.1-
1997 04 10	327	0.3-	0.1+	1998 09 14	704	0.2-	0.3+	2000 02 29	704	0.4+	0.1+
1997 04 10	327	0.4-	0.3+	1998 09 14	704	1.3+	0.2+	2000 02 29	704	0.3-	0.8+
1997 04 10	327	0.7-	0.0	1998 09 14	704	0.8-	1.0+	2000 03 03	704	0.2+	0.2+
1997 04 10	327	0.3-	0.2+	1998 09 14	704	0.7+	1.9+	2000 03 03	704	0.1+	0.0
1997 04 11	704	0.8+	0.4+	1998 09 16	132	(3.0-	0.3-)	2000 03 03	704	0.3+	0.3+
1997 04 11	704	0.3+	0.8-	1998 09 16	132	0.5+	1.6+	2000 03 03	704	0.3+	0.1+
1998 08 17	704	0.4+	0.3+	1998 09 18	704	0.0	0.5+	2000 03 03	704	0.4+	0.4+
1998 08 17	704	0.1-	0.2+	1998 09 18	704	0.1+	0.3-	2000 03 11	704	0.3+	0.6+
1998 08 17	704	0.4-	0.5+	1998 09 18	704	0.2-	0.2-	2000 03 11	704	0.4+	0.5+
1998 08 17	704	0.8+	0.8+	1998 09 18	704	0.8-	0.8+	2000 03 11	704	0.5+	0.5+
1998 08 17	704	0.3+	0.2-	1998 09 18	704	0.5-	0.4+	2000 03 11	704	0.0	1.3+
1998 08 19	132	0.6-	0.3-	1998 09 25	704	0.5+	0.3-	2000 03 11	699	0.6-	0.5-
1998 08 20	132	(2.5-	0.3-)	1998 09 25	704	0.6+	0.7-	2000 03 11	699	0.3-	0.4+
1998 08 22	132	0.2-	0.3-	1998 09 25	704	0.3+	0.1+	2000 03 11	699	0.0	1.0+
1998 08 22	132	1.0-	0.9+	1998 09 25	704	0.8+	0.7+	2000 03 11	699	0.0	0.0
1998 08 22	132	0.4-	0.0	1998 09 25	704	0.5-	1.1+				
1998 08 23	704	0.4-	0.3+	1998 09 27	704	0.1+	0.3-				

(14082)* 1997 GK₂₁ = 1981 VL₁ = 1992 YT₅ = 1997 JU₁₆

Discovered 1997 Apr. 6 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 30085)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		274.64512		(2000.0)		P		Q	
<i>n</i>	0.29276704	ω	65.54238	-0.20005909	+0.97973360				
<i>a</i>	2.2462319	Ω	192.92892	-0.91422621	-0.19030514				
<i>e</i>	0.1712839	<i>i</i>	2.54139	-0.35237309	-0.06249813				
<i>P</i>	3.37	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1981 11 03	033	0.7-	0.9+	1997 05 26	910	0.1-	0.3-	2000 03 03	704	0.1+	0.0
1981 11 03	033	0.2+	1.5+	1997 05 26	910	0.0	0.1-	2000 03 03	704	0.3+	0.1-
1992 12 25	691	0.1-	0.3+	1997 05 26	910	0.5-	0.3-	2000 03 03	704	0.1+	0.0

1992 12 25	691	0.4-	0.2-	1998 10 29	704	1.0+	0.7-	2000 03 03	704	0.2+	0.0
1992 12 25	691	0.2-	0.3+	1998 10 29	704	1.2+	0.6+	2000 03 03	704	0.3+	0.1-
1997 04 06	704	0.7-	0.7+	1998 10 29	704	0.3-	0.4-	2000 03 05	704	0.2+	0.7-
1997 04 06	704	0.6+	0.5+	1998 10 29	704	1.2+	0.0	2000 03 05	704	1.3-	0.8-
1997 04 07	809	(2.5+	1.9-)	1998 11 10	704	1.5-	1.1+	2000 03 05	704	0.5-	0.2-
1997 04 07	704	0.1+	0.6+	1998 11 10	704	1.7-	1.0-	2000 03 05	704	0.4+	0.6-
1997 04 07	809	1.1+	1.7+	1998 11 10	704	1.6-	1.1+	2000 03 05	704	0.5-	0.2+
1997 04 07	809	(2.5+	1.1+)	1998 11 10	704	0.5+	0.6+	2000 03 06	704	0.1-	0.5-
1997 04 07	704	0.3-	0.3+	1998 11 15	120	0.3+	0.3+	2000 03 06	704	0.4+	0.1+
1997 04 08	704	0.5-	0.8+	1998 11 15	120	0.3+	0.0	2000 03 06	704	(0.0	6.4+)
1997 04 08	704	0.3-	1.0+	2000 02 02	703	0.7+	0.7+	2000 03 09	704	0.2+	0.4+
1997 04 30	704	0.2+	0.0	2000 02 02	703	0.4-	1.5+	2000 03 09	704	0.1-	0.3-
1997 04 30	704	0.0	0.2+	2000 02 02	703	0.1+	1.2+	2000 03 09	704	0.1+	0.5+
1997 04 30	704	0.5+	0.3+	2000 02 02	703	0.5-	0.8+	2000 03 09	704	0.1-	0.4+
1997 04 30	704	0.5+	0.3+	2000 02 02	704	1.0+	0.2-	2000 03 09	704	0.1-	0.1-
1997 04 30	704	0.1-	0.3-	2000 02 02	704	0.5-	1.0-	2000 03 11	704	0.1+	0.4-
1997 05 01	704	0.2+	0.1-	2000 02 02	704	0.6+	0.0	2000 03 11	704	0.7+	0.2-
1997 05 01	704	0.4+	0.1-	2000 02 02	704	0.0	1.0-	2000 03 11	704	0.0	0.6-
1997 05 01	704	1.3-	0.7-	2000 02 06	704	0.3+	0.3+	2000 03 11	704	0.0	0.9-
1997 05 01	704	0.4+	0.1-	2000 02 06	704	1.3-	1.1+	2000 03 11	704	0.0	0.4-
1997 05 01	704	0.5+	0.1+	2000 02 06	704	0.2+	0.3-	2000 03 11	699	0.5-	0.4+
1997 05 05	704	0.2+	0.0	2000 02 29	704	0.4+	0.5+	2000 03 11	699	0.2-	0.0
1997 05 05	704	0.2+	0.1+	2000 02 29	704	0.1+	0.7-	2000 03 11	699	0.7-	0.8+
1997 05 05	704	0.0	0.2-	2000 02 29	704	0.4+	0.6-	2000 03 11	699	1.1-	0.2+
1997 05 05	704	0.3-	0.0	2000 02 29	704	0.6+	0.9-				

(14083)* 1997 GH₂₂ = 1980 TR₉ = 1987 SP₂

Discovered 1997 Apr. 6 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 30085)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		207.56010		(2000.0)		P		Q	
<i>n</i>	0.27966046	ω	298.14132	+0.87980093	+0.46859171				
<i>a</i>	2.3158762	Ω	34.09039	-0.37066850	+0.78145161				
<i>e</i>	0.2676747	<i>i</i>	8.18783	-0.29758225	+0.41201358				
<i>P</i>	3.52	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1980 10 13	095	1.3+	0.3-	1997 05 05	704	0.2+	0.4-	2000 02 04	704	0.7+	0.1-
1987 09 19	071	(6.9-	1.6+)	1997 05 05	704	0.1+	0.5-	2000 02 04	704	1.0+	0.6+
1987 09 20	071	(9.9-	2.4-)	1997 05 05	704	0.4-	0.3-	2000 02 04	704	0.3+	1.0+
1987 09 23	071	(6.8-	1.0-)	1997 05 05	704	0.4-	0.3-	2000 02 04	704	0.7-	1.4+
1987 09 23	071	(6.5-	4.1+)	1997 05 05	704	0.0	0.5-	2000 02 11	704	0.2+	1.1+
1987 09 29	688	2.0-	2.4+	1997 05 05	704	0.0	0.4-	2000 02 11	704	1.0+	0.6-
1987 09 29	688	1.2+	1.8+	1997 05 05	704	0.2+	0.4-	2000 02 11	704	2.0+	0.4+
1987 10 01	809	0.7-	0.3+	1997 05 05	704	0.1+	0.5-	2000 02 11	704	1.0+	0.9+
1987 10 01	809	0.4-	0.8-	1997 05 05	704	0.5-	0.7-	2000 02 26	703	0.0	0.2+
1987 10 01	809	0.9-	2.0-	1997 05 05	704	0.1+	0.3-	2000 02 26	703	1.0-	1.1+
1997 04 06	704	0.1-	0.7+	1998 12 14	704	1.7+	0.5+	2000 02 26	703	0.8-	0.4-
1997 04 06	704	0.7+	0.4+	1998 12 14	704	1.1+	1.4-	2000 02 26	703	1.3-	0.4-
1997 04 07	704	1.4-	1.6+	1998 12 14	704	0.1-	0.5-	2000 02 29	704	0.2+	0.8-
1997 04 07	704	0.2+	0.6-	1998 12 14	704	(2.4+	0.7-)	2000 02 29	704	0.8-	0.7-
1997 04 08	704	0.1+	0.3+	1998 12 14	704	0.6+	0.8-	2000 02 29	704	0.5+	0.2+
1997 04 08	704	0.5+	0.3+	1998 12 17	704	0.4-	0.2-	2000 03 02	703	0.8-	0.0
1997 04 30	704	0.0	0.3-	1998 12 17	704	0.3+	0.8-	2000 03 02	703	0.5-	0.2-
1997 04 30	704	0.6+	0.1-	1998 12 17	704	0.8-	0.5+	2000 03 02	703	0.6-	0.3+
1997 04 30	704	0.2+	0.2+	1998 12 17	704	(2.3+	2.2+)	2000 03 02	703	0.6-	0.4+
1997 04 30	704	0.1+	0.4+	1998 12 17	704	0.7-	1.0+	2000 03 12	704	0.4+	0.0
1997 04 30	704	0.3+	0.7+	1999 01 16	704	0.2+	0.3-	2000 03 12	704	0.4-	0.1-
1997 05 01	704	0.5+	0.2-	1999 01 16	704	(3.4+	1.5+)	2000 03 12	704	0.1-	0.3-
1997 05 01	704	0.0	0.1-	1999 01 16	704	0.2-	0.4-	2000 03 12	704	0.4+	1.1+
1997 05 01	704	0.0	0.2-	1999 01 16	704	0.7+	0.5+	2000 03 12	704	0.2-	0.4+
1997 05 01	704	0.1-	0.4-	1999 01 16	704	0.2-	0.1-				
1997 05 01	704	0.1-	0.0	2000 02 04	704	0.0	0.4-				

2000 MAR. 20

M.P.C. 39075

(14084)* 1997 GX₂₃ = 1998 VE₅

Discovered 1997 Apr. 6 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. E. Bowell (*MPC* 33259), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	190.52621	ω	259.83873	+0.75743232	+0.63675485		
<i>a</i>	2.4540593	Ω	60.45272	−0.51501726	+0.71857438		
<i>e</i>	0.2184009	<i>i</i>	9.55183	−0.40131472	+0.27963214		
<i>P</i>	3.84	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 04 19	691	0.7−	1.0−	1998 11 10	704	0.1+	0.2−	1998 11 26	120	0.6+	0.8+
1993 04 19	691	0.7−	1.4−	1998 11 10	704	0.2+	0.6−	1998 11 26	120	0.1−	0.5+
1997 04 06	704	0.2−	0.1−	1998 11 10	704	0.6−	0.9+	1998 11 26	120	0.2+	0.4+
1997 04 06	704	0.2−	0.2+	1998 11 10	704	(2.1−	0.1+)	1998 12 05	327	0.5−	0.3−
1997 04 07	809	0.6+	0.2+	1998 11 11	704	0.0	0.0	1998 12 05	327	1.1+	0.5+
1997 04 07	809	0.2+	0.7+	1998 11 11	704	0.6+	0.2−	1998 12 05	327	0.6−	0.2+
1997 04 07	809	0.4+	0.1+	1998 11 11	704	0.3−	0.0	1998 12 06	327	0.6−	0.0
1997 04 07	704	1.0−	0.9+	1998 11 11	704	0.4−	0.6−	1998 12 06	327	0.6+	0.5+
1997 04 07	704	0.7−	0.7+	1998 11 11	120	0.2−	0.1+	1998 12 06	327	0.2+	0.6+
1997 04 08	809	0.1+	0.0	1998 11 11	120	0.2−	0.1+	1998 12 08	699	0.8+	0.5+
1997 04 08	809	0.7+	1.4−	1998 11 11	120	0.2−	0.2+	1998 12 08	691	0.2+	0.2−
1997 04 08	809	1.2+	0.9−	1998 11 11	120	0.3−	0.2+	1998 12 08	699	0.4+	1.1+
1997 04 11	704	0.8+	0.3+	1998 11 12	120	0.5+	0.6−	1998 12 08	691	0.3+	0.3−
1997 04 11	704	0.6−	0.5−	1998 11 12	120	0.9−	1.0−	1998 12 08	699	0.3+	0.7+
1997 04 11	704	0.1−	0.2+	1998 11 18	704	0.0	0.2−	1998 12 08	691	0.5+	0.2−
1997 04 11	704	0.6−	0.1−	1998 11 18	704	0.4−	0.4+	1998 12 14	704	0.2−	0.5+
1997 04 30	704	0.1−	0.1+	1998 11 18	704	0.9−	1.8+	1998 12 14	704	0.3+	0.2−
1997 04 30	704	0.2−	0.0	1998 11 18	704	(0.7−	2.2+)	1998 12 14	704	1.0−	1.2−
1997 04 30	704	0.3−	0.4+	1998 11 18	704	(1.5+	2.1+)	1998 12 14	704	0.1+	0.7+
1997 04 30	704	0.0	0.5+	1998 11 19	699	0.6+	0.3+	1998 12 14	704	0.5−	0.0
1997 04 30	704	0.1−	0.3+	1998 11 19	699	0.1−	0.4−	2000 02 14	704	1.2+	0.0
1997 05 01	704	0.2+	0.2−	1998 11 19	699	0.7+	0.1+	2000 02 14	704	0.2−	0.1+
1997 05 01	704	0.7+	0.3+	1998 11 21	704	0.5+	0.6−	2000 02 14	704	0.5+	0.3−
1997 05 01	704	0.2+	0.6+	1998 11 21	704	0.7+	0.9−	2000 02 14	704	0.3+	0.4−
1997 05 01	704	0.4+	0.4+	1998 11 21	704	0.5+	1.3−	2000 03 04	704	0.2+	1.6+
1997 05 01	704	0.3+	0.3+	1998 11 21	704	0.5−	0.1+	2000 03 04	704	0.3−	0.1+
1998 08 31	704	0.5+	1.4−	1998 11 21	704	0.5−	0.8−	2000 03 04	704	1.5−	0.2+
1998 08 31	704	1.3−	0.6+	1998 11 23	691	1.0−	0.5+	2000 03 04	704	0.9−	0.3−
1998 08 31	704	0.3+	1.9−	1998 11 23	691	0.6−	0.0	2000 03 12	703	0.8+	1.1−
1998 08 31	704	1.0+	0.0	1998 11 23	691	0.6−	0.1−	2000 03 12	703	1.2−	0.0
1998 10 20	699	0.2+	0.4+	1998 11 25	699	0.9+	0.2−	2000 03 12	703	0.5+	0.4−
1998 10 20	699	0.6−	0.6+	1998 11 25	699	0.2+	0.3+	2000 03 12	703	0.1+	0.1+
1998 10 20	699	0.1−	0.1+	1998 11 25	699	0.2+	0.3+				

(14085)* 1997 GA₃₇ = 1995 UU₅ = 1995 UN₃₈

Discovered 1997 Apr. 3 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. G. V. Williams (*MPC* 30462)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	82.50891	ω	210.45556	+0.53379734	−0.84451288		
<i>a</i>	2.2355300	Ω	207.35163	+0.79352384	+0.51788065		
<i>e</i>	0.1062916	<i>i</i>	5.38383	+0.29219909	+0.13637308		
<i>P</i>	3.34	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1995 10 21	399	0.3+	0.3−	1997 04 04	566	1.1−	0.1+	2000 02 06	704	0.4−	0.2−
1995 10 21	399	(0.4+	2.1+)	1997 04 05	704	1.8−	0.6−	2000 02 06	704	0.1−	0.9+
1995 10 22	691	0.1−	0.7−	1997 04 05	704	0.9+	0.6+	2000 02 06	704	0.5+	0.4+
1995 10 22	691	0.0	0.6−	1997 04 05	704	(3.6+	0.0)	2000 02 06	704	0.5+	0.6+
1995 10 22	691	0.2+	0.8−	1997 04 05	704	1.0+	0.8+	2000 02 06	704	0.3+	0.9+
1995 10 27	691	0.2+	0.2−	1998 08 17	704	1.2−	0.3−	2000 02 12	704	0.1+	1.1+

1995 10 27	691	0.1−	0.2−	1998 08 17	704	0.7−	0.1−	2000 02 12	704	0.4+	0.7−
1995 10 27	691	0.4+	0.2−	1998 08 17	704	0.1−	1.1+	2000 02 12	704	0.4+	0.1+
1997 03 12	809	0.2−	0.3−	1998 08 17	704	0.6+	1.0+	2000 02 12	704	0.2−	0.5+
1997 03 12	809	0.2−	0.4−	1998 08 17	704	0.2−	0.2+	2000 02 13	704	0.2+	0.1+
1997 03 12	809	1.1+	1.4−	1998 08 23	704	0.0	0.1+	2000 02 13	704	0.3−	0.2+
1997 03 13	809	(5.3−	1.9+)	1998 08 23	704	0.7+	0.6−	2000 02 13	704	0.5+	0.3−
1997 03 13	809	(4.6−	2.2+)	1998 08 23	704	0.7−	0.2−	2000 03 06	704	0.3+	0.3+
1997 03 13	809	(5.2−	1.9+)	1998 08 23	704	(2.6−	0.2+)	2000 03 06	704	0.2+	0.2+
1997 03 13	809	0.1+	0.4+	1998 08 30	699	0.5+	0.1−	2000 03 06	704	0.3+	0.3−
1997 03 13	809	0.9+	1.8−	1998 08 30	699	0.2+	0.3−	2000 03 13	704	0.1+	0.3+
1997 03 13	809	1.0−	0.2−	1998 08 30	699	0.7+	0.1+	2000 03 13	704	0.1−	0.1−
1997 04 03	704	0.4−	1.4−	2000 02 02	704	0.3−	0.2−	2000 03 13	704	0.3−	0.6−
1997 04 03	704	0.9+	0.7−	2000 02 02	704	0.5−	0.1−	2000 03 13	704	0.7+	0.9−
1997 04 04	566	0.6−	0.1+	2000 02 02	704	1.4−	0.8−	2000 03 13	704	0.1+	0.9+
1997 04 04	566	0.7−	0.1+	2000 02 02	704	0.4−	0.1−				

(14086)* 1997 GC₃₈ = 1998 SZ₃₁

Discovered 1997 Apr. 6 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. G. V. Williams (*MPC* 32680)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	129.45187	ω	204.47239	+0.85398453	−0.52016697		
<i>a</i>	2.2657887	Ω	186.90587	+0.49195724	+0.81457984		
<i>e</i>	0.0438202	<i>i</i>	5.58124	+0.16937681	+0.25668269		
<i>P</i>	3.41	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 03 03	691	0.7+	0.0	1998 09 27	704	0.9−	1.9+	2000 02 27	703	0.6−	0.0
1993 03 03	691	0.0	0.1−	1998 09 27	704	0.2+	0.7+	2000 02 27	703	0.2+	0.0
1993 03 03	691	0.6−	0.0	1998 09 27	704	0.8−	0.4+	2000 02 27	703	0.1−	0.8+
1997 04 06	704	(1.0−	2.5+)	1998 10 14	704	1.0+	0.4+	2000 02 27	703	0.2+	0.2−
1997 04 06	704	0.8−	0.4+	1998 10 14	704	(1.2−	2.4+)	2000 02 29	704	0.4−	0.3+
1997 04 07	809	1.9+	0.6+	1998 10 14	704	1.2−	1.4+	2000 02 29	704	0.1−	0.7+
1997 04 07	809	1.0+	0.6+	1998 10 14	704	(0.2−	2.8+)	2000 02 29	704	0.4+	0.9+
1997 04 07	809	1.7+	0.3+	1998 10 14	699	0.1+	0.2−	2000 02 29	704	0.3+	0.4+
1997 04 08	809	0.4−	0.5−	1998 10 14	699	0.6−	1.2−	2000 03 03	704	0.1+	0.2−
1997 04 08	809	1.6−	0.2+	1998 10 14	699	0.7−	0.1−	2000 03 03	704	0.7+	0.4−
1997 04 08	809	1.7−	0.8−	1998 10 15	704	0.3+	0.6+	2000 03 03	704	0.8+	0.5−
1997 04 11	704	0.6+	0.5+	1998 10 15	704	0.1−	0.8+	2000 03 03	704	0.6−	0.1+
1997 04 11	704	0.6+	0.5+	1998 10 15	704	0.3+	0.6−	2000 03 03	704	0.2−	0.4−
1997 04 30	704	0.1+	0.6+	1998 10 19	699	0.5+	0.1+	2000 03 05	704	0.1+	0.1+
1997 04 30	704	0.3−	1.2+	1998 10 19	699	0.3+	0.2+	2000 03 05	704	0.4+	0.4−
1997 04 30	704	0.0	1.1+	1998 10 19	699	0.7+	0.5−	2000 03 05	704	0.6−	0.2−
1997 04 30	704	0.9+	0.6+	1998 10 28	704	1.0+	1.2+	2000 03 05	704	0.2+	0.2−
1997 04 30	704	0.5−	0.8+	1998 10 28	704	0.2+	0.8−	2000 03 05	704	0.3+	0.1+
1998 09 14	704	0.4+	0.9+	1998 10 28	704	1.1+	0.1−	2000 03 08	704	0.5−	0.5+
1998 09 14	704	0.8−	0.7+	1998 10 28	704	1.1−	0.2+	2000 03 08	704	0.4−	0.4+
1998 09 14	704	0.0	0.6−	1998 10 28	704	0.4−	1.9+	2000 03 08	704	0.5−	0.3−
1998 09 18	704	0.2+	0.7−	1998 10 29	704	1.6−	0.6+	2000 03 08	704	0.3−	0.2+
1998 09 18	704	0.4+	0.9+	1998 10 29	704	0.7−	1.5+	2000 03 08	704	0.6−	0.6+
1998 09 18	704	0.4+	0.3−	1998 10 29	704	0.4+	0.1+	2000 03 08	704	0.6+	0.1−
1998 09 18	704	0.3+	0.4+	1998 10 29	704	1.5+	0.8−	2000 03 08	704	1.0+	1.7+
1998 09 18	704	1.1−	0.9+	1998 10 29	704	1.9−	0.9+	2000 03 08	704	0.1−	0.8+
1998 09 20	691	0.6−	0.0	2000 02 02	704	1.7+	0.2+	2000 03 08	704	0.6−	1.4+
1998 09 20	691	1.1−	0.3+	2000 02 02	704	1.4+	0.7+	2000 03 08	704	0.1+	0.7+
1998 09 20	691	0.7−	0.2−	2000 02 02	704	1.1+	0.7−	2000 03 09	704	1.3−	0.2+
1998 09 26	704	0.6−	0.5+	2000 02 02	704	0.4+	0.9−	2000 03 09	704	1.0−	0.3+
1998 09 26	704	0.9+	0.2+	2000 02 07	704	0.5+	1.3−	2000 03 09	704	0.6−	0.6+
1998 09 26	704	0.5−	1.2−	2000 02 07	704	0.7+	0.8−	2000 03 09	704	0.6−	0.7+
1998 09 26	704	0.7+	0.3−	2000 02 07	704	0.3−	1.0−	2000 03 09	704	1.3−	1.1+
1998 09 26	704	0.8+	0.3+	2000 02 07	704	0.9−	1.0−	2000 03 11	704	0.2+	0.5+
1998 09 26	691	0.0	0.1−	2000 02 08	704	0.2+	0.2−	2000 03 11	704	0.6+	0.5+
1998 09 26	691	0.1+	0.1−	2000 02 08	704	0.4+	0.2+	2000 03 11	704	(1.0+	2.2+)
1998 09 26	691	0.1−	0.4−	2000 02 08	704	0.3+	0.0	2000 03 11	704	0.6+	0.7+

1998 09 27 704 0.3− 0.9+ 2000 02 08 704 0.2− 0.6− 2000 03 11 704 0.5+ 0.8+
 1998 09 27 704 0.4+ 0.8+ 2000 02 08 704 0.7+ 0.5−

(14087)* 1997 HG₁₀ = 1998 SK₇₂

Discovered 1997 Apr. 30 by the Lincoln Laboratory Near-Earth Asteroid
 Research Team at Socorro.

Id. A. Doppler (*MPC* 33259)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	181.06526	<i>P</i>	<i>Q</i>
<i>n</i>	0.27590390	ω	278.63939
<i>a</i>	2.3368500	Ω	54.97792
<i>e</i>	0.0865703	<i>i</i>	3.78797
<i>P</i>	3.57	<i>H</i>	15.7

Residuals in seconds of arc

1991 11 07	691	0.4−	0.5+	1997 05 05	704	0.9+	0.8−	1998 11 11	704	0.5−	1.2+
1991 11 07	691	0.4+	0.2+	1997 05 05	704	0.2+	0.4−	1998 11 11	704	(2.4−	1.6−)
1991 11 07	691	0.3−	0.6+	1997 05 05	704	0.9−	0.3−	1998 11 11	704	1.6+	0.2−
1997 04 06	704	0.4+	0.6+	1997 05 05	704	0.7+	0.2−	1998 11 23	699	0.0	1.0+
1997 04 06	704	(1.1−	2.6+)	1997 05 05	704	(0.1−	2.1−)	1998 11 23	699	0.0	0.0
1997 04 06	704	0.5−	0.1−	1997 05 05	704	1.5−	0.6+	1998 11 23	699	0.5+	0.5−
1997 04 06	704	0.7−	0.2−	1998 09 21	809	0.9−	1.1+	1999 01 07	691	1.2−	0.5−
1997 04 30	704	1.1+	1.0−	1998 09 21	809	1.6−	0.8+	1999 01 07	691	1.2−	0.3−
1997 04 30	704	0.2−	0.3+	1998 09 21	809	1.5−	0.6+	1999 01 07	691	1.1−	0.7−
1997 04 30	704	0.7+	0.6+	1998 09 23	809	1.8+	0.2+	2000 02 01	703	0.7+	0.0
1997 04 30	704	0.2+	1.3+	1998 09 23	809	0.7+	0.2+	2000 02 01	703	0.2+	0.1+
1997 04 30	704	0.3−	0.7+	1998 09 23	809	1.4+	0.9+	2000 02 01	703	0.7+	0.3−
1997 05 01	704	0.1+	0.7+	1998 09 26	704	1.4−	0.7−	2000 02 01	703	0.7+	0.0
1997 05 01	704	0.1+	0.8+	1998 09 26	704	0.2−	0.3−	2000 02 11	704	0.6−	0.2+
1997 05 01	704	0.5+	0.4−	1998 09 26	704	0.2−	1.2−	2000 02 11	704	0.7+	0.1+
1997 05 01	704	1.4+	0.4+	1998 09 26	704	1.3+	1.4−	2000 02 11	704	0.1+	0.5−
1997 05 01	704	0.1+	0.3−	1998 09 27	704	0.6−	1.4−	2000 02 25	703	0.3+	0.1+
1997 05 04	327	0.9−	0.3−	1998 09 27	704	1.7+	0.5+	2000 02 25	703	1.9−	1.1+
1997 05 04	327	1.1−	1.8−	1998 09 27	704	0.5−	0.1+	2000 02 25	703	0.7−	1.5−
1997 05 04	327	1.2−	0.2+	1998 09 27	704	1.7+	0.9−	2000 02 25	703	0.2−	0.6−
1997 05 05	704	0.5+	0.0	1998 09 27	704	0.6−	0.8−				
1997 05 05	704	0.1+	0.2−	1998 11 11	704	(2.2−	0.3−)				

(14088)* 1997 JB₁₀

Discovered 1997 May 3 by V. S. Casulli at Colleverde di Guidonia.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	345.08488	<i>P</i>	<i>Q</i>
<i>n</i>	0.28618848	ω	51.67316
<i>a</i>	2.2805238	Ω	115.72388
<i>e</i>	0.0895599	<i>i</i>	2.95045
<i>P</i>	3.44	<i>H</i>	15.2

Residuals in seconds of arc

1993 01 29	691	(0.3−	2.4−)	1998 09 15	596	0.7+	0.1−	2000 02 04	704	0.2+	0.9+
1993 01 29	691	0.4−	1.7−	1998 09 15	596	0.8+	0.2−	2000 02 04	704	0.3+	0.5+
1993 01 29	691	0.3−	1.8−	1998 09 15	596	0.8+	0.3−	2000 02 04	704	0.5+	0.7+
1997 05 03	596	0.8+	0.4+	1998 09 18	704	1.2+	1.0−	2000 02 06	703	0.2−	0.1+
1997 05 03	596	0.4+	1.1−	1998 09 18	704	0.4−	1.6+	2000 02 06	703	0.1+	0.3+
1997 05 03	596	0.4+	1.5+	1998 09 18	704	0.9+	0.9+	2000 02 06	703	0.2+	0.3+
1997 05 10	596	0.4+	1.6+	1998 09 18	704	1.2−	2.0+	2000 02 06	703	0.1−	0.2+
1997 05 10	596	0.0	0.3−	1998 09 18	704	(4.8−	0.3+)	2000 02 11	704	0.3+	0.0
1997 05 10	596	0.0	0.8−	1998 09 18	596	0.8+	0.8−	2000 02 11	704	0.3−	0.4−
1997 05 11	596	0.8−	0.4−	1998 09 18	596	0.6+	0.9−	2000 02 11	704	0.1+	0.2−
1997 05 11	596	0.5+	1.9+	1998 09 18	596	0.6+	1.1−	2000 02 11	704	0.1+	0.2−
1997 05 11	596	1.1−	0.5−	1998 09 26	704	0.4+	0.2+	2000 02 11	704	0.7−	0.6−
1997 05 13	596	0.1+	0.4−	1998 09 26	704	(1.6−	2.1−)	2000 02 25	703	0.0	0.5+
1997 05 13	596	0.6+	0.9−	1998 09 26	704	0.7−	0.0	2000 02 25	703	1.2−	0.4+
1997 05 13	596	0.3−	0.8−	1998 09 26	704	(0.0	2.1−)	2000 02 25	703	0.2−	0.6+
1997 05 26	596	(2.4−	0.3−)	1998 09 26	704	0.2−	0.1+	2000 02 25	703	1.3−	0.8+
1997 05 26	596	1.4−	0.7−	1998 09 27	704	0.6+	0.5−	2000 03 05	704	0.0	0.0

1998 08 28	704	0.9−	1.7+	1998 09 27	704	0.9−	0.8+	2000 03 05	704	0.2+	0.0
1998 08 28	704	(2.2+	1.7+)	1998 09 27	704	1.2+	0.9+	2000 03 05	704	0.1+	0.4+
1998 08 28	704	(0.6−	2.6−)	1998 09 27	704	1.0−	0.9+	2000 03 05	704	0.0	0.3+
1998 08 28	704	(4.7−	0.2+)	1998 09 27	704	0.3+	0.1+	2000 03 05	704	0.1−	0.6+
1998 08 29	595	(2.9−	1.5+)	2000 01 26	596	0.0	0.3+	2000 03 09	704	0.7+	0.3−
1998 08 29	595	1.5−	1.4−	2000 01 26	596	0.2+	0.1−	2000 03 09	704	0.3+	0.1+
1998 08 30	595	0.5−	0.2−	2000 01 26	596	0.4−	0.1+	2000 03 09	704	0.2+	0.3+
1998 08 31	595	0.6−	0.6−	2000 01 27	596	0.7+	0.6−	2000 03 09	704	0.1+	0.2+
1998 09 14	704	0.6−	0.5+	2000 01 27	596	0.2+	1.6−	2000 03 09	704	0.4+	0.0
1998 09 14	704	0.4−	1.0−	2000 02 04	704	0.0	0.4+				
1998 09 14	704	0.8−	0.1−	2000 02 04	704	0.8+	0.0				

(14089)* 1997 JC₁₄ = 1998 QL₉₃

Discovered 1997 May 8 by the Beijing Schmidt CCD Asteroid Program at
 Xinglong.

Id. G. V. Williams (*MPC* 32479)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	156.48674	<i>P</i>	<i>Q</i>
<i>n</i>	0.24194685	ω	152.96362
<i>a</i>	2.5506805	Ω	195.88050
<i>e</i>	0.2056975	<i>i</i>	10.10045
<i>P</i>	4.07	<i>H</i>	14.1

Residuals in seconds of arc

1996 03 13	691	1.1−	0.8−	1998 08 28	704	0.9−	1.8+	1998 11 14	699	0.2+	0.6+
1996 03 13	691	0.1−	1.2−	1998 08 31	704	1.4−	0.1−	1998 11 14	699	0.4+	0.4+
1996 03 13	691	0.1+	0.8−	1998 08 31	704	0.3+	0.5+	1998 11 14	699	0.7+	0.2+
1997 03 18	910	0.1−	0.1−	1998 08 31	704	(1.3+	2.1−)	1998 12 14	699	0.1−	0.1−
1997 03 18	910	0.1−	0.0	1998 08 31	704	0.1+	1.8−	1998 12 14	699	0.1−	0.5−
1997 03 18	910	0.6−	0.0	1998 08 31	704	1.8−	0.4−	1998 12 14	699	0.1−	0.3−
1997 05 08	327	0.2+	0.1+	1998 09 24	120	0.3+	0.3+	2000 02 08	704	0.3+	0.7+
1997 05 08	327	0.6+	0.1+	1998 09 24	120	1.6+	0.0	2000 02 08	704	0.8+	0.6+
1997 05 08	327	0.1−	0.0	1998 09 29	704	0.6−	0.7+	2000 02 08	704	0.6+	0.4+
1997 05 08	327	0.4+	0.0	1998 09 29	704	(2.2+	1.3+)	2000 02 08	704	0.7−	0.3+
1997 05 16	327	0.8−	0.1+	1998 09 29	704	1.2+	0.3−	2000 03 01	703	(3.6+	2.7−)
1997 05 16	327	0.8−	0.3+	1998 09 29	704	(0.1+	2.1−)	2000 03 01	703	1.5−	0.0
1997 05 16	327	0.4−	0.1+	1998 09 29	704	1.1+	1.6−	2000 03 01	703	0.7+	0.3+
1997 06 03	327	0.7+	0.3−	1998 10 29	704	0.8+	0.0	2000 03 01	703	0.2+	0.9+
1997 06 03	327	0.4+	0.3−	1998 10 29	704	0.2+	0.1−	2000 03 11	699	0.4−	0.7+
1997 06 03	327	0.5+	0.5−	1998 10 29	704	0.2−	0.1−	2000 03 11	699	0.6−	0.6+
1997 06 04	327	0.2−	0.0	1998 10 29	704	0.2+	0.2+	2000 03 11	699	0.8−	1.3+
1997 06 04	327	0.3−	0.3+	1998 10 29	704	0.5+	0.1+	2000 03 11	699	0.4−	1.1+
1997 06 04	327	0.5+	0.1+	1998 11 13	704	0.1−	0.4−	2000 03 11	608	0.7+	1.5−
1997 06 04	327	0.3+	0.1+	1998 11 13	704	0.5−	0.6−	2000 03 11	608	0.8+	1.3−
1998 08 28	704	1.0−	0.1−	1998 11 13	704	0.2−	0.6−	2000 03 11	608	0.7+	1.0−
1998 08 28	704	1.7−	0.0	1998 11 13	704	0.1−	0.7+				
1998 08 28	704	0.3−	0.9+	1998 11 13	704	0.2+	0.5+				

(14090)* 1997 MS₃ = 1979 QP₁ = 1998 UG₃₀

Discovered 1997 June 28 by the Lincoln Laboratory Near-Earth Asteroid
 Research Team at Socorro.

Id. A. Doppler (*MPC* 33499)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	163.65969	<i>P</i>	<i>Q</i>
<i>n</i>	0.21498844	ω	197.69097
<i>a</i>	2.7596837	Ω	137.30740
<i>e</i>	0.1079109	<i>i</i>	5.44197
<i>P</i>	4.58	<i>H</i>	14.4

Residuals in seconds of arc

1979 08 22	809	0.3−	0.1−	1998 10 19	809	(0.1−	2.5−)	2000 02 08	691	0.0	0.2+
1979 08 22	809	2.0+	0.6+	1998 10 19	809	(0.8−	4.0−)	2000 02 08	691	0.0	0.3+
1979 08 22	809	0.4−	0.4−	1998 10 19	809	(0.0	3.5−)	2000 02 08	691	0.3−	0.7−
1979 08 23	809	0.7−									

2000 MAR. 20

M.P.C. 39077

1997 06 28	704	0.6+	0.6-	1998 11 14	699	0.5+	0.1-	2000 02 10	691	0.4-	0.3-
1997 06 28	704	0.2-	1.2+	2000 01 28	691	0.1-	0.1-	2000 02 11	704	0.4-	0.3+
1997 06 28	704	1.3-	0.5-	2000 01 28	691	0.1-	0.1-	2000 02 11	704	1.0+	0.0
1997 06 29	704	1.1+	0.8+	2000 01 28	691	0.2-	0.1-	2000 02 11	704	0.5-	1.8+
1997 06 29	704	0.0	0.9-	2000 01 30	691	0.6-	0.0	2000 02 29	704	0.7+	1.1-
1997 06 29	704	0.4-	0.0	2000 01 30	691	0.5-	0.1+	2000 02 29	704	0.6+	0.5+
1997 06 29	704	0.1+	0.0	2000 01 30	691	0.5-	0.1+	2000 02 29	704	0.7+	0.3-
1997 06 29	704	0.1-	0.3-	2000 02 03	704	0.1+	0.8-	2000 02 29	704	0.3+	0.3-
1997 07 02	704	0.1+	0.8-	2000 02 03	704	0.1+	0.4+	2000 02 29	704	1.1+	0.9-
1997 07 02	704	0.5+	0.5+	2000 02 03	704	0.4-	0.4+	2000 03 09	704	0.6+	0.4+
1997 07 02	704	0.4-	0.2-	2000 02 03	704	0.3+	0.0	2000 03 09	704	1.0+	0.1+
1997 07 02	704	0.1-	0.6-	2000 02 03	704	0.1-	0.6+	2000 03 09	704	0.3-	0.5-
1998 10 18	809	0.8-	0.5-	2000 02 07	691	0.3-	0.0	2000 03 09	704	0.8-	0.4-
1998 10 18	809	0.6-	0.6-	2000 02 07	691	0.3-	0.0	2000 03 09	704	0.2-	0.1+
1998 10 18	809	0.6-	0.3-	2000 02 07	691	0.3-	0.0				

(14091)* 1997 MQ₄ = 1995 AG₄

Discovered 1997 June 28 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 32968)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23994771	<i>ω</i>	290.88570	+0.90901247	-0.34611668		
<i>a</i>	2.5648284	<i>Ω</i>	89.96031	+0.41279024	+0.82449482		
<i>e</i>	0.1864108	<i>i</i>	13.42444	-0.05745043	+0.44767347		
<i>P</i>	4.11	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1995 01 02	010	0.4+	1.2-	1998 12 15	704	0.1+	0.5+	1999 01 16	704	0.9+	0.5+
1995 01 02	010	0.2+	1.1-	1998 12 15	704	0.8-	0.5-	1999 01 19	704	0.9+	0.2+
1995 01 03	010	0.5-	1.2+	1998 12 15	704	0.6-	0.7-	1999 01 19	704	1.5+	1.2+
1995 01 04	010	(2.4+	0.5-)	1998 12 15	704	0.4-	0.6-	1999 01 19	704	0.2-	0.2-
1997 06 28	704	1.7+	0.9-	1998 12 15	704	1.4-	0.4-	1999 01 19	704	0.5+	0.5+
1997 06 28	704	0.2+	0.4+	1998 12 16	704	0.6-	0.5+	1999 01 19	704	0.2-	0.5-
1997 06 28	704	0.2+	0.6+	1998 12 16	704	0.1-	0.1+	2000 01 07	704	0.1+	0.4-
1997 06 29	704	0.1+	0.1-	1998 12 16	704	0.1+	1.8-	2000 01 07	704	0.4-	0.1-
1997 06 29	704	0.5-	0.2-	1998 12 16	704	(4.7-	2.0-)	2000 01 07	704	0.5+	0.1+
1997 06 29	704	2.0+	0.3+	1998 12 17	704	0.1-	0.5+	2000 01 07	704	1.1+	0.2-
1997 06 29	704	0.2+	0.7-	1998 12 17	704	0.9+	1.5-	2000 02 04	704	0.3-	1.8-
1997 06 29	704	0.3+	0.2-	1998 12 17	704	(1.4+	2.5-)	2000 02 04	704	0.1-	0.1+
1997 07 02	704	0.9-	0.2-	1998 12 17	704	0.4-	1.1+	2000 02 04	704	1.1+	0.2+
1997 07 02	704	1.8-	0.8+	1998 12 22	704	0.3+	1.1+	2000 02 04	704	0.1+	0.3-
1997 07 02	704	0.4-	0.1+	1998 12 22	704	0.8+	0.4+	2000 02 04	704	0.5+	0.2-
1997 07 02	704	0.4-	0.6-	1998 12 22	704	0.4+	0.6-	2000 03 05	704	0.1+	0.5+
1997 07 02	704	0.8-	0.6-	1998 12 22	704	(2.1+	1.3-)	2000 03 05	704	0.1+	0.5-
1998 11 23	704	1.8+	1.2-	1998 12 22	704	0.3+	0.7+	2000 03 05	704	1.2+	0.2+
1998 11 23	704	1.3+	0.3-	1999 01 16	704	1.8-	1.7-	2000 03 11	703	0.8-	0.5+
1998 11 23	704	1.5-	0.4+	1999 01 16	704	1.2-	1.0+	2000 03 11	703	1.5-	0.7+
1998 11 23	704	0.4-	0.3-	1999 01 16	704	0.0	0.9+	2000 03 11	703	0.7-	0.4-
1998 11 23	704	0.1-	0.5+	1999 01 16	704	0.2+	0.1+	2000 03 11	703	0.6-	0.7+

(14092)* 1997 MC₈ = 1998 XD₁₉

Discovered 1997 June 29 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 33499)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.22171880	<i>ω</i>	38.99594	-0.12767354	+0.99169101		
<i>a</i>	2.7035498	<i>Ω</i>	223.67542	-0.91559090	-0.12395560		
<i>e</i>	0.0366409	<i>i</i>	1.30776	-0.38130405	-0.03440846		
<i>P</i>	4.45	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 09 23	809	(3.3+	2.7+)	1998 11 23	691	0.4+	0.3+	2000 02 02	704	0.5+	1.2+
1993 09 23	809	0.3-	1.1+	1998 11 23	691	0.5+	0.1-	2000 02 07	691	0.3-	0.8-
1993 09 23	809	0.1+	0.4-	1998 12 10	691	0.4+	0.1+	2000 02 07	691	0.4-	0.8-

1997 06 29	691	0.1+	0.1+	1998 12 10	691	1.5+	0.8+	2000 02 07	691	0.5-	0.6-
1997 06 29	691	0.1-	0.3+	1998 12 10	691	0.4+	0.2+	2000 02 29	704	0.4+	0.2-
1997 06 29	691	0.1+	0.2+	1998 12 15	691	0.4-	0.0	2000 02 29	704	0.5-	0.2-
1997 07 06	691	0.3-	0.1+	1998 12 15	691	0.5-	0.2+	2000 02 29	704	0.4-	0.6-
1997 07 06	691	0.2-	0.1+	1998 12 15	691	0.4-	0.0	2000 02 29	704	0.3-	0.1-
1997 07 06	691	0.0	0.1+	1999 02 12	691	0.4-	0.2-	2000 02 29	704	0.4+	0.2-
1997 07 10	691	0.0	0.4+	1999 02 12	691	0.6-	0.1-	2000 03 03	704	0.1+	0.2+
1997 07 10	691	0.3-	0.1+	1999 02 12	691	0.2+	0.2+	2000 03 03	704	0.2+	0.4-
1997 07 10	691	0.1-	0.1+	1999 02 20	691	1.4-	1.0-	2000 03 03	704	0.2-	0.2+
1998 11 16	691	0.0	0.3-	1999 02 20	691	0.8-	0.3-	2000 03 03	704	0.2-	0.7+
1998 11 16	691	0.3+	0.6-	1999 03 13	691	0.7-	0.6-	2000 03 03	704	0.1+	0.6+
1998 11 16	691	0.1-	0.1+	1999 03 13	691	0.9-	0.2+	2000 03 11	704	0.3+	0.8+
1998 11 19	699	1.0+	0.4-	1999 03 13	691	0.6-	0.1-	2000 03 11	704	0.3+	0.0
1998 11 19	699	0.7-	1.0+	2000 02 02	704	0.6-	0.2+	2000 03 11	704	0.4+	0.7+
1998 11 19	699	0.3+	0.2+	2000 02 02	704	0.7+	0.8+	2000 03 11	704	0.7+	0.3+
1998 11 23	691	0.2+	0.2+	2000 02 02	704	0.2+	0.2-	2000 03 11	704	0.3+	0.4+

(14093)* 1997 OM = 1978 RY₁₁ = 1998 YX₁₇

Discovered 1997 July 26 by G. R. Viscome at Rand Observatory.

Id. G. V. Williams (*MPC* 33500)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.20484346	<i>ω</i>	202.35225	+0.97399984	+0.22496578		
<i>a</i>	2.8500642	<i>Ω</i>	144.61330	-0.20024559	+0.91008908		
<i>e</i>	0.0782810	<i>i</i>	2.64604	-0.10595291	+0.34803486		
<i>P</i>	4.81	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1978 09 06	809	0.1+	0.4-	1997 08 10	816	0.1+	0.5+	2000 02 26	691	0.3-	0.4-
1997 07 26	816	0.4+	0.2+	1997 08 10	816	0.1+	0.3+	2000 02 26	691	0.1-	0.2-
1997 07 26	816	0.1+	0.2+	1997 08 10	816	0.3+	1.3+	2000 02 29	704	1.2+	0.6+
1997 07 26	816	0.0	0.8+	1997 08 10	816	0.1+	1.0+	2000 02 29	704	0.6+	0.6+
1997 07 30	816	0.5+	0.2+	1998 11 23	699	0.9+	1.7+	2000 02 29	704	0.0	0.0
1997 07 30	816	0.3+	0.3+	1998 11 23	699	1.2+	0.3+	2000 02 29	704	0.5+	0.3-
1997 07 30	816	0.0	0.3+	1998 11 23	699	0.6+	0.0	2000 02 29	704	0.8+	0.1-
1997 07 30	816	0.1-	0.0	1998 11 24	704	0.4-	1.5+	2000 03 02	691	0.3-	0.3-
1997 07 31	292	0.3-	0.8-	1998 11 24	704	0.1+	0.3+	2000 03 02	691	0.1-	0.1+
1997 07 31	292	0.3-	0.5-	1998 11 24	704	0.9-	0.0	2000 03 02	691	0.6-	0.1+
1997 07 31	816	0.1-	0.7+	1998 11 24	704	(2.4-	1.9-)	2000 03 03	704	0.8+	1.8+
1997 07 31	816	0.7+	0.3+	1998 11 24	704	(4.9-	0.5+)	2000 03 03	704	1.3+	0.3-
1997 07 31	292	0.3-	1.5-	1998 12 12	691	1.0-	0.5+	2000 03 03	704	0.3+	0.7+
1997 07 31	816	0.2+	0.8+	1998 12 12	691	0.4-	0.5+	2000 03 03	704	0.7+	0.4+
1997 07 31	816	0.1+	0.8+	1998 12 12	691	0.8-	0.4+	2000 03 04	691	0.1+	0.2+
1997 08 01	816	0.3+	0.7+	1998 12 25	691	0.2-	0.5-	2000 03 04	691	0.0	0.4+
1997 08 01	816	0.3+	0.8+	1998 12 25	691	0.1-	0.2-	2000 03 04	691	0.1-	0.1+
1997 08 01	292	0.4-	1.0-	1998 12 25	691	0.3-	0.4-	2000 03 05	704	0.2-	0.7+
1997 08 01	292	0.1+	0.8-	1998 12 28	691	0.3+	0.3-	2000 03 05	704	0.4+	0.7+
1997 08 01	292	0.3-	1.1+	1998 12 28	691	0.0	0.2-	2000 03 05	704	0.0	0.8+
1997 08 07	292	1.5-	0.8-	1998 12 28	691	0.3+	0.4-	2000 03 05	704	0.6-	0.2-
1997 08 07	816	0.6+	1.3+	2000 02 11	691	0.5-	0.7+	2000 03 05	704	0.1-	0.9+
1997 08 07	292	1.8-	0.5+	2000 02 11	691	0.5-	0.8+	2000 03 12	691	0.1+	0.2+
1997 08 07	816	0.6+	1.6+	2000 02 11	691	0.6-	0.8+	2000 03 12	691	0.2+	0.2+
1997 08 07	292	1.4-	0.8+	2000 02 26	691	0.3-	0.3-	2000 03 12	691	0.3+	0.1+

Residuals in seconds of arc

1996 05 20	691	0.5−	0.2−	1997 08 08	118	1.0+	0.2+	1998 11 24	704	0.2−	0.5−
1996 05 20	691	0.4−	0.3−	1997 08 09	118	0.8+	0.8+	2000 02 11	704	0.4+	0.5+
1996 05 20	691	0.3−	0.6−	1997 08 12	118	0.3+	0.7+	2000 02 11	704	0.7−	0.4−
1996 05 22	809	0.3−	0.8+	1997 08 12	118	0.3+	0.2+	2000 02 11	704	0.6+	0.5+
1996 05 22	809	0.7+	0.7−	1997 08 12	118	0.6+	0.7+	2000 02 11	704	0.4+	1.4+
1996 05 22	809	(1.5+ 2.4−)		1997 08 12	118	0.4+	0.1+	2000 02 28	704	0.5−	0.2+
1996 05 24	809	0.2+	1.1−	1997 08 13	118	0.1+	0.3+	2000 02 28	704	0.1−	0.0
1996 05 24	809	(0.3+ 2.9−)		1997 08 13	118	0.7+	0.4+	2000 02 28	704	0.2−	0.6+
1996 05 24	809	(2.7+ 5.1−)		1997 09 04	684	0.5−	1.1−	2000 02 28	704	0.2+	0.3−
1997 07 28	691	0.5−	0.7+	1997 09 04	684	0.6−	0.9−	2000 03 05	704	0.3−	0.2+
1997 07 28	691	0.3−	0.7+	1997 09 05	684	0.5+	0.3−	2000 03 05	704	1.1+	0.0
1997 07 28	691	0.4−	0.4+	1997 09 05	684	0.1+	0.3−	2000 03 05	704	0.1+	0.5−
1997 07 31	691	0.9−	0.6+	1997 09 05	684	0.4+	0.4−	2000 03 05	704	0.0	0.4−
1997 07 31	691	1.1−	0.7+	1998 11 13	910	0.9+	0.5+	2000 03 05	704	0.1−	0.6−
1997 07 31	691	0.8−	0.6+	1998 11 13	910	0.6+	0.6+	2000 03 12	704	0.5−	0.7+
1997 08 07	118	0.5−	0.8+	1998 11 13	910	0.9+	0.4+	2000 03 12	704	0.2+	0.0
1997 08 07	118	0.7−	1.0−	1998 11 24	704	0.2−	0.8−	2000 03 12	704	0.0	1.0+
1997 08 08	118	0.7−	0.0	1998 11 24	704	0.7−	1.3−	2000 03 12	704	1.0+	1.5+
1997 08 08	118	0.4+	0.0	1998 11 24	704	0.9−	0.2+				

(14095)* 1997 PE₂ = 1993 TQ₁₃

Discovered 1997 Aug. 7 by K. A. Williams at Lake Clear.

Id. G. V. Williams (*MPC* 30677)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	206.46078		(2000.0)	P	Q
n	0.23350401	ω	184.43053	+0.84375330	+0.50193683
a	2.6117994	Ω	143.36539	−0.48213358	+0.86443219
e	0.3093740	i	18.57757	−0.23585500	+0.02857297
P	4.22	H	13.2	G 0.15	U 2

Residuals in seconds of arc

1993 10 09	675	1.1+	0.1+	1997 09 02	824	0.0	0.2−	2000 02 29	704	0.3+	0.3+
1993 10 09	675	0.1−	0.4−	1997 09 02	824	0.1−	0.0	2000 02 29	704	0.2+	0.1+
1993 10 14	675	0.3−	0.1+	1997 09 19	824	0.2−	0.4+	2000 02 29	704	0.0	0.4+
1993 10 14	675	0.7−	0.1+	1997 09 19	824	0.1−	0.5+	2000 02 29	704	0.4+	0.2−
1997 08 03	566	0.4−	0.1−	1997 09 19	824	0.2−	0.3+	2000 02 29	704	0.3−	0.3+
1997 08 03	566	0.3−	0.4−	1999 01 20	704	0.5+	1.6+	2000 03 05	704	0.3−	0.4−
1997 08 03	566	0.0	0.7−	1999 01 20	704	0.1−	0.5+	2000 03 05	704	0.3−	0.3+
1997 08 07	824	0.5+	0.0	1999 01 20	704	0.5−	0.1−	2000 03 05	704	0.1−	0.2+
1997 08 07	824	0.5+	0.6+	1999 01 20	704	0.2+	0.5−	2000 03 05	704	0.6+	1.0+
1997 08 07	824	0.2−	0.2−	1999 12 05	704	1.5−	0.0	2000 03 05	704	0.5+	0.2+
1997 08 09	824	0.4+	0.1−	1999 12 05	704	0.5−	0.4+	2000 03 09	704	0.4−	0.2−
1997 08 09	824	0.5+	0.5−	1999 12 05	704	0.6+	0.8+	2000 03 09	704	0.0	0.3−
1997 08 09	824	0.2−	0.0	2000 01 07	704	0.9−	0.6+	2000 03 09	704	0.1−	0.0
1997 08 10	824	0.7−	0.4−	2000 01 07	704	0.4−	0.6−	2000 03 09	704	0.2+	0.2+
1997 08 10	824	(2.8− 0.1+)		2000 01 07	704	0.0	0.2−	2000 03 09	704	0.2−	0.3−
1997 08 10	824	1.1−	1.3+	2000 01 07	704	0.1+	0.1−	2000 03 09	704	0.2−	0.0
1997 08 15	824	0.2−	0.9+	2000 02 04	704	0.1+	0.2−	2000 03 09	704	0.1+	0.1−
1997 08 15	824	0.1−	0.7+	2000 02 04	704	0.3+	0.5+	2000 03 09	704	0.0	0.1+
1997 08 15	824	0.0	0.5+	2000 02 04	704	0.6+	1.2−	2000 03 09	704	0.2−	0.7−
1997 08 25	824	0.2+	0.4+	2000 02 04	704	0.9+	0.2+	2000 03 09	704	0.1−	0.1+
1997 08 25	824	0.4+	0.2+	2000 02 04	704	0.1−	0.5−	2000 03 12	704	0.5−	0.4+
1997 08 25	824	0.4+	0.3−	2000 02 11	704	0.1+	0.0	2000 03 12	704	0.1−	0.2−
1997 08 26	824	0.1+	0.3+	2000 02 11	704	0.1−	0.5−	2000 03 12	704	0.1−	0.6+
1997 08 26	824	0.3+	0.2−	2000 02 11	704	0.1+	0.1+	2000 03 12	704	0.1+	0.0
1997 08 26	824	0.5+	0.6−	2000 02 11	704	0.6+	0.2+	2000 03 12	704	0.1−	0.3+
1997 09 02	824	0.2+	0.1−	2000 02 11	704	0.4+	0.2+				

(14096)* 1997 PC₄ = 1996 EL₁₆

Discovered 1997 Aug. 4 by H. Mikuz at Crni Vrh.

Id. G. V. Williams (*MPC* 30678)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

$\dot{M}$	226.40963		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.23438103	ω	142.68036	+0.57685842	+0.81636498
a	2.6052800	Ω	162.49410	−0.77008000	+0.55493587
e	0.2339043	i	5.33622	−0.27241726	+0.15998251
P	4.21	H	14.4	G 0.15	U 1

Residuals in seconds of arc

1971 04 16	675	0.8+	0.5−	1997 09 08	106	0.5+	0.5+	2000 03 03	704	0.0	0.2+
1971 04 16	675	0.6−	0.2+	1997 09 08	106	0.4+	0.4+	2000 03 03	704	1.4+	0.4+
1992 04 26	691	0.9−	1.2−	1997 09 21	106	0.8+	0.2+	2000 03 03	704	0.2−	0.5+
1992 04 26	691	0.9−	0.5−	1997 09 21	106	0.3+	0.2+	2000 03 03	704	0.3+	0.7+
1992 04 26	691	0.6−	1.3−	1998 12 15	106	0.6−	0.4−	2000 03 04	704	0.3+	0.4+
1996 03 11	691	0.0	0.2−	1998 12 16	106	0.3−	1.0−	2000 03 04	704	0.0	0.8+
1996 03 11	691	0.1+	0.4−	1998 12 16	106	0.5−	0.3−	2000 03 04	704	0.2+	0.0
1996 03 11	691	0.1−	0.3−	1998 12 16	106	0.5+	0.3−	2000 03 04	704	0.5+	0.2−
1996 03 19	566	0.3+	0.1−	2000 02 02	704	0.5+	0.1+	2000 03 04	704	0.1+	0.1−
1996 03 19	566	0.6−	0.4−	2000 02 02	704	0.0	0.4+	2000 03 05	704	0.5+	1.2+
1996 03 19	566	0.1−	0.0	2000 02 02	704	0.4−	0.3−	2000 03 05	704	0.2+	0.4+
1997 08 04	106	0.0	0.4−	2000 02 02	704	0.4−	0.6+	2000 03 05	704	0.1+	0.4+
1997 08 04	106	0.0	0.3−	2000 02 02	704	0.1+	1.1+	2000 03 05	704	0.0	0.3+
1997 08 12	106	0.8−	0.3+	2000 02 25	703	0.5−	1.0+	2000 03 05	704	0.7+	0.5+
1997 08 12	106	1.0−	0.2+	2000 02 25	703	0.3−	0.9+	2000 03 11	704	1.1+	0.2−
1997 08 22	106	0.7−	0.1+	2000 02 25	703	0.0	0.2+	2000 03 11	704	0.1+	0.1−
1997 08 22	106	0.1−	0.0	2000 02 25	703	0.4−	0.5+	2000 03 11	704	0.8+	0.6−
1997 08 30	566	0.1−	1.0+	2000 02 29	704	0.3−	0.8+	2000 03 11	704	0.5+	1.1−
1997 08 30	566	0.0	1.1+	2000 02 29	704	0.2+	0.9+	2000 03 11	699	0.2−	0.9+
1997 08 30	566	0.0	1.6+	2000 02 29	704	0.7−	0.6+	2000 03 11	699	0.3+	0.1+
1997 09 03	106	0.1+	0.4+	2000 02 29	704	0.7+	0.3+	2000 03 11	699	0.1−	0.1−
1997 09 03	106	0.1+	0.3+	2000 02 29	704	0.2−	0.1+	2000 03 11	699	0.1−	0.2+

(14097)* 1997 PU₄ = 1993 TG₄₈ = 1995 CW₁₀

Discovered 1997 Aug. 11 by À. López and R. Pacheco at Observatorio

Astronómico de Mallorca.

Id. G. V. Williams (*MPC* 30769)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	167.70982		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.21441398	ω	70.65616	+0.99760161	−0.01069913		
a	2.7646107	Ω	289.90960	−0.01901942	+0.90758012		
e	0.0578877	i	4.17095	+0.06655296	+0.41974260		
P	4.60	H	14.1	G	0.15	U	1

Residuals in seconds of arc

1993 10 13	691	0.1+	0.2−	1998 12 09	620	0.2−	0.5+	2000 02 24	620	0.4+	1.5+
1993 10 13	691	0.2+	0.2−	1998 12 09	620	0.2−	0.4+	2000 02 24	620	0.6+	0.0
1993 10 13	691	0.2+	0.1−	1998 12 09	620	0.0	0.4+	2000 02 24	620	0.9+	0.9−
1995 02 08	691	0.1−	0.1+	1998 12 11	620	0.4+	0.0	2000 03 01	703	0.2−	0.3−
1995 02 08	691	0.3−	0.4−	1998 12 12	620	0.1+	0.2−	2000 03 01	703	0.2−	1.1+
1997 08 11	620	0.2−	0.8+	1998 12 12	620	0.0	0.4−	2000 03 01	703	0.2+	1.3+
1997 08 12	620	0.4+	0.5+	1998 12 14	704	0.8−	0.4−	2000 03 01	703	0.2−	0.8+
1997 08 13	620	0.7−	1.3+	1998 12 14	704	0.0	1.7+	2000 03 08	704	0.2+	0.6+
1997 08 14	620	0.2+	0.7+	1998 12 14	704	0.8−	0.8+	2000 03 08	704	1.9+	0.5−
1997 08 14	620	0.8+	0.3+	1998 12 14	704	0.2−	0.2+	2000 03 08	704	1.4+	0.4+
1997 08 25	620	1.1−	0.3−	1998 12 14	704	0.2−	0.3−	2000 03 08	704	0.8−	0.1+
1997 08 25	620	0.7−	1.0+	1998 12 16	704	0.2+	1.5−	2000 03 08	704	0.3+	0.1+
1997 08 25	620	0.6−	1.2+	1998 12 16	704	0.2+	0.8+	2000 03 11	620	0.5−	0.6+
1997 09 02	566	0.2+	0.5+	1998 12 16	704	(1.7+	2.7+)	2000 03 11	620	0.4−	0.2+
1997 09 02	566	0.0	0.1+	1998 12 16	704	1.2+	1.7+	2000 03 11	620	0.1−	0.1−
1997 09 02	566	0.1−	0.0	1998 12 17	704	0.4+	0.9−	2000 03 13	704	0.0	0.5+
1997 09 22	620	0.2−	0.2−	1998 12 17	704	0.3+	1.0−	2000 03 13	704	0.2−	0.2+
1997 09 22	620	1.1−	0.9+	1998 12 17	704	(0.1−	3.3−)	2000 03 13	704	1.3−	0.5+
1997 09 22	620	(2.4−	2.9+)	1998 12 17	704	0.9+	0.0	2000 03 14	608	(0.7−	2.6−)
1998 11 21	620	0.5−	1.4+	2000 02 08	704	0.6+	0.5−	2000 03 14	608	0.5−	1.1−
1998 11 21	620	0.4+	0.0	2000 02 08	704	0.5+	0.5+	2000 03 14	608	(0.1+	2.9−)

2000 MAR. 20

M.P.C. 39079

1998 11 21 620 0.4- 0.3- 2000 02 08 704 0.7+ 0.9+
 1998 12 09 620 0.3- 0.6+ 2000 02 08 704 0.3+ 0.7+

(14098)* 1997 QS = 1978 VV₁₀ = 1982 QS = 1996 KL₆

Discovered 1997 Aug. 24 at the Astronomical and Geophysical Observatory,
 Modra.

Id. G. V. Williams (*MPC* 30678)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	194.43720	(2000.0)	P	Q	
<i>n</i>	0.19610402	ω	279.05497	+0.63609057	+0.77129784
<i>a</i>	2.9341234	Ω	30.48127	-0.68972626	+0.58119241
<i>e</i>	0.0813067	<i>i</i>	2.49710	-0.34592843	+0.25945140
<i>P</i>	5.03	<i>H</i>	14.3	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1978 11 05	675	0.5-	0.1+	1997 09 01	684	0.2-	0.4+	1997 09 24	118	(3.0-	0.4-)
1978 11 06	675	1.9+	0.7+	1997 09 01	684	0.1+	0.4+	1997 09 24	118	(2.0-	0.2-)
1978 11 07	675	1.6-	0.2+	1997 09 01	118	0.6+	0.1-	1997 09 24	118	0.4-	1.6-
1978 11 08	675	0.8-	0.3+	1997 09 01	118	0.6+	0.5-	1998 11 24	704	0.1-	0.4-
1982 08 17	801	0.7+	0.3-	1997 09 01	118	0.7+	0.3+	1998 11 24	704	0.3+	0.8+
1982 08 18	801	(6.0+	4.2+)	1997 09 02	566	0.2+	0.1-	1998 11 24	704	2.0+	0.9-
1996 04 17	809	(2.7-	1.6-)	1997 09 02	566	0.1+	0.2+	1998 11 24	704	1.2+	0.6+
1996 04 17	809	0.0	1.6-	1997 09 02	566	0.3+	0.1-	2000 01 30	704	0.5+	0.2-
1996 04 17	809	(1.0-	3.0-)	1997 09 02	118	0.0	0.2-	2000 01 30	704	0.0	0.4-
1996 05 19	809	0.6+	0.5-	1997 09 02	118	0.0	0.2-	2000 01 30	704	0.6-	1.1-
1996 05 19	809	1.3+	0.1-	1997 09 03	118	0.9+	0.9-	2000 02 02	118	0.3-	0.6-
1996 05 19	809	1.3+	0.4-	1997 09 03	118	0.9+	0.4-	2000 02 02	118	0.4-	0.5-
1996 05 22	809	(0.2-	2.3+)	1997 09 04	118	0.5+	0.1-	2000 02 02	118	0.2-	0.1-
1996 05 22	809	(1.8-	2.0+)	1997 09 04	118	0.1-	0.0	2000 02 06	118	0.2+	0.1-
1996 05 22	809	1.4-	1.0+	1997 09 04	118	1.5+	0.4-	2000 02 06	118	0.0	0.5-
1997 07 28	691	1.3-	0.9+	1997 09 05	684	0.0	0.2+	2000 02 11	704	0.0	0.9+
1997 07 28	691	1.2-	0.8+	1997 09 05	684	0.0	0.4+	2000 02 11	704	0.2+	0.4+
1997 07 28	691	1.3-	0.5+	1997 09 05	684	0.1-	0.2+	2000 02 11	704	0.8-	0.1-
1997 08 24	118	0.2+	0.0	1997 09 07	118	0.1-	1.9-	2000 02 11	704	0.1-	0.6+
1997 08 24	118	0.5+	0.5+	1997 09 07	118	0.2+	1.1-	2000 02 28	704	0.2-	1.6-
1997 08 24	118	0.2+	0.6-	1997 09 08	118	0.3-	0.8-	2000 02 28	704	0.0	0.4+
1997 08 26	118	(2.9+	2.4+)	1997 09 08	118	0.7-	0.7-	2000 02 28	704	0.1+	1.2+
1997 08 26	118	(2.5+	2.6+)	1997 09 08	118	0.0	0.2-	2000 02 28	704	0.4-	0.1-
1997 08 28	118	0.3+	0.4+	1997 09 20	118	0.9-	0.2+	2000 02 28	704	0.8-	0.5+
1997 08 28	118	0.0	0.1+	1997 09 20	118	1.1-	0.1-	2000 03 04	118	0.3-	1.3-
1997 09 01	684	0.1+	0.6+	1997 09 20	118	1.7-	0.2-	2000 03 04	118	1.1-	0.6-

(14099)* 1997 RQ₃ = 1980 RB₂ = 1991 PX₁₆

Discovered 1997 Sept. 5 by Y. Shimizu and T. Urata at the Nachi-Katsuura
 Observatory.

Id. T. Urata (*MPC* 30681)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Nakano			
<i>M</i>	181.54614	(2000.0)	P	Q	
<i>n</i>	0.17430519	ω	194.78599	+0.85405053	+0.51929007
<i>a</i>	3.1739190	Ω	133.88727	-0.47285330	+0.79949638
<i>e</i>	0.1842807	<i>i</i>	2.43232	-0.21681201	+0.30189960
<i>P</i>	5.65	<i>H</i>	13.0	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1980 09 15	511	0.5+	0.7+	1998 12 15	704	0.4+	0.5+	2000 03 04	704	0.3+	0.5+
1980 09 15	511	0.0	0.5+	1998 12 22	888	0.4-	0.0	2000 03 04	704	0.2+	0.0
1980 09 15	511	0.3-	0.0	1998 12 22	888	0.5-	0.1-	2000 03 04	704	0.3+	0.1-
1991 08 06	809	0.9-	0.2+	2000 02 04	704	1.0+	0.6+	2000 03 04	691	0.2-	0.0
1991 08 06	809	1.2-	0.1-	2000 02 04	704	0.1-	0.3+	2000 03 04	704	0.1+	0.2-
1991 08 06	809	0.9-	0.1+	2000 02 04	704	0.5+	2.1+	2000 03 04	691	0.0	0.1+
1991 08 10	675	0.2-	0.1+	2000 02 04	704	0.5+	0.2+	2000 03 04	691	0.1+	0.3-
1991 08 10	675	0.9+	0.6+	2000 02 04	704	0.1+	0.8+	2000 03 05	704	(2.6+	0.9-)
1996 06 14	566	0.5+	0.8+	2000 02 04	120	0.2-	0.3+	2000 03 05	704	1.1-	0.0
1996 06 14	566	0.6+	0.6+	2000 02 04	120	0.6-	0.8+	2000 03 05	704	0.2+	0.2-
1996 06 14	566	0.4+	0.7+	2000 02 06	120	1.3-	0.0	2000 03 05	704	0.2-	0.3+

1997 09 04	905	1.5+	0.1+	2000 02 06	120	1.4-	0.8+	2000 03 06	704	0.7+	0.3+
1997 09 04	905	0.1+	0.7-	2000 02 25	703	0.5-	1.4+	2000 03 06	704	0.7+	0.3-
1997 09 05	905	0.4-	1.3+	2000 02 25	703	1.1-	0.3+	2000 03 06	704	0.7+	0.5-
1997 09 05	905	0.3-	0.6+	2000 02 25	703	(0.8-	3.8+)	2000 03 06	704	0.3+	0.5-
1997 09 09	905	(2.3-	0.1-)	2000 02 25	703	(0.1-	2.5+)	2000 03 06	704	1.0+	0.3+
1997 09 09	905	0.4-	0.3+	2000 02 29	704	0.2+	0.4-	2000 03 09	704	1.4+	1.3+
1997 09 11	385	0.5+	0.3+	2000 02 29	704	0.0	0.5-	2000 03 09	704	0.3-	0.4+
1997 09 11	385	0.4+	0.5+	2000 02 29	704	0.0	0.3-	2000 03 09	704	0.6+	0.4+
1997 09 11	385	0.5+	0.5+	2000 02 29	704	0.2-	0.9-	2000 03 09	704	0.5+	0.0
1997 09 29	905	0.7-	0.3-	2000 02 29	704	0.3+	0.5-	2000 03 09	704	0.5+	0.8+
1997 09 29	905	0.6+	0.2+	2000 03 02	691	0.3-	0.1-	2000 03 11	704	0.9-	0.1-
1997 09 30	905	1.0-	0.3-	2000 03 02	691	0.3-	0.6-	2000 03 11	704	0.5+	0.2-
1997 09 30	905	0.6-	0.4-	2000 03 02	691	0.3-	0.2-	2000 03 11	704	0.3+	0.2+
1997 10 06	905	0.0	0.4-	2000 03 03	704	0.6+	0.3-	2000 03 11	704	0.0	0.7-
1997 10 06	905	0.1-	0.7+	2000 03 03	704	0.0	0.2+	2000 03 11	704	0.7-	0.1-
1998 12 15	704	0.4+	1.9-	2000 03 03	704	0.3-	0.0	2000 03 12	691	0.3-	0.3-
1998 12 15	704	0.1+	0.6-	2000 03 03	704	0.2+	0.2+	2000 03 12	691	0.3-	0.2-
1998 12 15	704	1.6+	1.5+	2000 03 03	704	0.1+	0.5+	2000 03 12	691	0.2-	0.3-
1998 12 15	704	1.2-	1.0+	2000 03 04	704	0.0	0.3+				

(14100)* 1997 RQ₅

Discovered 1997 Sept. 8 by P. G. Comba at Prescott.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	300.74446	(2000.0)	P	Q	
<i>n</i>	0.17825585	ω	39.32603	-0.64740076	+0.76214763
<i>a</i>	3.1268486	Ω	190.32848	-0.70176836	-0.59703118
<i>e</i>	0.0952909	<i>i</i>	0.57597	-0.29731033	-0.25036926
<i>P</i>	5.53	<i>H</i>	13.3	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1991 09 10	691	0.3-	0.7+	1997 11 24	684	0.2-	0.2+	2000 02 29	704	0.1+	0.3-
1991 09 10	691	0.2-	0.7+	1998 11 15	684	0.0	0.1-	2000 02 29	704	0.4+	0.0
1991 09 10	691	0.3-	0.6+	1998 11 15	684	0.4+	1.5-	2000 02 29	704	0.1+	0.1-
1997 09 08	684	0.0	0.0	1998 11 16	684	1.3-	0.1+	2000 03 03	704	0.5+	0.1+
1997 09 08	684	0.2+	0.1-	1998 11 16	684	0.9-	0.3-	2000 03 03	704	0.6+	0.2+
1997 09 09	684	0.1-	0.2-	1998 12 14	684	0.4-	0.5-	2000 03 03	704	0.3+	0.2+
1997 09 09	684	0.0	0.2-	1998 12 14	684	0.1-	0.5-	2000 03 03	704	0.0	0.1+
1997 09 09	684	0.1-	0.1-	1998 12 14	684	0.4-	0.5-	2000 03 03	704	0.6+	0.6+
1997 09 23	684	0.3-	0.1+	1998 12 14	684	0.1-	0.6-	2000 03 03	608	0.3-	0.1+
1997 09 23	684	0.1-	0.3+	1998 12 16	704	2.0+	0.2+	2000 03 03	608	0.1-	0.7-
1997 09 24	684	0.1-	0.1+	1998 12 16	704	1.4+	0.0	2000 03 03	608	0.2-	0.6-
1997 09 24	684	0.2+	0.0	1998 12 16	684	0.0	0.5-	2000 03 04	704	0.2+	0.3+
1997 09 28	684	0.4+	0.1-	1998 12 16	684	0.1+	0.4-	2000 03 04	704	0.8+	0.1+
1997 09 28	684	0.7+	0.0	1998 12 16	704	(3.2+	2.1-)	2000 03 04	704	0.0	0.3+
1997 09 29	684	0.0	0.4-	1998 12 16	704	0.5+	0.7+	2000 03 04	704	0.1+	0.6+
1997 09 29	684	0.1-	0.1-	1998 12 22	704	0.4+	0.3+	2000 03 04	704	0.5+	0.3+
1997 09 29	684	0.3-	0.1-	1998 12 22	704	0.0	1.1+	2000 03 05	704	0.1+	0.6+
1997 10 20	684	0.2+	0.9+	1998 12 22	704	0.3+	1.6+	2000 03 05	704	0.6+	0.5+
1997 10 20	684	0.2+	0.5+	1998 12 22	704	0.8+	0.8-	2000 03 05	704	0.1+	0.4+
1997 10 20	684	0.0	0.2-	1999 01 07	684	0.4-	0.2-	2000 03 05	704	0.2+	0.5+
1997 10 21	684	0.2+	0.6+	1999 01 07	684	0.7-	0.2-	2000 03 05	704	0.5+	0.4+
1997 10 21	684	0.8+	0.1-	1999 01 08	684	1.8-	0.0	2000 03 09	704	0.1-	0.1+
1997 10 21	684	0.4+	0.4+	1999 01 08	684	0.1+	0.1+	2000 03 09	704	0.4+	0.4+
1997 10 28	684	0.2-	0.1-	2000 02 05	704	0.0	0.7+	2000 03 09	70		

(14101)* 1997 SD₁ = 1996 KY₆

Discovered 1997 Sept. 19 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 30772)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	314.64162	ω	3.50523	−0.67591624	+0.72365050		
<i>a</i>	2.6487070	Ω	224.03664	−0.68095228	−0.68564211		
<i>e</i>	0.1367594	<i>i</i>	11.57913	−0.28185321	−0.07889768		
<i>P</i>	4.31	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1996 05 16	566	(3.0− 0.3−)	1997 09 29	327	0.1− 0.3+	2000 01 11	704 1.0+ 0.3+
1996 05 16	566	(3.0− 0.3−)	1997 09 29	327	0.2+ 0.3+	2000 01 11	704 0.8+ 0.6+
1996 05 16	566	(3.1− 0.6−)	1997 09 29	327	0.2− 0.3+	2000 01 11	704 1.5+ 0.9+
1996 05 19	809	0.1− 1.2−	1998 12 15	704	0.2+ 0.3+	2000 01 11	704 0.3+ 1.2+
1996 05 19	809	0.1+ 1.0−	1998 12 15	704	1.4− 0.7−	2000 03 05	850 1.0− 0.2−
1996 05 19	809	0.4− 0.8−	1998 12 15	704	0.2+ 0.1−	2000 03 05	850 1.3− 0.4−
1996 05 22	809	0.4+ 1.6+	1998 12 15	704	1.1− 1.8+	2000 03 06	850 1.2− 0.0
1996 05 22	809	0.5+ 1.9+	1998 12 16	699	0.4− 0.4+	2000 03 06	850 1.2− 0.2−
1996 05 22	809	0.2− 1.6+	1998 12 16	699	0.5− 0.3−	2000 03 09	704 0.2+ 0.3+
1997 09 19	327	0.0 0.4+	1998 12 16	699	0.8− 0.5+	2000 03 09	704 0.1− 0.1+
1997 09 19	327	0.2+ 0.6−	1999 01 07	704	1.5+ 0.4+	2000 03 09	704 0.2− 0.2+
1997 09 19	327	0.2− 0.0	1999 01 07	704	1.5+ 1.2+	2000 03 09	704 0.2+ 0.2−
1997 09 19	327	0.2+ 0.0	1999 01 07	704	0.9+ 1.9−	2000 03 09	704 0.1+ 0.0
1997 09 20	327	0.3− 0.2+	2000 01 10	704	0.8− 0.6−	2000 03 13	704 1.1+ 0.9−
1997 09 20	327	0.0 0.2+	2000 01 10	704	0.4− 0.6−	2000 03 13	704 0.5+ 0.4+
1997 09 20	327	0.2− 0.0	2000 01 10	704	0.8+ 1.1−	2000 03 13	704 0.2+ 0.3+
1997 09 20	327	0.2+ 0.2+	2000 01 11	704	0.7+ 0.6+		

(14102)* 1997 SG₂₅ = 1985 GJ = 1998 YAs

Discovered 1997 Sept. 29 by Y. Shimizu and T. Urata at the Nachi- Katsuura Observatory.

Id. S. Nakano (*MPC* 33506), T. Kagawa (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	313.93206	ω	197.22487	−0.07088059	+0.99625455		
<i>a</i>	2.4054152	Ω	68.73296	−0.90880050	−0.04403289		
<i>e</i>	0.1845256	<i>i</i>	3.04643	−0.41116613	−0.07441760		
<i>P</i>	3.73	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1985 04 14	688	0.4− 1.2−	1998 12 17	704	(4.4− 1.6−)	2000 02 10	704 0.1+ 0.0
1985 04 14	688	0.2− 0.4−	1998 12 22	888	0.0 0.2−	2000 03 03	703 0.1+ 0.2−
1997 09 29	905	0.3− 1.0−	1998 12 22	888	0.3− 0.6+	2000 03 03	703 0.1− 0.1+
1997 09 29	905	0.8− 0.0	1998 12 24	888	0.6− 0.2+	2000 03 03	703 0.4+ 0.3+
1997 09 29	905	0.2− 0.4+	1998 12 24	888	0.2− 0.5+	2000 03 03	703 0.1− 0.0
1997 09 30	905	0.2− 0.3−	1999 01 19	704	1.5+ 1.0−	2000 03 04	703 0.3− 0.1+
1997 09 30	905	0.4+ 0.3+	1999 01 19	704	0.0 1.7+	2000 03 04	703 0.3+ 0.1−
1997 10 05	905	1.0+ 0.2−	1999 01 19	704	0.5+ 0.1+	2000 03 04	703 0.4− 0.4+
1997 10 05	905	0.5− 0.6−	1999 01 19	704	1.0+ 0.5−	2000 03 04	703 0.0 0.4+
1997 10 25	385	(0.6− 3.0+)	1999 01 21	888	0.5+ 0.0	2000 03 05	120 0.2− 0.6+
1997 10 25	385	0.0 0.0	1999 01 21	888	0.2− 0.2+	2000 03 05	120 0.2+ 0.4−
1997 12 05	385	0.2+ 1.5+	2000 01 06	699	0.9− 0.5−	2000 03 14	704 0.2− 0.3+
1997 12 05	385	1.2+ 0.3−	2000 01 06	699	0.9+ 0.5−	2000 03 14	704 0.0 0.1+
1998 12 17	704	1.3− 0.5−	2000 01 06	699	1.3− 0.7−	2000 03 14	704 0.2+ 0.3+
1998 12 17	704	1.7− 0.5+	2000 02 10	704	0.4− 0.3+	2000 03 14	704 0.1+ 0.6+
1998 12 17	704	0.5+ 1.4−	2000 02 10	704	1.4+ 0.3−	2000 03 14	704 0.3+ 0.2+

(14103)* 1997 TC

Discovered 1997 Oct. 1 by P. Sicoli and A. Testa at Sormano.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	234.49683	ω	263.08874	+0.25061985	+0.96799005		
<i>a</i>	2.9375951	Ω	21.44032	−0.87286254	+0.23202172		
<i>e</i>	0.0756922	<i>i</i>	2.13221	−0.41868925	+0.09571407		
<i>P</i>	5.03	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1993 08 18	691	0.3+ 0.1−	1998 11 15	587	0.2+ 0.3−	2000 02 25	703 0.4− 0.4+
1993 08 18	691	0.9− 1.6+	1998 11 15	587	0.0 0.5+	2000 02 28	704 0.5+ 0.3+
1993 08 18	691	0.4+ 0.3+	1998 11 18	587	0.3+ 0.1−	2000 02 28	704 0.7+ 0.5+
1995 02 22	033	0.1− 0.6−	1998 11 18	587	0.2+ 0.3+	2000 02 28	704 0.3+ 0.7+
1995 02 23	033	0.5− 0.7−	1998 12 07	596	1.7− 0.5−	2000 02 28	704 0.3+ 0.9+
1997 08 10	327	0.1+ 0.1−	1998 12 07	596	0.8+ 0.3−	2000 02 29	704 0.6+ 0.6+
1997 08 10	327	0.1− 0.5−	1998 12 07	596	0.3− 0.8+	2000 02 29	704 0.0 0.0
1997 08 10	327	0.1− 0.3−	1998 12 07	596	1.7− 0.8−	2000 02 29	704 0.6+ 0.5+
1997 10 01	587	(0.4− 2.4+)	1998 12 07	596	(2.9− 0.5+)	2000 02 29	704 1.1+ 0.4−
1997 10 01	587	0.7− 1.4+	1998 12 08	587	0.0 0.7−	2000 02 29	704 0.5− 0.8+
1997 10 01	587	0.4− 0.7+	1998 12 08	587	0.3− 1.1−	2000 03 03	704 0.3− 0.7+
1997 10 02	587	0.2− 0.9+	1998 12 08	587	1.1− 0.8−	2000 03 03	704 0.2− 0.5+
1997 10 02	587	0.1− 0.6+	1998 12 14	704	0.2− 1.8−	2000 03 03	704 0.3− 0.7+
1997 10 04	587	1.0− 1.1+	1998 12 14	704	(2.5+ 2.5−)	2000 03 03	704 0.1− 0.2+
1997 10 04	587	0.0 1.8+	1998 12 14	704	1.7+ 0.5−	2000 03 03	704 0.4− 0.5+
1997 10 04	587	0.5− 1.4+	1998 12 14	704	(0.8+ 2.9−)	2000 03 04	704 0.3+ 0.7+
1997 10 06	691	1.1+ 1.7+	1998 12 17	704	0.6+ 1.3−	2000 03 04	704 0.0 0.3+
1997 10 06	691	0.6− 0.8+	1998 12 17	704	1.2+ 0.4+	2000 03 04	704 0.5+ 0.9+
1997 10 06	691	0.8− 0.9+	1998 12 17	704	0.8+ 1.0−	2000 03 04	704 0.3+ 0.3+
1997 10 08	587	0.5− 1.0+	1998 12 17	704	0.4+ 0.4−	2000 03 04	704 0.2+ 0.4+
1997 10 08	587	0.3− 0.2+	1998 12 17	704	0.6+ 1.7−	2000 03 05	704 0.3+ 0.2+
1997 10 10	587	0.4+ 0.0	2000 02 04	704	0.6+ 0.0	2000 03 05	704 0.2+ 0.3+
1997 10 10	587	1.1− 1.0+	2000 02 04	704	0.7+ 0.2+	2000 03 05	704 0.0 0.1+
1997 10 21	691	0.4− 0.7+	2000 02 04	704	0.9+ 1.7+	2000 03 05	704 0.2− 0.7+
1997 10 21	691	0.3− 0.6+	2000 02 04	704	0.0 0.8+	2000 03 05	704 0.2+ 1.1+
1997 10 21	691	0.8+ 0.5+	2000 02 04	704	0.9− 0.1+	2000 03 11	704 0.2− 0.0
1997 10 24	587	1.4− 0.2+	2000 02 11	704	0.2− 0.3−	2000 03 11	704 0.0 0.0
1997 10 24	587	0.3− 0.7+	2000 02 11	704	0.6+ 0.1+	2000 03 11	704 0.3+ 0.3−
1997 10 25	587	0.3− 1.4−	2000 02 11	704	0.1+ 0.5+	2000 03 11	704 0.4+ 0.2+
1997 10 25	587	0.0 0.2−	2000 02 11	704	0.4+ 0.2+	2000 03 11	704 0.3+ 0.2−
1997 11 18	587	0.8+ 0.9+	2000 02 11	704	0.2+ 0.6+	2000 03 11	699 0.2− 0.4+
1997 11 23	587	0.0 0.5+	2000 02 25	703	0.4+ 0.6+	2000 03 11	699 0.2+ 0.7+
1997 11 23	587	1.4− 0.4+	2000 02 25	703	0.1+ 0.3+	2000 03 11	699 0.3− 0.4+
1997 11 23	587	0.8− 1.3+	2000 02 25	703	0.3+ 0.2+	2000 03 11	699 0.0 0.3+

(14104)* 1997 TV = 1986 VP₃

Discovered 1997 Oct. 2 by V. Giuliani at Sormano.

Id. G. V. Williams (*MPC* 33506)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	256.75457	ω	266.48394	−0.07427053	+0.99723599		
<i>a</i>	3.1613259	Ω	359.24736	−0.84102072	−0.06375016		
<i>e</i>	0.0608358	<i>i</i>	9.05708	−0.53588062	−0.03816157		
<i>P</i>	5.62	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1986 11 04	010	(7.7− 1.1+)	1998 12 14	704	0.9+ 1.0−	2000 02 11	704 1.3+ 1.2+
1986 11 04	010	0.8− 2.5+	1998 12 14	704	0.8− 1.6−	2000 02 11	704 0.9− 0.9−
1991 09 08	691	0.5− 0.4+	1998 12 14	704	(0.6− 3.5−)	2000 02 11	704 0.5+ 0.1+
1991 09 08	691	0.5− 0.2+	1998 12 17	704	0.5− 1.2−	2000 02 11	704 0.4− 0.5−
1991 09 08	691	0.4− 0.4+	1998 12 17	704	0.4+ 1.1−	2000 02 11	704 0.8+ 0.1+
1997 10 02	587	1.3− 1.4+	1998 12 17	704	1.4+ 0.8−	2000 02 11	704 0.5− 1.6−
1997 10 02	587	(0.7− 3.4+)	1998 12 17	704	0.5+ 0.4−	2000 02 11	704 0.0 0.1+
1997 10 04	587	0.1+ 0.9+	2000 02 01	703	0.4− 0.0	2000 02 11	704 0.2− 2.0−
1997 10 04	587	0.1+ 0.2+	2000 02 01	703	0.9+ 0.1−	2000 02 25	703 0.1− 0.2−
1997 10 04	589	0.5− 0.2+	2000 02 01	703	0.2+ 0.6+	2000 02 25	703 0.3− 0.3+
1997 10 04	589	0.6+ 1.0+	2000 02 01	703	0.9− 0.6+	2000 02 25	703 0.9− 1.2−
1997 10 04	589	(4.9+ 0.5+)	2000 02 04	704	0.0 0.3+	2000 02 25	703 0.3+ 0.6−

2000 MAR. 20

M.P.C. 39081

1997 10 08	587	0.3+	0.8+	2000 02 04	704	0.5-	0.5-	2000 03 05	704	0.9+	0.4+
1997 10 08	587	0.1-	0.8+	2000 02 04	704	0.4+	0.2+	2000 03 05	704	0.6+	0.3+
1997 10 10	587	0.0	0.1-	2000 02 04	704	0.1+	0.6-	2000 03 05	704	0.7+	0.4+
1997 10 10	587	0.2+	0.2+	2000 02 06	704	1.1+	0.6-	2000 03 05	704	1.4+	1.1+
1997 10 25	587	0.6-	1.3-	2000 02 06	704	0.6-	1.0+	2000 03 05	704	0.9+	0.3-
1997 10 25	587	0.6-	1.1-	2000 02 06	704	0.5-	0.4+	2000 03 11	699	0.5-	1.4+
1997 10 25	587	0.7-	0.4-	2000 02 06	704	0.5-	1.4+	2000 03 11	699	0.8-	0.1-
1997 10 26	587	0.9+	0.4+	2000 02 08	704	0.1+	0.4-	2000 03 11	699	0.3-	0.2+
1997 10 26	587	0.2-	0.3+	2000 02 08	704	1.0+	1.2+	2000 03 11	699	1.7-	0.5+
1997 10 26	587	0.0	0.7-	2000 02 08	704	0.6+	1.2+	2000 03 12	704	0.3-	0.7+
1997 12 01	587	0.7+	0.5+	2000 02 08	704	(1.1-	2.3+)	2000 03 12	704	0.9+	0.2-
1997 12 01	587	0.5+	0.0	2000 02 10	704	0.2+	0.1-	2000 03 12	704	0.4+	0.6+
1998 11 18	587	0.3-	1.0+	2000 02 10	704	0.1+	0.2+	2000 03 12	704	0.4+	0.3-
1998 11 18	587	0.4-	0.5-	2000 02 10	704	0.9+	0.2-	2000 03 12	704	0.5-	0.5+
1998 12 07	587	0.7-	0.7+	2000 02 11	704	0.3+	0.8+				
1998 12 07	587	0.9-	0.2+	2000 02 11	704	0.3-	1.0+				

(14105)* 1997 TS₁₇ = 1992 UM₅

Discovered 1997 Oct. 6 by K. Endate and K. Watanabe at Kitami.

Id. S. Nakano (*MPC* 30988)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
206.50106		(2000.0)		P		Q	
<i>n</i>	0.19164031	ω	127.58106	+0.91777545	+0.38896246		
<i>a</i>	2.9795098	Ω	209.77466	-0.39576971	+0.87948697		
<i>e</i>	0.1076915	<i>i</i>	9.26807	-0.03247409	+0.27424602		
<i>P</i>	5.14	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 10 26	400	1.3-	1.5-	1997 10 30	400	0.1-	0.2-	2000 01 10	704	1.4+	0.7+
1992 10 26	400	0.0	1.3+	1997 10 30	400	0.1+	0.2-	2000 01 10	704	0.1+	0.2-
1992 10 28	400	0.8+	0.1+	1997 11 03	704	0.6-	1.1+	2000 03 04	163	1.4-	0.5-
1992 10 28	400	0.5+	0.0	1997 11 03	704	0.2-	1.0+	2000 03 05	163	0.3-	0.1-
1997 09 28	691	0.7+	0.8-	1997 11 03	704	0.7-	1.1+	2000 03 09	704	0.1-	0.4+
1997 09 28	691	0.0	0.1-	1997 11 03	704	0.6-	1.3+	2000 03 09	704	0.4+	0.4-
1997 09 28	691	0.0	0.1-	1997 11 03	704	1.3-	1.2+	2000 03 09	704	0.0	0.6-
1997 10 06	400	0.4-	0.9+	1999 01 10	747	0.2+	0.1-	2000 03 09	704	0.1+	0.4+
1997 10 06	400	0.4-	0.1-	1999 01 10	747	0.2-	0.1-	2000 03 09	704	0.3-	0.6+
1997 10 09	400	0.1-	0.6-	1999 01 10	747	0.1-	0.1-	2000 03 12	163	0.0	0.3-
1997 10 09	400	0.1-	0.1+	1999 01 11	747	0.1-	0.2+	2000 03 13	163	0.2-	0.6-
1997 10 25	400	0.4-	0.3-	1999 01 11	747	0.0	0.0	2000 03 13	704	0.4+	0.3-
1997 10 25	400	0.6+	1.5+	2000 01 05	704	1.7+	0.3+	2000 03 13	704	0.0	0.1-
1997 10 30	704	1.2+	1.8-	2000 01 05	704	0.8+	0.1-	2000 03 13	704	0.1-	0.8+
1997 10 30	704	1.2+	1.3-	2000 01 05	704	0.2-	0.0	2000 03 13	704	1.1-	0.3-
1997 10 30	704	1.0+	1.6-	2000 01 05	704	0.4+	0.2-	2000 03 13	704	0.6-	0.2+
1997 10 30	704	0.2+	1.2-	2000 01 10	704	0.3-	0.3-				
1997 10 30	704	(1.9-	2.6-)	2000 01 10	704	0.2+	0.3+				

(14106)* 1997 UO₂₄ = 1991 GP₉

Discovered 1997 Oct. 27 by W. Bickel at Bergisch Gladbach.

Id. G. V. Williams (*MPC* 31393)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	223.82707	(2000.0)		P		Q	
n	0.21519422	ω	42.55437	+0.75186620	+0.65875496		
a	2.7579241	Ω	276.21978	-0.61202918	+0.68201372		
e	0.0296230	i	1.56711	-0.24518869	+0.31764634		
P	4.58	H	14.7	G	0.15	U	1

Residuals in seconds of arc

1991 04 10	809	0.2-	0.1-	1997 12 01	621	0.1-	0.2-	2000 02 25	621	0.0	0.1+
1991 04 10	809	0.1+	0.1+	1997 12 01	621	0.2-	0.3+	2000 02 25	621	0.2-	0.0
1991 04 10	809	0.7-	0.5-	1997 12 01	621	1.1-	0.3-	2000 02 27	621	0.1-	0.4+
1991 04 19	809	0.2+	0.8-	1997 12 30	621	0.5-	1.5+	2000 02 27	621	0.1-	0.1+
1991 04 19	809	0.0	0.6-	1997 12 30	621	0.2-	0.2+	2000 02 27	621	0.2+	0.4+
1991 04 19	809	0.8-	1.6-	1997 12 30	621	0.5-	0.3+	2000 03 03	703	0.2+	1.0+
1997 10 27	621	0.1+	0.4+	1998 11 20	621	0.0	0.3-	2000 03 03	703	1.9+	0.0

1997 10 27	621	0.2+	0.7+	1998 11 20	621	0.2+	0.4-	2000 03 03	703	0.0	0.0
1997 10 30	621	0.3+	0.2+	1998 11 21	621	0.2-	0.4-	2000 03 03	703	1.5-	0.2+
1997 10 30	621	0.3-	0.4+	1998 11 21	621	0.2-	0.2-	2000 03 10	704	1.0+	0.1+
1997 10 30	621	0.5-	0.3+	1998 11 22	621	0.0	0.3-	2000 03 10	704	0.6-	0.4+
1997 10 30	621	0.6+	0.7+	1998 11 22	621	0.2+	0.5-	2000 03 10	704	0.2+	0.1+
1997 10 31	621	0.5+	0.0	1998 12 16	621	0.1-	0.1+	2000 03 10	704	0.7+	0.1-
1997 10 31	621	0.1-	0.2-	1998 12 17	621	0.0	0.0	2000 03 10	704	0.6+	0.5+
1997 10 31	621	0.6+	0.3+	1998 12 17	621	0.0	0.1-	2000 03 11	704	0.3+	0.0
1997 10 31	621	0.1-	0.0	1998 12 17	621	0.1-	0.2+	2000 03 11	704	0.3-	0.4+
1997 11 01	621	0.4+	0.0	2000 02 12	621	0.2-	0.2+	2000 03 11	704	0.4+	0.6+
1997 11 01	621	0.4+	0.2+	2000 02 12	621	0.3-	0.0	2000 03 11	704	0.1-	0.7+
1997 11 01	621	0.2+	0.5+	2000 02 12	621	0.0	0.3+	2000 03 11	704	1.1+	1.2+
1997 11 02	621	0.9-	0.5-	2000 02 12	621	0.3-	0.1+				
1997 11 02	621	1.1-	0.3-	2000 02 25	621	0.1-	0.1+				

(14107)* 1997 VM₅ = 1996 NC₅

Discovered 1997 Nov. 8 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 30996)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
221.92396		(2000.0)		P		Q	
<i>n</i>	0.17418051	ω	224.88110	+0.87561079	+0.48290600		
<i>a</i>	3.1754334	Ω	106.24093	-0.44007277	+0.80642725		
<i>e</i>	0.1805770	<i>i</i>	0.61889	-0.19910226	+0.34128709		
<i>P</i>	5.66	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 11 05	691	0.5+	0.3+	1997 11 09	411	0.8-	0.1-	1999 02 10	704	(4.7-	1.3+)
1991 11 05	691	0.4+	0.2-	1997 11 29	704	1.0-	1.3+	2000 02 26	691	0.4-	0.7-
1991 11 05	691	0.0	0.0	1997 11 29	704	(2.5-	0.5+)	2000 02 26	691	0.5-	0.6-
1995 05 27	691	0.2-	0.4+	1997 11 29	704	0.4-	2.0-	2000 02 26	691	0.4-	0.3-
1995 05 27	691	0.1-	0.4+	1997 11 29	704	0.0	0.7+	2000 03 08	704	0.6-	1.4+
1995 05 27	691	0.3-	0.3+	1997 12 03	411	0.3+	0.6-	2000 03 08	704	0.8+	0.9-
1996 07 14	809	0.4+	1.0-	1997 12 03	411	0.5+	0.4+	2000 03 08	704	0.4+	0.4+
1996 07 14	809	0.4-	1.1-	1998 01 02	704	1.7+	1.0-	2000 03 08	704	0.1-	1.5-
1996 07 14	809	0.3+	1.1-	1998 01 02	704	0.9+	1.1-	2000 03 10	704	0.0	0.1+
1996 07 15	809	(2.3+	3.8+)	1998 01 02	704	0.9+	1.6-	2000 03 10	704	0.8+	0.1+
1996 07 15	809	(1.3+	3.3+)	1998 01 02	704	0.0	0.4-	2000 03 10	704	0.2+	0.1+
1996 07 15	809	(2.4+	3.4+)	1999 01 18	691	1.5-	0.8+	2000 03 10	704	0.6-	0.5-
1996 07 21	809	(4.1+	1.2+)	1999 01 18	691	0.2-	0.2-	2000 03 11	704	0.6+	0.4-
1996 07 21	809	(3.3+	0.9+)	1999 01 18	691	0.1-	0.4-	2000 03 11	704	0.7+	0.0
1996 07 21	809	(2.8+	0.9+)	1999 02 10	704	(2.4-	1.7+)	2000 03 11	704	0.3+	0.0
1997 11 08	411	0.1+	0.7+	1999 02 10	704	1.3-	2.1+	2000 03 14	691	0.2+	1.0-
1997 11 08	411	0.5-	0.7+	1999 02 10	704	0.2-	1.2+	2000 03 14	691	0.1+	0.8-
1997 11 09	411	0.1+	0.6+	1999 02 10	704	0.0	1.0-	2000 03 14	691	0.0	1.0-

(14108)* 1998 OA₁₃ = 2000 AH₉₅

Discovered 1998 July 26 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 37702)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	149.12231	(2000.0)	P	Q
n	0.28842840	ω 24.57064	+0.96038030	+0.26956559
a	2.2687015	Ω 319.58139	-0.27033104	+0.83934681
e	0.1735732	i 6.26367	-0.06775549	+0.47205013
P	3.42	H 14.5	G 0.15	U 2

1998 07 04	699	0.8−	0.1−	1999 12 06	704	0.1−	0.2+	2000 02 26	703	0.9+	1.9−
1998 07 26	809	0.2−	1.5+	2000 01 04	704	0.1+	0.3+	2000 02 26	703	0.1−	0.9−
1998 07 26	809	1.1−	0.9+	2000 01 04	704	0.2−	0.7+	2000 02 26	703	0.1+	0.5+
1998 07 26	809	1.1−	1.2+	2000 01 04	704	0.5−	0.3+	2000 02 26	703	0.0	0.2+
1998 07 26	699	0.4+	0.1+	2000 01 04	704	0.6+	1.0+	2000 02 29	704	0.2+	0.4+
1998 07 26	699	0.3+	0.1−	2000 01 04	704	0.4+	0.4+	2000 02 29	704	0.1+	0.1+
1998 07 26	699	0.6+	0.0	2000 01 07	704	0.5+	0.2−	2000 02 29	704	0.2−	0.2+
1998 07 27	809	(1.1+ 2.9+)		2000 01 07	704	1.5+	0.4−	2000 02 29	704	0.2+	0.5+
1998 07 27	809	(1.3+ 3.3+)		2000 01 07	704	1.3+	0.2−	2000 02 29	704	0.5−	0.5+
1998 07 27	809	(1.4+ 3.7+)		2000 01 07	704	0.6+	0.3−	2000 03 04	704	0.5−	0.0
1998 08 17	704	0.6−	0.9+	2000 01 07	704	0.9+	0.4−	2000 03 04	704	0.1−	0.1+
1998 08 17	704	0.7−	0.6+	2000 01 16	120	(1.2− 3.2−)		2000 03 04	704	0.4+	0.0
1998 08 17	704	0.3−	0.3+	2000 01 17	120	0.4+	0.9−	2000 03 04	704	0.6+	0.1+
1998 08 17	704	0.1−	0.0	2000 01 17	120	1.2+	0.7−	2000 03 04	704	0.8−	0.2−
1998 08 17	704	0.0	0.6−	2000 01 25	120	(2.2− 0.1+)		2000 03 05	704	0.4+	0.7+
1998 09 15	699	0.1−	0.6+	2000 01 26	120	1.9−	0.5+	2000 03 05	704	0.2−	0.9+
1998 09 15	699	0.2−	0.6+	2000 01 26	120	0.6+	0.4+	2000 03 05	704	0.7−	0.1+
1998 09 15	699	0.5−	0.8+	2000 01 26	120	0.2−	0.3+	2000 03 05	704	0.3−	0.5+
1998 09 17	910	0.4+	0.0	2000 01 26	120	0.8−	0.7+	2000 03 05	704	0.1−	0.6+
1998 09 17	910	0.3+	0.1+	2000 01 30	704	0.1+	0.1+	2000 03 05	704	0.9−	0.7+
1998 09 17	910	0.4+	0.0	2000 01 30	704	0.3−	0.5+	2000 03 05	704	0.3−	0.1+
1998 09 22	910	0.3+	0.2+	2000 01 30	704	0.4+	0.8+	2000 03 05	704	0.3+	0.5+
1998 09 22	910	0.2+	0.1+	2000 01 30	704	0.7+	0.6+	2000 03 05	704	0.6+	0.4+
1998 09 22	910	0.3+	0.1+	2000 02 03	704	0.3−	0.3+	2000 03 06	704	0.2+	0.2−
1998 10 12	699	0.2+	0.2−	2000 02 03	704	0.1+	0.2+	2000 03 06	704	0.1+	0.2+
1998 10 12	699	0.4−	0.1+	2000 02 03	704	0.3+	0.0	2000 03 06	704	0.7+	0.1+
1998 10 12	699	0.2−	0.7+	2000 02 03	704	(1.6− 2.4+)		2000 03 06	704	0.2−	0.2−
1998 11 19	699	0.7−	0.2−	2000 02 03	704	0.7+	1.1+	2000 03 06	704	0.6+	0.2+
1998 11 19	699	(2.7− 1.6−)		2000 02 04	120	0.7−	0.2+				
1998 11 19	699	0.3+	0.1+	2000 02 04	120	0.5+	0.4+				

(14109)* 1998 OM₁₄ = 2000 CM₂₆

Discovered 1998 July 26 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 38472)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	83.59212		<i>P</i>		<i>Q</i>	
<i>n</i>	0.22770894	ω	249.90111	+0.80304874	−0.58513548	
<i>a</i>	2.6559261	Ω	145.63537	+0.59357354	+0.76866726	
<i>e</i>	0.2303835	<i>i</i>	11.52994	+0.05275586	+0.25839333	
<i>P</i>	4.33	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1990 11 18	675	0.0	1.3−	1998 09 18	704	0.6+	0.3−	2000 02 29	704	0.2−	0.6+
1990 11 18	675	0.0	1.1−	1998 09 18	704	0.6+	0.6+	2000 02 29	704	0.2−	0.3+
1996 04 19	675	0.1+	0.4+	1998 09 18	704	0.7−	1.0+	2000 02 29	704	0.1+	0.8+
1996 04 19	675	0.9+	0.0	1998 09 21	699	0.2+	0.9+	2000 02 29	704	0.6−	0.6+
1998 07 26	809	0.7−	0.4−	1998 09 21	699	0.4+	0.3+	2000 03 03	704	0.1+	0.3+
1998 07 26	809	(1.5− 2.2−)		1998 09 21	699	0.2+	0.2+	2000 03 03	704	1.0+	0.0
1998 07 26	809	1.2−	1.8−	1998 11 20	699	1.8+	0.3+	2000 03 03	704	0.4+	0.5+
1998 07 26	699	1.1−	1.4+	1998 11 20	699	0.1−	0.7−	2000 03 03	704	0.7+	0.3+
1998 07 26	699	0.1+	1.2+	1998 11 20	699	0.4−	1.4−	2000 03 03	704	1.4+	0.2+
1998 07 26	699	0.7−	1.6+	1998 12 08	704	0.5+	0.7+	2000 03 05	704	0.3+	0.9+
1998 07 27	809	0.4−	0.6−	1998 12 08	704	0.6+	1.8+	2000 03 05	704	0.5−	0.4+
1998 07 27	809	0.5−	1.3−	1998 12 08	704	0.9+	1.1+	2000 03 05	704	0.1+	0.1−
1998 07 27	809	0.9−	1.0−	2000 02 02	704	0.1−	0.0	2000 03 05	704	0.5+	0.7+
1998 08 17	704	0.2−	0.2+	2000 02 02	704	0.1+	0.1+	2000 03 08	704	0.4−	0.7+
1998 08 17	704	0.3+	0.2+	2000 02 02	704	0.1−	0.7+	2000 03 08	704	0.0	0.1+
1998 08 17	704	0.7−	0.4−	2000 02 02	704	0.3−	0.3+	2000 03 08	704	0.4−	0.5−
1998 08 17	704	0.6+	0.7−	2000 02 02	704	0.3−	0.3+	2000 03 08	704	0.0	0.1+
1998 08 17	704	0.4+	0.2+	2000 02 04	704	0.1+	0.0	2000 03 08	704	0.1+	0.0
1998 08 23	699	0.2+	0.7+	2000 02 04	704	0.7+	0.0	2000 03 08	704	0.1−	0.8+
1998 08 23	704	0.2−	0.2+	2000 02 04	704	0.4+	0.6+	2000 03 08	704	0.2−	0.2−
1998 08 23	704	0.1+	0.0	2000 02 04	704	0.1+	0.4−	2000 03 08	704	0.2−	0.5+
1998 08 23	699	0.3+	0.1+	2000 02 04	704	0.8+	0.2+	2000 03 08	704	0.1−	0.1+
1998 08 23	704	0.6−	0.3+	2000 02 11	691	0.1−	0.4−	2000 03 08	704	0.3−	0.2−

1998 08 23	704	0.9−	0.9+	2000 02 11	691	0.0	0.4−	2000 03 09	704	0.9+	0.1+
1998 08 23	699	0.0	0.7+	2000 02 11	691	0.2+	0.3−	2000 03 09	704	0.6−	0.0
1998 08 23	704	1.6+	0.0	2000 02 27	691	0.5−	0.1+	2000 03 09	704	0.6+	0.4+
1998 09 14	704	0.7−	0.7+	2000 02 27	691	0.5−	0.2+	2000 03 09	704	0.3+	0.2−
1998 09 14	704	0.3−	0.1+	2000 02 27	691	0.7−	0.6+	2000 03 09	704	0.5+	0.2−
1998 09 14	704	0.5−	0.5−	2000 02 27	703	0.4+	0.4+	2000 03 11	691	0.9−	0.3−
1998 09 14	704	0.7−	0.8+	2000 02 27	703	0.0	0.5+	2000 03 11	691	0.8−	0.3−
1998 09 14	704	0.2+	1.1+	2000 02 27	703	0.5−	0.3+	2000 03 11	691	0.5−	0.3−
1998 09 18	704	0.9+	0.4−	2000 02 27	703	0.3−	0.2+				
1998 09 18	704	1.0+	1.2+	2000 02 29	704	0.0	0.3+				

(14110)* 1998 QA₂₃ = 1977 XG₂ = 1991 RH₂₀ = 1993 FF₃₉

Discovered 1998 Aug. 17 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 32695)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	88.57486		<i>P</i>		<i>Q</i>	
<i>n</i>	0.27580123	ω	356.16599	+0.54298803	−0.83807121	
<i>a</i>	2.3374298	Ω	60.93942	+0.77204815	+0.47343568	
<i>e</i>	0.2127396	<i>i</i>	3.47099	+0.33031145	+0.27110018	
<i>P</i>	3.57	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1977 12 07	675	0.1−	0.1+	1998 08 17	704	0.6+	1.5+	1998 09 18	704	1.5−	0.2−
1977 12 08	675	0.3+	0.7+	1998 08 23	704	1.4+	1.9−	1998 09 24	699	0.2+	0.5−
1991 09 14	675	(0.7+ 2.0−)		1998 08 23	704	1.3−	0.8+	1998 09 24	699	0.3−	0.3−
1991 09 14	675	(0.6+ 2.1−)		1998 08 23	704	1.6−	0.2+	1998 09 24	699	0.4−	0.3+
1991 09 16	675	0.1−	1.4−	1998 08 23	704	1.7−	1.9+	2000 02 11	704	1.2+	0.8+
1991 09 16	675	0.3−	1.7−	1998 08 23	704	0.3−	2.0+	2000 02 11	704	0.5+	0.5+
1993 03 19	809	(2.9− 5.5−)		1998 09 14	704	0.8+	0.4+	2000 02 11	704	0.2−	0.4+
1993 03 20	809	(2.4− 0.9−)		1998 09 14	704	1.7+	1.2+	2000 02 11	704	1.4+	0.2−
1993 03 24	809	0.3+	1.3−	1998 09 14	704	0.3+	1.7+	2000 02 11	704	0.0	0.5+
1993 04 16	413	0.8+	0.5+	1998 09 14	704	(2.2+ 1.2+)		2000 03 02	703	0.7+	0.1+
1997 05 07	704	0.8+	0.9−	1998 09 14	704	0.9+	1.0+	2000 03 02	703	0.4+	0.7+
1997 05 07	704	0.7−	0.7−	1998 09 14	327	(3.3− 0.7+)		2000 03 02	703	0.0	0.7+
1997 05 07	704	1.5−	1.4−	1998 09 14	327	(3.7− 0.6+)		2000 03 02	703	1.9−	0.9+
1997 05 07	704	1.7−	0.0	1998 09 14	327	(4.1− 0.5+)		2000 03 12	704	0.4+	0.5+
1998 08 17	704	0.2+	0.3+	1998 09 18	704	1.0−	0.1−	2000 03 12	704	0.1+	1.1+
1998 08 17	704	0.8+	0.0	1998 09 18	704	0.6+	0.9−	2000 03 12	704	0.1+	0.8+
1998 08 17	704	0.0	1.4+	1998 09 18	704	1.1−	0.3+	2000 03 12	704	0.6+	0.9+
1998 08 17	704	0.5+	0.9+	1998 09 18	704	0.2−	0.1+	2000 03 12	704	0.6+	0.9+

(14111)* 1998 QA₂₄ = 1988 XH₂ = 1997 HU₁₄

Discovered 1998 Aug. 17 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 32696)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	91.39517		<i>P</i>		<i>Q</i>	
<i>n</i>	0.28177602	ω	200.75469	+0.61927258	−0.78372185	
<i>a</i>	2.3042700	Ω	211.03959	+0.73281287	+0.59874668	
<i>e</i>	0.1246120	<i>i</i>	5.31521	+0.28193400	+0.16517404	
<i>P</i>	3.50	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>

2000 MAR. 20

M.P.C. 39083

1998 08 17	704	0.6+	0.0	1998 09 18	704	1.5+	0.2-	2000 02 12	704	1.4+	0.6+
1998 08 17	704	(0.4+	2.4-)	1998 09 18	704	0.3+	0.4-	2000 02 13	704	(0.4-	2.7+)
1998 08 23	704	0.8-	0.8-	1998 09 18	704	0.4+	0.3-	2000 02 13	704	0.9+	0.7+
1998 08 23	704	0.8-	0.2+	1998 09 18	704	1.3+	0.8-	2000 02 13	704	0.3+	1.6+
1998 08 23	704	(1.7-	2.8+)	2000 02 02	704	0.8+	0.1-	2000 03 11	699	0.5-	0.1-
1998 08 23	704	(1.7-	3.2+)	2000 02 02	704	0.8-	1.3+	2000 03 11	699	0.1-	0.4+
1998 08 26	699	0.3+	0.9+	2000 02 02	704	0.1+	0.2+	2000 03 11	699	0.3-	0.2-
1998 08 26	699	0.0	0.5+	2000 02 02	704	1.1-	0.9+	2000 03 11	699	0.1-	0.5+
1998 08 26	699	0.4-	0.7+	2000 02 02	704	0.1-	0.9+				

(14112)* 1998 QZ₂₅ = 1983 WW

Discovered 1998 Aug. 25 at Višnjan.

Id. A. Gnädig (*MPC* 35340), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	87.09512		(2000.0)	P	Q
<i>n</i>	0.25536437	ω	38.27067	+0.59481554	-0.80375830
<i>a</i>	2.4605329	Ω	15.24388	+0.72488855	+0.52935992
<i>e</i>	0.1601553	<i>i</i>	2.81771	+0.34746374	+0.27157075
<i>P</i>	3.86	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1983 11 29	688	0.1-	0.3-	1998 09 18	704	0.2-	1.3+	2000 02 24	120	0.6-	0.2-
1983 11 29	688	0.3+	1.2-	1998 09 18	704	(0.7-	2.3+)	2000 02 27	120	0.1-	0.1+
1993 04 20	413	0.4-	0.1-	1998 09 18	704	0.2-	0.3+	2000 02 27	120	0.0	0.0
1998 08 17	704	0.4+	0.7+	1998 09 18	704	1.5-	0.2+	2000 02 28	120	0.5+	0.1+
1998 08 17	704	0.9-	0.3+	1998 10 16	120	(5.0+	1.3-)	2000 02 28	120	0.3+	0.6-
1998 08 17	704	0.1-	0.8-	1998 10 16	120	0.1+	1.2-	2000 03 02	120	1.1-	0.1+
1998 08 17	704	0.8+	0.8-	1998 10 20	699	0.1-	0.2-	2000 03 02	120	(4.3-	0.9-)
1998 08 17	704	1.0+	0.8+	1998 10 20	699	0.2-	0.5-	2000 03 03	704	0.4+	0.6+
1998 08 23	704	0.8+	0.2-	1998 10 20	699	0.1-	0.8-	2000 03 03	704	0.4+	0.5+
1998 08 23	704	0.2+	0.3+	1998 11 15	699	0.4+	0.6+	2000 03 03	704	0.5+	0.6+
1998 08 23	704	1.1+	1.4-	1998 11 15	699	0.1+	1.0+	2000 03 03	704	0.6+	0.6+
1998 08 23	704	0.9-	0.1+	1998 11 15	699	0.3-	0.3-	2000 03 03	704	0.6+	0.9+
1998 08 23	704	0.2+	0.1+	1999 12 05	704	0.6-	1.8-	2000 03 04	704	0.2+	0.9+
1998 08 25	120	0.2+	0.9-	1999 12 05	704	0.4-	0.3+	2000 03 04	704	0.5+	0.6+
1998 08 25	120	0.4+	0.0	1999 12 05	704	0.6-	0.4-	2000 03 04	704	0.1+	0.6+
1998 08 25	120	0.6+	0.8+	1999 12 05	704	0.2-	0.1-	2000 03 04	704	0.4+	0.3+
1998 08 27	120	0.2-	0.2+	1999 12 05	704	0.5-	0.1+	2000 03 04	704	0.3+	0.0
1998 08 27	120	0.2-	0.5+	2000 02 04	704	1.1+	1.7+	2000 03 05	704	0.4+	0.4+
1998 08 27	120	0.1+	0.3+	2000 02 04	704	0.4+	0.2+	2000 03 05	704	0.1+	0.3+
1998 08 30	120	0.4-	0.1+	2000 02 04	704	0.7+	0.0	2000 03 05	704	0.3+	0.3+
1998 08 30	120	0.4-	0.2-	2000 02 04	704	0.3+	0.1-	2000 03 05	704	0.3+	0.2+
1998 08 30	120	0.2-	0.2-	2000 02 04	704	0.5+	0.8-	2000 03 05	704	0.5+	0.1-
1998 09 10	120	0.2-	1.1+	2000 02 10	120	0.5-	0.4+	2000 03 05	704	0.1+	0.1+
1998 09 10	120	1.4-	1.1+	2000 02 10	120	1.5-	0.0	2000 03 05	704	0.2+	0.4+
1998 09 10	120	0.1+	0.8+	2000 02 10	120	0.4-	0.3+	2000 03 05	704	0.4-	0.0
1998 09 10	120	0.0	1.0+	2000 02 11	704	0.3+	0.7+	2000 03 05	704	0.2-	0.2-
1998 09 10	120	0.7-	0.4+	2000 02 11	704	1.4+	0.0	2000 03 05	704	0.2-	0.1-
1998 09 14	704	0.2+	0.6+	2000 02 11	704	0.5+	0.7+	2000 03 06	704	0.1-	0.5+
1998 09 14	704	0.5-	1.2+	2000 02 11	704	0.4+	0.7+	2000 03 06	704	0.6+	0.4+
1998 09 14	704	0.1+	1.9+	2000 02 13	120	0.6-	0.4+	2000 03 06	704	0.3+	0.3-
1998 09 14	704	1.8-	0.4-	2000 02 13	120	0.6-	0.2-				
1998 09 18	704	0.4-	1.1+	2000 02 24	120	0.4-	0.2+				

(14113)* 1998 QD₃₂ = 2000 AU₁₈₁

Discovered 1998 Aug. 17 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 37717)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	76.94707		(2000.0)	P	Q
<i>n</i>	0.18267245	ω	230.92910	+0.94676930	-0.26702013
<i>a</i>	3.0762433	Ω	143.51734	+0.29546193	+0.94251904
<i>e</i>	0.2676642	<i>i</i>	17.60175	-0.12778945	+0.20089327
<i>P</i>	5.40	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1981 04 09	413	0.3-	1.6+	1998 08 23	704	0.3-	1.1+	2000 01 07	704	0.7-	0.5-
1981 04 09	413	0.3-	1.0-	1998 08 28	699	0.6+	0.1+	2000 01 07	704	0.0	0.5-
1982 11 10	413	0.3+	1.3-	1998 08 28	699	0.2+	0.7+	2000 01 07	704	0.5-	0.5-
1982 11 10	413	0.3+	0.6-	1998 08 28	699	0.3+	0.5+	2000 01 07	704	0.8-	0.3-
1998 06 30	699	1.0-	0.3+	1998 09 22	699	0.8-	1.0-	2000 01 11	704	0.7+	0.2+
1998 06 30	699	0.7-	0.3+	1998 09 22	699	0.0	0.7+	2000 01 11	704	0.3+	0.0
1998 06 30	699	0.5-	0.1+	1998 09 22	699	0.4+	0.5+	2000 01 11	704	0.1-	0.4-
1998 07 24	566	0.2-	0.1-	1998 12 08	704	1.2-	0.0	2000 01 11	704	0.4-	0.9-
1998 07 24	566	0.2-	0.5-	1998 12 08	704	0.7-	0.6-	2000 01 11	704	0.4-	0.5-
1998 07 24	566	0.2-	0.5-	1998 12 08	704	0.7-	0.6-	2000 02 08	704	0.2+	0.4+
1998 08 01	699	0.9+	0.3-	1998 12 08	704	0.8-	0.3-	2000 02 08	704	0.1+	0.3+
1998 08 01	699	0.9+	0.0	1998 12 08	704	1.7-	0.3+	2000 02 08	704	0.2+	0.0
1998 08 01	699	1.0+	0.2+	1999 12 14	704	0.2+	0.6+	2000 02 08	704	0.0	0.6+
1998 08 17	704	0.0	0.0	1999 12 14	704	0.1-	0.2+	2000 02 08	704	0.1-	0.5+
1998 08 17	704	0.1-	0.1-	1999 12 14	703	0.9+	1.9+	2000 03 05	704	0.3+	0.4+
1998 08 17	704	0.5+	0.4-	1999 12 14	703	(0.6+	2.0+)	2000 03 05	704	0.2+	0.1+
1998 08 17	704	0.3-	0.4-	1999 12 14	704	0.1-	0.1-	2000 03 05	704	0.6+	0.8+
1998 08 17	704	0.3+	0.5-	1999 12 14	703	0.2-	0.8+	2000 03 05	704	0.4-	0.3-
1998 08 23	704	0.5+	0.9+	1999 12 14	704	0.4-	0.0	2000 03 05	704	0.4-	0.4+
1998 08 23	704	0.9+	0.5+	1999 12 14	703	1.5+	1.2+				
1998 08 23	704	0.2+	1.8+	2000 01 07	704	0.6-	0.6-				

(14114)* 1998 QE₃₅ = 1993 FB₃₉

Discovered 1998 Aug. 17 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 32700)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	111.17957		(2000.0)	P	Q
<i>n</i>	0.26646232	ω	243.00435	+0.90736564	-0.41865667
<i>a</i>	2.3917302	Ω	141.71275	+0.40396316	+0.84378165
<i>e</i>	0.1790868	<i>i</i>	3.47960	+0.11619539	+0.33579624
<i>P</i>	3.70	<i>H</i>	15.2	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1991 12 03	691	0.3+	0.0	1998 09 14	704	0.5-	0.7+	2000 02 25	703	0.2-	0.4-
1991 12 03	691	0.1+	0.1-	1998 09 14	704	0.0	0.3+	2000 02 25	703	0.6+	0.1+
1991 12 03	691	0.0	0.1+	1998 09 18	704	1.6+	0.2-	2000 02 25	703	1.4-	1.1+
1993 03 19	809	0.7-	1.0-	1998 09 18	704	0.4+	0.3-	2000 02 29	704	0.1+	0.5+
1993 03 20	809	1.3-	0.0	1998 09 18	704	0.4-	0.2+	2000 02 29	704	0.8-	1.1-
1993 03 24	809	1.4+	0.3-	1998 09 18	704	0.1-	0.6-	2000 02 29	704	0.3-	0.0
1995 12 18	691	0.2-	0.1+	1998 09 18	704	0.3-	0.1-	2000 02 29	704	0.2-	0.1-
1995 12 18	691	0.1-	0.3-	2000 01 16	691	0.3-	0.4-	2000 02 29	704	0.5-	0.0
1995 12 18	691	0.8-	0.4-	2000 01 16	691	0.4-	0.4-	2000 03 05	704	0.7-	0.0
1998 08 17	704	1.2+	0.1-	2000 01 16	691	0.4-	0.1-	2000 03 05	704	0.2-	1.2+
1998 08 17	704	0.3-	0.1+	2000 02 04	704	0.3+	0.6+	2000 03 05	704	0.3+	0.3-
1998 08 17	704	0.3-	0.2+	2000 02 04	704	0.9+	0.4-	2000 03 05	704	0.2-	0.6+
1998 08 17	704	1.4-	1.1-	2000 02 04	704	0.9+	0.1+	2000 03 05	704	0.2+	0.6-
1998 08 17	704	0.4-	0.4-	2000 02 04	704	1.6+	0.5-	2000 03 11	704	0.4+	0.2-
1998 08 23	699	0.1+	0.4+	2000 02 04	120	0.3-	0.4+	2000 03 11	704	0.8-	1.1-
1998 08 23	704	1.0-	0.0	2000 02 04	120	(2.0+	1.7+)	2000 03 11	704	0.1-	0.3+
1998 08 23	704	0.3+	0.8-	2000 02 11	704	0.4+	1.1+	2000 03 11	699	0.5+	0.3+
1998 08 23	699	0.5+	0.6+	2000 02 11	704	0.7+	0.2+	2000 03 11	699	0.7+	0.7+
1998 08 23	704	1.6-	1.3+	2000 02 11	704	1.5+	1.1-	2000 03 11	699	0.1+	0.7+
1998 08 23	699	0.1+	1.1+	2000 02 11	704	0.1-	0.8+	2000 03 11	699	0.2+	0.3-
1998 09 14	704	0.0	0.0	2000 02 11	704	1.1-	0.2-				
1998 09 14	704	1.7+	0.1-	2000 02 25	703	0.0	1.0+				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	110.44888		(2000.0)	P		Q	
<i>n</i>	0.25750945	ω	128.62798	+0.92204825	−0.38235096		
<i>a</i>	2.4468496	Ω	253.92470	+0.33277835	+0.86258719		
<i>e</i>	0.1894651	<i>i</i>	3.59723	+0.19770076	+0.33128701		
<i>P</i>	3.83	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1995 11 19	691	0.3+	0.3−	1998 08 17	704	0.8−	0.6+
1995 11 19	691	0.2+	0.3−	1998 08 17	704	0.4−	0.7+
1995 11 19	691	0.1−	0.6−	1998 08 17	704	1.1−	0.5+
1995 11 20	691	0.6−	0.3−	1998 08 17	704	0.9−	0.6−
1995 11 20	691	0.3−	0.4−	1998 08 23	704	1.5−	0.3−
1995 11 20	691	0.2−	0.4−	1998 08 23	704	1.6−	0.3−
1995 11 30	691	0.3−	0.6−	1998 08 23	704	(1.6−	2.3+)
1995 11 30	691	0.5−	0.3−	1998 08 23	704	1.1−	0.0
1995 11 30	691	0.1−	0.3−	1998 08 23	704	0.5−	1.2+
1997 04 30	704	0.1−	0.9−	1998 09 14	704	0.4+	0.6−
1997 04 30	704	0.8+	0.0	1998 09 14	704	0.5+	0.7+
1997 04 30	704	0.8+	0.4+	1998 09 14	704	0.9+	0.3−
1997 04 30	704	0.6−	1.1−	1998 09 14	704	1.1+	0.5+
1997 05 01	704	1.2+	0.2+	1998 09 14	704	1.0+	0.1+
1997 05 01	704	0.3−	0.5−	1998 09 18	704	1.5+	0.3−
1997 05 01	704	0.0	0.7+	1998 09 18	704	0.2+	0.2−
1997 05 01	704	1.7−	0.2−	1998 09 18	704	0.1−	0.8+
1998 08 17	704	0.5−	0.4+	1998 09 18	704	0.4+	0.8+

(14116)* 1998 QC₄₀ = 1995 WF₃₅

Discovered 1998 Aug. 17 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 32705)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	106.41932		(2000.0)	P		Q	
<i>n</i>	0.25305102	ω	190.19393	+0.90812448	−0.41863908		
<i>a</i>	2.4755060	Ω	194.56110	+0.38612659	+0.84396389		
<i>e</i>	0.1779219	<i>i</i>	1.63156	+0.16191412	+0.33535992		
<i>P</i>	3.89	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1995 11 20	691	0.1+	0.0	1998 08 30	699	0.4−	0.4+
1995 11 20	691	0.0	0.2−	1998 08 30	699	0.8−	0.5+
1995 11 20	691	0.2−	0.3−	1998 09 14	704	0.3−	0.1+
1995 11 30	691	0.0	0.3−	1998 09 14	704	0.4+	0.4−
1995 11 30	691	0.2−	0.6−	1998 09 14	704	0.4−	0.6−
1995 11 30	691	0.2−	0.5−	1998 09 14	704	0.2−	0.0
1997 04 06	704	0.3−	0.4−	1998 09 14	704	0.2−	0.2+
1997 04 06	704	0.5+	1.0+	1998 09 18	704	0.6−	0.0
1998 08 03	699	0.0	0.0	1998 09 18	704	0.4+	0.8+
1998 08 03	699	0.4−	0.1+	1998 09 18	699	0.7−	0.2+
1998 08 03	699	0.4−	0.3+	1998 09 18	704	0.1+	0.6−
1998 08 17	704	0.3−	0.8+	1998 09 18	699	0.5−	0.5+
1998 08 17	704	0.5+	1.0+	1998 09 18	704	0.1−	0.8+
1998 08 17	704	0.9+	0.4+	1998 09 18	704	0.5−	0.1+
1998 08 17	704	0.1+	0.5+	1998 09 18	699	0.4−	0.0
1998 08 17	704	0.6+	0.0	2000 02 02	704	0.3+	0.1+
1998 08 23	704	1.0+	0.5−	2000 02 02	704	0.2+	0.2−
1998 08 23	704	0.0	1.2−	2000 02 02	704	0.0	0.1+
1998 08 23	704	0.3−	0.3−	2000 02 02	704	0.2+	0.3+
1998 08 23	704	0.7+	0.1+	2000 02 02	704	0.1−	0.1+
1998 08 23	704	0.1+	0.4+	2000 02 04	704	0.2+	0.0
1998 08 30	699	0.1+	0.9+	2000 02 04	704	0.3+	0.5+

(14117)* 1998 QD₄₂ = 1982 VF₂

Discovered 1998 Aug. 17 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Gnädig (*MPC* 34925), M. E. Sansaturio (*ibid.*), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	97.65438		(2000.0)	P		Q	
<i>n</i>	0.30324954	ω	325.34983	+0.58419929	−0.80740649		
<i>a</i>	2.1941650	Ω	88.76675	+0.76205493	+0.51071368		
<i>e</i>	0.0839445	<i>i</i>	4.73328	+0.27925521	+0.29540870		
<i>P</i>	3.25	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1982 11 14	381	0.8−	0.6+	1998 08 28	699	(2.1+	0.5+)
1982 11 14	381	0.4+	0.3+	1998 09 14	704	0.5+	1.5+
1984 03 07	413	0.1+	0.5+	1998 09 14	704	0.3−	0.6+
1984 03 07	413	1.0+	0.1−	1998 09 14	704	0.4−	0.1−
1994 05 14	691	1.6−	1.2−	1998 09 14	704	0.2+	0.9+
1994 05 14	691	0.2−	0.9+	1998 09 14	704	0.3−	0.7+
1994 05 14	691	0.1−	0.8+	1998 09 18	704	1.4−	1.7+
1998 07 31	699	0.1−	0.2+	1998 09 18	704	0.8−	1.1+
1998 07 31	699	1.6−	0.9+	1998 09 18	704	0.2−	0.3+
1998 07 31	699	0.8−	0.2+	1998 09 18	704	0.6−	1.2+
1998 08 17	704	0.1+	0.4+	1998 09 18	704	0.6−	0.9+
1998 08 17	704	0.4−	0.4+	2000 01 10	699	0.6+	1.1+
1998 08 17	704	0.5−	0.3+	2000 01 10	699	0.5−	1.2+
1998 08 17	704	0.7+	1.8+	2000 01 10	699	0.1+	0.6+
1998 08 17	704	0.7−	0.9+	2000 02 04	704	(2.4+	0.4−)
1998 08 23	704	1.2+	0.9+	2000 02 04	704	1.8+	0.6+
1998 08 23	704	(2.6−	3.2−)	2000 02 04	704	0.7+	1.0+
1998 08 23	704	0.9+	0.1+	2000 02 04	704	1.2+	0.8+
1998 08 23	704	0.0	1.6+	2000 02 04	704	0.3+	1.3+
1998 08 23	704	(0.8+	2.3+)	2000 02 11	704	0.2−	0.0
1998 08 28	699	1.0−	0.2+	2000 02 11	704	0.2+	0.5−
1998 08 28	699	0.2−	1.1+	2000 02 11	704	0.1−	0.2−

(14118)* 1998 QF₄₅ = 2000 AL₂₄₃

Discovered 1998 Aug. 17 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38480)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	78.91570		(2000.0)	P		Q	
<i>n</i>	0.23117206	ω	223.79611	+0.67844263	−0.73452283		
<i>a</i>	2.6293344	Ω	183.56606	+0.72033498	+0.66880540		
<i>e</i>	0.1639187	<i>i</i>	12.86571	+0.14433682	+0.11478485		
<i>P</i>	4.26	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1981 10 01	413	1.1−	1.8−	1998 09 14	704	0.1−	0.2−
1981 10 01	413	0.7+	0.2+	1998 09 14	704	0.2−	1.0−
1990 10 26	675	0.0	1.2−	1998 09 14	704	0.0	0.2+
1990 10 26	675	0.3+	1.2+	1998 09 15	699	0.3+	0.1−
1990 12 10	675	0.1−	0.0	1998 09 15	699	0.3+	0.1+
1990 12 10	675	1.0+	0.7+	1998 09 15	699	0.1+	0.0
1998 08 17	704	0.3+	0.1+	1998 09 18	704	0.5+	0.1+
1998 08 17	704	0.5−	1.2−	1998 09 18	704	0.4+	0.7+
1998 08 17	704	0.6−	1.0−	1998 09 18	704	0.9+	1.0+
1998 08 17	704	0.6+	0.5+	1998 09 18	704	0.5−	0.1+
1998 08 17	704	0.2−	0.0	1998 09 18	704	0.4+	0.1+
1998 08 23	704	0.6+	0.4+	1998 10 20	699	0.0	0.2+
1998 08 23	704	1.1+	1.3+	1998 10 20	699	0.2−	0.3+
1998 08 23	704	0.2−	0.6−	1998 10 20	699	0.2−	0.0
1998 08 23	704	0.8+	0.1+	1998 12 21	910	0.7−	0.9−
1998 08 23	704	1.2−	0.4−	1998 12 21	910	1.5−	0.3−
1998 08 30	699	0.0	0.7+	1998 12 21	910	1.7−	0.2−
1998 08 30	699	0.7−	0.5+	1999 12 14	704	1.7−	0.6−
1998 08 30	699	0.5−	1.3+	1999 12 14	704	0.8−	0.2+
1998 09 14	704	0.5+	0.0	1999 12 14	704	1.5−	0.8−

2000 MAR. 20

M.P.C. 39085

(14119)* 1998 QU₄₆ = 1987 SA₂₄ = 2000 CD₅₁

Discovered 1998 Aug. 17 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38481, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	101.33156	(2000.0)		P	Q						
n	0.26830069	ω	105.82415	+0.73739104	-0.66924034						
a	2.3807924	Ω	296.28281	+0.57409277	+0.69232204						
e	0.1257545	i	5.85708	+0.35591001	+0.26982875						
P	3.67 <th>H</th> <td>14.3<th>G</th><td>0.15<th>U</th><td>2</td></td></td>	H	14.3 <th>G</th> <td>0.15<th>U</th><td>2</td></td>	G	0.15 <th>U</th> <td>2</td>	U	2				
Residuals in seconds of arc											
1975 04 20	413	0.4+	0.2+	1998 09 14	704	0.0	0.7+	1998 12 09	704	(4.3-	0.8-)
1975 04 20	413	1.0+	0.1+	1998 09 14	704	0.1+	0.3-	2000 02 02	704	0.6+	0.5+
1987 09 23	095	(0.0	3.5-)	1998 09 14	704	0.2+	0.1+	2000 02 02	704	0.9+	0.4+
1990 07 21	413	1.7-	1.1+	1998 09 16	699	0.3+	0.3+	2000 02 02	704	0.8+	0.2-
1990 07 21	413	0.6-	0.4+	1998 09 16	699	0.4+	0.6+	2000 02 02	704	0.4+	0.0
1995 11 30	675	1.3-	0.1-	1998 09 16	699	0.3+	0.5+	2000 02 02	704	1.1+	0.3+
1995 11 30	675	1.1-	0.4+	1998 09 18	704	0.2-	0.2-	2000 02 06	704	0.3+	0.4+
1998 08 17	704	0.5-	0.4+	1998 09 18	704	0.4-	0.2+	2000 02 06	704	0.5+	1.1+
1998 08 17	704	0.5-	0.7+	1998 09 18	704	0.2+	0.2+	2000 02 06	704	0.0	1.0+
1998 08 17	704	0.5+	0.6+	1998 09 18	704	0.9-	0.3+	2000 02 06	704	1.2+	1.8+
1998 08 17	704	0.4-	0.9+	1998 09 18	704	1.9+	0.3+	2000 03 11	699	0.3+	0.7+
1998 08 17	704	0.2-	1.2+	1998 11 15	699	0.9-	1.0+	2000 03 11	699	0.1-	1.1+
1998 08 23	704	0.7-	1.4+	1998 11 15	699	0.7-	0.0	2000 03 11	699	0.6-	1.4+
1998 08 23	704	0.7-	1.4+	1998 11 15	699	0.3-	0.5-	2000 03 11	699	0.0	0.9+
1998 08 23	704	1.6-	1.4+	1998 12 09	704	1.0+	0.2+	2000 03 13	704	0.8+	1.0+
1998 08 23	704	1.7-	0.5+	1998 12 09	704	0.5-	0.3-	2000 03 13	704	0.9+	0.6+
1998 08 23	704	1.1-	0.9+	1998 12 09	704	(2.2+	2.1-)	2000 03 13	704	0.5+	0.4+
1998 09 14	704	1.2+	0.3-	1998 12 09	704	0.1-	0.4-	2000 03 13	704	0.5+	0.6+

(14120)* 1998 QJ₅₄ = 1980 XJ₂ = 1987 SK₂₅ = 2000 AG₂₃₇

Discovered 1998 Aug. 27 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 38481)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	79.45358		(2000.0)		P		Q				
<i>n</i>	0.26781812	ω	211.79690		+0.26024819		-0.96289235				
<i>a</i>	2.3836514	Ω	223.23521		+0.90630059		+0.26914203				
<i>e</i>	0.0884309	<i>i</i>	5.98967		+0.33300169		+0.02002217				
<i>P</i>	3.68	<i>H</i>	13.6		<i>G</i>	0.15	<i>U</i>	1			
Residuals in seconds of arc											
1980 12 10	095	1.4-	0.8-	1998 09 26	704	1.3+	0.0	1999 01 08	704	(3.0-	1.0+)
1987 09 23	095	0.9+	2.5+	1998 09 27	704	0.4-	0.9-	2000 01 05	704	1.3-	0.6-
1991 10 12	675	0.2-	0.2-	1998 09 27	704	0.2-	0.9-	2000 01 05	704	1.0-	0.7-
1991 10 12	675	0.4+	0.2+	1998 09 27	704	0.4+	1.2-	2000 01 05	704	1.5-	0.1-
1991 12 07	675	0.3+	0.0	1998 09 27	704	0.2+	0.2+	2000 01 05	704	0.9-	0.2+
1991 12 07	675	1.0+	0.2+	1998 09 27	704	0.7-	0.3-	2000 01 11	699	0.2+	0.4-
1998 08 27	699	0.1-	0.0	1998 10 13	589	0.6-	0.1-	2000 01 11	699	0.7+	0.0
1998 08 27	699	0.5-	0.3+	1998 10 13	589	0.2-	0.5-	2000 01 11	699	0.5+	0.2-
1998 08 27	699	0.6-	0.1+	1998 10 13	589	0.8-	0.1-	2000 02 02	704	0.7+	0.4+
1998 08 28	699	0.4-	0.0	1998 10 14	699	0.0	0.7+	2000 02 02	704	0.4-	0.3+
1998 08 28	699	0.5-	0.2-	1998 10 14	699	0.1-	0.0	2000 02 02	704	1.1+	0.3+
1998 08 28	699	0.5+	0.1-	1998 10 14	699	0.2+	0.2+	2000 02 02	704	0.1+	0.6+
1998 09 14	704	0.9-	0.1+	1998 10 14	589	0.6-	0.1-	2000 02 02	704	0.7-	0.9+
1998 09 14	704	0.5-	0.8+	1998 10 14	589	0.0	0.4-	2000 02 04	106	0.5-	0.2-
1998 09 14	704	0.8+	1.2+	1998 10 14	589	0.1-	0.1+	2000 02 04	106	1.8+	0.3+
1998 09 15	699	0.4-	0.6+	1998 12 08	699	0.4+	0.3+	2000 02 07	704	1.5-	0.4-
1998 09 15	699	0.0	0.3+	1998 12 08	699	0.5-	0.2-	2000 02 07	704	(2.4-	1.2-)
1998 09 15	699	0.3-	0.9+	1998 12 08	699	0.4+	0.0	2000 02 07	704	(2.1-	1.2-)
1998 09 18	704	0.1+	0.2+	1998 12 09	704	1.1-	0.2+	2000 02 07	704	(3.0-	2.3-)
1998 09 18	704	0.2+	0.3+	1998 12 09	704	1.7+	0.8-	2000 02 08	704	0.4+	0.2+
1998 09 18	704	0.4+	0.1-	1998 12 09	704	0.9+	0.3-	2000 02 08	704	0.2+	0.0

1998 09 18	704	1.5+	0.5-	1998 12 09	704	0.6-	0.5-	2000 02 08	704	0.4+	0.4+
1998 09 18	704	0.8+	0.3-	1998 12 09	704	0.3+	0.2+	2000 02 08	704	0.2+	0.2+
1998 09 26	704	0.0	0.2+	1999 01 08	704	1.8-	0.2+	2000 02 08	704	0.1+	0.2-
1998 09 26	704	0.2-	0.1-	1999 01 08	704	0.2-	0.9+	2000 03 08	704	0.4+	0.0
1998 09 26	704	0.3-	0.6-	1999 01 08	704	0.2-	1.1+	2000 03 08	704	0.5+	0.3-
1998 09 26	704	0.5+	1.0-	1999 01 08	704	0.2+	0.4+	2000 03 08	704	0.4+	0.4+

(14121)* 1998 QM₅₄ = 1968 QV = 1985 VQ₅

Discovered 1998 Aug. 27 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. A. Gnädig (*MPC* 38482), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	156.62062		(2000.0)		<i>P</i>		<i>Q</i>		
<i>n</i>	0.29598228	ω	57.84877		+0.99823250		+0.00547073		
<i>a</i>	2.2299352	Ω	301.77490		-0.03046147		+0.90210355		
<i>e</i>	0.1729462	<i>i</i>	3.99160		+0.05102923		+0.43148494		
<i>P</i>	3.33	<i>H</i>	14.0		<i>G</i>	0.15	<i>U</i>	2	
Residuals in seconds of arc									
1968 08 27	095	0.6+	0.7+	1998 09 18	704	0.3+	0.2+	2000 02 05	704 0.3+ 0.2-
1985 11 12	095	0.9-	1.0+	1998 09 18	704	0.1+	1.9+	2000 02 05	704 0.9+ 0.2-
1991 09 03	413	1.3-	0.2-	1998 10 15	699	1.3+	1.0+	2000 02 06	704 1.0+ 0.7-
1991 09 03	413	1.4-	0.7+	1998 10 15	699	0.9+	0.1-	2000 02 06	704 0.5- 0.4+
1992 12 31	675	1.7-	0.2-	1998 10 15	699	0.5+	0.4+	2000 02 06	704 0.8+ 0.6+
1992 12 31	675	0.4-	0.4-	1998 11 14	699	0.5-	0.2-	2000 02 06	704 1.3+ 0.5+
1998 06 29	704	1.4+	0.8-	1998 11 14	699	0.6-	0.0	2000 02 07	704 0.5- 0.2+
1998 06 29	704	0.2-	0.1-	1998 11 14	699	0.4-	0.4+	2000 02 07	704 0.1+ 0.4-
1998 06 29	704	0.4-	0.2-	1998 12 09	704	0.3+	1.3-	2000 02 07	704 0.9- 1.2-
1998 06 29	704	(0.1+ 3.2-)		1998 12 09	704	0.4+	1.0-	2000 02 07	704 0.3- 0.6-
1998 06 29	704	0.2+	0.8-	1998 12 09	704	(0.5- 2.0-)		2000 02 07	704 0.5- 0.7-
1998 08 02	699	0.4-	0.2-	1998 12 09	704	0.0	1.2-	2000 03 08	704 0.2+ 0.9+
1998 08 02	699	1.0-	0.1+	1998 12 09	704	0.3-	0.9-	2000 03 08	704 1.4+ 0.6+
1998 08 02	699	0.3+	0.2-	1998 12 24	699	1.1-	0.3-	2000 03 08	704 (2.1- 1.5+)
1998 08 27	699	0.6-	0.4+	1998 12 24	699	1.2-	0.5-	2000 03 11	699 0.2- 1.0+
1998 08 27	699	0.8-	0.5+	1998 12 24	699	1.1-	0.5-	2000 03 11	699 0.2+ 1.0+
1998 08 27	699	0.8-	0.5+	1999 01 08	704	0.1+	0.7-	2000 03 11	699 0.0 1.0+
1998 08 28	699	0.7-	0.2+	1999 01 08	704	0.4+	1.0-	2000 03 11	699 0.4+ 0.8+
1998 08 28	699	0.7-	0.5+	1999 01 08	704	0.8+	0.1+	2000 03 12	704 0.4+ 0.8+
1998 08 28	699	0.7-	0.2+	1999 01 08	704	1.4-	0.5-	2000 03 12	704 0.0 0.9+
1998 09 14	704	1.0+	0.8+	1999 01 08	704	0.7+	0.4+	2000 03 12	704 0.5+ 1.0+
1998 09 14	704	0.7+	0.0	1999 02 04	699	0.3-	1.3+	2000 03 12	704 0.2+ 0.1+
1998 09 14	704	1.3+	1.4+	1999 02 04	699	0.8-	0.1-	2000 03 12	704 0.4+ 0.3+
1998 09 18	704	0.1+	1.0+	1999 02 04	699	0.2-	0.6+		
1998 09 18	704	0.5-	0.5+	2000 02 05	704	1.5+	0.2+		

1998 08 27	699	0.1−	0.2+	1998 10 15	704	0.1−	0.3−	2000 03 03	704	0.4−	0.2−
1998 08 27	699	0.1−	0.2+	1998 10 15	704	0.2+	0.2−	2000 03 03	704	0.1+	0.1−
1998 08 28	699	0.1+	0.4+	1998 10 15	704	0.7+	1.0−	2000 03 03	704	0.1+	0.3−
1998 08 28	699	0.1+	0.6+	1998 10 15	704	0.4+	0.5+	2000 03 03	704	0.6−	0.4+
1998 08 28	699	0.2+	0.7+	1998 10 15	704	0.7+	0.4−	2000 03 03	704	0.3−	0.3−
1998 09 14	704	1.0+	0.4−	1998 10 15	470	0.8−	0.3−	2000 03 04	704	0.7+	0.5−
1998 09 14	704	0.5+	0.4+	1998 10 15	470	0.3−	0.2+	2000 03 04	704	0.3−	0.6+
1998 09 14	704	0.2+	0.1+	1998 10 19	699	0.2+	0.3+	2000 03 04	704	0.9+	0.3+
1998 09 15	699	0.1+	0.8+	1998 10 19	699	0.0	0.7+	2000 03 04	704	0.6+	0.5+
1998 09 15	699	0.3+	0.5+	1998 10 19	699	0.1−	0.4+	2000 03 04	704	0.1+	0.5+
1998 09 15	699	0.1+	0.6+	1998 10 28	704	0.1+	1.9+	2000 03 05	704	0.2+	0.3−
1998 09 18	704	0.3+	1.5+	1998 10 28	704	0.7−	1.0+	2000 03 05	704	1.0+	0.8+
1998 09 18	704	0.1−	0.6+	1998 10 28	704	0.5+	0.9−	2000 03 05	704	0.2−	0.5+
1998 09 18	704	0.6+	1.0+	1998 10 28	704	1.1−	0.9+	2000 03 05	704	0.3+	0.7+
1998 09 18	704	0.0	1.6+	1998 10 28	704	1.9−	0.3−	2000 03 05	704	0.0	0.6+
1998 09 18	704	0.4−	0.8+	1998 10 29	704	0.8−	0.0	2000 03 11	704	0.3+	0.4+
1998 09 26	704	0.5+	0.2−	1998 10 29	704	1.0−	0.2−	2000 03 11	704	0.3+	0.3+
1998 09 26	704	0.4+	0.1+	1998 10 29	704	0.7−	0.1−	2000 03 11	704	0.3+	0.5+
1998 09 26	704	0.1+	0.6−	1998 10 29	704	0.5−	0.5−	2000 03 11	704	0.3+	0.2−
1998 09 26	704	0.3+	0.1+	1998 10 29	704	(1.1−	2.3−)	2000 03 11	699	0.3−	0.0
1998 09 26	704	0.5−	0.1+	1998 12 08	704	0.7−	0.5−	2000 03 11	699	0.3−	0.1−
1998 09 27	704	1.2−	0.1−	1998 12 08	704	1.3−	0.9−	2000 03 11	699	0.7−	0.3+
1998 09 27	704	0.0	0.3+	1998 12 08	704	(2.2−	0.5−)	2000 03 11	699	0.3−	1.0+
1998 09 27	704	0.9−	0.4+	1998 12 08	704	0.3−	1.2−				

(14123)* 1998 QA₅₆ = 1991 PV₁₄

Discovered 1998 Aug. 29 at Višňan.

Id. G. V. Williams (*MPC* 32717)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	165.98563	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28559576	ω	146.13461	+0.89212436
<i>a</i>	2.2836781	Ω	187.04362	−0.43223265
<i>e</i>	0.1918787	<i>i</i>	5.28158	−0.13148788
<i>P</i>	3.45	<i>H</i>	15.4	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1991 08 06	675	0.2−	1.3+	1998 09 25	699	0.5−	1.0+	1998 10 19	910	0.4−	0.5+
1991 08 06	675	0.7+	0.5+	1998 09 26	704	0.0	0.4−	1998 10 19	910	0.5−	0.5+
1991 08 09	675	0.6−	0.3−	1998 09 26	704	0.6−	0.7−	1998 10 19	910	0.1−	0.5+
1991 08 09	675	0.1−	0.8−	1998 09 26	704	0.3−	0.6−	1998 10 22	910	0.2−	0.4+
1994 06 11	691	0.1−	1.0+	1998 09 26	704	0.5−	0.4−	1998 10 22	910	0.4−	0.6+
1994 06 11	691	0.1+	1.3+	1998 09 26	704	0.8−	0.4−	1998 10 22	910	0.3−	0.5+
1994 06 11	691	0.0	0.9+	1998 09 27	704	0.7−	0.3+	2000 02 02	704	0.3−	0.1+
1997 04 09	691	0.4+	0.3−	1998 09 27	704	0.4+	0.6+	2000 02 02	704	0.9+	1.0+
1997 04 09	691	0.4+	0.1−	1998 09 27	704	0.5−	0.1+	2000 02 02	704	1.9−	0.5−
1997 04 09	691	0.2−	0.3−	1998 09 27	704	0.5−	0.2+	2000 02 02	704	0.7−	0.3+
1998 08 23	704	(2.5+	0.5+)	1998 09 27	704	0.5+	1.2−	2000 02 04	704	1.4+	0.0
1998 08 23	704	1.4+	0.3−	1998 10 14	704	0.6+	0.2−	2000 02 04	704	0.1−	0.8+
1998 08 23	704	(2.8+	0.5−)	1998 10 14	704	0.4+	0.2−	2000 02 04	704	0.2+	0.7−
1998 08 23	704	0.2−	0.5−	1998 10 14	704	1.1+	0.4+	2000 02 04	704	0.1+	0.4−
1998 08 23	704	1.8+	1.7−	1998 10 14	910	0.1+	0.7+	2000 02 08	704	0.4+	0.2+
1998 08 29	120	0.1−	0.2−	1998 10 14	910	0.0	0.7+	2000 02 08	704	0.2+	0.6−
1998 08 29	120	0.1+	0.4−	1998 10 14	910	0.2+	0.7+	2000 02 08	704	0.4−	0.2+
1998 08 29	120	0.2+	0.2−	1998 10 15	704	0.6−	0.9+	2000 02 08	704	1.4−	0.0
1998 08 31	120	0.1+	0.4−	1998 10 15	704	0.2+	0.2+	2000 03 05	704	0.5+	1.1+
1998 08 31	120	0.0	0.0	1998 10 15	704	1.0+	0.1−	2000 03 05	704	0.5+	0.3+
1998 09 25	699	0.2−	1.2+	1998 10 15	704	0.1+	0.1−	2000 03 05	704	1.1+	0.6+
1998 09 25	699	0.5−	1.0+	1998 10 15	704	0.7−	1.3−				

(14124)* 1998 QN₆₀

Discovered 1998 Aug. 28 by L. Šarounová at Ondřejov.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	133.29308	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.24200355	ω	6.69773	+0.89952994
<i>a</i>	2.5502821	Ω	19.32474	+0.39014225
<i>e</i>	0.1641480	<i>i</i>	12.45210	+0.19655768
<i>P</i>	4.07	<i>H</i>	14.0	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1953 10 31	675	1.3−	0.1+	1998 09 29	704	0.4+	1.7−	2000 01 12	557	0.5−	0.7−
1953 10 31	675	0.0	0.5+	1998 09 29	704	0.6−	0.4−	2000 01 12	557	0.2−	0.9−
1953 12 07	675	0.2+	0.6+	1998 09 29	704	(0.9−	2.9−)	2000 01 12	557	0.4+	0.4−
1953 12 07	675	0.2+	1.1+	1998 09 29	704	1.0−	0.7−	2000 01 12	557	0.2−	0.3−
1986 11 27	675	1.0−	0.3−	1998 09 29	704	1.0+	0.2+	2000 02 04	557	0.0	0.4−
1986 11 27	675	0.4−	0.8+	1998 10 03	699	0.7+	0.9−	2000 02 04	557	0.5+	0.7−
1998 08 28	557	0.2−	0.5−	1998 10 03	699	0.7+	1.5−	2000 02 04	557	0.7+	0.9−
1998 08 28	557	0.0	0.6−	1998 10 03	699	0.5−	0.5−	2000 02 28	557	0.1+	0.2−
1998 08 28	557	0.6+	0.6−	1998 10 21	557	0.2+	0.4+	2000 02 28	557	(2.1+	0.8−)
1998 08 28	704	(0.0	2.3−)	1998 10 21	557	0.0	0.1+	2000 02 29	704	0.4+	0.0
1998 08 28	704	1.1−	0.2−	1998 10 21	557	0.2−	0.0	2000 02 29	704	0.5+	0.1+
1998 08 28	704	0.0	1.6−	1998 10 21	557	0.6+	0.3−	2000 02 29	704	0.2−	0.6+
1998 08 28	704	0.9+	1.4+	1998 10 30	557	0.4+	0.3+	2000 02 29	704	0.3−	0.2+
1998 08 31	704	0.6−	1.2+	1998 10 30	557	0.2+	0.2+	2000 03 05	608	0.1−	0.8−
1998 08 31	704	1.0−	0.3−	1998 10 30	557	0.5+	0.3+	2000 03 05	608	0.4−	0.5−
1998 08 31	704	(1.7−	2.6+)	1998 11 16	704	1.3−	0.9−	2000 03 05	608	0.2−	0.6−
1998 08 31	704	0.4+	1.1−	1998 11 16	704	(2.1−	0.5+)	2000 03 11	699	0.8−	0.3+
1998 08 31	557	0.1−	0.1+	1998 11 16	704	0.4−	0.2−	2000 03 11	699	0.5−	0.1−
1998 08 31	557	0.2−	0.1+	1998 11 16	704	0.0	0.9+	2000 03 11	699	0.0	0.1+
1998 09 14	557	0.2+	0.1+	1998 11 16	704	0.1+	0.1+	2000 03 11	699	0.1−	0.3+
1998 09 14	557	0.0	0.2+	1998 11 20	557	0.2+	0.5+	2000 03 12	704	0.3+	0.5+
1998 09 21	557	0.3+	0.1−	1998 11 21	557	0.3+	0.7+	2000 03 12	704	0.3+	0.7+
1998 09 21	557	0.0	0.3+	1999 01 14	699	0.3−	0.5+	2000 03 12	704	0.0	0.7+
1998 09 27	557	0.0	0.2+	1999 01 14	699	0.6−	0.1+	2000 03 12	704	0.0	0.3+
1998 09 27	557	0.3−	0.1+	1999 01 14	699	0.6+	1.0+	2000 03 12	704	0.4−	0.2+

(14125)* 1998 QT₆₂ = 2000 AJ₂₄₁

Discovered 1998 Aug. 27 by the Beijing Schmidt CCD Asteroid Program at

Xinglong.

Id. G. V. Williams (*MPC* 38483)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	140.97497		(2000.0)		<i>P</i>		<i>Q</i>				
<i>n</i>	0.21664966	ω	140.74917		+0.78831953		+0.61525453				
<i>a</i>	2.7455586	Ω	181.29816		−0.59802845		+0.76478020				
<i>e</i>	0.2667584	<i>i</i>	9.57066		−0.14461775		+0.19124097				
<i>P</i>	4.55	<i>H</i>	13.4		<i>G</i> 0.15	<i>U</i>	2				
Residuals in seconds of arc											
1984 08 23	413	0.4−	1.2−	1998 09 23	327	0.6+	0.2−	1998 10 28	704	0.2−	0.4−
1984 08 23	413	0.8+	0.6+	1998 09 23	327	0.3+	0.3−	1998 10 28	704	0.6+	1.1−
1987 01 10	413	1.4−	0.2+	1998 09 23	327	0.4+	0.0	1998 10 28	704	0.7−	0.2−
1987 01 10	413	0.2−	0.7+	1998 09 23	327	0.6+	0.1−	1998 10 29	704	0.4+	0.0
1997 05 08	675	(4.3−	0.0)	1998 09 26	704	0.4+	0.3+	1998 10 29	704	0.8−	0.1−
1997 05 08	675	0.1+	0.7+	1998 09 26	704	0.6−	0.6−	1998 10 29	704	0.9+	0.4+
1998 08 27	327	0.1−	0.2+	1998 09 26	704	1.2−	1.1+	1998 10 29	704	0.0	0.1+
1998 08 27	327	0.0	0.1+	1998 09 26	704	0.1+	0.9−	1998 10 29	704	0.5−	0.3+
1998 08 27	327	0.0	0.1+	1998 09 26	704	1.1−	0.8−	1998 11 04	327	0.2+	0.8+
1998 08 30	327	0.3−	0.2+	1998 09 27	704	1.0−	0.1−	1998 11 04	327	0.2+	0.1−
1998 08 30	327	0.4−	0.3+	1998 09 27	704	1.1−	0.8+	1998 11 04	327	0.2−	0.5+
1998 08 30	327	0.2−	0.2+	1998 09 27	704	0.2+	0.8−	1998 12 08	704	1.0−	0.8−
1998 08 31	704	1.2+	0.7+	1998 09 27	704	0.7+	0.5−	1998 12 08	704	0.4−	1.3+
1998 08 31	704	(2.5+	0.2−)	1998 09 29	327	1.1−	0.2−	1998 12 08	704	1.3−	0.2−
1998 08 31	704	0.5−	0.9−	1998 09 29	327	1.2−	0.1−	1998 12 08	704	(2.6+	2.2−)
1998 08 31	704	(0.6+	2.9−)	1998 09 29	327	1.1−	0.1−	1998 12 08	704	(2.5−	0.4+)
1998 09 04	327	0.1−	0.4+	1998 09 30	327	0.3−	0.2−	1999 12 14	704	1.4+	1.4−
1998 09 04	327	0.2+	0.3+	1998 09 30	327	0.5−	0.1−	1999 12 14	704	0.2+	1.2−
1998 09 04	327	0.0	0.3+	1998 09 30	327	0.1−	0.1−	1999 12 14	704	0.1+	0.7−

2000 MAR. 20

M.P.C. 39087

1998 09 14	704	0.1−	0.4−	1998 10 10	699	1.2+	0.5+	1999 12 14	704	0.1+	0.8−
1998 09 14	704	0.3+	0.3−	1998 10 10	699	0.8+	0.2+	1999 12 14	704	0.8−	0.9−
1998 09 14	704	0.1+	0.3−	1998 10 10	699	0.3+	0.7+	2000 01 07	704	0.4−	1.0+
1998 09 15	699	0.8+	0.7+	1998 10 14	327	0.2−	0.1−	2000 01 07	704	1.7−	0.1−
1998 09 15	699	0.7+	0.9+	1998 10 14	327	0.1−	0.2−	2000 01 07	704	0.3+	0.5−
1998 09 15	699	0.8+	0.5+	1998 10 14	327	0.1−	0.1−	2000 01 07	704	1.3+	0.2−
1998 09 18	120	0.5+	0.0	1998 10 14	327	0.3−	0.2+	2000 01 07	704	1.0+	0.0
1998 09 18	120	0.5+	0.4+	1998 10 14	327	0.4−	0.1+	2000 01 11	704	0.2+	0.6+
1998 09 18	120	0.3+	0.3−	1998 10 14	327	0.2−	0.0	2000 01 11	704	0.0	0.7+
1998 09 18	704	0.6+	0.1+	1998 10 19	327	0.3−	0.0	2000 01 11	704	0.2−	1.1+
1998 09 18	704	0.5+	0.8+	1998 10 19	327	0.4−	0.1+	2000 01 11	704	0.1−	0.9+
1998 09 18	704	0.2+	0.5+	1998 10 19	327	0.3−	0.0	2000 01 11	704	0.5+	0.4+
1998 09 18	704	0.7+	0.3−	1998 10 28	704	0.9+	0.7−				
1998 09 18	704	0.4−	0.3−	1998 10 28	704	0.6+	0.4−				

(14126)* 1998 QZ₉₀ = 2000 AE₂₃₇

Discovered 1998 Aug. 28 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 38485), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	59.05740	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.23866314	<i>ω</i>	274.47574	+0.03003631	−0.99918187		
<i>a</i>	2.5740233	<i>Ω</i>	173.61182	+0.98615720	+0.02520283		
<i>e</i>	0.1556202	<i>i</i>	14.08726	+0.16306990	+0.03162924		
<i>P</i>	4.13	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1990 09 18	675	0.1−	0.5+	1998 09 27	704	0.8−	0.0	2000 02 29	704	0.1+	0.2−
1990 09 18	675	0.5−	1.3+	1998 09 27	704	0.8−	0.7+	2000 02 29	704	0.3+	0.0
1990 09 28	675	0.3+	1.0−	1998 09 27	704	1.0−	0.1+	2000 02 29	704	0.4+	0.1+
1990 09 28	675	0.3+	0.7+	1998 09 27	704	1.0−	0.8+	2000 03 03	704	0.3+	0.3+
1990 10 15	675	0.1+	1.0−	1998 09 27	704	0.5−	0.1−	2000 03 03	704	0.3+	0.7+
1990 10 15	675	0.7+	1.2+	1998 10 17	699	0.5+	0.4−	2000 03 03	704	0.1+	0.8+
1996 04 21	675	1.7−	0.2−	1998 10 17	699	0.1−	0.4+	2000 03 03	704	0.1+	1.1+
1996 04 21	675	1.2−	1.2+	1998 10 17	699	0.8+	0.3+	2000 03 03	704	0.2+	1.2+
1998 08 28	704	(2.0+	1.6−)	1999 01 20	910	1.2−	1.6−	2000 03 04	704	0.1−	0.3+
1998 08 28	704	0.8+	0.4−	1999 01 20	910	1.8−	1.5−	2000 03 04	704	0.0	0.2+
1998 08 28	704	1.3+	1.5−	1999 01 20	910	1.8−	1.7−	2000 03 04	704	0.0	0.3+
1998 08 28	704	1.4−	1.2−	2000 01 05	704	0.8−	0.7−	2000 03 04	704	0.1+	0.4+
1998 08 28	704	0.3+	1.9−	2000 01 05	704	0.9−	1.4−	2000 03 04	704	0.0	0.1+
1998 08 31	704	1.0−	0.1+	2000 01 05	704	1.3−	0.2+	2000 03 05	704	0.2−	0.7+
1998 08 31	704	1.4+	0.3+	2000 01 05	704	0.3+	1.2+	2000 03 05	704	0.1−	0.5+
1998 08 31	704	0.6−	0.6+	2000 01 11	699	0.1−	0.4+	2000 03 05	704	0.1−	0.8+
1998 08 31	704	1.2+	0.5+	2000 01 11	699	0.8−	0.1−	2000 03 05	704	0.8−	0.6+
1998 08 31	704	0.2−	1.3+	2000 01 11	699	0.3+	0.4−	2000 03 05	704	0.1+	0.7+
1998 09 14	704	0.1+	0.0	2000 02 02	704	0.3+	0.0	2000 03 08	704	0.2+	0.7+
1998 09 14	704	0.3−	0.2+	2000 02 02	704	0.6+	0.2−	2000 03 08	704	0.2+	0.5+
1998 09 14	704	0.4−	0.8+	2000 02 02	704	0.8+	0.2−	2000 03 08	704	0.1+	1.0+
1998 09 18	704	1.1+	0.8+	2000 02 02	704	0.7+	0.2+	2000 03 08	704	0.7+	1.0+
1998 09 18	704	0.2+	0.5+	2000 02 02	704	0.6+	0.3+	2000 03 08	704	0.4+	0.4+
1998 09 18	704	0.9+	0.6+	2000 02 07	704	0.5−	1.8−	2000 03 11	704	0.2+	0.5−
1998 09 18	704	0.7+	1.1+	2000 02 07	704	1.1−	1.8−	2000 03 11	704	0.8+	0.3−
1998 09 18	704	1.6+	0.7+	2000 02 07	704	0.7−	1.6−	2000 03 11	704	0.8+	0.5−
1998 09 25	699	0.1−	0.3+	2000 02 07	704	1.2−	1.8−	2000 03 11	704	1.1+	0.4−
1998 09 25	699	0.1−	0.6+	2000 02 07	704	1.0−	1.4−	2000 03 11	704	0.6+	0.6−
1998 09 25	699	0.1+	0.2+	2000 02 08	704	0.6+	0.0	2000 03 11	699	0.1+	0.4+
1998 09 26	704	0.2+	0.6+	2000 02 08	704	0.2+	0.2+	2000 03 11	699	0.2−	0.4+
1998 09 26	704	0.6−	0.1+	2000 02 08	704	0.0	0.1+	2000 03 11	699	0.1−	0.6+
1998 09 26	704	0.2−	0.1+	2000 02 08	704	0.4+	0.3+	2000 03 11	699	0.0	0.6+
1998 09 26	704	0.6−	0.0	2000 02 08	704	0.0	0.3+				
1998 09 26	704	0.5−	0.4−	2000 02 29	704	0.7+	0.1+				

(14127)* 1998 QA₉₁ = 2000 AA₁₉₃

Discovered 1998 Aug. 28 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 37739)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	151.79122	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.23500526	<i>ω</i>	154.44900	+0.78353864	+0.61897628		
<i>a</i>	2.6006645	<i>Ω</i>	166.87658	−0.60313651	+0.77863654		
<i>e</i>	0.2019108	<i>i</i>	13.80569	−0.14931024	+0.10292470		
<i>P</i>	4.19	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 09 28	413	0.6+	0.2+	1998 09 14	704	0.6−	0.6+	1998 12 12	683	0.2−	1.4−
1981 09 28	413	0.2−	0.8+	1998 09 17	699	0.2+	0.7+	1998 12 13	683	1.2−	0.1+
1981 09 29	413	0.3+	0.9−	1998 09 17	699	0.0	0.1+	1998 12 13	683	1.2−	0.2−
1981 09 29	413	1.0−	0.7+	1998 09 17	699	0.2+	1.0+	1998 12 13	683	1.2−	0.2+
1986 11 06	675	0.3+	0.2−	1998 09 18	704	0.1+	0.5−	1999 01 07	704	0.9+	0.5+
1986 11 06	675	0.3+	0.6+	1998 09 18	704	1.6−	1.0+	1999 01 07	704	1.1−	0.3+
1990 11 13	675	0.2−	0.2+	1998 09 18	704	1.1−	0.2−	1999 01 07	704	0.2+	0.7−
1990 11 13	675	0.4+	0.0	1998 09 18	704	0.4−	0.9+	1999 01 07	704	0.2+	0.1−
1993 03 31	413	0.6−	1.6+	1998 09 18	704	1.0+	1.8+	1999 01 20	910	1.2−	1.3−
1993 03 31	413	0.0	0.6−	1998 09 24	910	0.8+	0.5+	1999 01 20	910	0.9−	1.3−
1993 08 12	413	0.1+	0.0	1998 09 24	910	0.7+	0.4+	1999 01 20	910	1.0−	1.5−
1998 08 02	699	0.9+	0.5+	1998 09 24	910	0.7+	0.5+	2000 01 08	704	0.1+	0.6+
1998 08 02	699	1.6+	0.1+	1998 09 26	704	0.2−	0.8−	2000 01 08	704	0.3+	0.3+
1998 08 02	699	0.9+	0.4+	1998 09 26	704	0.7−	1.0−	2000 01 08	704	0.2−	0.7+
1998 08 28	704	0.3+	1.6+	1998 09 26	704	0.0	0.8−	2000 01 08	704	0.2−	0.6+
1998 08 28	704	0.9+	0.7−	1998 09 26	704	0.5−	0.8−	2000 01 08	704	0.6+	0.6+
1998 08 28	704	1.5+	0.6+	1998 09 26	704	0.8−	1.2−	2000 01 11	704	0.3+	0.1+
1998 08 28	704	(1.5−	2.3+)	1998 09 27	704	0.7−	0.1+	2000 01 11	704	0.1−	0.3−
1998 08 28	704	1.2+	0.6−	1998 09 27	704	0.4−	0.2−	2000 01 11	704	0.2−	0.5−
1998 08 31	704	1.0+	0.6+	1998 09 27	704	0.1+	0.5+	2000 01 11	704	1.8−	0.1+
1998 08 31	704	1.6−	1.5+	1998 09 27	704	0.3+	0.7−	2000 03 06	704	0.5+	0.2+
1998 08 31	704	0.5−	0.5−	1998 12 08	704	1.0−	0.8−	2000 03 06	704	0.7+	0.4+
1998 08 31	704	2.0+	1.2−	1998 12 08	704	(2.2−	0.2+)	2000 03 06	704	0.4+	0.6+
1998 08 31	704	(1.2−	2.2−)	1998 12 08	704	0.4+	0.2−	2000 03 06	704	0.7+	0.0
1998 09 14	704	0.1+	0.5+	1998 12 08	704	0.9−	0.4−	2000 03 06	704	0.5+	0.8+
1998 09 14	704	0.2+	1.0+	1998 12 12	683	0.4−	1.4−				

(14128)* 1998 QX₉₂

Discovered 1998 Aug. 28 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	95.71542	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.21351552	<i>ω</i>	218.01593	+0.62558884	−0.77931409		
<i>a</i>	2.7723608	<i>Ω</i>	193.38711	+0.74858282	+0.61268291		
<i>e</i>	0.1475658	<i>i</i>	8.98732	+0.21968698	+0.13148841		
<i>P</i>	4.62	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1989 11 07	675	1.1−	0.0	1998 10 19	809	(3.3+	1.6+)	1999 01 11	704	0.5+	0.8+
1989 11 07	675	0.8+	0.5+	1998 10 19	809	(2.9+	1.6+)	1999 02 04	704	0.4−	1.0+
1992 06 23	413	1.2−	0.0	1998 10 20	120	0.4−	0.1+	1999 02 04	704	0.1−	0.7−
1992 06 23	413	1.7+	0.2+	1998 10 20	120	0.2+	0.1+	1999 02 04	704	0.8+	1.7−
1993 08 22	675	0.9−	1.6+	1998 10 21	120	0.4−	0.1+	1999 02 04	704	0.4+	1.7−
1993 08 22	675	0.5+	0.4−	1998 10 21	120	1.1−	0.3−	1999 02 04	704	0.9−	0.6−
1998 08 28	704	1.2−	0.3+	1998 10 21	120	0.9−	0.6+	2000 02 07	704	0.3+	1.5−
1998 08 28	704	0.5−	0.3+	1998 11 10	704	0.8+	0.6+	2000 02 07	704	0.5−	1.1−
1998 08 28	704	1.9−	1.9−	1998 11 10	704	1.2+	0.1+	2000 02 07	704	0.6−	1.5−
1998 08 31	910	1.9−	0.4−	1998 11 10	704	0.2+	0.2−	2000 02 07	704	0.7+	1.5−
1998 08 31	910	(2.1−	0.3−)	1998 11 10	704	0.3+	0.2−	2000 02 07	704	(0.0	2.9−)
1998 08 31	910	1.8−	0.4−	1998 11 10	704	1.1+	0.5−	2000 02 08	704	0.1−	0.6+
1998 08 31	704	1.9−	0.7+	1998 11 11	704	0.9+	0.7−	2000 02 08	704	0.1−	0.2+
1998 08 31	704	(2.7−	2.8−)	1998 11 11	704	1.0+	0.1+	2000 02 08	704	0.0	0.3+
1998 08 31	704	(3.2−	1.5−)	1998 11 11	704	(5.6+	0.4−)	2000 02 08	704	0.3−	0.4+
1998 08 31	704	0.2−	1.6−	1998 11 11	704	0.7+	0.2−	2000 02 08	704	0.1−	0.2+
1998 08 31	704	0.9−	0.8−	1998 12 11	699	0.2−	0.5+	2000 03 08	704	0.2+	1.3+
1998 10 18	809	1.4+	1.3+	1998 12 11	699	0.2−	0.1+	2000 03 08	704	0.5+	0.9+
1998 10 18	809	1.7+	1.4+	1998 12 11	699	0.1+	0.2+	2000 03 08	704	0.2−	1.0+

1998 10 18 809 1.7+ 1.8+ 1999 01 11 704 0.2- 0.4- 2000 03 08 704 0.4+ 1.5+
 1998 10 19 809 (3.4+ 1.4+) 1999 01 11 704 0.9- 0.5+ 2000 03 08 704 0.2- 1.5+

(14129)* 1998 QO₉₅ = 1980 TG₈ = 1980 TA₃ = 1984 YU

Discovered 1998 Aug. 19 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 32720)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	108.47936	(2000.0)	P	Q	
<i>n</i>	0.27120690	ω	184.97858	+0.85518672	-0.51554513
<i>a</i>	2.3637538	Ω	206.27224	+0.47962893	+0.82628886
<i>e</i>	0.1515718	<i>i</i>	6.95020	+0.19649875	+0.22684782
<i>P</i>	3.63	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1980 10 10	095	(1.0+ 3.1-)	1998 09 14	704	0.1+ 0.7+	2000 02 07	703	0.1- 0.6-
1980 10 14	511	0.7+ 1.3+	1998 09 15	699	0.5- 0.8+	2000 02 07	703	0.2+ 0.1+
1980 10 14	511	0.3- 0.3+	1998 09 15	699	0.6- 0.9+	2000 02 07	703	0.7+ 0.1-
1980 10 14	511	1.2- 1.1-	1998 09 15	699	0.5- 0.7+	2000 02 08	704	0.0 0.2+
1984 12 18	801	0.0 0.6-	1998 09 18	704	0.3- 0.6+	2000 02 08	704	0.2- 0.0
1984 12 22	033	0.4- 0.1-	1998 09 18	704	0.2+ 0.1-	2000 02 08	704	0.4- 0.2-
1984 12 22	033	0.0 0.9-	1998 09 18	704	0.4- 0.1-	2000 02 08	704	0.2- 0.6-
1984 12 23	801	1.5+ 0.6-	1998 09 18	704	0.1- 0.4+	2000 02 08	704	0.6+ 0.7-
1991 11 02	691	0.2+ 0.3-	1998 09 18	704	0.0 1.6+	2000 02 12	704	0.5+ 0.1+
1991 11 02	691	0.2- 0.6-	1998 10 11	699	0.5- 0.2-	2000 02 12	704	0.7- 0.4+
1991 11 02	691	0.3- 0.3-	1998 10 11	699	0.1- 0.1+	2000 02 12	704	0.6- 0.6+
1998 08 19	704	0.1+ 0.0	1998 10 11	699	0.1- 0.0	2000 02 12	704	0.7- 0.3+
1998 08 19	704	0.9+ 1.5-	1998 10 20	699	0.9+ 1.1+	2000 02 12	704	0.4+ 0.3+
1998 08 19	704	0.1+ 1.1-	1998 10 20	699	0.9+ 1.6+	2000 03 01	703	0.6- 1.5+
1998 08 19	704	0.5+ 1.5-	1998 10 20	699	0.3- 0.4+	2000 03 01	703	0.5+ 0.5+
1998 08 19	704	0.1+ 0.1-	1998 12 09	704	0.9- 0.9-	2000 03 01	703	0.1+ 0.1+
1998 08 24	704	0.2+ 0.3+	1998 12 09	704	0.3- 0.1+	2000 03 01	703	0.6+ 0.4-
1998 08 24	704	0.2+ 0.1+	1998 12 09	704	1.2- 1.0+	2000 03 11	699	0.1+ 0.7+
1998 08 24	704	0.8+ 0.6+	1998 12 09	704	(1.6- 2.5-)	2000 03 11	699	0.2- 1.2+
1998 08 24	704	(0.9+ 3.1-)	2000 02 02	704	0.5+ 0.7+	2000 03 11	699	0.5- 0.7+
1998 08 24	704	0.4- 0.0	2000 02 02	704	0.3+ 0.1+	2000 03 11	699	0.9- 1.1+
1998 09 14	704	0.6- 0.5+	2000 02 02	704	0.7+ 0.3+	2000 03 13	704	0.4+ 0.2+
1998 09 14	704	0.1- 0.3+	2000 02 02	704	0.5+ 0.8+	2000 03 13	704	0.1- 0.3+
1998 09 14	704	0.3- 0.1+	2000 02 02	704	0.2+ 0.5+	2000 03 13	704	0.7+ 0.4+
1998 09 14	704	0.1- 0.0	2000 02 07	703	0.2- 0.0	2000 03 13	704	0.0 0.7-

(14130)* 1998 QQ₁₀₃ = 1981 WT₅ = 1991 RB₃₆

Discovered 1998 Aug. 26 by E. W. Elst at the European Southern Observatory.

Id. A. Gnädig (*MPC* 32988, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	131.89762	(2000.0)	P	Q	
<i>n</i>	0.28646797	ω	350.48038	+0.93013624	-0.36500369
<i>a</i>	2.2790403	Ω	31.02293	+0.34184038	+0.82062899
<i>e</i>	0.1145039	<i>i</i>	4.47758	+0.13413324	+0.43970486
<i>P</i>	3.44	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1981 11 24	095	0.9+ 2.1-	1998 09 26	704	0.2+ 0.1-	1998 10 02	704	0.3- 0.7-
1991 09 14	675	0.6- 0.4+	1998 09 26	704	0.0 0.3-	1998 10 02	704	(2.3- 0.1-)
1991 09 14	675	0.5- 0.8+	1998 09 26	704	0.2+ 0.4-	1998 10 02	704	(2.4- 1.6+)
1991 10 01	413	0.7+ 1.7+	1998 09 26	704	0.0 0.1-	1998 10 17	699	0.9- 0.8+
1991 10 01	413	(0.1- 3.2+)	1998 09 26	704	0.5+ 1.2-	1998 10 17	699	0.6- 0.1+
1997 04 29	691	1.7+ 1.9-	1998 09 26	704	0.0 0.3-	1998 10 17	699	0.5- 0.2+
1997 04 29	691	0.8- 0.5+	1998 09 26	704	0.6+ 1.1-	1998 11 10	699	0.1- 0.6+
1997 04 29	691	1.0- 0.3+	1998 09 26	704	0.1+ 0.2+	1998 11 10	699	0.2- 0.0
1997 05 08	691	0.6- 0.1-	1998 09 26	704	0.2+ 0.5-	1998 11 10	699	0.4- 0.5+
1997 05 08	691	1.3- 0.4+	1998 09 26	704	0.8+ 0.5+	1998 11 25	699	1.4- 0.1+
1997 05 08	691	1.1- 0.4+	1998 09 27	704	0.6+ 0.8+	1998 11 25	699	1.6- 0.1-
1998 08 26	809	(3.4+ 4.4+)	1998 09 27	704	0.6+ 0.5-	1998 11 25	699	1.0- 0.6+

1998 08 26	809	(3.5+ 4.0+)	1998 09 27	704	1.2+ 0.2+	1998 12 08	704	1.1- 1.6-
1998 08 26	809	(3.0+ 4.3+)	1998 09 27	704	0.5+ 0.6+	1998 12 08	704	0.9- 1.4-
1998 08 27	809	(2.3+ 3.3+)	1998 09 27	704	0.4+ 0.2+	1998 12 08	704	1.2- 0.4+
1998 08 27	809	(2.7+ 3.1+)	1998 09 27	704	0.3+ 0.1+	1998 12 08	704	0.7- 0.8-
1998 08 27	809	(2.6+ 3.3+)	1998 09 27	704	0.5+ 0.0	1998 12 08	704	0.8- 1.5-
1998 08 28	704	0.1+ 0.3+	1998 09 27	704	0.6+ 0.8+	2000 01 04	704	1.0- 0.5+
1998 08 28	704	0.1- 1.2+	1998 09 27	704	0.3- 0.5+	2000 01 04	704	0.4- 0.2-
1998 08 28	704	0.1- 1.1+	1998 09 27	704	0.4+ 0.8-	2000 01 04	704	0.3+ 1.1+
1998 08 28	704	(2.4- 0.3+)	1998 09 29	704	0.3+ 0.4+	2000 01 04	704	0.4+ 0.7+
1998 08 28	704	1.8- 1.1-	1998 09 29	704	0.0 0.4+	2000 02 04	704	0.9+ 1.2+
1998 09 14	704	0.3+ 0.5+	1998 09 29	704	0.1+ 0.0	2000 02 04	704	1.0+ 0.4-
1998 09 14	704	1.1+ 0.3-	1998 09 29	704	0.4- 0.4-	2000 02 04	704	1.1+ 0.3-
1998 09 14	704	1.3- 1.4-	1998 09 29	704	0.7- 0.5-	2000 02 04	704	0.3+ 1.2+
1998 09 17	699	0.2+ 0.8+	1998 09 29	704	0.4+ 0.4+	2000 02 04	704	0.1+ 0.2-
1998 09 17	699	0.5+ 0.4+	1998 09 29	704	0.3+ 0.3-	2000 03 05	704	0.0 0.0
1998 09 17	699	0.6+ 0.6+	1998 09 29	704	0.8+ 0.9+	2000 03 05	704	0.0 0.2+
1998 09 18	704	0.5- 0.5-	1998 09 29	704	0.5- 0.2+	2000 03 05	704	0.3- 0.2-
1998 09 18	704	0.7+ 0.2-	1998 09 29	704	(5.1- 0.2+)	2000 03 05	704	0.0 0.2-
1998 09 18	704	0.1+ 0.1+	1998 10 02	704	0.5- 0.4-	2000 03 05	704	0.4- 0.4+
1998 09 18	704	0.9+ 0.2+	1998 10 02	704	0.6+ 0.2-	2000 03 12	704	0.1+ 0.2-
1998 09 18	704	0.7+ 0.1+	1998 10 02	704	0.6- 0.5-	2000 03 12	704	0.5+ 0.3+
1998 09 25	699	0.1+ 0.0	1998 10 02	704	1.2- 0.9-	2000 03 12	704	0.4+ 0.5-
1998 09 25	699	0.2+ 0.5+	1998 10 02	704	(2.8- 0.4-)	2000 03 12	704	0.4+ 0.2-
1998 09 25	699	0.6+ 0.7+	1998 10 02	704	1.1- 1.3+	2000 03 12	704	0.4+ 0.6-

(14131)* 1998 QN₁₀₅ = 1976 JV₄ = 1991 RD₁₇

Discovered 1998 Aug. 25 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 32723, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	127.64204	(2000.0)	P	Q	
<i>n</i>	0.27972396	ω	337.62978	+0.93744882	-0.34308180
<i>a</i>	2.3155257	Ω	42.58056	+0.33114821	+0.82651996
<i>e</i>	0.1526000	<i>i</i>	5.00498	+0.10738050	+0.44627305
<i>P</i>	3.52	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1976 05 03	809	0.1+ 1.0+	1998 09 27	704	0.8- 0.0	2000 02 04	704	0.4- 0.2+
1991 09 15	675	1.5+ 1.7-	1998 09 27	704	0.1+ 0.1-	2000 02 04	704	0.1+ 0.4+
1991 09 15	675	0.3+ 1.5-	1998 09 27	699	0.9+ 0.3+	2000 02 04	704	0.2- 0.5+
1991 09 17	675	(0.4+ 2.3-)	1998 09 27	704	0.0 0.4-	2000 02 04	704	0.0 0.1+
1991 09 17	675	0.9+ 0.7-	1998 09 27	699	0.7+ 0.5+	2000 02 11	704	0.0 0.1+
1997 05 07	566	0.6+ 1.5+	1998 09 27	699	0.3+ 0.5-	2000 02 11	704	0.6+ 0.1+
1997 05 07	566	0.2+ 1.5+	1998 10 12	699	0.1+ 0.1+	2000 02 11	704	0.8+ 1.0+
1997 05 07	566	0.0 1.3+	1998 10 12	699	0.1- 0.4+	2000 02 11	704	1.2+ 0.2+
1998 08 25	809	1.6- 0.8+	1998 10 12	699	0.6- 0.5+	2000 02 11	704	0.5+ 0.3+
1998 08 25	809	1.8- 0.4+	1998 10 13	704	1.9+ 1.3+	2000 02 29	704	0.2+ 0.7+
1998 08 25	809	(2.4- 0.2+)	1998 10 13	704	0.5+ 0.3+	2000 02 29	704	0.1+ 0.2+
1998 08 26	809	(0.3+ 2.2+)	1998 10 13	704	1.0- 1.4+	2000 02 29	704	0.4+ 0.3+
1998 08 26	809	0.2- 1.8+	1998 10 13	704	0.1- 0.3+	2000 02 29	704	0.5+ 0.4+
1998 08 26	809	0.1+ 2.0+	1998 10 13	704	0.4- 0.8+	2000 02 29	704	0.0 0.0
1998 09 14	704	0.7- 0.6+	1998 10 14	704	0.3- 0.3+	2000 03 02	703	0.2- 0.7+
1998 09 14	704	0.2- 0.7-	1998 10 14	704	1.2- 0.3+	2000 03 02	703	0.6- 0.5+
1998 09 14	704	0.8- 0.4-	1998 10 14	704	0.0 0.2+	2000 03 02	703	0.3+ 0.6-
1998 09 14	704	0.5- 0.2-	1998 10 14	704	1.2- 0.1+	2000 03 02	703	0.4+ 0.1-
1998 09 18	704	0.3+ 0.4+	1998 10 14	704	0.4+ 1.6+	2000 03 05	704	0.0 0.2+
1998 09 18	704	1.3+ 0.0	1998 10 15	704	1.3- 0.2-	2000 03 05	704	0.0 0.4+
1998 09 18	704	0.5- 0.6+	1998 10 15	704	1.5- 0.8+	2000 03 05	704	0.5+ 0.3+
1998 09 18	704	0.3+ 0.1+	1998 10 15	704	0.5- 0.6+	2000 03 05	704	0.4+ 0.3+

2000 MAR. 20

M.P.C. 39089

1998 09 27 704 0.2+ 0.3+ 1998 12 08 704 (2.2- 1.2-)
 1998 09 27 704 0.8+ 0.7+ 2000 02 04 704 0.1+ 0.1+

(14132)* 1998 QB₁₀₆ = 1981 UA₁₂ = 1981 UY₂₆ = 1991 PT₁₃
 Discovered 1998 Aug. 25 by E. W. Elst at the European Southern

Observatory.

Id. S. Nakano (*MPC* 32989), G. V. Williams (d, *MPC* 20484)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	137.35211		(2000.0)		P		Q
<i>n</i>	0.28690815	ω	267.00424		+0.97159145		-0.22708993
<i>a</i>	2.2767087	Ω	106.11445		+0.23517976		+0.89494745
<i>e</i>	0.1975314	<i>i</i>	3.97724		+0.02646776		+0.38405628
<i>P</i>	3.44	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 10 22	095	1.5+	0.3-	1998 09 18	704	0.3-	0.5+	2000 02 04	704	0.1+	0.1+
1981 10 25	675	0.3-	0.8-	1998 09 18	704	1.1-	1.6+	2000 02 04	704	0.1+	0.4-
1981 10 26	675	0.1+	0.8-	1998 09 18	704	1.9-	1.7+	2000 02 04	704	0.2-	0.4-
1991 08 06	675	0.2-	0.5-	1998 09 18	704	1.1-	1.6+	2000 02 04	704	1.0-	0.3+
1991 08 06	675	0.4-	0.9-	1998 09 18	704	1.2-	2.0+	2000 02 04	704	0.3+	0.1+
1991 08 10	675	1.0-	0.7+	1998 11 07	910	1.0-	0.1-	2000 02 11	704	0.4+	0.6+
1991 08 10	675	0.2+	0.0	1998 11 07	910	0.9-	0.1-	2000 02 11	704	0.0	0.2+
1998 07 26	699	1.5-	0.5+	1998 11 07	910	0.4-	0.1+	2000 02 11	704	0.4+	0.2-
1998 07 26	699	0.2+	0.1+	1998 11 08	910	1.3-	0.3-	2000 02 11	704	1.2-	0.2+
1998 07 26	699	0.6-	0.9+	1998 11 08	910	1.4-	0.0	2000 02 26	703	0.4+	1.0-
1998 08 25	809	1.9+	0.3-	1998 11 08	910	1.2-	0.2-	2000 02 26	703	0.8-	0.2-
1998 08 25	809	1.5+	0.7-	1998 11 23	699	0.6-	0.3-	2000 02 26	703	0.2+	0.1+
1998 08 25	809	0.8+	1.9-	1998 11 23	699	0.0	1.1-	2000 02 26	703	0.2-	0.7+
1998 08 26	809	1.5+	0.3-	1998 11 23	699	0.4-	0.4-	2000 03 12	704	0.4+	0.1-
1998 08 26	809	1.8+	1.0-	1998 12 08	704	1.3-	1.6-	2000 03 12	704	0.2-	0.3+
1998 08 26	809	1.3+	0.9-	1998 12 08	704	0.1-	1.1+	2000 03 12	704	0.0	0.1-
1998 09 14	704	1.2+	0.2+	1998 12 08	704	1.5-	1.0+	2000 03 12	704	0.2+	0.1+
1998 09 14	704	1.0+	0.7-	1998 12 08	704	0.3-	0.0	2000 03 12	704	1.0+	0.2-
1998 09 14	704	1.8+	0.3-	1998 12 16	699	1.1+	0.3+				
1998 09 14	704	1.1+	0.0	1998 12 16	699	(2.3+	0.7-)				

(14133)* 1998 RJ₁₇ = 1987 US₃ = 1997 MP₁₀

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 32991)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	62.84449		(2000.0)		P		Q
<i>n</i>	0.26097661	ω	261.71563		+0.16104574		-0.98694176
<i>a</i>	2.4251298	Ω	178.99980		+0.96220960		+0.15628750
<i>e</i>	0.2304245	<i>i</i>	10.55577		+0.21958358		+0.03898940
<i>P</i>	3.78	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 10 26	054	0.8+	0.6+	1998 09 15	699	0.2+	0.4+	2000 02 08	704	0.5+	0.6+
1987 10 26	054	0.9-	0.2+	1998 09 15	699	0.7-	0.6+	2000 02 08	704	0.6+	1.8+
1997 06 30	691	0.1+	0.3+	1998 09 18	704	1.1+	0.1-	2000 02 08	704	(0.1-	2.1+)
1997 06 30	691	0.3+	0.1+	1998 09 18	704	0.1-	0.4+	2000 02 29	704	0.4-	0.2+
1997 06 30	691	0.3+	0.2-	1998 09 18	704	0.0	0.4-	2000 02 29	704	0.7-	0.3+
1997 07 12	691	0.2-	0.2-	1998 09 18	704	0.6-	0.1+	2000 02 29	704	0.3-	0.5+
1997 07 12	691	0.3-	0.3+	1998 09 18	704	0.4+	0.8+	2000 02 29	704	0.4-	0.1+
1997 07 12	691	0.3-	0.0	1998 11 06	910	1.0-	0.6+	2000 02 29	704	0.7-	0.4+
1998 08 23	704	1.1+	0.0	1998 11 06	910	1.0-	0.6+	2000 03 03	704	0.4-	0.1-
1998 08 23	704	0.1+	0.5+	1998 11 06	910	1.0-	0.5+	2000 03 03	704	0.4+	0.1-
1998 08 23	704	1.9+	0.3-	1998 11 08	910	0.4-	1.0-	2000 03 03	704	1.0-	0.1+
1998 08 23	704	0.2-	1.7+	1998 11 08	910	0.7-	0.2+	2000 03 08	704	0.3+	0.2-
1998 08 23	704	1.4+	1.5+	1998 11 08	910	1.0-	0.7+	2000 03 08	704	1.3+	0.7+
1998 08 30	327	0.5-	0.7+	1998 12 08	704	1.5-	0.6+	2000 03 08	704	0.3+	0.1+
1998 08 30	327	0.6-	0.5+	1998 12 08	704	1.4+	0.2-	2000 03 08	704	0.4+	0.5+
1998 08 30	327	0.6-	0.3+	1998 12 08	704	0.1-	1.3+	2000 03 08	704	0.2+	0.0
1998 09 14	704	0.4-	0.4-	2000 01 05	704	0.3+	0.4+	2000 03 11	704	0.1+	0.1-

1998 09 14	704	0.6+	0.3+	2000 01 05	704	0.3+	0.9+	2000 03 11	704	0.3-	0.0
1998 09 14	704	1.5-	1.6-	2000 01 05	704	0.1+	0.8+	2000 03 11	704	0.2-	0.3+
1998 09 14	704	0.4+	0.9+	2000 02 08	704	(2.9+	1.3-)	2000 03 11	704	0.1-	0.6+
1998 09 15	699	0.2+	0.2-	2000 02 08	704	1.8+	0.7+	2000 03 11	704	0.0	0.5+

(14134)* 1998 RP₄₂ = 2000 CS₄₄

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38491)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	64.80687		(2000.0)		P		Q
<i>n</i>	0.24196754	ω	165.80889		+0.31736488		-0.94510538
<i>a</i>	2.5505351	Ω	265.64242		+0.86226390		+0.32175036
<i>e</i>	0.1203753	<i>i</i>	4.47601		+0.39469039		+0.05703086
<i>P</i>	4.07	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1954 12 22	675	0.7-	0.4-	1998 09 14	704	1.1-	0.1-	1999 12 05	703	0.0	0.7+
1954 12 22	675	0.4+	0.3+	1998 09 16	699	0.4-	0.4+	1999 12 05	704	1.5+	0.8-
1984 05 23	413	0.8+	0.1-	1998 09 16	699	0.3-	0.7+	1999 12 05	703	0.1+	0.1+
1984 05 23	413	(4.0+	0.1-)	1998 09 16	699	0.2-	0.2+	1999 12 05	704	0.6-	0.3+
1986 09 10	675	0.4+	0.5-	1998 09 18	704	0.0	0.6+	1999 12 05	703	1.1+	1.5-
1986 09 10	675	1.3+	0.9-	1998 09 18	704	0.4+	0.3+	1999 12 05	704	0.2+	0.4+
1990 10 14	675	1.0-	0.8+	1998 09 18	704	0.2-	1.4+	2000 02 02	704	0.8-	0.5+
1990 10 14	675	0.1-	0.9-	1998 09 18	704	0.4-	0.4+	2000 02 02	704	0.6-	0.4+
1998 08 23	704	0.5+	0.7+	1998 09 18	704	0.1+	1.1+	2000 02 02	704	0.3-	0.1-
1998 08 23	704	(2.3+	0.5-)	1998 09 27	699	0.7+	0.4+	2000 02 02	704	0.3-	0.0
1998 08 23	704	0.1-	0.5+	1998 09 27	699	0.5+	1.2+	2000 02 02	704	0.1+	0.0
1998 08 23	704	1.0+	0.3+	1998 09 27	699	0.8+	0.4-	2000 02 06	704	0.2+	0.4+
1998 08 23	704	1.2-	1.7-	1998 10 11	699	0.1+	0.1-	2000 02 06	704	0.4+	0.4+
1998 09 02	327	0.5-	0.1-	1998 10 11	699	0.7-	0.6+	2000 02 06	704	0.3+	0.4+
1998 09 02	327	0.6-	0.3-	1998 10 11	699	0.7+	0.0	2000 02 06	704	0.1-	0.9+
1998 09 02	327	0.0	0.2+	1998 12 19	327	0.2-	1.1-	2000 02 06	704	0.5+	0.7+
1998 09 14	704	0.3+	0.5-	1998 12 19	327	0.1-	0.8-	2000 02 13	106	1.3-	0.4-
1998 09 14	704	0.2+	0.7-	1998 12 19	327	0.0	0.9-	2000 02 13	106	0.2-	0.2-
1998 09 14	704	0.5-	0.4-	1999 12 05	703	1.8+	0.7-	2000 02 13	106	0.0	0.4+

(14135)* 1998 RZ₆₂ = 1993 FU₃₁

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33001)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	138.07161		(2000.0)		P		Q
<i>n</i>	0.25685402	ω	297.39946		+0.98919324		+0.13937740
<i>a</i>	2.4510103	Ω	54.62256		-0.10689532		+0.89800506
<i>e</i>	0.1987691	<i>i</i>	3.19931		-0.10034999		+0.41732583
<i>P</i>	3.84	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 03 19	809	0.0	0.1-	1998 09 18	704	0.2-	0.1-	2000 01 06	704	0.6-	0.3-
1993 03 20	809	1.0-	0.1-	1998 09 24	699	0.3+	0.7+	2000 02 03	704	0.8+	0.6+
1993 03 24	809	0.1+	1.1-	1998 09 24	699	0.8-	1.3+	2000 02 03	704	0.2+	0.2+
1996 01 18	691	0.2+	0.3-	1998 09 24	699	0.2+	0.3+	2000 02 03	704	0.6+	0.2+
1996 01 18	691	0.1-	0.2-	1998 09 26	704	0.5-	0.3+	2000 02 03	704	0.4+	0.5+
1996 01 18	691	0.1+	0.3-	1998 09 26	704	0.2+	0.7-	2000 02 03	704	0.2+	1.1+
1998 06 29	704	(2.5-	0.7-)	1998 09 26	704	1.1+	0.7-	2000 02 28	704	0.4-	0.7+
1998 06 29	704	1.0+	1.3+	1998 09 26	704	0.2+	0.5-	2000 02 28	704	0.7-	0.1-
1998 06 29	704	0.9+	0.8-	1998 09 26	704	0.4-	0.8-	2000 02 28	704	0.7-	0.7+
1998 06 29	704	1.5-	1.8+	1998 09 27	704	0.4-	0.0	2000 02 28	704	0.8-	0.9+
1998 08 04	699	0.6-	0.7-	1998 09 27	704	0.8-	0.0	2000 02 28	704	0.4-	0.5+
1998 08 04	699	0.3+	0.2+	1998 09 27	704	0.3-	0.9-	2000 03 04	704	0.9+	0.2-

M.P.C. 39090

2000 MAR. 20

1998 09 18	704	0.3+	0.1-	1998 10 17	699	0.9-	0.0	2000 03 05	704	(2.3+	0.5+)
1998 09 18	704	0.9+	1.3-	2000 01 06	704	0.6-	0.0	2000 03 05	704	0.1-	0.4-
1998 09 18	704	0.1+	0.2+	2000 01 06	704	0.1+	0.6-	2000 03 05	704	0.5-	0.4-
1998 09 18	704	1.3+	0.4+	2000 01 06	704	0.1-	0.0				

(14136)* 1998 RM₆₇ = 1981 YN = 1991 RR₁₃

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33004)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.28411419	<i>ω</i>	170.11123	-0.19591436	-0.97918249		
<i>a</i>	2.2916103	<i>Ω</i>	291.17174	+0.89576776	-0.15666716		
<i>e</i>	0.1702222	<i>i</i>	3.26416	+0.39902091	-0.12906220		
<i>P</i>	3.47	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 12 31	801	0.0	0.2-	1998 09 26	704	1.7-	0.0	1998 12 09	704	(2.6+	0.6+)
1991 09 13	675	0.4+	1.3-	1998 09 27	704	0.0	0.6+	1998 12 09	704	0.1+	1.9+
1991 09 13	675	0.6+	0.6-	1998 09 27	704	0.1-	1.0+	1998 12 24	699	0.9-	0.2+
1991 09 15	675	0.8+	1.3-	1998 09 27	704	0.1-	1.5+	1998 12 24	699	0.8+	0.2-
1991 09 15	675	0.6+	1.6-	1998 09 27	704	0.3-	1.2+	1998 12 24	699	1.7-	0.5+
1998 08 27	699	0.4+	0.5+	1998 09 27	704	1.0-	1.0+	1999 01 10	699	0.0	1.3-
1998 08 27	699	0.7+	0.0	1998 10 12	292	(0.3+	3.0-)	1999 01 10	699	0.3+	0.8-
1998 08 27	699	0.1-	0.2+	1998 10 12	292	(0.5-	3.6-)	1999 01 10	699	1.2+	0.7-
1998 09 14	704	0.6+	0.0	1998 10 12	292	(0.1+	3.0-)	2000 01 28	704	0.2+	0.3+
1998 09 14	704	0.2+	0.3-	1998 10 14	699	0.7+	0.7-	2000 01 28	704	1.1+	0.7+
1998 09 14	704	0.5-	0.0	1998 10 14	699	1.0+	1.0-	2000 01 28	704	0.9+	0.1+
1998 09 17	699	0.2+	0.7+	1998 10 14	699	0.7+	0.7-	2000 03 10	704	0.6+	0.8-
1998 09 17	699	0.9+	0.2+	1998 10 15	292	0.3-	0.8-	2000 03 10	704	0.3+	0.6+
1998 09 17	699	0.7+	0.6+	1998 10 15	292	0.0	0.9-	2000 03 10	704	0.2-	0.5-
1998 09 18	704	0.3+	1.1+	1998 10 15	292	0.1-	0.3-	2000 03 10	704	1.1-	0.9+
1998 09 18	704	0.6-	0.9+	1998 10 17	292	0.5+	0.1+	2000 03 10	704	1.1-	0.4+
1998 09 18	704	0.1-	0.2+	1998 10 17	292	0.0	0.5+	2000 03 14	704	1.0+	0.1-
1998 09 18	704	0.2-	0.5+	1998 10 17	292	1.0+	0.4-	2000 03 14	704	0.9+	1.3+
1998 09 18	704	0.9-	0.5+	1998 10 25	292	0.2-	0.3-	2000 03 14	704	0.1-	0.3+
1998 09 26	704	0.8-	0.7+	1998 10 25	292	(0.1+	2.2-)	2000 03 14	704	0.0	0.1+
1998 09 26	704	0.6-	0.2+	1998 10 25	292	0.1-	1.0-	2000 03 14	704	1.0-	0.3-
1998 09 26	704	0.7-	0.1+	1998 12 09	704	1.4-	0.7-				
1998 09 26	704	1.3-	0.3+	1998 12 09	704	0.1-	1.9+				

(14137)* 1998 RB₇₁ = 1975 XC

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33006)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.21050992	<i>ω</i>	307.93987	-0.19175049	-0.97889202		
<i>a</i>	2.7986870	<i>Ω</i>	152.86122	+0.94208135	-0.20378549		
<i>e</i>	0.2157819	<i>i</i>	8.91973	+0.27516263	+0.01555256		
<i>P</i>	4.68	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1975 12 01	805	1.0+	0.9-	2000 02 01	703	0.3-	0.3+	2000 02 25	703	0.3+	0.3+
1975 12 04	805	0.7-	0.8-	2000 02 01	703	0.1-	0.4+	2000 02 25	703	0.2+	0.2+
1996 04 15	691	0.0	0.6+	2000 02 02	704	0.5-	0.4+	2000 02 29	704	0.1+	0.2+
1996 04 15	691	0.2+	0.4+	2000 02 02	704	0.1-	0.3+	2000 02 29	704	0.3-	0.0
1996 04 15	691	0.1+	0.5+	2000 02 02	704	0.1-	0.7+	2000 02 29	704	0.2+	0.2+
1998 09 14	704	0.9-	0.2-	2000 02 02	704	0.1-	0.4+	2000 02 29	704	0.1-	0.4+
1998 09 14	704	0.4+	0.5+	2000 02 02	704	0.3+	0.9+	2000 02 29	704	0.1+	0.1+
1998 09 14	704	1.4+	0.5-	2000 02 05	704	0.4+	0.2+	2000 03 03	704	0.3+	0.1+
1998 09 17	699	0.1+	0.2-	2000 02 05	704	0.9+	0.3+	2000 03 03	704	0.3+	0.2-
1998 09 17	699	0.1-	1.1+	2000 02 05	704	1.0+	0.6+	2000 03 03	704	0.3+	0.2-
1998 09 17	699	0.4-	1.8-	2000 02 06	704	(2.3+	0.4+)	2000 03 03	704	0.3+	0.3-
1998 09 18	704	0.6-	1.1-	2000 02 06	704	0.3+	0.7-	2000 03 03	704	0.3+	0.3-

1998 09 18	704	0.3+	0.8+	2000 02 06	704	0.3+	0.5-	2000 03 04	704	0.1-	0.2+
1998 09 18	704	1.4-	0.5+	2000 02 06	704	0.9-	1.1+	2000 03 04	704	0.2-	0.1+
1998 09 18	704	0.7+	0.7+	2000 02 07	691	0.2-	0.5-	2000 03 04	704	0.0	0.5-
1998 09 21	910	0.6+	0.9+	2000 02 07	691	0.2-	0.6-	2000 03 04	704	0.2+	0.2-
1998 09 21	910	0.7+	1.0+	2000 02 07	691	0.1+	0.4-	2000 03 04	704	0.2+	0.3-
1998 09 21	910	0.6+	1.0+	2000 02 08	704	0.0	0.2+	2000 03 05	704	0.2-	0.1+
1998 09 26	704	(0.5-	2.1-)	2000 02 08	704	0.6+	0.3-	2000 03 05	704	0.4-	0.3+
1998 09 26	704	0.2-	0.9-	2000 02 08	704	0.4+	0.2-	2000 03 05	704	0.1-	0.1-
1998 09 26	704	0.3+	0.2+	2000 02 08	704	0.2+	1.0-	2000 03 05	704	0.3-	0.2+
1998 09 26	704	0.5-	0.0	2000 02 10	732	0.6-	0.6+	2000 03 05	704	0.3-	0.6+
1998 09 26	704	1.3-	0.4-	2000 02 10	732	0.9-	0.0	2000 03 11	704	0.5-	0.1+
1998 09 27	704	0.1+	0.6-	2000 02 11	704	0.5+	0.1+	2000 03 11	704	0.2-	0.1+
1998 09 27	704	0.3-	0.1-	2000 02 11	704	0.7+	0.3+	2000 03 11	704	0.0	0.2+
1998 09 27	704	0.0	0.2+	2000 02 11	704	0.3+	0.1+	2000 03 11	699	0.4+	0.4+
1998 09 27	704	1.7-	1.8+	2000 02 11	704	1.0+	0.2-	2000 03 11	704	0.2-	0.1+
1998 09 27	704	0.3-	0.9+	2000 02 11	704	0.8-	0.3+	2000 03 11	704	0.5-	0.2-
1998 10 17	699	0.0	0.3-	2000 02 11	691	0.0	0.8-	2000 03 11	699	0.1+	0.6+
1998 10 17	699	0.6+	1.7+	2000 02 11	691	0.1-	0.6-	2000 03 11	699	0.5-	0.3+
1998 10 17	699	0.2+	0.6+	2000 02 11	691	0.1+	0.4-	2000 03 11	699	0.2-	0.3+
2000 02 01	703	0.4+	0.3+	2000 02 25	703	0.2-	0.1+				
2000 02 01	703	0.5-	0.0	2000 02 25	703	0.3-	0.0				

(14138)* 1998 RL₇₁ = 1996 DV₅

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33007)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.26577265	<i>ω</i>	282.00628	+0.82290041	-0.56596124		
<i>a</i>	2.3958660	<i>Ω</i>	112.48255	+0.54016234	+0.75183235		
<i>e</i>	0.2031197	<i>i</i>	3.11607	+0.17623723	+0.33828389		
<i>P</i>	3.71	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 02 16	010	0.6-	0.5-	1998 09 18	704	0.5-	0.0	2000 02 11	704	0.5+	0.8+
1996 02 16	010	0.4-	0.2+	1998 09 26	704	0.6+	0.2+	2000 02 26	703	0.2+	0.5-
1996 02 16	010	0.9-	0.1+	1998 09 26	704	0.2-	0.2-	2000 02 26	703	1.8+	0.0
1996 02 17	010	0.7+	1.0-	1998 09 26	704	0.3+	0.6-	2000 02 26	703	0.6+	1.8+
1996 02 17	010	0.5+	0.6-	1998 09 26	704	0.3+	1.0-	2000 02 26	703	0.5-	0.5-
1996 02 17	010	0.2-	1.0-	1998 09 26	704	0.4+	0.2+	2000 03 02	703	0.0	1.6+
1997 05 04	809	1.5+	2.0+	1998 09 27	704	0.0	1.2+	2000 03 02	703	1.0+	0.8+
1997 05 04	809	0.4-	1.7+	1998 09 27	704	0.2-	0.2+	2000 03 02	703	0.7+	0.4+
1997 05 04	809	(0.7-	2.5+)	1998 09 27	704	0.4-	1.2+	2000 03 02	703	0.3-	0.7+
1998 08 04	699	0.3-	0.6+	1998 09 27	704	0.8-	1.8+	2000 03 11	699	0.1-	0.6+
1998 08 04	699	0.1-	1.0+	1998 09 27	704	0.7-	0.1-	2000 03 11	699	0.5+	0.5+
1998 08 04	699	0.1+	0.9+	1998 12 08	704	0.4-	0.4+	2000 03 11	699	0.4-	0.8+
1998 09 14	704	0.7+	0.5-	1998 12 08	704	0.0	0.8+	2000 03 11	699	0.2-	1.0+
1998 09 14	704	0.5+	0.7-	1998 12 08	704	0.3+	1.4+	2000 03 12	704	0.2-	0.3-
1998 09 14	704	0.0	1.2-	1998 12 08	704	0.4+	1.4+	2000 03 12	704	0.7-	0.9-
1998 09 17	699	0.2-	0.5+	1998 12 15	699	0.2+	1.2+	2000 03 12	704	0.7+	0.3+
1998 09 17	699	0.4-	0.5+	1998 12 15	699	0.5+	0.8+	2000 03 12	704	0.3+	0.1+
1998 09 17	699	0.1-	0.2+	1998 12 15	699	1.4-	1.4+	2000 03 12	704	0.0	0.0
1998 09 18	704	0.4-	0.2-	2000 02 11	704	0.2+	0.4+	2000 03 14	608	0.5+	1.3+
1998 09 18	704	0.6+	1.3+	2000 02 11	704	0.6+	0.5+	2000 03 14	608	0.1+	0.9+
1998 09 18	704	0.6-	1.2-	2000 02 11	704	0.1-	0.2-	2000 03 14	608	0.9-	0.2+
1998 09 18	704	1.7-	0.1+	2000 02 11	704	(0.8+	2.6+)				

2000 MAR. 20

M.P.C. 39091

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	79.84161		(2000.0)	P	Q
<i>n</i>	0.18425265	ω	211.55192	+0.82437431	-0.56599208
<i>a</i>	3.0586296	Ω	182.95395	+0.54557857	+0.79813851
<i>e</i>	0.2481439	<i>i</i>	8.64245	+0.15083445	+0.20646519
<i>P</i>	5.35	<i>H</i>	13.4	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1982 09 28	095	0.4+	2.0+	1998 09 27	704	0.6+	0.5+	2000 01 07	704	0.2-	0.2-
1982 11 07	413	0.6+	0.7-	1998 09 27	704	0.0	0.2+	2000 01 07	704	0.4-	0.2-
1982 11 07	413	0.8-	0.6-	1998 09 27	704	0.2+	0.2-	2000 01 07	704	0.0	0.7-
1987 09 18	413	0.5-	1.2-	1998 09 30	691	0.2-	0.8-	2000 01 07	704	0.5-	0.3-
1987 09 18	413	0.4-	0.6+	1998 09 30	691	0.1+	0.5-	2000 01 07	704	0.7-	0.5-
1988 12 11	675(12.6+	1.0+)		1998 09 30	691	0.2+	0.7-	2000 01 08	704	0.4-	0.5+
1998 08 02	699	0.8+	0.6+	1998 10 17	699	0.0	0.3+	2000 01 08	704	0.2-	0.1-
1998 08 02	699	0.4-	0.6+	1998 10 17	699	0.2-	0.0	2000 01 08	704	0.0	0.6+
1998 08 02	699	0.4-	0.3+	1998 10 17	699	0.2+	0.5+	2000 01 08	704	0.2+	0.1+
1998 09 02	691	0.2+	0.1-	1998 10 19	699	0.9+	0.9-	2000 01 08	704	0.8-	1.7+
1998 09 02	691	0.4+	0.1-	1998 10 19	699	0.3+	0.5-	2000 02 01	703	1.5-	1.3-
1998 09 02	691	0.3+	0.1-	1998 10 19	699	1.0+	0.6-	2000 02 01	703	0.5-	0.3-
1998 09 12	691	0.1+	0.2-	1998 10 28	704	0.3+	0.3-	2000 02 01	703	0.7-	0.3+
1998 09 12	691	0.1-	0.4-	1998 10 28	704	0.1+	0.3+	2000 02 01	703	0.1-	0.2+
1998 09 12	691	0.1-	0.4-	1998 10 28	704	0.1-	0.1-	2000 02 02	704	0.6+	0.8+
1998 09 14	704	0.5+	0.8-	1998 10 28	704	0.4-	0.2+	2000 02 02	704	0.4+	0.3+
1998 09 14	704	0.6+	0.0	1998 10 28	704	1.5-	0.3+	2000 02 02	704	0.4+	0.3+
1998 09 14	704	0.3-	0.6+	1998 10 29	704	(0.1-	3.0-)	2000 02 02	704	0.3+	0.4+
1998 09 15	699	0.2+	0.3+	1998 10 29	704	(0.1-	3.1-)	2000 02 02	704	0.4+	0.4+
1998 09 15	699	0.2+	0.2+	1998 10 29	704	(0.2-	2.4-)	2000 02 05	704	0.5+	0.2-
1998 09 15	699	0.4+	0.3+	1998 10 29	704	(0.2-	3.1-)	2000 02 05	704	0.9+	0.1-
1998 09 18	704	0.0	0.0	1998 10 29	704	(0.9-	3.1-)	2000 02 05	704	0.9+	0.1-
1998 09 18	704	0.7-	0.1+	1998 12 08	704	0.4-	0.4+	2000 02 06	704	1.5+	0.8-
1998 09 18	704	0.6-	0.0	1998 12 08	704	0.3+	0.2+	2000 02 06	704	0.1+	0.3-
1998 09 18	704	0.1-	0.5-	1998 12 08	704	(2.5-	2.5+)	2000 02 06	704	0.6+	0.3-
1998 09 18	704	0.6+	0.4-	1998 12 08	704	0.7-	0.7+	2000 02 06	704	0.5+	0.1+
1998 09 25	699	0.2+	0.3+	1998 12 08	704	0.5-	0.0	2000 02 06	704	0.4+	0.2-
1998 09 25	699	0.3+	0.3+	1999 01 07	704	0.1-	1.5+	2000 02 28	703	0.9-	0.7-
1998 09 25	699	0.1-	0.0	1999 01 07	704	1.7-	1.3+	2000 02 28	703	0.4-	0.1+
1998 09 26	704	0.2-	0.2-	1999 01 07	704	0.1+	1.4+	2000 02 28	703	0.2-	1.1-
1998 09 26	704	0.2-	0.6-	1999 01 07	704	1.8-	0.3-	2000 02 28	703	0.4-	0.9+
1998 09 26	704	0.2-	0.4-	2000 01 05	704	0.1+	1.2-	2000 03 06	704	0.1+	0.6+
1998 09 26	704	0.0	0.9-	2000 01 05	704	0.2-	0.4-	2000 03 06	704	0.4+	0.4-
1998 09 27	704	0.5+	0.1-	2000 01 05	704	0.0	1.1-	2000 03 06	704	0.7-	0.1+
1998 09 27	704	0.2+	0.1-	2000 01 05	704	0.1-	0.1+	2000 03 06	704	0.0	0.3+

(14140)* 1998 RS₇₃ = 1977 RL₂ = 1997 HR₁₁

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33009)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	128.80220		(2000.0)	P	Q
<i>n</i>	0.23585248	ω	113.97184	+0.99843410	+0.03900227
<i>a</i>	2.5944327	Ω	243.81381	-0.05132293	+0.92385482
<i>e</i>	0.2336372	<i>i</i>	2.56132	+0.02225534	+0.38075069
<i>P</i>	4.18	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1977 09 09	095	0.2-	0.5+	1998 09 26	704	0.1+	1.2-	1998 11 10	699	0.9+	0.1+
1992 03 01	809	1.0-	0.3-	1998 09 26	704	0.8-	1.0-	1998 12 09	704	(1.3-	2.3-)
1992 03 06	809	0.7+	0.9-	1998 09 27	704	0.7+	1.4+	1998 12 09	704	0.0	0.0
1997 04 30	704	1.2+	0.2-	1998 09 27	704	0.3-	0.4+	1998 12 09	704	0.7+	0.5+
1997 04 30	704	1.3+	0.5+	1998 09 27	704	1.1+	0.4+	1998 12 09	704	1.0-	0.3+
1997 04 30	704	0.3-	0.8+	1998 09 27	704	0.5+	0.2+	1998 12 09	704	0.3-	0.6-
1997 04 30	704	0.5-	0.3-	1998 09 27	704	1.3+	0.7+	2000 02 02	704	0.6-	0.2+
1997 05 01	704	0.6+	0.3+	1998 10 14	699	0.6-	0.1+	2000 02 02	704	0.1-	0.6+
1997 05 01	704	0.2-	1.0+	1998 10 14	699	0.6-	0.3+	2000 02 02	704	0.2+	0.8+

1997 05 01	704	0.1+	1.2+	1998 10 14	699	0.6-	0.4+	2000 02 02	704	0.6+	0.7+
1997 05 01	704	1.1-	0.5+	1998 10 28	704	0.0	0.4+	2000 02 02	704	0.1+	0.1+
1998 09 14	704	0.7-	0.2+	1998 10 28	704	0.3-	0.2-	2000 02 27	703	0.2-	0.1-
1998 09 14	704	0.0	0.1+	1998 10 28	704	0.4+	1.1-	2000 02 27	703	0.6-	0.1+
1998 09 14	704	0.9-	0.5+	1998 10 28	704	0.6-	0.0	2000 02 27	703	0.2+	0.1-
1998 09 18	704	0.3+	0.3+	1998 10 28	704	1.2-	0.6+	2000 02 27	703	0.3+	0.3-
1998 09 18	704	0.6+	0.1-	1998 10 29	704	0.1+	0.5-	2000 03 03	704	0.2+	0.1-
1998 09 18	704	0.4+	0.3+	1998 10 29	704	0.2+	0.6+	2000 03 03	704	0.1+	0.4-
1998 09 18	704	0.5-	0.6+	1998 10 29	704	0.8+	0.9-	2000 03 03	704	0.4+	0.0
1998 09 18	704	0.1+	0.8+	1998 10 29	704	1.6-	1.0-	2000 03 03	704	0.2+	0.1+
1998 09 26	704	0.3+	0.4-	1998 10 29	704	0.2-	0.8-	2000 03 05	704	0.0	0.9+
1998 09 26	704	0.5+	0.0	1998 11 10	699	0.4+	0.7+	2000 03 05	704	1.0+	0.4+
1998 09 26	704	0.0	0.2+	1998 11 10	699	0.6-	0.8+	2000 03 05	704	0.7-	0.9+

(14141)* 1998 SR₁ = 1991 VS₁₂ = 1995 YV₂₄ = 1998 UT₃₃

Discovered 1998 Sept. 16 by the OCA-DLR Asteroid Survey at Caussols.

Id. G. V. Williams (*MPC* 32725), A. Milani (*MPC* 34222)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	154.73092		(2000.0)	P	Q
<i>n</i>	0.27905512	ω	253.99723	+0.98154580	+0.17410226
<i>a</i>	2.3192241	Ω	95.92582	-0.13041476	+0.91196634
<i>e</i>	0.1958389	<i>i</i>	4.56106	-0.13985649	+0.37149131
<i>P</i>	3.53	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1991 11 09	808	(5.0- 0.9+)	1998 10 14	704	0.8- 0.4+	2000 02 06	703	0.3- 0.5-
1991 11 09	808	0.1+ 0.3-	1998 10 14	704	1.6- 0.2+	2000 02 06	703	0.8+ 1.0+
1991 11 12	808	0.0 0.3-	1998 10 14	704	0.5- 0.4+	2000 02 06	703	(2.5- 0.3-)
1991 11 12	808	0.2- 0.2-	1998 10 14	704	0.4- 0.2+	2000 02 11	704	0.4- 0.2+
1995 12 24	566	0.5+ 0.4-	1998 10 14	704	0.4- 0.6+	2000 02 11	704	0.6+ 0.5-
1995 12 24	566	0.1- 0.4-	1998 10 15	704	0.4- 0.2+	2000 02 11	704	0.2+ 0.3-
1995 12 24	566	0.9+ 0.6-	1998 10 15	704	1.3- 0.1-	2000 02 11	704	0.4+ 0.3+
1995 12 25	566	0.4+ 0.4-	1998 10 15	704	0.1+ 0.8+	2000 02 11	704	0.5- 0.6-
1995 12 25	566	0.3- 0.2+	1998 10 15	704	0.3+ 0.0	2000 02 25	703	0.0 0.4+
1995 12 25	566	0.0 0.1-	1998 10 15	704	1.2- 0.2-	2000 02 25	703	0.1- 0.0
1998 06 29	704	0.0 0.6+	1998 10 28	704	0.9+ 0.6-	2000 02 25	703	0.6+ 0.4+
1998 06 29	704	1.9- 0.6+	1998 10 28	704	0.5- 0.9-	2000 02 25	703	0.0 0.3-
1998 06 29	704	0.8+ 0.3-	1998 10 28	704	0.9- 0.6-	2000 03 05	704	0.2- 1.0+
1998 06 29	704	(4.6- 1.0-)	1998 10 28	704	(2.1- 0.1-)	2000 03 05	704	0.1+ 1.4+
1998 09 16	910	0.1- 0.4+	1998 10 29	704	0.4+ 0.3-	2000 03 05	704	0.4+ 0.5+
1998 09 16	910	0.0 0.4+	1998 10 29	704	0.2- 0.2-	2000 03 05	704	0.4+ 0.5+
1998 09 17	910	0.2+ 0.5+	1998 10 29	704	0.4- 0.4+	2000 03 05	704	0.4+ 0.0
1998 09 17	910	0.0 0.5+	1998 11 11	132	1.6+ 0.1-	2000 03 09	704	0.1- 0.1-
1998 09 18	910	0.1+ 0.5+	1998 11 11	132	0.7+ 0.0	2000 03 09	704	0.2- 0.9+
1998 09 18	910	0.2+ 0.6+	1998 11 11	132	0.5+ 0.6-	2000 03 09	704	0.3- 0.4+
1998 09 19	910	0.4+ 0.6+	1998 11 11	132	1.1+ 0.6+	2000 03 09	704	0.9+ 1.1+
1998 09 19	910	0.4+ 0.7+	1998 12 08	704	0.8- 0.5-	2000 03 12	704	0.1+ 0.3+
1998 09 20	910	0.4+ 0.7+	1998 12 08	704	1.4- 0.8-	2000 03 12	704	0.1+ 0.1-
1998 09 22	910	0.3+ 0.4+	1998 12 08	704	0.8+ 1.3-	2000 03 12	704	0.3- 0.5+
1998 09 23	910	0.3+ 0.4+	1998 12 08	704	(2.9- 1.3+)	2000 03 12	704	0.2- 0.5+
1998 09 23	910	0.3+ 0.3+	2000 02 06	703	0.8- 0.5+	2000 03 12	704	0.1- 0.7+

1977 10 17	675	1.7+	0.2-	1998 09 27	704	0.6-	0.3+	1999 12 08	704	0.1+	0.3-
1977 10 17	675	0.0	1.2-	1998 10 14	704	1.3+	0.3+	1999 12 08	704	0.2-	0.2-
1977 10 21	675	0.4-	1.3-	1998 10 14	704	0.1+	0.2+	1999 12 08	704	0.4+	0.7-
1977 10 21	675	0.0	0.4-	1998 10 14	704	(2.1-	1.0-)	1999 12 08	704	0.3+	0.1-
1977 10 22	675	1.0-	0.6+	1998 10 15	704	0.2+	0.7+	1999 12 08	704	0.3+	0.2-
1977 10 22	675	0.2+	2.5+	1998 10 15	704	1.7-	0.3-	1999 12 15	704	0.9-	0.8-
1993 02 13	402	0.4+	1.5-	1998 10 15	704	0.3+	1.4-	1999 12 15	704	0.2-	0.4-
1993 02 13	402	0.0	0.0	1998 10 15	704	1.8+	0.2+	1999 12 15	704	0.4+	0.9-
1993 02 14	402	1.8+	0.3+	1998 10 15	704	(0.4+	2.5-)	1999 12 15	704	0.4+	0.3-
1993 02 14	402	1.5-	0.2+	1998 10 17	699	1.2+	0.1-	2000 01 03	704	0.9+	0.8-
1998 09 14	704	0.7-	0.2+	1998 10 17	699	0.8+	0.0	2000 01 03	704	0.8+	0.4-
1998 09 14	704	1.6-	0.6+	1998 10 17	699	0.9+	0.1+	2000 01 03	704	0.2-	0.4-
1998 09 14	704	1.6-	0.4-	1998 10 28	704	1.3-	0.0	2000 01 03	704	1.2+	0.2-
1998 09 17	910	0.5+	0.4+	1998 10 28	704	0.6-	0.5+	2000 01 03	704	0.6-	0.6+
1998 09 17	910	0.5+	0.6+	1998 10 28	704	0.9-	1.1+	2000 01 08	106	0.2+	0.2-
1998 09 17	910	0.6+	0.3+	1998 10 28	704	(0.4-	2.8-)	2000 01 08	106	0.1+	0.1-
1998 09 17	699	0.3-	0.9+	1998 10 28	704	0.1-	1.0-	2000 01 08	106	0.1+	0.2-
1998 09 17	699	0.5-	0.7+	1999 10 12	704	0.8+	0.9+	2000 01 31	704	0.2-	0.1+
1998 09 17	699	0.2-	0.4+	1999 10 12	704	0.7+	0.8+	2000 01 31	704	0.1-	0.1+
1998 09 18	704	0.2+	0.3+	1999 10 12	704	0.6+	0.8+	2000 01 31	704	0.4-	0.1+
1998 09 18	704	0.5-	0.0	1999 10 12	704	0.3-	0.3+	2000 01 31	704	0.9-	0.1+
1998 09 18	704	0.0	0.2+	1999 10 12	704	1.1+	1.4+	2000 02 14	704	0.2+	0.3+
1998 09 18	704	1.2+	0.2-	1999 10 22	704	0.3+	0.5-	2000 02 14	704	0.2-	0.2+
1998 09 21	910	0.9+	0.3+	1999 10 22	704	0.5+	0.3-	2000 02 14	704	0.0	0.2+
1998 09 21	910	0.8+	0.4+	1999 10 22	704	0.1-	0.3-	2000 02 14	704	0.2+	0.0
1998 09 21	910	0.9+	0.4+	1999 10 22	704	0.4-	0.1+	2000 03 04	704	0.3-	0.7+
1998 09 26	704	0.4-	0.3-	1999 10 22	704	0.1+	0.1-	2000 03 04	704	0.2+	0.6+
1998 09 26	704	0.1-	0.8-	1999 11 08	699	0.5-	0.3+	2000 03 04	704	1.3-	0.3+
1998 09 26	704	0.3-	0.9-	1999 11 08	699	0.6+	0.7+	2000 03 11	703	0.2-	0.0
1998 09 26	704	0.2-	1.5-	1999 11 08	699	0.5-	0.0	2000 03 11	703	0.3-	0.3+
1998 09 26	704	0.5+	1.5-	1999 11 16	704	0.5-	0.5+	2000 03 11	703	0.2-	0.2-
1998 09 27	704	0.3-	0.2-	1999 11 16	704	0.4-	0.3+	2000 03 11	703	0.2-	0.1+
1998 09 27	704	0.1-	0.3+	1999 11 16	704	0.3-	0.2+				

(14143)* 1998 SQ₁₈ = 2030 T-1 = 1987 SB₇ = 1994 NK₂

Discovered 1998 Sept. 18 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 33017)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	156.85201		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.26867367	ω	176.52266	+0.97034900	+0.24096433
a	2.3785885	Ω	169.47580	-0.22419056	+0.92655344
e	0.1367830	i	5.95441	-0.09034054	+0.28885102
P	3.67	H	14.6	G	0.15
				U	2

Residuals in seconds of arc

1971 03 24	675	(1.8-	2.7-)	1998 09 26	704	0.1+	0.5+	1998 10 29	704	0.6-	0.6-
1971 03 25	675	(2.6+	1.8-)	1998 09 26	704	0.5-	0.6+	2000 02 02	704	0.0	0.4-
1971 03 25	675	0.7-	0.4-	1998 09 26	704	0.2+	1.3+	2000 02 02	704	0.2-	0.3-
1971 03 26	675	1.0-	1.8-	1998 09 26	704	0.7-	0.1+	2000 02 02	704	0.0	0.2+
1971 03 27	675	1.9-	1.3-	1998 09 26	704	0.6+	0.2+	2000 02 02	704	0.1-	0.3+
1987 09 29	033	1.4+	0.6-	1998 09 27	704	0.8-	0.1+	2000 02 04	704	0.2+	0.1+
1987 09 30	033	0.5+	0.3-	1998 09 27	704	0.1-	0.3+	2000 02 04	704	0.6+	0.2-
1987 09 30	033	0.4+	1.7-	1998 09 27	704	0.2+	0.1+	2000 02 04	704	0.3-	0.4+
1987 10 01	033	0.9+	0.9-	1998 09 27	704	0.2+	0.3-	2000 02 04	704	0.5-	0.1+
1987 10 01	033	1.3+	0.1-	1998 09 27	704	0.7-	0.8-	2000 02 04	704	0.1+	0.7+
1987 10 01	033	0.1-	1.3-	1998 10 14	704	0.2-	0.1+	2000 02 27	703	0.7-	0.1-
1994 07 10	033	0.8+	0.0	1998 10 14	704	0.1+	0.6+	2000 02 27	703	0.2-	0.3+
1994 07 10	033	0.1+	0.6+	1998 10 14	704	0.5-	1.6-	2000 02 27	703	0.1+	0.7+
1994 07 11	033	0.0	1.0+	1998 10 14	704	0.3-	0.7-	2000 02 27	703	0.2-	0.6-
1998 09 14	704	0.4+	0.6+	1998 10 14	704	0.7+	0.1+	2000 02 29	704	0.6+	0.1-
1998 09 14	704	0.2-	1.1+	1998 10 15	704	0.2-	0.2+	2000 02 29	704	1.3+	0.5+
1998 09 14	704	(3.3-	0.2+)	1998 10 15	704	0.2+	0.0	2000 02 29	704	0.7+	0.1-
1998 09 17	699	0.3+	0.2+	1998 10 15	704	0.1-	0.6-	2000 02 29	704	0.8+	0.3-
1998 09 17	699	0.4+	0.7+	1998 10 15	704	0.7+	0.2-	2000 02 29	704	1.0+	0.1+
1998 09 17	699	0.6+	0.6+	1998 10 15	704	0.2-	0.3+	2000 03 03	704	0.4+	0.4+
1998 09 18	704	0.3+	0.4-	1998 10 17	699	0.5+	0.0	2000 03 03	704	0.4-	0.3+
1998 09 18	704	1.1+	0.2-	1998 10 17	699	0.5+	0.4+	2000 03 03	704	0.5+	0.5+

1998 09 18	691	1.0-	0.3-	1998 10 17	699	1.1-	0.8+	2000 03 03	704	0.2+	0.5+
1998 09 18	704	0.4+	0.1-	1998 10 19	699	0.2+	0.4+	2000 03 03	704	0.5-	0.6+
1998 09 18	704	0.4+	0.2-	1998 10 19	699	0.6+	0.3+	2000 03 05	704	1.4-	0.3+
1998 09 18	691	1.1-	0.3-	1998 10 19	699	0.1-	1.1+	2000 03 05	704	0.1-	0.1+
1998 09 18	704	1.5+	0.6-	1998 10 28	704	0.1-	0.2-	2000 03 05	704	0.4+	0.1-
1998 09 18	691	1.1-	0.5-	1998 10 28	704	1.0-	0.4-	2000 03 05	704	0.1-	0.3-
1998 09 24	691	0.6-	0.5-	1998 10 28	704	1.1-	0.1-	2000 03 05	704	0.2-	0.7-
1998 09 24	691	0.2+	0.2-	1998 10 28	704	1.5-	0.2-	2000 03 11	704	0.2+	0.1-
1998 09 24	691	0.5-	0.1-	1998 10 28	704	0.4-	0.1+	2000 03 11	704	0.3-	0.1-
1998 09 25	699	0.4+	0.1+	1998 10 29	704	0.8-	0.5+	2000 03 11	704	1.0+	0.0
1998 09 25	699	0.2+	0.6+	1998 10 29	704	0.4-	0.1+	2000 03 11	704	0.1-	0.2-
1998 09 25	699	0.4+	1.0+	1998 10 29	704	0.6-	1.2-	2000 03 11	704	0.3+	0.7+

(14144)* 1998 SQ₂₂ = 1984 SL₇

Discovered 1998 Sept. 23 at Višnja.

Id. A. Gnädig (*MPC* 38501), M. E. Sansaturio (*ibid.*), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	103.33077		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.21085847	ω	17.87322	+0.94599478	-0.32417170		
a	2.7956020	Ω	1.05257	+0.27775650	+0.80641229		
e	0.2417754	i	8.03295	+0.16716819	+0.49458258		
P	4.67	H	14.4	G	0.15	U	2

Residuals in seconds of arc

1984 09 24	071	0.6+	1.0-	1998 09 26	704	0.6-	0.1+	1998 12 09	704	0.1-	0.4+
1984 09 24	071	0.9+	0.8-	1998 09 26	704	0.0	0.6-	1999 01 05	699	1.1+	1.2+
1989 12 01	675	1.5-	0.0	1998 09 26	704	0.0	1.0-	1999 01 05	699	0.0	0.0
1989 12 01	675	0.7+	0.6-	1998 09 27	704	0.0	0.5+	1999 01 08	704	0.6+	0.5+
1996 05 07	675	1.3+	1.3+	1998 09 27	704	(2.7-	1.7+)	1999 01 08	704	0.5+	0.4+
1996 05 07	675	0.9+	0.0	1998 09 27	704	0.4+	0.5-	1999 01 08	704	1.6+	2.0-
1998 08 02	699	1.6-	0.3+	1998 09 27	704	0.7-	1.3-	1999 01 08	704	(3.9-	1.5+)
1998 08 02	699	0.2-	0.5-	1998 10 11	120	0.3-	0.2+	2000 02 06	703	(0.9+	2.8+)
1998 08 02	699	0.3-	1.6-	1998 10 11	120	0.3-	0.1-	2000 02 06	703	0.5+	0.8+
1998 09 14	704	0.3-	0.1+	1998 10 11	120	0.3-	0.1-	2000 02 06	703	0.8-	0.5-
1998 09 14	704	(2.1+	0.3-)	1998 10 13	120	0.8-	0.6-	2000 02 06	703	1.7-	0.0
1998 09 14	704	(2.2-	1.6+)	1998 10 13	120	0.4+	0.6-	2000 02 11	704	0.6+	0.1-
1998 09 15	699	0.7-	0.4+	1998 10 15	120	0.2-	0.1-	2000 02 11	704	0.1-	0.1+
1998 09 15	699	0.3+	0.1+	1998 10 15	120	0.2-	0.2-	2000 02 11	704	0.6+	0.1+
1998 09 15	699	0.7-	0.1+	1998 10 28	704	0.9+	1.2+	2000 02 11	704	0.4+	0.8-
1998 09 18	704	0.1-	0.9+	1998 10 28	704	0.4+	0.4-	2000 02 11	704	0.0	0.0
1998 09 18	704	0.2+	0.1-	1998 10 28	704	0.9+	1.0+	2000 02 28	704	0.2-	0.8+
1998 09 18	704	0.3-	0.4+	1998 10 28	704	0.4-	0.1+	2000 02 28	704	0.0	1.3+
1998 09 18	704	0.0	0.2+	1998 10 28	704	0.6-	1.1+	2000 02 28	704	0.1+	0.9-
1998 09 18	704	0.1-	0.8+	1998 10 29	704	0.6+	0.1+	2000 02 28	704	1.0-	0.1-
1998 09 23	120	0.2-	0.2+	1998 10 29	704	0.2-	0.3+	2000 02 28	704	0.4-	0.2-
1998 09 23	120	0.2+	0.4+	1998 10 29	704	1.7+	1.0+	2000 03 04	704	0.5+	0.1+
1998 09 23	120	0.2-	0.4+	1998 10 29	704	0.2-	0.6+	2000 03 04	704	0.1-	0.0
1998 09 24	120	0.5+	0.5+	1998 10 29	704	0.2-	0.7+	2000 03 04	704	0.1+	0.5-
1998 09 24	120	0.4+	0.2+	1998 12 09	704	1.6-	0.8-	2000 03 04	704	0.3+	0.8+
1998 09 24	120	0.5+	0.1+	1998 12 09	704	0.7+	0.2+	2000 03 04	704	0.8+	0.2+
1998 09 26	704	0.3-	0.8-	1998 12 09	704	0.7-	1.3+				
1998 09 26	704	0.7-	0.8-	1998 12 09	704	(0.6-	2.5+)				

2000 MAR. 20

M.P.C. 39093

Residuals in seconds of arc

1993 03 19	809	0.6+	0.9+	1998 09 18	704	0.4+	0.2-	2000 02 04	704	0.4+	0.2-
1993 03 20	809	0.1-	0.2-	1998 09 18	704	0.5-	0.3-	2000 02 04	704	1.1+	1.7+
1993 03 24	809	0.4-	0.1-	1998 09 18	704	0.2+	0.0	2000 02 04	704	0.7-	1.6+
1995 12 19	691	0.2-	0.4-	1998 09 18	704	0.6-	0.4-	2000 02 04	691	0.3-	0.4-
1995 12 19	691	0.1-	0.7-	1998 09 18	704	0.5-	0.1+	2000 02 04	691	0.1-	0.3-
1995 12 19	691	0.1-	0.6-	1998 09 24	699	0.2+	0.3+	2000 02 04	691	0.1-	0.4-
1996 01 27	691	0.2-	0.1-	1998 09 24	699	0.5+	1.0+	2000 02 29	704	0.1+	0.5-
1996 01 27	691	0.0	0.2-	1998 09 24	699	0.1+	0.6+	2000 02 29	704	0.0	0.0
1996 01 27	691	0.3+	0.1+	1998 10 10	699	0.2+	0.0	2000 02 29	704	0.2-	0.7+
1998 09 14	704	0.6-	0.3-	1998 10 10	699	0.1+	0.2+	2000 02 29	704	0.1-	0.4+
1998 09 14	704	1.0-	0.4+	1998 10 10	699	0.2-	0.1-	2000 02 29	704	0.5-	0.1+
1998 09 14	704	0.3+	0.5-	1998 10 14	704	0.9+	0.3-	2000 03 03	704	0.2+	0.1+
1998 09 14	704	0.1+	1.0+	1998 10 14	704	0.8-	0.1-	2000 03 03	704	0.5+	0.0
1998 09 17	699	0.0	0.2+	1998 10 14	704	0.2+	0.1+	2000 03 03	704	0.5+	0.2+
1998 09 17	699	0.1-	0.4+	1998 10 14	704	0.2-	0.2+	2000 03 03	704	0.3-	1.6+
1998 09 17	699	0.5+	0.5+	2000 02 04	704	0.0	0.4-	2000 03 03	704	0.9+	0.2+

(14146)* 1998 SP₄₂ = 1989 AF₂ = 1993 FW₅₈

Discovered 1998 Sept. 28 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 33024)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	95.39067		(2000.0)	P	Q
<i>n</i>	0.27970557	ω	71.66811	+0.45373294	-0.89112075
<i>a</i>	2.3156272	Ω	351.34232	+0.80319270	+0.41161946
<i>e</i>	0.1209825	<i>i</i>	2.09314	+0.38601542	+0.19097965
<i>P</i>	3.52	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1989 01 09	046	0.5+	0.7+	1998 09 27	704	0.6+	0.9+	2000 02 08	704	0.6-	0.2-
1989 01 09	046	0.1-	0.7-	1998 09 27	704	0.9+	0.2-	2000 02 08	704	0.3-	0.6-
1991 10 07	691	0.1-	0.4-	1998 09 27	704	0.9+	0.2-	2000 02 08	704	0.5+	0.7+
1991 10 07	691	0.1-	0.3-	1998 09 28	691	0.0	0.1+	2000 02 27	703	0.1-	0.4+
1991 10 07	691	0.1-	0.4-	1998 09 28	691	0.2+	0.2+	2000 02 27	703	0.4-	0.4+
1993 03 19	809	0.4-	0.5+	1998 09 28	691	0.1+	0.2+	2000 02 27	703	0.4+	0.4+
1993 03 20	809	0.9+	0.2+	1998 09 29	691	1.1-	0.1+	2000 02 27	703	0.2+	0.5+
1993 04 17	413	(3.4+	3.0+)	1998 09 29	691	0.7-	0.0	2000 02 27	120	1.0-	0.0
1998 08 28	704	0.5-	1.1-	1998 09 29	691	0.7-	0.0	2000 02 28	120	0.1+	0.1-
1998 08 28	704	0.9-	0.3-	1998 10 01	691	0.9-	0.6+	2000 02 28	120	0.3-	0.6+
1998 08 28	704	1.0-	0.8+	1998 10 01	691	0.5-	0.3+	2000 02 28	120	0.7-	0.7-
1998 08 28	704	1.1-	0.1-	1998 10 01	691	0.0	0.2+	2000 02 28	120	0.7+	0.0
1998 08 28	704	1.4-	1.2+	1998 10 12	691	0.1-	0.8-	2000 02 29	704	0.1-	0.3+
1998 09 14	704	0.2+	1.1+	1998 10 12	691	0.3-	0.5-	2000 02 29	704	0.0	0.0
1998 09 14	704	0.0	1.1+	1998 10 12	691	0.4-	0.5-	2000 02 29	704	0.5+	0.2+
1998 09 14	704	0.1+	0.8+	1998 10 14	704	0.4-	0.5+	2000 03 08	704	0.3+	0.6+
1998 09 16	699	0.0	0.5+	1998 10 14	704	0.2+	0.6-	2000 03 08	704	0.8+	0.6+
1998 09 16	699	0.1+	0.5+	1998 10 14	704	0.5+	0.9+	2000 03 08	704	0.6+	0.3-
1998 09 16	699	0.1-	0.5+	1998 10 14	704	0.2-	1.0+	2000 03 08	704	1.6+	1.5+
1998 09 18	704	1.3+	0.0	1998 10 14	704	0.4-	1.5+	2000 03 08	704	1.4+	1.2+
1998 09 18	704	(0.1-	2.3+)	1998 10 14	327	0.6-	0.1-	2000 03 11	704	0.1+	0.5+
1998 09 18	704	1.5-	0.7+	1998 10 14	327	0.6-	0.1-	2000 03 11	704	0.0	0.9+
1998 09 18	704	0.8+	0.2+	1998 10 14	327	1.0-	0.2-	2000 03 11	704	0.1+	1.1+
1998 09 18	704	0.2-	0.1+	1998 10 15	704	0.6-	0.2+	2000 03 11	704	0.0	0.9+
1998 09 25	699	1.3+	0.7+	1998 10 15	704	0.5+	0.6+	2000 03 11	704	0.1+	1.5+
1998 09 25	699	1.1+	0.7+	1998 10 15	704	0.5-	0.3+	2000 03 14	703	0.1+	0.3+
1998 09 25	699	0.9+	0.7+	1998 10 15	704	0.3-	0.4+	2000 03 14	703	0.2+	0.4+
1998 09 26	704	0.6+	0.3+	1998 10 15	704	0.5-	0.7-	2000 03 14	703	0.3+	1.0+
1998 09 26	704	0.2+	0.3+	1998 12 09	704	0.5+	1.0-	2000 03 14	703	0.4+	0.3+
1998 09 26	704	0.1+	0.1-	1998 12 09	704	0.7-	1.7-	2000 03 14	608	0.2-	0.2-
1998 09 26	704	0.3-	0.5+	1998 12 09	704	0.2-	0.1-	2000 03 14	608	0.1+	1.2-
1998 09 26	704	0.1+	0.5+	1998 12 09	704	0.3+	1.8-	2000 03 14	608	0.4-	0.8-
1998 09 27	704	0.8+	0.3+	2000 02 08	704	0.4-	0.7+				
1998 09 27	704	0.1+	0.6+	2000 02 08	704	0.8+	0.4+				

(14147)* 1998 SG₄₃ = 1997 JT₁₃

Discovered 1998 Sept. 23 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 33025)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	141.05526		(2000.0)	P	Q
<i>n</i>	0.27805368	ω	288.74914	+0.97341192	-0.22033685
<i>a</i>	2.3247894	Ω	84.01694	+0.22663176	+0.88669146
<i>e</i>	0.0292556	<i>i</i>	3.60973	+0.03327570	+0.40648485
<i>P</i>	3.54	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1991 10 08	691	0.0	0.2+	1998 09 27	704	0.6-	0.6+	2000 02 04	704	0.1-	0.1-
1991 10 08	691	0.1+	0.1-	1998 09 27	704	0.3+	1.3+	2000 02 04	704	0.0	0.2-
1991 10 08	691	0.1-	0.1+	1998 09 27	704	0.2-	1.5+	2000 02 04	704	0.0	0.3+
1997 05 03	809	0.7-	1.4+	1998 09 27	704	(1.3+	2.4+)	2000 02 10	704	0.0	0.4-
1997 05 03	809	0.5+	1.3+	1998 10 17	699	0.3+	0.3-	2000 02 10	704	0.4+	0.3-
1997 05 03	809	1.0+	0.1+	1998 10 17	699	0.1-	1.1+	2000 02 10	704	0.1-	0.8+
1997 05 04	809	0.1-	1.3+	1998 10 17	699	0.6-	0.8+	2000 02 10	704	0.3+	1.1+
1997 05 04	809	1.6+	0.8+	1998 10 28	704	0.3+	1.1+	2000 02 11	704	0.2+	0.1-
1997 05 04	809	(1.0+	3.8+)	1998 10 28	704	0.2-	0.3+	2000 02 11	704	0.4-	0.3+
1997 05 07	704	0.1-	0.2+	1998 10 28	704	0.4-	0.3-	2000 02 11	704	0.3-	0.2-
1997 05 07	704	0.0	0.3+	1998 10 28	704	0.6-	0.1-	2000 02 11	704	0.3-	0.8+
1997 05 07	704	0.0	0.2+	1998 10 28	704	1.6-	0.0	2000 02 11	704	0.0	0.7-
1997 05 07	704	0.1-	0.2+	1998 10 29	704	0.8-	0.2-	2000 02 11	704	0.4+	0.5+
1997 05 07	704	0.0	0.3+	1998 10 29	704	0.3-	0.0	2000 02 11	704	0.4-	0.9-
1998 09 14	704	0.1+	0.1-	1998 10 29	704	0.4-	0.1+	2000 02 11	704	0.1+	0.6+
1998 09 14	704	0.3-	0.6-	1998 10 29	704	1.1-	0.7-	2000 02 11	704	0.3-	0.6-
1998 09 14	704	(3.4-	0.6+)	1998 10 29	704	0.3-	0.5-	2000 02 11	704	0.3-	1.2+
1998 09 17	699	0.3+	0.3+	1999 11 16	704	0.3-	0.2+	2000 02 12	704	(6.7+	2.8+)
1998 09 17	699	0.3+	0.0	1999 11 16	704	0.5+	1.1-	2000 02 12	704	(3.8+	3.3+)
1998 09 17	699	0.3+	0.1+	1999 11 16	704	1.2+	0.1+	2000 02 12	704	(2.1+	3.8+)
1998 09 18	704	0.2+	0.5-	1999 11 16	704	1.4+	0.3-	2000 02 12	704	(1.5+	5.6+)
1998 09 18	704	0.3-	0.3-	1999 11 16	704	1.7+	0.7-	2000 02 25	703	0.2-	0.5+
1998 09 18	704	0.1+	0.1+	1999 12 06	704	0.1+	0.3+	2000 02 25	703	0.4-	0.2+
1998 09 18	704	0.1-	0.4+	1999 12 06	704	0.2-	0.5+	2000 02 25	703	0.1-	0.5+
1998 09 18	704	0.1+	1.2+	1999 12 06	704	0.3-	0.2-	2000 02 25	703	0.2+	0.4+
1998 09 23	327	1.9-	0.4+	1999 12 06	704	0.0	0.8+	2000 03 05	704	0.3+	0.1+
1998 09 23	327	1.6-	0.3+	1999 12 06	704	0.1+	0.5-	2000 03 05	704	0.1-	0.2+
1998 09 23	327	1.1-	0.6+	2000 01 08	106	0.1+	0.1-	2000 03 05	704	0.1-	0.3+
1998 09 25	327	1.3+	0.5+	2000 01 08	106	0.1-	0.2+	2000 03 05	704	0.1-	0.1+
1998 09 25	327	1.5+	0.5+	2000 01 08	106	0.3+	0.4+	2000 03 05	704	0.1-	0.1+
1998 09 25	327	1.4+	0.5+	2000 02 01	703	0.1-	0.1-	2000 03 12	704	0.2+	0.2+
1998 09 26	704	0.3+	0.2-	2000 02 01	703	0.4+	0.2+	2000 03 12	704	0.1+	0.0
1998 09 26	704	0.5+	0.3-	2000 02 01	703	0.2-	0.5+	2000 03 12	704	0.1-	0.0
1998 09 26	704	0.5+	0.1+	2000 02 01	703	0.2+	0.0	2000 03 12	704	0.2-	0.0
1998 09 26	704	0.4+	0.4-	2000 02 04	704	0.4+	0.0	2000 03 12	704	0.3+	0.1-
1998 09 26	704	0.6+	0.3+	2000 02 04	704	0.1+	0.3-				

(14148)* 1998 SO₄₅ = 1991 SZ₂ = 1993 FC₄₀

Discovered 1998 Sept. 25 by Spacewatch at Kitt Peak.

Id. A. Doppler (*MPC* 33278)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	348.68379		(2000.0)	P	Q
n	0.27459876	ω	63.18242	-0.97727305	-0.21093634
a	2.3442486	Ω	104.63429	+0.18594959	-0.90069822
e	0.1229220	i	1.24683	+0.10178479	-0.37980071
P	3.59	H	15.7	G 0.15	U 2

1991 10 13	691	0.4+	0.1+	2000 02 02	703	0.4+	0.1-	2000 03 04	704	0.6+	1.6+
1993 03 19	809	0.3-	0.5+	2000 02 02	703	1.2-	0.6-	2000 03 04	704	0.6+	0.7+
1993 03 20	809	0.2+	0.0	2000 02 04	704	0.8+	0.0	2000 03 05	704	0.1-	0.3-
1993 03 24	809	0.3+	0.2-	2000 02 04	704	(2.1-	0.1+)	2000 03 05	704	0.1-	0.2+
1998 09 01	691	0.5-	0.7+	2000 02 04	704	0.1-	0.5-	2000 03 05	704	0.3-	0.1+
1998 09 01	691	(9.0+	4.6-)	2000 02 04	704	0.4-	1.7-	2000 03 05	704	0.4-	0.9-
1998 09 01	691	0.0	0.9+	2000 02 11	704	0.2+	0.8-	2000 03 05	704	0.1+	0.6-
1998 09 25	691	0.1-	0.4-	2000 02 11	704	0.3+	0.8-	2000 03 05	608	0.4-	0.2-
1998 09 25	691	0.0	0.2+	2000 02 11	704	0.2+	0.1+	2000 03 05	608	0.4-	0.4-
1998 09 25	691	0.5-	0.0	2000 02 11	704	1.0+	0.6+	2000 03 05	608	0.4-	0.5-
1998 09 26	704	1.1-	0.8+	2000 02 11	704	0.5-	0.5+	2000 03 11	704	0.4-	0.3+
1998 09 26	704	0.4-	0.3-	2000 02 25	703	1.0-	0.3-	2000 03 11	704	0.2-	0.4+
1998 09 26	704	(2.1+	1.2-)	2000 02 25	703	0.2+	0.2-	2000 03 11	704	0.1-	0.2+
1998 09 26	704	0.1+	1.9-	2000 02 25	703	0.3+	0.4+	2000 03 11	704	0.4-	0.5+
1998 09 27	704	0.0	1.4+	2000 02 25	703	0.1-	0.3+	2000 03 11	704	0.6-	0.1+
1998 09 27	704	0.4-	0.5-	2000 02 29	704	0.6+	0.2-	2000 03 11	699	0.2+	0.1+
1998 09 27	704	1.0+	1.6-	2000 02 29	704	0.4+	0.3-	2000 03 11	699	0.5+	0.9+
1998 09 27	704	(3.2-	0.5+)	2000 02 29	704	0.1+	1.1-	2000 03 11	699	0.0	0.2+
1998 09 30	691	0.1-	0.2+	2000 02 29	704	0.4+	0.8-	2000 03 11	699	0.1+	0.2+
1998 09 30	691	0.3+	0.5+	2000 02 29	704	0.6+	0.2-				
1998 09 30	691	0.1+	0.1+	2000 03 03	704	0.1+	0.2+				

(14149)* 1998 SF₆₁ = 1984 YW = 1987 QB₉ = 1989 CC₅

Discovered 1998 Sept. 17 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 33035)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	84.89703		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.27636752	ω	117.11994	+0.22632878	-0.97140359
a	2.3342357	Ω	319.59032	+0.84989458	+0.23293858
e	0.0736531	i	6.35610	+0.47587234	+0.04598575
P	3.57	H	14.0	G 0.15	U 1

Residuals in seconds of arc

1984 12 18	801	0.4-	0.1+	1998 10 18	699	0.1+	0.4+	2000 03 01	703	0.1-	0.0
1987 08 28	809	0.9-	0.4+	1998 10 18	699	0.1+	0.6+	2000 03 01	703	0.0	0.1+
1987 08 28	809	0.1-	0.2+	1998 12 09	704	0.9-	0.7-	2000 03 01	703	0.1+	0.3+
1987 08 28	809	0.1-	0.3+	1998 12 09	704	0.1+	1.5-	2000 03 03	106	0.0	0.6+
1989 02 02	033	0.6+	0.1-	1998 12 09	704	0.8-	0.8-	2000 03 03	106	0.4+	0.1+
1989 02 03	033	0.3+	0.3-	1998 12 09	704	0.2-	1.6-	2000 03 03	106	0.6+	0.0
1998 09 14	704	1.2+	0.2-	1998 12 09	704	1.8+	0.5+	2000 03 08	704	0.6+	0.8+
1998 09 14	704	1.1+	0.6-	1999 12 09	703	1.0-	1.7+	2000 03 08	704	1.8+	0.9+
1998 09 14	704	1.3+	1.4-	1999 12 09	703	0.1+	0.6+	2000 03 08	704	0.0	1.4-
1998 09 17	699	0.1+	0.6+	1999 12 09	703	0.6-	0.3+	2000 03 08	704	0.8-	0.1-
1998 09 17	699	0.5-	0.9+	1999 12 09	703	0.4-	1.7+	2000 03 08	704	0.6+	0.6+
1998 09 17	699	0.1+	0.8+	2000 01 05	704	0.1-	0.9+	2000 03 10	608	0.7-	0.8-
1998 09 18	704	0.9-	0.2-	2000 01 05	704	0.9-	0.9+	2000 03 10	608	0.9-	0.4+
1998 09 18	704	1.0-	0.4+	2000 01 05	704	1.1-	0.8-	2000 03 10	608	0.9-	1.1-
1998 09 18	704	0.7-	0.3+	2000 01 05	704	0.3-	0.7+	2000 03 13	704	0.1+	0.1+
1998 09 18	704	0.2+	0.9+	2000 02 08	704	0.3+	0.2-	2000 03 13	704	0.4+	0.1-
1998 09 18	704	0.7-	0.9+	2000 02 08	704	0.1+	0.7-	2000 03 13	704	0.2+	0.3+
1998 09 25	699	0.1+	0.3+	2000 02 08	704	0.3+	0.3-	2000 03 13	704	0.7+	0.2+
1998 09 25	699	0.4-	0.2+	2000 02 08	704	0.2+	0.5-	2000 03 13	704	0.0	0.1-
1998 09 25	699	0.1+	0.2+	2000 02 08	704	0.1+	0.2-				
1998 10 18	699	0.0	0.5+	2000 03 01	703	0.5+	0.7+				

(14150)* 1998 SQ₆₅ = 1985 FY = 1989 JO = 2000 BE₃₀

Discovered 1998 Sept. 20 by E. W. Elst at the European Southern Observatory.

Id. T. B. Spahr (*MPC* 38509)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	320.05739		(2000.0)			P		Q			
<i>n</i>	0.26034724	ω	120.53668			-0.94045990		+0.33455368			
<i>a</i>	2.4290366	Ω	79.06556			-0.32904815		-0.85177704			
<i>e</i>	0.1399385	<i>i</i>	3.50789			-0.08522032		-0.40317455			
<i>P</i>	3.79	<i>H</i>	13.9			<i>G</i>	0.15	<i>U</i>		2	
Residuals in seconds of arc											
1985 03 21	688	2.1-	1.3-	1999 11 16	704	0.4+	1.4+	2000 02 03	704	0.4+	0.6-
1985 03 21	688	1.3+	0.0	1999 11 16	704	0.2-	0.6-	2000 02 03	704	0.6+	0.5-
1989 05 09	808	0.6+	0.1-	1999 11 16	704	0.8+	0.1-	2000 02 03	704	0.5+	0.7-
1989 05 09	808	0.0	0.8+	1999 11 16	704	1.6+	1.4-	2000 02 08	720	1.9-	0.2+
1998 09 20	809	(2.2+	2.7+)	1999 12 04	703	0.0	0.5-	2000 02 08	720	0.9-	0.4+
1998 09 20	809	(1.3+	2.3+)	1999 12 04	703	0.3+	0.2+	2000 02 08	720	0.9+	1.9+
1998 09 20	809	(1.5+	3.3+)	1999 12 04	703	0.4-	0.3-	2000 02 09	720	0.3-	0.0
1998 09 21	809	(2.5+	4.8+)	1999 12 04	703	0.8+	0.5-	2000 02 09	720	1.5+	0.1+
1998 09 21	809	(2.7+	4.7+)	1999 12 06	704	0.1+	0.1+	2000 02 11	704	0.2-	0.3+
1998 09 21	809	(2.1+	4.1+)	1999 12 06	704	1.3+	1.1-	2000 02 11	704	0.2-	0.4+
1998 10 10	699	1.7+	0.3+	1999 12 06	704	0.3-	0.4-	2000 02 11	704	0.3-	0.5+
1998 10 10	699	0.5+	1.3+	1999 12 06	704	0.2+	0.1-	2000 02 11	704	0.2+	0.6+
1998 10 10	699	1.1+	1.1-	1999 12 15	704	0.5-	0.5-	2000 02 11	628	0.4-	0.0
1998 10 28	704	1.5+	0.1+	1999 12 15	704	1.1-	0.6-	2000 02 11	628	0.3-	0.1-
1998 10 28	704	0.1+	0.2-	1999 12 15	704	1.1-	1.0-	2000 02 11	628	0.2-	0.0
1998 10 28	704	0.3+	0.6-	1999 12 15	704	0.2-	0.0	2000 02 11	628	0.2-	0.1-
1998 10 28	704	(2.4-	0.8-)	2000 01 06	704	0.4-	0.9-	2000 02 12	642	0.9-	1.7-
1998 10 29	704	0.3+	0.4-	2000 01 06	704	0.4+	0.7+	2000 02 12	642	(2.3+	3.7-)
1998 10 29	704	0.0	0.3+	2000 01 06	704	1.4-	0.9+	2000 02 12	642	1.1+	1.5-
1998 10 29	704	0.4+	1.0+	2000 01 06	704	0.9-	1.6+	2000 02 28	704	0.0	0.0
1998 10 29	704	0.5-	0.9-	2000 01 29	703	1.5-	0.8+	2000 02 28	704	0.5-	0.3+
1998 10 29	704	0.7-	1.3-	2000 01 29	703	0.4+	0.1-	2000 02 28	704	0.1-	0.3+
1998 11 10	704	1.3-	0.2-	2000 01 29	703	0.3+	0.4+	2000 02 28	704	0.1+	0.4+
1998 11 10	704	1.2-	0.6+	2000 01 29	703	0.1-	0.2+	2000 02 28	704	0.2+	0.7+
1998 11 10	704	0.6-	0.4+	2000 01 30	704	0.1-	0.3-	2000 03 04	704	0.5+	0.2+
1998 11 10	704	0.6-	1.1+	2000 01 30	704	0.3+	0.8-	2000 03 04	704	0.1+	0.2+
1998 11 11	704	0.4-	1.3+	2000 01 30	704	0.0	0.0	2000 03 04	704	0.3+	0.3+
1998 11 11	704	0.3-	0.4+	2000 01 30	704	0.3+	0.4-	2000 03 04	704	0.5+	0.1+
1998 11 11	704	0.6-	0.1+	2000 01 30	704	0.3-	0.6-	2000 03 04	704	0.7+	0.2+
1998 11 11	704	0.1-	0.3-	2000 01 30	703	0.2-	0.0	2000 03 12	704	0.2+	0.3-
1998 11 11	704	0.7-	0.7-	2000 01 30	703	0.1-	0.3-	2000 03 12	704	0.5+	0.4+
1999 11 05	703	0.2-	1.3+	2000 01 30	703	0.3+	0.4+	2000 03 12	704	0.1+	0.4+
1999 11 05	703	0.4+	0.7-	2000 01 30	703	0.1-	0.0	2000 03 12	704	0.2+	0.2+
1999 11 05	703	0.1+	0.3+	2000 02 03	704	0.1-	0.1+	2000 03 12	704	0.2-	0.8+
1999 11 05	703	0.0	0.1+	2000 02 03	704	0.1+	0.1+				

(14151)* 1998 SJ₇₃ = 1997 LG₁₂

Discovered 1998 Sept. 21 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 33037)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	128.39371		(2000.0)		P		Q
n	0.25502235	ω	248.40116		+0.93132122		-0.36156244
a	2.4627323	Ω	132.76552		+0.35229407		+0.86390014
e	0.1868127	i	3.41588		+0.09235620		+0.35064105
P	3.86	H	14.5	G	0.15	U	1

Residuals in seconds of arc

1996 02 16	566	1.3-	0.0	1998 09 27	704	0.3-	0.1-	1998 11 10	704	0.2+	1.6-
1996 02 16	566	0.2-	0.3-	1998 09 27	704	0.2-	0.4+	1998 11 10	704	0.5+	1.3-
1996 02 16	566	1.1+	0.3-	1998 09 27	704	0.7-	1.1+	1998 11 25	699	0.7-	0.7-
1997 06 05	691	(2.1-	5.1-)	1998 09 27	704	1.4-	0.5-	1998 11 25	699	0.2-	0.1+
1997 06 05	691	0.4-	0.4+	1998 09 27	704	1.2-	0.3-	1998 11 25	699	0.4-	0.3-
1997 06 05	691	0.3-	0.2+	1998 10 11	699	0.0	0.7+	2000 02 06	704	0.6+	0.2-
1997 06 07	809	0.6+	0.9-	1998 10 11	699	0.1-	0.0	2000 02 06	704	0.1+	0.0
1997 06 07	809	0.1-	0.8-	1998 10 11	699	0.3-	0.2+	2000 02 06	704	0.7+	1.4+
1997 06 07	809	0.3-	0.6-	1998 10 20	699	0.1+	0.0	2000 03 03	704	0.4+	0.3-

2000 MAR. 20

M.P.C. 39095

1997 06 08	809	0.3+	1.0-	1998 10 20	699	0.2+	0.3+	2000 03 03	704	0.5+	0.1+
1997 06 08	809	0.5+	0.7+	1998 10 20	699	0.1+	0.3+	2000 03 03	704	0.9+	0.5-
1997 06 08	809	0.7-	0.2+	1998 10 28	704	0.2+	0.1+	2000 03 03	704	0.4+	0.7-
1998 09 21	809	0.2+	1.6+	1998 10 28	704	0.4+	0.0	2000 03 05	608	0.1-	0.3-
1998 09 21	809	0.4-	0.3+	1998 10 28	704	1.1+	0.3+	2000 03 05	608	0.7-	0.0
1998 09 21	809	0.6-	1.3+	1998 10 28	704	0.2+	0.6+	2000 03 05	608	0.5-	0.0
1998 09 23	809	(1.6+	2.6+)	1998 10 29	704	0.8-	0.3+	2000 03 06	704	0.5-	0.5+
1998 09 23	809	(1.2+	2.8+)	1998 10 29	704	0.3+	0.6+	2000 03 06	704	0.6-	0.2-
1998 09 23	809	(0.0	2.1+)	1998 10 29	704	0.7+	0.6-	2000 03 06	704	0.2-	0.4-
1998 09 26	704	0.0	0.0	1998 10 29	704	0.1+	0.1+	2000 03 12	704	0.1-	0.7+
1998 09 26	704	0.3-	0.8-	1998 10 29	704	1.1+	0.6-	2000 03 12	704	0.1-	0.0
1998 09 26	704	0.2+	1.0-	1998 11 10	704	0.7+	0.5-	2000 03 12	704	0.0	0.5+
1998 09 26	704	0.3-	0.4+	1998 11 10	704	0.8+	0.2-	2000 03 12	704	0.0	0.7+
1998 09 26	704	0.8-	0.2-	1998 11 10	704	1.4+	0.5-	2000 03 12	704	0.0	0.9+

(14152)* 1998 SV₇₃ = 1991 RD₂₇

Discovered 1998 Sept. 21 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 33038)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	179.66494	(2000.0)		P		Q	
<i>n</i>	0.28258313	ω	287.46575	+0.86547934		+0.49377829	
<i>a</i>	2.2998803	Ω	43.04863	-0.39974717		+0.78233738	
<i>e</i>	0.1595655	<i>i</i>	7.10489	-0.30190678		+0.37964618	
<i>P</i>	3.49	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 09 13	675	0.0	1.0-	1998 10 20	699	0.3-	0.5-	2000 02 06	703	0.9-	1.2-
1991 09 13	675	0.9+	1.4-	1998 10 20	699	0.1-	0.2+	2000 02 06	703	0.3-	0.2+
1991 09 15	675	0.4+	0.0	1998 10 20	699	0.5-	0.6-	2000 02 06	703	1.3-	1.1+
1991 09 15	675	0.1+	0.7-	1998 10 28	704	0.9+	0.3-	2000 02 06	703	0.3-	1.3-
1997 04 04	566	0.4-	1.1-	1998 10 28	704	0.7+	0.7-	2000 02 29	704	0.5-	1.7+
1997 04 04	566	0.1-	1.3-	1998 10 28	704	0.2-	0.4-	2000 02 29	704	0.3-	1.1+
1997 04 04	566	0.1-	0.6-	1998 10 28	704	0.0	0.1+	2000 02 29	704	0.7+	1.5+
1998 09 18	699	0.2+	0.3+	1998 10 28	704	(2.3-	0.3+)	2000 02 29	704	(1.5+	2.6+)
1998 09 18	699	0.0	0.0	1998 10 29	704	0.0	0.1-	2000 02 29	704	0.1-	1.3+
1998 09 18	699	0.3-	0.1+	1998 10 29	704	0.9+	0.0	2000 03 04	704	0.3-	0.9-
1998 09 21	809	0.0	0.6+	1998 10 29	704	0.1-	0.2-	2000 03 04	704	0.1-	0.4-
1998 09 21	809	0.8-	0.3+	1998 10 29	704	0.3-	0.0	2000 03 04	704	0.5+	0.2+
1998 09 21	809	1.2-	0.1+	1998 10 29	704	0.4+	0.8-	2000 03 04	704	0.1+	0.2-
1998 09 23	809	1.4+	0.7+	1998 11 10	704	0.2-	1.6+	2000 03 04	704	0.3+	0.2+
1998 09 23	809	0.5+	0.7+	1998 11 10	704	(2.3+	1.8+)	2000 03 09	704	0.5-	0.5+
1998 09 23	809	0.2-	0.5-	1998 11 10	704	0.4+	0.7+	2000 03 09	704	0.1+	0.3-
1998 09 26	704	0.6-	0.6-	1998 11 10	704	0.4-	0.2+	2000 03 09	704	0.6+	0.9-
1998 09 26	704	0.7-	0.9-	1998 11 10	704	1.0+	1.7+	2000 03 09	704	0.8-	0.3-
1998 09 26	704	0.2-	1.4-	1998 11 11	704	(2.1+	2.2+)	2000 03 09	704	0.3-	0.2+
1998 09 26	704	0.5-	0.9-	1998 11 11	704	1.0+	0.9+	2000 03 12	703	1.1+	1.2-
1998 09 26	704	1.0-	0.6-	1998 11 11	704	0.3-	1.3+	2000 03 12	703	0.4-	0.5-
1998 09 27	704	0.1+	0.2-	1998 11 11	704	(0.2+	2.7+)	2000 03 12	704	0.1-	0.6-
1998 09 27	704	0.2+	0.4+	1998 11 11	704	0.4+	1.4+	2000 03 12	703	0.7-	0.3-
1998 09 27	704	0.6-	0.3+	1998 11 23	699	0.4+	0.7+	2000 03 12	703	1.2-	0.0
1998 09 27	704	1.9-	0.7-	1998 11 23	699	0.6+	0.5-	2000 03 12	704	0.8+	1.3-
1998 09 27	704	1.3-	1.9-	1998 11 23	699	0.6+	0.4-	2000 03 12	704	0.1+	0.7-
1998 10 11	699	0.8+	0.0	2000 02 03	704	1.2+	1.0+	2000 03 12	704	0.3-	1.2-
1998 10 11	699	0.8+	0.4+	2000 02 03	704	0.9+	0.4+				
1998 10 11	699	0.9+	0.2+	2000 02 03	704	0.4+	0.0				

(14153)* 1998 SA₈₀ = 1993 FN₇₀ = 1997 LW₁₃

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 35634)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

				(2000.0)				P		Q	
<i>M</i>	23.15003										
<i>n</i>	0.27108907	ω	281.55429	-0.55289888		-0.83288478					
<i>a</i>	2.3644386	Ω	202.06622	+0.78775107		-0.51285422					
<i>e</i>	0.0585507	<i>i</i>	3.75643	+0.27157150		-0.20804687					
<i>P</i>	3.64	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	1				

Residuals in seconds of arc

1991 11 03	691	0.8+	0.4+	1998 09 18	703	0.3-	0.6-	2000 02 02	704	0.1-	0.2+
1991 11 03	691	0.4+	0.1+	1998 09 18	703	0.6+	0.4-	2000 02 02	704	0.3+	0.7-
1991 11 03	691	0.4+	0.1+	1998 09 19	703	0.8+	0.4+	2000 02 02	704	0.0	0.2-
1993 03 21	809	0.5+	0.4-	1998 09 19	703	0.1+	0.2+	2000 02 02	704	0.4-	0.3+
1993 03 22	809	0.4-	0.0	1998 09 19	703	1.6-	0.7-	2000 02 06	704	0.8+	0.6-
1993 04 15	691	1.0-	0.1+	1998 09 19	703	(2.5-	1.5-)	2000 02 06	704	0.4+	0.7+
1993 04 15	691	0.7-	0.5+	1998 09 26	704	0.3+	1.8+	2000 02 06	704	0.1-	0.7+
1993 04 15	691	0.8-	0.3+	1998 09 26	704	0.1+	0.4+	2000 02 06	704	0.2+	0.7+
1997 06 08	809	(1.1+	2.9+)	1998 09 26	704	0.2-	0.9-	2000 02 27	703	0.5+	0.5+
1997 06 08	809	(0.8+	3.1+)	1998 09 26	704	0.1-	0.6-	2000 02 27	703	0.5+	0.4+
1997 06 08	809	(0.7+	3.2+)	1998 09 26	704	0.3-	0.9+	2000 02 27	703	0.3+	0.7+
1997 06 09	809	0.6+	0.5+	1998 09 27	704	0.8+	0.1-	2000 02 27	703	0.6-	0.3-
1997 06 09	809	0.1+	0.9+	1998 09 27	704	1.5-	0.7+	2000 03 06	704	1.1-	0.3+
1997 06 09	809	1.9+	0.3-	1998 09 27	704	0.9-	0.5-	2000 03 06	704	0.2-	0.4-
1998 09 18	703	0.6+	0.6+	1998 09 27	704	0.4-	0.3+	2000 03 06	704	0.4+	0.3-
1998 09 18	703	0.8-	0.2-	2000 02 02	704	0.2+	0.2-				

(14154)* 1998 SZ₁₀₆ = 1996 FT₄

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33040)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	53.60867	(2000.0)		P		Q	
<i>n</i>	0.22116207	ω	239.55494	+0.19149010		-0.98136469	
<i>a</i>	2.7080850	Ω	199.42460	+0.91616518		+0.18455585	
<i>e</i>	0.0601369	<i>i</i>	2.75156	+0.35209785		+0.05350213	
<i>P</i>	4.46	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 07 24	691	0.5-	0.9+	1998 10 28	704	0.5+	1.5-	2000 02 04	704	0.2+	0.0
1993 07 24	691	0.3-	0.4+	1998 10 29	704	1.0-	0.2-	2000 02 05	704	0.4-	0.3+
1993 07 24	691	0.3-	0.3+	1998 10 29	704	(0.3-	2.7+)	2000 02 05	704	0.3+	0.0
1996 03 20	566	0.6+	1.0-	1998 10 29	704	0.9+	0.0	2000 02 05	704	0.1-	0.2-
1996 03 20	566	0.1-	1.2-	1998 10 29	704	1.9-	1.0+	2000 02 05	704	0.4+	0.5-
1996 03 20	566	0.0	0.5-	1999 12 07	704	0.1+	0.1+	2000 02 05	704	0.4+	0.2+
1996 03 26	566	0.2-	0.1+	1999 12 07	704	0.0	0.3+	2000 02 06	704	0.3-	0.4+
1996 03 26	566	0.2-	0.2+	1999 12 07	704	0.7-	1.0-	2000 02 06	704	0.4-	0.7+
1996 03 26	566	0.3-	0.2+	1999 12 07	704	0.3+	0.3-	2000 02 06	704	0.2+	0.8+
1998 09 26	704	0.8+	0.3-	1999 12 07	704	0.8+	0.0	2000 02 06	704	1.5+	0.7-
1998 09 26	704	1.1-	0.8-	2000 01 05	704	0.6-	0.3-	2000 02 06	704	0.3+	0.2+
1998 09 26	704	1.1+	0.9+	2000 01 05	704	0.3-	1.1-	2000 02 08	704	0.0	0.1+
1998 09 26	704	0.6+	0.0	2000 01 05	704	0.2+	0.4-	2000 02 08	704	0.2-	0.1+
1998 09 26	704	0.8+	0.2+	2000 01 05	704	0.5-	0.2-	2000 02 08	704	0.0	0.2-
1998 09 27	704	0.0	0.7+	2000 01 07	704	0.1-	0.4-	2000 02 08	704	0.1-	0.1-
1998 09 27	704	0.4+	0.8+	2000 01 07	704	0.4-	0.4-	2000 02 12	704	0.5+	0.6+
1998 09 27	704	0.5-	0.1-	2000 01 07	704	0.0	0.5-	2000 02 12	704	0.2+	0.6+
1998 09 27	704	0.9+	1.3-	2000 01 07	704	0.2+	0.1-	2000 02 12	704	0.5+	0.1-
1998 09 27	704	0.2-	0.6+	2000 01 07	704	0.2+	0.6-	2000 02 12	704	1.3-	0.4+
1998 10 10	699	0.1+	0.2-	2000 01 30	703	0.4-	0.1+	2000 02 12	704	0.1-	0.1-
1998 10 10	699	0.6+	0.4+	2000 01 30	703	0.1-	0.1+	2000 02 26	703	0.6+	0.5+
1998 10 10	699	0.6-	0.3+	2000 01 30	703	0.6-	0.4+	2000 02 26	703	1.7-	0.3+
1998 10 13	691	0.8-	0.0	2000 01 30	703	1.2-	1.3+	2000 02 26	703	1.5+	0.6+
1998 10 13	691	1.2-	0.1+	2000 02 02	704	0.1-	0.2+	2000 02 26	703	0.5-	0.5+
1998 10 13	691	1.0-	0.1+	2000 02 02	704	0.4-	0.4+	2000 03 05	704	0.4+	0.1-
1998 10 14	699	0.3+	0.3+	2000 02 02	704	0.1+	0.3+	2000 03 05	704	1.3+	0.0
1998 10 14	699	0.1+	0.5+	2000 02 02	704	0.1-	0.4+	2000 03 05	704	0.1+	0.6-
1998 10 14	699	0.4+	0.5+	2000 02 02	704	0.1+	0.7+	2000 03 05	704	0.2+	0.3-

1998 10 28 704 0.5+ 0.2- 2000 02 04 704 (2.2+ 0.5-) 2000 03 05 704 0.2- 0.1-
 1998 10 28 704 0.6+ 0.8- 2000 02 04 704 0.2+ 0.0
 1998 10 28 704 0.7+ 1.9- 2000 02 04 704 0.2+ 0.2+

(14155)* 1998 SK₁₂₂ = 1988 XS₂ = 1991 RJ₁₉

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid
 Research Team at Socorro.

Id. G. V. Williams (*MPC* 33287)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	81.77366	(2000.0)	P	Q	
<i>n</i>	0.28884849	ω 227.11317	-0.07242894	-0.99646569	
<i>a</i>	2.2665013	Ω 227.09240	+0.93116844	-0.05227670	
<i>e</i>	0.0952643	<i>i</i> 3.33003	+0.35732251	-0.06575163	
<i>P</i>	3.41	<i>H</i> 14.4	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1988 12 11	877	1.0+	1.3-	1998 09 27	704	0.1+	0.3+	1998 10 29	704	0.1+	0.4-
1988 12 11	877	0.3+	1.0+	1998 09 27	704	0.4+	0.8+	1998 10 29	704	0.3+	1.0-
1988 12 14	877	1.4-	0.7+	Y 1998 09 27	704	0.1+	1.7+	1999 01 20	691	0.3+	0.5-
1988 12 14	877	(0.9+	3.9+)	Y 1998 09 27	704	0.5+	0.8+	1999 01 20	691	0.1+	0.7-
1991 09 14	675	0.1-	0.5+	1998 09 27	704	0.5-	1.7+	1999 01 20	691	0.1+	0.7-
1991 09 14	675	0.7+	0.0	1998 10 11	699	0.5+	0.0	2000 02 02	704	0.5-	0.2+
1991 09 17	675	0.2-	0.2+	1998 10 11	699	0.3+	0.1-	2000 02 02	704	0.6+	0.6+
1991 09 17	675	0.1-	0.9-	1998 10 11	699	0.6+	0.1+	2000 02 02	704	0.8+	0.8+
1998 09 14	699	0.4+	0.8+	1998 10 28	704	1.0-	0.3-	2000 03 04	703	0.0	0.1-
1998 09 14	699	0.1+	0.3+	1998 10 28	704	1.4-	0.3-	2000 03 04	703	0.1+	0.6+
1998 09 14	699	0.5-	0.3+	1998 10 28	704	1.6-	0.7+	2000 03 04	703	0.3-	0.5+
1998 09 26	704	0.1-	0.3+	1998 10 28	704	1.2-	0.0	2000 03 04	703	0.0	0.7+
1998 09 26	704	0.4+	0.4+	1998 10 28	704	0.4-	0.3-	2000 03 09	704	0.9+	0.3+
1998 09 26	704	0.3+	0.3+	1998 10 29	704	0.1-	0.3-	2000 03 09	704	0.3+	1.7+
1998 09 26	704	0.3-	0.6+	1998 10 29	704	0.1+	0.5-	2000 03 09	704	(2.7+	2.1+)
1998 09 26	704	0.1+	0.5+	1998 10 29	704	1.3+	0.8-				

(14156)* 1998 SV₁₃₁ = 1990 WU₆ = 1992 EZ₁

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid
 Research Team at Socorro.

Id. G. V. Williams (*MPC* 33291)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	148.54702	(2000.0)	P	Q	
<i>n</i>	0.23567600	ω 124.63926	+0.96792663	+0.19582602	
<i>a</i>	2.5957278	Ω 224.65986	-0.23000621	+0.94273465	
<i>e</i>	0.0650968	<i>i</i> 12.93879	+0.10107014	+0.27000659	
<i>P</i>	4.18	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 2	

Residuals in seconds of arc

1990 11 21	809	(0.6-	2.5-)	1998 10 28	704	0.4+	0.0	1998 11 17	699	0.1-	0.5+
1990 11 21	809	(0.9-	2.5-)	1998 10 28	704	0.0	0.5+	1998 11 17	699	0.7-	1.2+
1990 11 21	809	1.1-	1.6-	1998 10 28	704	0.9+	0.1+	1998 11 23	699	0.4-	0.2+
1990 11 22	809	0.7+	0.3-	1998 10 28	704	0.3+	0.2-	1998 11 23	699	1.0-	0.7-
1990 11 22	809	0.4+	0.5-	1998 10 28	704	0.7+	0.1+	1998 11 23	699	0.7-	0.5-
1990 11 22	809	(1.4-	2.4-)	1998 10 29	704	1.0+	0.6+	1998 12 09	699	0.5-	1.6-
1992 03 10	413	0.8-	0.3+	1998 10 29	704	1.3+	0.3+	1998 12 09	699	0.7-	0.2+
1992 03 10	413	1.6+	0.5-	1998 10 29	704	0.6+	0.8+	1998 12 09	699	0.6-	0.1+
1992 03 11	413	1.0-	0.7+	1998 10 29	704	1.4+	0.4+	2000 01 07	699	0.6+	0.8+
1992 03 11	413	0.2+	0.5-	1998 10 29	704	1.5+	0.2+	2000 01 07	699	0.6+	0.1+
1998 09 26	704	0.4-	0.2-	1998 11 10	704	1.1-	0.1-	2000 01 07	699	1.4+	0.4-
1998 09 26	704	0.5-	0.5-	1998 11 10	704	1.0-	0.5-	2000 02 08	704	0.1-	0.1+
1998 09 26	704	0.7+	0.2-	1998 11 10	704	0.2+	0.5-	2000 02 08	704	0.0	0.2+
1998 09 26	704	0.1+	0.5+	1998 11 10	704	0.3-	0.3-	2000 02 08	704	0.2-	0.3-
1998 09 26	704	0.8+	0.6+	1998 11 11	704	0.9-	0.0	2000 02 08	704	0.1-	0.2-
1998 09 27	704	0.3-	0.7-	1998 11 11	704	0.3-	0.1-	2000 02 08	704	0.1+	0.2-
1998 09 27	704	0.4-	0.1+	1998 11 11	704	0.9-	0.0	2000 03 08	704	0.1+	0.2+
1998 09 27	704	0.3+	0.3+	1998 11 11	704	0.7-	0.2-	2000 03 08	704	0.7+	0.0
1998 09 27	704	0.8+	0.9+	1998 11 11	704	1.0-	1.2+	2000 03 08	704	0.5-	0.3-
1998 09 27	704	0.2+	0.2-	1998 11 17	699	0.2-	0.3+	2000 03 08	704	1.8-	1.7+

(14157)* 1998 SA₁₃₃ = 1981 UY₂₇ = 1991 RU₂₀ = 1997 EX₅₂

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid
 Research Team at Socorro.

Id. G. V. Williams (*MPC* 33044)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	226.92755	(2000.0)	P	Q	
<i>n</i>	0.28974440	ω 278.96552	+0.26444301	+0.96424551	
<i>a</i>	2.2618268	Ω 6.44734	-0.81303447	+0.23256896	
<i>e</i>	0.1459165	<i>i</i> 8.88045	-0.51869533	+0.12705225	
<i>P</i>	3.40	<i>H</i> 14.2	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1981 10 24	675	0.1-	0.1+	1998 09 27	704	0.1+	0.1+	1998 11 10	704	1.3-	0.7-
1981 10 25	675	0.1+	0.3-	1998 09 27	704	0.6-	0.5+	1998 11 10	704	0.4-	0.2-
1981 10 26	675	0.7-	0.2+	1998 09 27	704	0.2-	0.5+	1998 11 17	699	0.7-	0.8+
1991 09 14	675	0.6+	0.2+	1998 09 27	704	0.8-	0.2-	1998 11 17	699	0.5-	0.8+
1991 09 14	675	0.0	0.7+	1998 10 11	699	0.1-	0.2-	1998 11 17	699	0.7+	0.1-
1991 09 16	675	0.3+	0.0	1998 10 11	699	0.5+	0.2-	2000 01 03	704	0.3-	0.2-
1991 09 16	675	0.0	0.5+	1998 10 11	699	0.1+	0.2-	2000 01 03	704	0.4-	0.7+
1997 03 08	809	0.4-	0.0	1998 10 12	910	(2.2+	0.0)	2000 01 03	704	0.0	0.2+
1997 03 08	809	0.1-	0.3+	1998 10 12	910	(2.3+	0.2-)	2000 01 03	704	1.0-	0.0
1997 03 08	809	0.5-	0.0	1998 10 12	910	(2.1+	0.1-)	2000 01 03	704	0.6-	0.4-
1997 03 09	809	(3.9+	3.5+)	1998 10 15	704	0.1+	0.1+	2000 02 14	704	1.7+	1.1-
1997 03 09	809	(3.9+	3.5+)	1998 10 15	704	0.8+	0.8+	2000 02 14	704	(2.5+	1.6-)
1997 03 09	809	(4.4+	3.4+)	1998 10 15	704	0.2-	0.7+	2000 02 14	704	(2.7+	0.5-)
1998 09 14	699	0.4+	0.2+	1998 10 15	704	0.4+	0.1-	2000 02 14	704	2.0+	0.5-
1998 09 14	699	1.1+	0.0	1998 10 15	704	(5.4-	0.1+)	2000 02 28	704	0.2-	0.1+
1998 09 14	691	0.6+	0.5+	1998 10 28	704	0.3+	0.4-	2000 02 28	704	0.2+	0.4+
1998 09 14	699	0.1-	0.1-	1998 10 28	704	0.4+	0.0	2000 02 28	704	0.1-	0.6+
1998 09 14	691	0.6+	0.2+	1998 10 28	704	0.0	0.2+	2000 02 28	704	0.4+	0.6-
1998 09 14	691	0.7+	0.0	1998 10 28	704	0.5-	0.2-	2000 03 04	704	0.1-	0.5+
1998 09 18	809	1.5+	0.5-	1998 10 28	704	0.4+	0.7+	2000 03 04	704	0.4+	0.5+
1998 09 18	809	0.1+	0.9-	1998 10 29	704	0.2-	0.0	2000 03 04	704	0.3+	0.7+
1998 09 18	809	0.4+	0.5-	1998 10 29	704	0.3+	0.3+	2000 03 06	704	1.0-	0.3-
1998 09 26	704	1.5-	0.5-	1998 10 29	704	0.1-	0.4+	2000 03 06	704	0.2-	0.0
1998 09 26	704	0.4-	1.5-	1998 10 29	704	0.3+	0.1-	2000 03 06	704	0.2-	0.4-
1998 09 26	704	0.7-	1.6-	1998 10 29	704	0.0	0.8+	2000 03 06	704	0.1-	1.0-
1998 09 26	704	1.5-	1.3-	1998 11 10	704	0.5-	0.0				
1998 09 27	704	0.4-	0.2+	1998 11 10	704	0.0	0.2-				

(14158)* 1998 SZ₁₃₃ = 1977 EF₆

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid
 Research Team at Socorro.

Id. A. Gnädig (*MPC* 33293), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	87.14527	(2000.0)	P	Q	
<i>n</i>	0.25719942	ω 232.86625	+0.29012968	-0.95636967	
<i>a</i>	2.4488155	Ω 200.34932	+0.90638631	+0.28613801	
<i>e</i>	0.0971780	<i>i</i> 5.67350	+0.30706453	+0.05900925	
<i>P</i>	3.83	<i>H</i> 14.3	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1977 03 12	381	1.6-	0.7+	1998 09 27	704	0.4-	0.3+	2000 02 08	704	0.6+	0.3-
1977 03 12	381	0.3+	0.1+	1998 09 27	704	1.5-	0.0	2000 02 08	704	0.3+	0.3+
1977 03 14	381	0.9+	0.6-	1998 09 27	704	1.5-	0.5+	2000 02 08	704	0.1-	0.2+
1977 03 14	381	0.9-	0.3-	1998 10 10	699	0.3-	1.0+	2000 02 08	704	0.1-	0.6+
1977 03 15	381	0.8+	0.5-	1998 10 10	699	0.4-	1.8+	2000 02 08	704	0.3-	0.2-
1977 03 15	381	0.2+	0.1+	1998 10 10	699	0.1-	0.2+	2000 03 01	703	0.5-	0.3-
1994 09 11	691	0.1+	0.4+	1998 10 17	699	0.4+	0.2-	2000 03 01	703	0.0	0.2+
1994 09 11	691	0.2-	0.4+	1998 10 17	699	0.0	0.3+	2000 03 01	703		

2000 MAR. 20

M.P.C. 39097

1998 09 16	411	0.8–	0.6–	1998 11 10	704	0.4–	1.2–	2000 03 08	704	0.7+	1.3+
1998 09 16	411	0.7–	0.4–	1998 11 10	699	0.4+	0.4+	2000 03 08	704	0.6+	0.6+
1998 09 18	809	(1.4+	3.2+)	1998 11 10	699	0.3+	0.6+	2000 03 13	703	0.2–	0.4+
1998 09 18	809	(0.6+	3.8+)	1998 11 10	699	1.0+	0.8+	2000 03 13	703	0.4–	0.2+
1998 09 18	809	(0.4–	3.4+)	1998 11 11	704	0.7+	0.7+	2000 03 13	703	0.7–	0.1+
1998 09 20	809	(0.4+	3.3+)	1998 11 11	704	0.5+	0.2–	2000 03 13	703	0.2–	0.0
1998 09 20	809	(0.1+	3.4+)	1998 11 11	704	0.6–	0.5+	2000 03 13	704	0.0	0.1+
1998 09 20	809	(0.7–	2.9+)	1998 11 11	704	0.5+	1.6–	2000 03 13	704	0.4–	0.3+
1998 09 26	704	0.3–	0.7+	1998 11 11	704	1.5+	0.7–	2000 03 13	704	0.1+	0.8+
1998 09 26	704	0.1+	0.1+	1998 11 23	699	1.2+	0.2+	2000 03 13	704	0.5+	1.0+
1998 09 26	704	0.3+	0.7–	1998 11 23	699	0.8+	0.1–	2000 03 13	704	0.1+	0.6+
1998 09 26	704	0.1+	0.7–	1998 11 23	699	0.4–	1.1+	2000 03 14	608	0.0	0.8–
1998 09 26	704	0.2–	0.0	2000 01 05	704	0.6+	1.0+	2000 03 14	608	0.4–	1.6–
1998 09 27	704	0.5–	0.5+	2000 01 05	704	0.2+	0.2+	2000 03 14	608	0.3–	1.6–
1998 09 27	704	0.2–	0.7–	2000 01 05	704	0.3+	0.3–				

(14159)* 1998 SV₁₄₁ = 1985 SY

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 35635)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.30813786	ω	160.84980	–0.18756340		+0.97894032	
<i>a</i>	2.1708976	Ω	98.27667	–0.91149329		–0.14288585	
<i>e</i>	0.0791036	<i>i</i>	4.67163	–0.36606004		–0.14580635	
<i>P</i>	3.20	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1985 09 17	801	0.1+	0.0	1998 10 15	704	0.2–	0.5+	2000 02 29	704	0.3+	0.0
1995 10 23	691	0.1–	0.1–	1998 10 15	704	0.3+	1.0+	2000 02 29	704	0.1–	0.2+
1995 10 23	691	0.2–	0.2–	1998 10 15	704	0.9+	1.0+	2000 02 29	704	0.3–	0.3–
1996 01 22	327	0.4+	0.4+	1998 10 15	704	1.5+	1.2+	2000 03 02	703	0.1–	0.5+
1996 01 22	327	0.2–	0.3–	1998 10 15	704	(6.4–	1.1–)	2000 03 02	703	0.8+	0.1–
1996 01 22	327	0.1–	0.1–	1998 10 20	699	1.0+	0.9+	2000 03 02	703	0.5–	0.3+
1998 09 26	704	0.3–	0.2–	1998 10 20	699	1.2+	0.5+	2000 03 02	703	1.1–	0.4–
1998 09 26	704	0.1+	1.3–	1998 10 20	699	0.4+	0.6+	2000 03 03	608	(0.3–	2.5–)
1998 09 26	704	0.2–	1.1–	1998 11 10	704	(2.1+	0.5+)	2000 03 03	608	(0.4–	2.1–)
1998 09 26	704	1.4–	0.4–	1998 11 10	704	0.6–	0.8+	2000 03 03	608	(0.0	2.3–)
1998 09 26	704	0.7+	0.6–	1998 11 10	704	1.2–	1.0–	2000 03 05	704	0.1+	0.3–
1998 09 27	704	0.4+	0.8–	1998 11 10	704	0.1+	0.1–	2000 03 05	704	0.0	0.2+
1998 09 27	704	0.9–	0.6+	2000 02 04	704	1.7+	0.5–	2000 03 05	704	0.2–	0.5–
1998 09 27	704	1.1–	0.2–	2000 02 04	704	1.1+	0.0	2000 03 05	704	1.0–	0.1+
1998 09 27	704	1.6–	0.7–	2000 02 04	704	1.6+	0.1+	2000 03 05	704	0.3–	0.0
1998 09 27	704	1.5–	1.4–	2000 02 04	704	0.1+	0.5+	2000 03 12	704	0.1–	0.2–
1998 10 01	910	0.4+	0.8+	2000 02 04	704	(2.5+	0.2+)	2000 03 12	704	0.5–	0.2–
1998 10 01	910	0.9+	0.5+	2000 02 11	704	0.3–	0.1+	2000 03 12	704	0.3–	0.3+
1998 10 01	910	0.7+	0.7+	2000 02 11	704	0.4–	0.5–	2000 03 12	704	0.2–	0.6+
1998 10 11	699	0.1–	0.8–	2000 02 11	704	0.0	0.5–	2000 03 12	704	0.0	0.4+
1998 10 11	699	0.4+	0.5–	2000 02 29	704	0.1–	0.2–				
1998 10 11	699	0.0	0.5–	2000 02 29	704	0.0	0.2–				

(14160)* 1998 SB₁₄₄ = 1997 LH₈

Discovered 1998 Sept. 18 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 33297)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.24227025	ω	225.57781	+0.99573545		+0.09001165	
<i>a</i>	2.5484101	Ω	129.24728	–0.07547769		+0.92087303	
<i>e</i>	0.1726854	<i>i</i>	1.49608	–0.05304737		+0.37932937	
<i>P</i>	4.07	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1996 02 15	691	0.4+	0.3–	1998 10 10	699	0.3+	0.2–	2000 02 04	691	0.0	0.4–
1996 02 15	691	0.1+	0.4+	1998 10 28	704	1.1+	0.3–	2000 02 04	691	0.2–	0.3–

1996 02 15	691	0.2–	0.1+	1998 10 28	704	0.3+	0.4–	2000 02 04	691	0.0	0.2+
1997 06 07	809	1.5+	1.3–	1998 10 28	704	1.1–	0.4–	2000 02 14	691	0.1+	0.1–
1997 06 07	809	0.1+	1.1–	1998 10 28	704	0.5+	0.6–	2000 02 14	691	0.0	0.2–
1997 06 07	809	0.6–	0.1–	1998 10 29	704	0.6–	0.8–	2000 02 14	691	0.1–	0.1–
1997 06 08	809	1.3–	0.4–	1998 10 29	704	0.2–	0.1+	2000 02 27	691	0.3–	0.3+
1997 06 08	809	0.5–	0.3–	1998 10 29	704	0.2+	0.1+	2000 02 27	691	0.2–	0.2+
1997 06 08	809	0.5–	0.3–	1998 10 29	704	(0.5–	2.2+)	2000 02 27	691	0.4–	0.1–
1998 09 18	809	0.1+	1.8+	1998 10 29	704	0.7+	0.6–	2000 02 29	704	1.1–	0.0
1998 09 18	809	1.2–	1.1+	1998 11 11	704	0.9+	0.1+	2000 02 29	704	0.3+	0.6+
1998 09 18	809	(2.4–	0.8+)	1998 11 11	704	1.4+	0.6+	2000 02 29	704	0.3+	0.6–
1998 09 20	809	0.4+	0.3+	1998 11 11	704	0.6–	0.4–	2000 02 29	704	1.0+	0.5+
1998 09 20	809	0.3–	0.7+	1998 11 11	704	1.7+	1.3–	2000 03 03	704	0.6–	0.4–
1998 09 20	809	0.6–	0.4+	1999 01 15	691	0.6–	0.7–	2000 03 03	704	0.4+	0.6–
1998 10 10	699	0.4–	0.6–	1999 01 15	691	0.8–	0.6–	2000 03 03	704	0.5+	0.6+
1998 10 10	699	0.5–	0.1–	1999 01 15	691	0.4–	1.2–	2000 03 03	704	0.4+	0.0

(14161)* 1998 SO₁₄₅ = 1990 HC₆ = 1994 RP₂₃

Discovered 1998 Sept. 20 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 33298)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.26642084	ω	250.57485	+0.75080683		+0.65984457	
<i>a</i>	2.3919784	Ω	68.12491	–0.59328676		+0.69359082	
<i>e</i>	0.1364036	<i>i</i>	1.84663	–0.29034450		+0.28902755	
<i>P</i>	3.70	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1990 04 29	413	(5.0–	0.2–)	1998 10 28	704	0.3+	0.2–	2000 02 03	704	0.0	0.8+
1990 05 01	413	(4.2–	0.0)	1998 10 28	704	0.3–	0.6–	2000 02 03	704	0.5+	0.3+
1990 05 02	413	(5.6–	0.1–)	1998 10 28	704	0.7–	1.2–	2000 02 11	704	0.4–	0.1–
1994 09 05	809	0.3–	1.6+	1998 10 29	704	0.4–	0.1–	2000 02 11	704	0.6–	0.5–
1994 09 05	809	0.4–	0.4+	1998 10 29	704	0.4–	0.7–	2000 02 11	704	0.3–	0.4+
1994 09 05	809	0.8–	0.6+	1998 10 29	704	0.4–	1.0–	2000 02 11	704	0.9–	0.2+
1994 09 06	809	0.3+	0.1+	1998 10 29	704	0.5–	0.4+	2000 02 11	704	1.5+	0.9+
1994 09 06	809	0.1+	0.0	1998 10 29	704	0.5–	0.3+	2000 02 27	703	1.8+	0.4+
1994 09 06	809	0.1+	0.3+	1998 11 10	704	0.8+	0.3–	2000 02 27	703	0.4–	0.0
1997 04 11	809	0.2+	1.2–	1998 11 10	704	0.1–	0.6–	2000 02 27	703	0.0	0.5–
1997 04 11	809	1.3–	0.3–	1998 11 10	704	0.5–	0.2+	2000 02 27	703	0.5–	0.0
1997 04 11	809	0.0	0.6–	1998 11 10	704	0.8–	0.2–	2000 02 28	704	0.2+	0.1+
1998 09 14	699	0.1+	0.5+	1998 11 11	704	0.7–	0.4–	2000 02 28	704	0.3+	0.5+
1998 09 14	699	0.4+	0.3+	1998 11 11	704	0.3–	1.2+	2000 02 28	704	0.0	0.8+
1998 09 14	699	0.7+	0.1–	1998 11 11	704	0.2–	0.6+	2000 02 28	704	0.4–	0.4+
1998 09 20	809	1.5+	0.3–	1998 11 11	704	0.1–	0.4+	2000 02 28	704	0.2–	0.8+
1998 09 20	809	0.2+	0.0	1998 11 11	704	1.1+	0.4–	2000 03 05	704	0.5+	0.2–
1998 09 20	809	0.3–	0.3+	1999 01 09	691	0.2+	1.3–	2000 03 05	704	0.1–	0.6–
1998 09 21	809	1.7+	1.5+	1999 01 09	691	0.6+	0.9–	2000 03 05	704	1.0+	0.9+
1998 09 21	809	1.3+	1.8+	1999 01 09	691	0.1+	0.5–	2000 03 05	704	0.1–	0.4+
1998 09 21	809	(0.6+	2.3+)	1999 01 18	691	0.1–	0.7–	2000 03 05	704	0.7+	0.5–
1998 10 10	699	0.5–	0.6–	2000 01 25	611	1.3–	0.5–	2000 03 05	704	0.2+	0.1–
1998 10 10	699	0.3+	0.6+	2000 02 03	704	1.6+	0.6–	2000 03 05	704	0.9–	0.1+
1998 10 10	699	0.8–	1.4–	2000 02 03	704	0.1+	1.7+	2000 03 05	704	0.7–	0.9–
1998 10 28	704	0.0	0.5–	2000 02 03	704	0.1+	0.3+				

(14162)* 1998 TV₁ = 1961 XQ =

Residuals in seconds of arc

1961 12 08	760	1.1-	0.4-	1998 10 29	704	1.2-	0.7-	1999 01 08	704	0.5+	1.7-
1961 12 08	760	0.3+	1.0+	1998 10 29	704	1.8-	0.2-	1999 01 08	704	1.1+	1.0-
1987 12 20	010	0.3-	0.1-	1998 10 29	704	1.0-	0.3-	1999 01 08	704	0.9+	0.3+
1987 12 20	010	1.2+	0.0	1998 11 10	704	1.3+	0.2-	1999 01 11	704	0.0	0.0
1987 12 20	010	0.7+	0.7+	1998 11 10	704	0.7+	0.3+	1999 01 11	704	0.3-	0.0
1993 05 24	691	0.3-	0.3-	1998 11 10	704	1.5+	0.5-	1999 01 11	704	0.1-	0.9+
1993 05 24	691	0.1-	0.5+	1998 11 10	704	1.7+	0.3+	1999 01 11	704	0.7+	0.5+
1993 05 24	691	0.0	0.5+	1998 11 10	704	1.4+	0.1+	1999 01 11	704	0.4+	0.5-
1998 10 12	699	0.0	0.1+	1998 11 11	704	0.4-	0.7+	1999 02 06	704	0.4+	0.4-
1998 10 12	699	0.1+	0.2+	1998 11 11	704	1.0-	0.5-	1999 02 06	704	0.3-	0.2-
1998 10 12	699	0.1+	0.2+	1998 11 11	704	0.4-	0.0	1999 02 06	704	0.7+	0.0
1998 10 14	120	0.7-	0.2+	1998 11 11	704	0.9-	0.0	1999 02 06	704	1.5-	0.9-
1998 10 14	120	1.4-	0.3+	1998 11 13	120	0.1-	0.1+	1999 02 06	704	0.5-	0.5-
1998 10 14	120	1.2-	0.7+	1998 11 13	120	0.4-	0.3+	2000 01 08	704	0.3+	1.0-
1998 10 14	120	0.1-	0.1-	1998 11 13	120	(2.2+	1.2-)	2000 01 08	704	0.2+	0.1-
1998 10 14	120	0.0	0.1-	1998 11 13	120	0.0	0.1+	2000 01 08	704	0.4-	0.6+
1998 10 14	120	0.1-	0.2-	1998 11 13	120	0.4+	0.0	2000 01 08	704	0.1-	0.1+
1998 10 14	120	0.3-	0.1-	1998 11 13	120	0.1+	0.1-	2000 01 08	704	0.1-	0.2+
1998 10 14	120	0.3-	0.1-	1998 11 13	120	0.4-	0.4+	2000 03 07	704	0.6+	0.5+
1998 10 14	120	0.2-	0.2-	1998 11 13	120	0.1-	0.2+	2000 03 07	704	0.1-	0.2-
1998 10 14	120	0.9-	0.3-	1998 11 13	120	0.0	0.0	2000 03 07	704	0.7+	0.5+
1998 10 14	120	0.0	0.2-	1998 11 13	120	0.1-	0.1+	2000 03 11	699	0.7+	0.6+
1998 10 18	809	0.4-	1.3+	1998 11 13	120	0.3-	0.0	2000 03 11	699	0.1-	0.6+
1998 10 18	809	0.1+	1.2+	1998 11 13	120	0.2-	0.2-	2000 03 11	699	0.8+	0.0
1998 10 18	809	0.7-	1.1+	1998 11 24	699	0.4+	0.1+	2000 03 11	699	0.8+	0.6+
1998 10 19	809	(3.0+	0.0)	1998 11 24	699	0.3+	0.1-	2000 03 12	703	0.3+	0.4+
1998 10 19	809	1.6+	0.5+	1998 11 24	699	0.5+	0.1-	2000 03 12	703	0.2+	0.4+
1998 10 19	809	1.6+	0.2-	1998 11 25	691	0.3+	0.2+	2000 03 12	703	0.0	0.4+
1998 10 20	120	0.4-	0.6+	1998 11 25	691	0.1+	0.3-	2000 03 12	703	0.1+	0.2+
1998 10 20	120	0.4-	0.6+	1998 11 25	691	0.3+	0.2-	2000 03 15	699	0.2+	0.2+
1998 10 26	120	0.6-	0.2-	1998 12 12	952	0.5-	0.8-	2000 03 15	699	0.1+	0.3+
1998 10 26	120	0.1-	0.0	1998 12 12	952	0.7+	0.7-	2000 03 15	699	0.0	0.3+
1998 10 29	704	0.8-	0.6+	1999 01 08	704	0.1+	0.5+	2000 03 15	699	0.1+	0.3+
1998 10 29	704	0.3-	0.3-	1999 01 08	704	0.7+	0.4+				

(14163)* 1998 TY₂₀ = 1996 HP₁₃

Discovered 1998 Oct. 13 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 33304)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	57.20404		(2000.0)	P	Q
n	0.20184796	ω	144.82019	+0.17245534	-0.98493750
a	2.8781923	Ω	295.24629	+0.90052832	+0.16280943
e	0.0705632	i	0.79447	+0.39913393	+0.05823416
P	4.88	H	14.3	G 0.15	U 1

Residuals in seconds of arc

1993 10 12	809	(1.0-	2.1+)	1998 10 28	704	0.5+	1.4+	2000 02 11	704	0.1-	0.2+
1993 10 12	809	0.2+	1.1+	1998 10 28	704	0.6+	0.4+	2000 02 11	704	0.3+	0.6+
1993 10 12	809	0.4-	1.9+	1998 10 28	704	0.5+	1.0+	2000 02 11	704	0.3+	0.7+
1993 10 22	809	(3.5+	1.8-)	1998 10 28	704	0.3+	1.2+	2000 02 29	704	0.2+	0.3+
1993 10 22	809	0.8+	0.6-	1998 10 29	704	0.3-	1.5-	2000 02 29	704	0.5+	0.8+
1993 10 22	809	1.6-	0.0	1998 10 29	704	0.5-	0.4-	2000 02 29	704	0.4+	0.3+
1996 04 17	809	0.8+	0.1+	1998 10 29	704	0.5-	0.1-	2000 02 29	704	0.5+	0.4+
1996 04 17	809	0.5-	0.0	1998 10 29	704	0.1+	1.0-	2000 02 29	704	0.6+	0.2-
1996 04 17	809	0.0	1.0-	1998 11 11	704	0.9-	0.8-	2000 03 03	704	0.2+	0.3+
1996 04 18	809	0.2+	1.0-	1998 11 11	704	0.1+	0.8-	2000 03 03	704	0.7-	1.4-
1996 04 18	809	0.4-	0.1+	1998 11 11	704	0.7+	0.3+	2000 03 03	691	0.3-	0.4-
1996 04 18	809	0.5-	0.3+	1998 11 11	704	(4.5-	1.5-)	2000 03 03	704	0.4-	0.6+
1998 09 30	691	0.3+	0.0	2000 01 27	691	0.4+	1.9-	2000 03 03	691	0.3-	0.2-
1998 09 30	691	0.9+	0.6-	2000 01 27	691	0.7-	0.9-	2000 03 03	704	0.2+	0.6+
1998 09 30	691	0.8+	1.3-	2000 01 27	691	0.6-	0.7-	2000 03 03	691	0.4-	0.4-
1998 10 11	699	0.4+	0.2+	2000 02 04	704	0.2-	0.6+	2000 03 06	704	0.1+	0.6+
1998 10 11	699	0.3-	0.4-	2000 02 04	704	0.6+	0.2+	2000 03 06	704	0.3+	0.1-
1998 10 11	699	(0.6-	2.7-)	2000 02 04	704	0.4-	0.8+	2000 03 06	704	0.6+	1.2+
1998 10 13	691	0.3-	0.2-	2000 02 04	704	0.4-	1.1+	2000 03 06	704	0.3+	0.4+

1998 10 13	691	0.6-	0.2-	2000 02 05	691	0.1-	0.6-	2000 03 06	704	0.3+	0.1-
1998 10 13	691	0.4-	0.3-	2000 02 05	691	0.0	0.6-	2000 03 14	691	0.6-	0.4-
1998 10 19	691	0.1+	0.4-	2000 02 05	691	0.2-	0.6-	2000 03 14	691	0.5-	0.4-
1998 10 19	691	0.2-	0.2-	2000 02 11	704	0.8+	0.2+	2000 03 14	691	0.5-	0.4-
1998 10 19	691	0.0	0.1-	2000 02 11	704	0.1-	0.4-				

(14164)* 1998 TH₂₉ = 1990 DF₂

Discovered 1998 Oct. 15 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 33304)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	48.88082		(2000.0)	P	Q
n	0.19578398	ω	92.60619	+0.03951828	-0.99921631
a	2.9373202	Ω	355.12728	+0.90591767	+0.03677835
e	0.0502416	i	1.51793	+0.42160583	+0.01463252
P	5.03	H	13.8	G 0.15	U 2

Residuals in seconds of arc

1990 02 24	809	1.0-	0.8-	1998 11 11	704	1.1+	1.6-	2000 02 03	106	0.1-	0.3+
1990 02 24	809	0.7-	0.7-	1998 11 18	691	0.8-	0.4-	2000 02 03	106	0.1-	0.1-
1990 02 24	809	0.3-	0.8-	1998 11 18	691	1.0-	0.3-	2000 02 04	106	0.4-	0.1+
1990 02 25	809	0.1+	0.3-	1998 11 18	691	1.1-	0.1-	2000 02 04	691	0.0	0.4-
1990 02 25	809	0.2+	0.2-	1998 11 20	699	1.2-	0.5+	2000 02 04	691	0.0	0.4-
1990 02 25	809	0.4+	0.3-	1998 11 20	699	0.7-	0.3+	2000 02 04	691	0.0	0.4-
1995 02 06	691	0.5-	0.2-	1998 11 20	699	0.4-	0.9+	2000 02 06	695	0.0	0.0
1995 02 06	691	0.2+	0.4-	1999 12 07	704	0.1+	0.1-	2000 02 06	695	0.2-	0.0
1995 02 06	691	0.4+	0.3-	1999 12 07	704	0.2-	1.1-	2000 02 11	704	0.1+	0.3+
1998 10 15	691	0.7-	0.2+	1999 12 07	704	0.2-	0.0	2000 02 11	704	0.0	0.2+
1998 10 15	691	0.6-	0.2+	2000 01 04	704	0.4+	0.9-	2000 02 11	704	0.0	0.3+
1998 10 15	691	0.5-	0.2+	2000 01 04	704	0.3-	1.5-	2000 02 11	704	0.1+	0.3+
1998 10 19	699	0.3+	0.5+	2000 01 04	704	0.6+	1.4+	2000 02 11	704	0.2-	0.5+
1998 10 19	699	1.8+	0.8-	2000 01 04	704	0.9-	0.4-	2000 02 29	704	0.5+	0.3-
1998 10 19	699	(2.7+	0.8+)	2000 01 04	704	0.4+	0.5+	2000 02 29	704	0.2+	0.3+
1998 10 20	910	(2.2+	0.4+)	2000 01 16	120	0.0	0.2-	2000 02 29	704	0.2+	0.6+
1998 10 20	910	(2.3+	0.5+)	2000 01 16	120	1.0+	1.3-	2000 02 29	704	0.1+	0.7+
1998 10 20	910	(2.3+	0.5+)	2000 01 25	120	0.3+	0.4-	2000 02 29	704	0.3-	0.7+
1998 10 20	691	0.3+	0.1+	2000 01 25	120	0.3-	0.2+	2000 03 04	704	0.2-	0.2-
1998 10 20	691	0.3+	0.0	2000 01 25	120	0.3+	0.1-	2000 03 04	704	0.5-	0.7-
1998 10 20	691	0.8+	0.1+	2000 01 30	703	0.3+	0.7+	2000 03 04	704	0.1-	0.3+
1998 11 10	704	0.8+	0.4+	2000 01 30	703	0.9-	0.2+	2000 03 04	704	0.1-	1.0-
1998 11 10	704	0.2-	0.7+	2000 01 30	703	0.3+	0.5+	2000 03 04	704	0.3-	0.7-
1998 11 10	704	0.0	0.3-	2000 01 30	703	0.6-	0.1+	2000 03 05	704	0.1+	0.2+
1998 11 10	704	0.8+	0.2+	2000 02 03	704	0.2+	0.7+	2000 03 05	704	0.4-	0.3-
1998 11 10	704	(2.0+	3.2-)	2000 02 03	704	0.2+	1.3+	2000 03 05	704	0.6-	1.4+
1998 11 11	704	0.2+	0.3-	2000 02 03	704	0.8+	0.6+	2000 03 05	704	0.3-	0.6+
1998 11 11	704	0.3+	0.4+	2000 02 03	704	0.8+	0.0	2000 03 05	704	0.2-	0.4+
1998 11 11	704	0.6+	1.1-	2000 02 03	704	1.3+	0.9+				

(14165)* 1998 UZ = 1953 EE₂ = 1970 EX₂ = 1985 TH₂ = 1987 CQ

Discovered 1998 Oct. 19 by T. Stafford at the Zeno Observatory, Edmond.

2000 MAR. 20

M.P.C. 39099

1987 02 05	808	(0.4− 10.1−)	1998 10 20	327	0.1+	0.5−	1998 11 23	727	0.1−	0.8−
1987 02 05	808	(0.4+ 9.2−)	1998 10 23	727	0.4−	0.3−	1998 12 15	727	0.1−	0.1+
1996 05 22	566	0.4+ 0.6−	1998 10 23	727	0.0	0.4−	1998 12 15	727	0.1−	0.4+
1996 05 22	566	0.3+ 0.6−	1998 10 27	727	0.3−	0.2+	1998 12 15	727	0.1−	0.1+
1996 05 22	566	0.1+ 0.9−	1998 10 27	727	0.0	0.3+	1999 01 11	704	1.9+	1.8−
1998 10 10	699	0.0 1.1+	1998 10 27	727	0.1−	0.6+	1999 01 11	704	0.3−	0.3+
1998 10 10	699	0.0 1.3+	1998 10 27	691	0.7−	0.2−	1999 01 11	704	0.3−	0.3−
1998 10 10	699	0.5+ 0.5+	1998 10 27	691	0.6−	0.0	1999 02 04	699	(1.9− 2.3+)	
1998 10 15	327	0.3− 0.3−	1998 10 27	691	0.6−	0.2−	1999 02 04	699	0.2+ 1.8+	
1998 10 15	327	0.4− 0.2−	1998 10 30	727	0.2+	0.5+	1999 02 04	699	(0.2+ 2.2+)	
1998 10 15	327	0.0 0.5−	1998 10 30	727	0.1+	0.2+	2000 01 28	704	0.6+ 1.0−	
1998 10 16	327	0.3− 0.1+	1998 10 30	727	0.3+	0.3+	2000 01 28	704	0.0 0.6+	
1998 10 16	327	0.2− 0.2−	1998 11 10	704	0.1−	0.1+	2000 01 28	704	0.3− 0.5−	
1998 10 16	327	0.2− 0.1−	1998 11 10	704	0.2+	0.2−	2000 03 10	704	0.6+ 0.4−	
1998 10 17	327	0.0 0.2−	1998 11 10	704	0.1+	0.4−	2000 03 10	704	0.3+ 0.6+	
1998 10 17	327	0.1+ 0.1−	1998 11 10	704	0.2+	0.5−	2000 03 10	704	0.4+ 0.9+	
1998 10 17	327	0.3+ 0.0	1998 11 10	704	0.2+	0.5−	2000 03 10	704	0.1− 0.3−	
1998 10 19	727	0.0 0.2+	1998 11 11	727	0.3−	0.2+	2000 03 10	704	0.0 0.8+	
1998 10 19	727	0.2− 0.0	1998 11 11	727	0.4−	0.1−	2000 03 14	704	0.2− 0.0	
1998 10 19	727	0.0 0.1+	1998 11 11	727	0.2−	0.6−	2000 03 14	704	0.2− 0.0	
1998 10 19	691	0.3+ 0.4−	1998 11 11	704	0.6+	0.1+	2000 03 14	704	0.1− 0.2+	
1998 10 19	691	0.3+ 0.2−	1998 11 11	704	0.6+	0.2−	2000 03 14	704	0.5− 0.4−	
1998 10 19	691	0.3+ 0.3−	1998 11 11	704	0.2−	0.3+	2000 03 14	704	0.7− 0.5+	

(14166)* 1998 UZ₆ = 1991 FM₆

Discovered 1998 Oct. 21 by K. Korlević at Višnjan.

Id. A. Gnädig (*MPC* 35636), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	11.20792	(2000.0)	P	Q
<i>n</i>	0.22365013	ω	18.82298	−0.97286889
<i>a</i>	2.6879629	Ω	148.87377	+0.17332892
<i>e</i>	0.1000663	<i>i</i>	12.83081	+0.15324231
<i>P</i>	4.41	<i>H</i>	13.3	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1989 12 21	675	1.7− 1.2+	1998 11 16	566	0.8− 0.6+	2000 02 06	704	0.5+ 0.1−
1989 12 21	675	0.9+ 0.6+	1998 11 16	566	0.1− 1.4+	2000 02 07	106	0.5− 0.7−
1991 01 23	675	0.3+ 0.4+	1998 11 16	566	0.6− 0.7+	2000 02 07	106	0.1− 0.2+
1991 01 23	675	0.4+ 1.2−	1998 12 07	120	0.7+ 0.1+	2000 02 07	106	0.2− 0.6+
1991 03 17	372	0.4− 0.2+	1998 12 07	120	0.3− 0.2−	2000 02 29	704	0.5+ 0.0
1991 03 17	372	(2.7− 0.7−)	1998 12 15	120	0.4+ 0.1−	2000 02 29	704	0.1− 0.3+
1997 07 13	327	0.4+ 0.9+	1998 12 15	120	0.1+ 0.0	2000 02 29	704	0.5+ 0.2+
1997 07 13	327	0.3+ 0.0	1998 12 16	120	0.6+ 0.4−	2000 03 05	850	0.2− 0.6−
1997 07 13	327	0.4− 0.5−	1998 12 16	120	0.5+ 0.7+	2000 03 05	850	0.0 0.2−
1998 10 21	120	0.6− 0.1−	1998 12 17	120	0.4− 0.3+	2000 03 05	850	0.1+ 0.0
1998 10 21	120	0.6− 0.0	1998 12 17	120	0.4− 0.4−	2000 03 06	850	0.4− 0.7−
1998 10 21	120	1.0− 0.5−	1998 12 17	120	0.1+ 0.1+	2000 03 06	850	0.5− 0.5−
1998 10 23	120	0.3− 0.6−	1998 12 22	704	0.1+ 0.7−	2000 03 06	850	0.5− 0.5−
1998 10 23	120	0.4− 0.0	1998 12 22	704	0.7+ 0.5+	2000 03 11	699	0.4− 0.3+
1998 10 23	120	0.4+ 0.9−	1998 12 22	704	0.9− 0.1+	2000 03 11	699	0.3− 0.3+
1998 10 24	120	0.9+ 0.3−	1998 12 22	704	1.3− 0.2+	2000 03 11	699	0.5− 0.3+
1998 10 24	120	(3.6− 2.5−)	1999 01 13	699	0.6− 0.8+	2000 03 11	699	0.5− 0.5+
1998 10 30	120	0.0 0.1−	1999 01 13	699	0.7− 0.5+	2000 03 12	703	0.1+ 0.1+
1998 10 30	120	0.9+ 1.1−	1999 01 13	699	0.4+ 0.8+	2000 03 12	703	0.1− 0.1+
1998 10 30	120	1.0+ 0.5−	2000 02 05	704	0.4+ 0.2−	2000 03 12	703	0.0 0.3+
1998 11 12	120	0.9+ 0.2−	2000 02 05	704	0.7+ 0.3−	2000 03 12	703	0.2− 0.2+
1998 11 12	120	0.9+ 0.2+	2000 02 05	704	0.1+ 0.1−	2000 03 15	699	0.2+ 0.2+
1998 11 13	704	0.1− 0.8−	2000 02 05	704	1.0+ 0.7+	2000 03 15	699	0.1− 0.2+
1998 11 13	704	0.0 0.0	2000 02 06	704	0.1+ 0.4−	2000 03 15	699	0.8− 0.2+
1998 11 13	704	0.8+ 0.8−	2000 02 06	704	0.8+ 0.3−	2000 03 15	699	0.2− 0.1−
1998 11 13	704	0.1+ 1.0−	2000 02 06	704	0.9+ 0.1−			
1998 11 13	704	(2.5− 0.3−)	2000 02 06	704	0.3+ 0.2+			

(14167)* 1998 UL₈ = 1986 PQ₁ = 1987 VX

Discovered 1998 Oct. 24 by T. Kobayashi at Oizumi.

Id. G. V. Williams (*MPC* 33309), S. Nakano (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	61.63283	(2000.0)	P	Q
<i>n</i>	0.18053344	ω	2.75432	−0.00423817
<i>a</i>	3.1004943	Ω	87.49124	+0.91661928
<i>e</i>	0.1455896	<i>i</i>	2.55603	+0.39973884
<i>P</i>	5.46	<i>H</i>	13.2	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1986 08 01	675(32.3− 1.1−)	1998 11 23	411	0.7− 0.1−	2000 01 08	704	0.2+ 0.3+
1986 08 01	675(22.0− 2.7+)	1998 11 24	704	0.3+ 0.4−	2000 01 08	704	0.3− 0.1−
1986 08 02	675(31.2− 0.9−)	1998 11 24	704	0.4+ 0.1−	2000 01 13	120	1.1− 0.2+
1986 08 02	675(35.6− 1.9−)	1998 11 24	704	0.2− 0.8−	2000 01 13	120	1.6− 2.1−
1986 08 04	675(16.4− 1.1−)	1998 11 24	704	0.2+ 1.0−	2000 01 13	120	0.9+ 0.2+
1986 08 04	675(13.7− 1.6+)	1998 11 24	704	0.7− 0.5−	2000 02 06	704	0.4+ 0.1+
1987 11 15	046 0.6− 0.3−	1998 11 25	699	0.3+ 0.5+	2000 02 06	704	0.3+ 0.1+
1987 11 15	046 0.3+ 0.1−	1998 11 25	699	0.2+ 0.6+	2000 02 06	704	0.1+ 0.3+
1994 01 05	691 0.3− 0.4−	1998 11 25	699	0.5+ 0.2+	2000 02 06	704	0.4− 0.5−
1994 01 05	691 (2.5+ 4.9−)	1998 12 08	699	1.5+ 0.2−	2000 02 06	704	0.2− 0.2+
1994 01 05	691 1.1+ 0.7−	1998 12 08	699	0.1− 0.0	2000 02 11	704	0.0 0.4−
1998 08 28	704 2.0+ 0.6+	1998 12 08	699	0.3+ 0.0	2000 02 11	704	0.3+ 0.1+
1998 08 28	704 0.9− 0.9−	1998 12 14	691	0.1− 0.2−	2000 02 11	704	0.0 0.3+
1998 08 28	704 (0.8+ 2.2+)	1998 12 14	691	0.2− 0.2−	2000 02 11	704	0.2− 0.0
1998 08 28	704 0.5+ 0.8+	1998 12 14	691	0.1+ 0.0	2000 02 11	704	0.4+ 0.7−
1998 10 20	699 0.4+ 0.3−	1998 12 15	704	0.4− 0.3+	2000 02 16	703	0.4− 0.3−
1998 10 20	699 0.1− 0.9−	1998 12 15	704	0.4− 0.0	2000 02 16	703	0.0 0.3−
1998 10 20	699 0.6+ 0.5−	1998 12 15	704	1.7− 0.2−	2000 02 16	703	0.5+ 0.2+
1998 10 24	411 0.2− 0.5+	1998 12 17	327	0.2− 0.2−	2000 02 16	703	0.3+ 0.2−
1998 10 24	411 0.8− 0.3−	1998 12 17	327	0.0 0.1−	2000 02 26	703	0.2+ 0.1−
1998 10 25	411 0.0 0.3+	1998 12 17	327	0.4− 0.1+	2000 02 26	703	0.2− 1.0+
1998 10 25	411 0.2− 0.4−	1998 12 24	691	0.3− 0.2−	2000 02 26	703	1.2− 0.8−
1998 10 27	910 0.0 0.1−	1998 12 24	691	0.1− 0.3−	2000 02 26	703	0.8+ 1.4+
1998 10 27	910 0.1+ 0.0	1998 12 24	691	0.2− 0.4−	2000 02 29	106	0.1− 0.4−
1998 10 27	910 0.0 0.1+	1999 01 04	327	0.2− 0.2+	2000 02 29	106	0.3− 0.2−
1998 11 07	411 0.8− 0.2−	1999 01 04	327	0.5− 0.4+	2000 02 29	106	0.4+ 0.2−
1998 11 07	411 0.2− 0.1+	1999 01 04	327	0.5− 0.4+	2000 03 11	699	0.4+ 0.1−
1998 11 10	704 0.1− 1.7+	1999 01 04	327	0.0 0.7+	2000 03 11	699	0.5+ 0.4−
1998 11 10	704 0.9+ 0.9+	1999 01 22	699	0.1− 1.2−	2000 03 11	699	0.2+ 0.2−
1998 11 10	704 0.3+ 1.6−	1999 01 22	699	0.9+ 0.3+	2000 03 11	699	0.0 0.1−
1998 11 10	704 0.7− 0.2+	1999 01 23	691	0.5− 0.2−	2000 03 12	704	0.4+ 0.1−
1998 11 19	910 1.0+ 0.3+	1999 01 23	691	0.4− 0.1−	2000 03 12	704	0.7+ 0.2+
1998 11 19	910 1.0+ 0.4+	2000 01 06	699	1.1− 1.0+	2000 03 12	704	0.7+ 0.7+
1998 11 19	910 0.8+ 0.4+	2000 01 06	699	0.4+ 0.2+	2000 03 12	704	0.3+ 1.2+
1998 11 20	699 0.8− 0.8+	2000 01 06	699	0.1− 0.5+	2000 03 12	704	0.5− 0.8+
1998 11 20	699 0.1+ 1.0+	2000 01 08	704	1.6− 0.9−	2000 03 15	704	(0.2− 4.2+)
1998 11 20	699 0.3+ 0.6+	2000 01 08	704	0.9− 0.5+	2000 03 15	704	0.6+ 0.8+
1998 11 23	411 0.1− 0.1+	2000 01 08	704	0.7− 0.4+	2000 03 15	704	0.4+ 1.7−

(14168)* 1998 UR₁₅

Discovered 1998 Oct. 23 by K. Korlević at Višnjan.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	63.18098	(2000.0)	P	Q
<i>n</i>	0.17457617	ω	64.81020	+0.25203458
<i>a</i>	3.1706337	Ω	10.59254	+0.88357979
<i>e</i>	0.1534778	<i>i</i>	0.67345	+0.39467116
<i>P</i>	5.65	<i>H</i>	13.2	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1989 02 15	413	0.2−	0.5−	1998 11 11	704	0.7+	1.4−	2000 02 04	704	0.1+	0.6−
1991 08 02	413	0.1−	0.5−	1998 11 17	910	0.6+	0.8+	2000 02 04	704	0.6−	1.0−
1991 08 06	413	0.3−	0.1−	1998 11 17	910	1.3+	0.7+	2000 02 11	704	0.2+	0.3+
1991 08 06	413	0.5+	0.6+	1998 11 17	910	1.4+	0.6+	2000 02 11	704	0.2−	0.5+
1998 09 19	910	0.7−	0.3+	1998 11 18	704	0.2−	0.7+	2000 02 11	704	0.4+	0.5+
1998 09 19	910	0.8−	0.2+	1998 11 18	704	0.7−	0.5+	2000 02 11	704	0.2+	0.6+
1998 09 19	910	0.7−	0.3+	1998 11 18	704	(1.1−	2.5+)	2000 02 11	704	0.4+	0.6+
1998 10 18	699	0.1+	0.2+	1998 11 18	704	(0.3+	2.2+)	2000 02 25	703	0.5−	0.2+
1998 10 18	699	0.3+	0.5+	1998 11 18	704	(1.0+	2.4+)	2000 02 25	703	0.1−	0.0

1998 10 18	699	0.7+	0.5+	1998 11 19	910	0.8+	0.8+	2000 02 25	703	0.3+	0.4+
1998 10 23	120	0.0	0.1+	1998 11 19	910	0.6+	0.6+	2000 02 25	703	0.1+	0.2+
1998 10 23	120	0.2+	0.2-	1998 11 19	910	0.6+	0.8+	2000 02 29	704	0.1-	0.3+
1998 10 23	120	0.3+	0.1+	1999 01 06	699	0.2-	0.4-	2000 02 29	704	0.0	0.3+
1998 10 26	120	0.8+	0.0	1999 01 06	699	0.3+	0.7-	2000 02 29	704	0.1-	0.2+
1998 10 26	120	0.5+	0.5-	1999 01 06	699	0.1+	0.5+	2000 02 29	704	0.1-	0.7+
1998 10 29	120	0.4+	0.0	1999 01 09	910	1.0-	0.6-	2000 02 29	704	0.0	0.4+
1998 10 29	120	0.4+	0.1-	1999 01 09	910	1.0-	0.6-	2000 03 03	704	0.1+	0.0
1998 10 30	120	0.6+	0.2-	1999 01 09	910	0.6-	0.8-	2000 03 03	704	0.0	0.0
1998 10 30	120	0.2+	0.2-	1999 01 13	910	0.8-	0.2+	2000 03 03	704	0.1+	0.1+
1998 11 10	704	0.9-	0.1-	1999 01 13	910	0.9-	0.1+	2000 03 03	704	0.1+	0.4+
1998 11 10	699	0.2+	0.5+	1999 01 13	910	0.8-	0.3+	2000 03 03	704	0.2+	0.4+
1998 11 10	704	0.4-	1.8-	1999 01 14	910	1.0-	0.1-	2000 03 11	704	0.9+	0.3-
1998 11 10	704	1.3-	1.8-	1999 01 14	910	0.8-	0.1-	2000 03 11	704	0.5+	0.5-
1998 11 10	699	0.0	1.4+	1999 01 14	910	0.9-	0.1+	2000 03 11	704	0.6+	1.8-
1998 11 10	704	(2.9-	1.9-)	1999 02 20	691	0.7+	0.4+	2000 03 11	704	0.4-	0.6-
1998 11 10	699	0.8+	0.7+	1999 02 20	691	0.8+	0.1+	2000 03 11	699	0.2-	0.2+
1998 11 11	704	0.2-	0.0	1999 03 09	691	0.6+	0.9-	2000 03 11	704	0.1-	0.5-
1998 11 11	704	0.5-	0.6-	1999 03 09	691	1.0+	0.6-	2000 03 11	699	0.1+	0.2+
1998 11 11	704	0.3+	0.4-	1999 03 09	691	0.8+	0.5-	2000 03 11	699	0.5-	0.3-
1998 11 11	704	0.5-	0.2+	2000 02 04	704	0.8+	0.3-	2000 03 11	699	0.3-	0.0
1998 11 11	704	(2.4-	0.5-)	2000 02 04	704	0.8-	0.2+				
1998 11 11	704	1.5-	0.9-	2000 02 04	704	0.5-	0.0				

(14169)* 1998 UZ₂₄ = 1975 VB₈ = 1993 SM₁₅ = 1995 BL₁₆

Discovered 1998 Oct. 25 by F. B. Zoltowski at Woomera.

Id. G. V. Williams (*MPC* 33315)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	131.44974		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.21577862	ω	318.85962	+0.92188291	-0.37509115		
a	2.7529423	Ω	63.41691	+0.37782532	+0.81463209		
e	0.1688838	i	6.23672	+0.08590652	+0.44235867		
P	4.57	H	13.6	G	0.15	U	1

Residuals in seconds of arc

1975 11 06	095	1.0+	1.0-	1998 11 16	426	0.6-	0.3+	1999 01 05	699	0.9-	0.1+
1993 09 19	675	0.4-	0.6-	1998 11 16	426	0.4-	0.3+	2000 02 04	704	1.4+	0.0
1993 09 19	675	0.2-	0.6+	1998 12 08	426	0.0	0.1+	2000 02 04	704	0.7+	0.9-
1993 09 23	675	0.6-	0.3-	1998 12 08	426	0.8-	0.6+	2000 02 04	704	0.2+	0.2+
1993 09 23	675	0.0	0.7+	1998 12 08	426	0.2+	0.2+	2000 02 04	704	0.3-	0.8+
1995 01 31	033	1.3-	0.6+	1998 12 14	704	0.8+	0.5+	2000 02 11	704	0.1+	0.8-
1995 01 31	033	1.5-	0.9+	1998 12 14	704	0.5+	0.0	2000 02 11	704	0.9+	0.1-
1995 02 03	033	0.2-	0.5-	1998 12 14	704	0.1+	0.3-	2000 02 11	704	0.4+	0.0
1998 10 25	426	0.5-	0.0	1998 12 14	704	0.1-	0.2-	2000 02 11	704	0.2+	1.0+
1998 10 25	426	0.2-	0.1+	1998 12 14	704	1.6+	1.0-	2000 02 11	704	0.2-	0.4+
1998 10 25	426	0.5-	0.0	1998 12 17	704	0.8+	1.2-	2000 02 29	704	0.1+	0.3-
1998 11 08	426	0.2-	0.3-	1998 12 17	704	1.6+	1.4-	2000 02 29	704	0.2-	0.0
1998 11 08	426	0.7+	0.9+	1998 12 17	704	1.3+	0.7-	2000 02 29	704	0.4-	0.0
1998 11 08	426	0.7-	0.2-	1998 12 17	704	1.0+	0.3-	2000 03 05	704	0.6-	0.7-
1998 11 08	426	0.4-	0.3+	1998 12 17	704	0.8+	0.6-	2000 03 05	704	0.1+	0.0
1998 11 10	704	0.8-	1.0+	1998 12 18	426	0.3+	0.4-	2000 03 05	704	0.1-	0.2+
1998 11 10	704	0.3+	0.9-	1998 12 18	426	0.1-	0.5-	2000 03 05	704	0.5-	0.1+
1998 11 10	704	0.7-	1.8+	1998 12 18	426	0.1-	0.1+	2000 03 05	704	0.7-	0.0
1998 11 10	704	(1.2+	3.5+)	1998 12 20	426	0.4-	0.4+	2000 03 12	704	0.1+	0.7-
1998 11 14	426	0.1-	0.6+	1998 12 20	426	0.1-	0.5+	2000 03 12	704	0.5+	0.1-
1998 11 14	426	0.9+	0.1-	1998 12 20	426	0.0	0.2+	2000 03 12	704	0.5+	0.2-
1998 11 14	426	0.0	0.2-	1999 01 05	699	0.5-	0.9+	2000 03 12	704	0.7+	0.7+
1998 11 16	426	0.9-	0.6+	1999 01 05	699	1.1-	0.0				

(14170)* 1998 VF₆ = 1976 YT₅ = 1981 US₂₈

Discovered 1998 Nov. 11 by Y. Shimizu and T. Urata at Nachi-Katsuura Observatory.

Id. G. V. Williams (*MPC* 33318)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	42.17797		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17601267	ω	150.17127	-0.11436089	-0.99149852
a	3.1533591	Ω	306.32681	+0.89554156	-0.07584555
e	0.1006397	i	4.41840	+0.43003128	-0.10572675
P	5.60	H	13.2	G 0.15	U 1

Residuals in seconds of arc

1976 12 18	095	0.0	0.1-	1998 11 23	385	0.5+	0.5+	2000 02 12	704	0.1+	0.8+
1981 10 24	675	0.2+	0.2-	1998 12 13	385	0.0	0.5-	2000 02 12	704	0.4-	0.6+
1981 10 25	675	0.4+	0.1-	1998 12 13	385	0.1+	0.2+	2000 02 12	704	0.6-	0.3+
1981 10 26	675	0.4-	0.3-	1998 12 19	385	0.4+	0.2-	2000 02 12	704	0.1-	1.2+
1998 10 19	699	0.0	0.2+	1998 12 19	385	0.2-	1.4-	2000 02 12	704	0.5+	0.2-
1998 10 19	699	0.7+	0.1+	1999 01 08	699	0.7-	0.5-	2000 02 13	704	0.9-	0.4+
1998 10 19	699	0.3-	1.4+	1999 01 08	699	0.3-	0.5-	2000 02 13	704	0.3+	0.2-
1998 11 10	704	0.4-	0.6+	1999 01 08	699	0.4-	0.1+	2000 02 13	704	1.0+	0.9+
1998 11 10	704	1.1-	0.1+	2000 02 02	704	0.3-	0.4+	2000 02 27	703	0.1+	0.3-
1998 11 10	704	0.6-	0.7+	2000 02 02	704	0.2+	0.1-	2000 02 27	703	0.2+	0.3+
1998 11 10	704	0.8+	1.7+	2000 02 02	704	0.1+	0.0	2000 02 27	703	0.3+	0.1-
1998 11 10	704	(3.7-	0.8-)	2000 02 02	704	0.2-	0.2-	2000 02 27	703	0.2+	0.1-
1998 11 11	704	0.6-	0.1-	2000 02 02	704	0.3+	0.5-	2000 02 28	888	0.1+	0.8-
1998 11 11	704	0.1-	0.6+	2000 02 04	704	0.1+	0.2+	2000 02 28	888	0.5-	0.3-
1998 11 11	704	0.2-	0.1-	2000 02 04	704	0.5+	0.5-	2000 02 29	704	0.5+	0.2-
1998 11 11	704	1.1+	1.1-	2000 02 04	704	0.0	0.1-	2000 02 29	704	0.0	0.5-
1998 11 11	704	0.5-	0.5+	2000 02 04	704	1.4+	0.0	2000 02 29	704	0.0	0.0
1998 11 11	905	(2.4+	1.5+)	2000 02 04	704	0.1-	0.1+	2000 02 29	704	0.2-	0.1-
1998 11 11	905	0.1-	0.7+	2000 02 04	888	0.3-	0.8-	2000 02 29	704	0.2-	0.0
1998 11 12	905	0.1+	1.0-	2000 02 04	888	0.3-	0.4-	2000 03 03	704	0.8+	0.0
1998 11 12	905	0.7-	0.9+	2000 02 04	888	0.7-	0.7-	2000 03 03	704	1.0+	0.3+
1998 11 15	886	0.7+	0.7+	2000 02 08	691	0.7-	0.5-	2000 03 03	704	0.7+	0.4+
1998 11 15	886	0.5+	1.2-	2000 02 08	691	0.7-	0.5-	2000 03 03	704	0.3+	0.5+
1998 11 15	888	0.5+	0.1+	2000 02 08	691	0.6-	0.2-	2000 03 03	704	0.8+	0.1-
1998 11 15	888	0.1-	0.4+	2000 02 10	106	0.5+	0.1-	2000 03 05	704	0.0	0.3+
1998 11 15	888	0.3+	0.2+	2000 02 10	106	0.2-	0.2+	2000 03 05	704	0.2-	0.1+
1998 11 16	566	0.0	0.7-	2000 02 10	106	0.4+	0.2+	2000 03 05	704	0.4-	0.4+
1998 11 16	566	0.1+	1.2-	2000 02 11	888	0.5-	0.4-	2000 03 05	704	0.6-	0.6+
1998 11 16	566	0.1-	1.0-	2000 02 11	888	0.3-	0.5-	2000 03 05	704	0.6-	0.9+
1998 11 23	385	0.1+	0.4+	2000 02 11	888	0.5-	0.5-				

(14171)* 1998 VO₆

Discovered 1998 Nov. 11 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	73.71599		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.21517080	ω	153.23739	+0.11714040	-0.98807080
a	2.7581242	Ω	289.89705	+0.89106291	+0.14901672
e	0.0890846	i	6.10309	+0.43850315	-0.03886008
P	4.58	H	13.5	G 0.15	U 2

Residuals in seconds of arc

1982 05 25	413	0.4-	0.7-	1998 11 14	385	0.1-	0.1-	2000 02 02	704	1.1+	1.2-
1982 05 25	413	0.0	0.1+	1998 11 14	385	0.1-	0.3-	2000 02 02	704	0.5+	0.1-
1989 11 24	675	1.0-	0.2-	1998 11 15	886	0.2+	0.8+	2000 02 07	704	0.9-	0.3-
1989 11 24	675	0.9+	0.7-	1998 11 15	886	0.3-	1.0-	2000 02 07	704	1.6-	0.1-
1991 05 07	413	0.4+	0.1+	1998 11 19	905	0.6-	0.2-	2000 02 07	704	1.2-	0.3-
1991 05 07	413	0.1+	0.1+	1998 11 19	905	0.0	0.4-	2000 02 07	704	1.3-	0.1+
1998 10 25	098	1.0-	1.5+	1998 11 19	886	0.1+	0.3+	2000 02 07	704	1.4-	0.0
1998 10 25	098	1.5-	0.7+	1998 11 19	886	(0.7+	2.3+)	2000 02 28	106	0.1+	0.4+
1998 11 01	699	1.1+	0.0	1998 12 13	385	0.2+	0.2-	2000 02 29	106	0.4+	0.3+
1998 11 01	699	1.8+	0.1+	1998 12 13	385	0.2-	0.2+	2000 02 29	106	0.0	0.6+
1998 11 01	699	1.4+	0.5+	1998 12 16	699	0.2-	0.4+	2000 03 01	703	0.0	0.2+
1998 11 10	704	0.1-	0.1-	1998 12 16	699	0.3+	0.0	2000 03 01	703	0.5+	0.2+
1998 11 10	704	0.8+	0.1-	1998 12 16	699	0.2+	0.2+	2000 03 01	703	0.4+	0.4+
1998 11 10	704	0.1+	0.4+	1999 01 11	888	0.2-	1.0-	2000 03 01	703	0.6+	0.2-
1998 11 10	704	0.2+	0.1+	1999 01 11	888	0.3-	1.2-	2000 03 02	888	0.8-	0.2-
1998 11 10	704	0.2-	1.1+	1999 01 15	699	0.0	0.7-	2000 03 02	888	0.6-	0.2-

1998 11 11	704	0.8−	0.5−	1999 01 15	699	0.1+	0.3−	2000 03 02	888	0.6−	0.2−
1998 11 11	704	0.4−	0.2−	1999 01 15	699	0.5+	0.9−	2000 03 08	704	0.1+	0.1−
1998 11 11	704	0.1−	0.3−	1999 02 04	888	0.2−	0.3+	2000 03 08	704	0.1+	0.4+
1998 11 11	704	0.0	0.6+	1999 02 04	888	0.3−	0.6+	2000 03 08	704	0.1+	0.5−
1998 11 11	704	0.3−	0.7+	2000 02 02	704	1.1+	0.1−	2000 03 08	704	0.8+	1.4+
1998 11 11	905	0.4−	0.0	2000 02 02	704	1.1+	0.1−	2000 03 08	704	0.1+	1.0+
1998 11 11	905	0.2−	0.2−	2000 02 02	704	2.0+	0.3−				

(14172)* 1998 VN₈ = 1998 UX₃₆ = 1975 TW = 1997 HN₁₇

Discovered 1998 Nov. 10 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (d, *MPC* 33970), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	160.58199		(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.25842635	<i>ω</i>	2.74736	+0.96126910	+0.27517294		
<i>a</i>	2.4410585	<i>Ω</i>	341.25792	−0.25378197	+0.86172843		
<i>e</i>	0.1655644	<i>i</i>	2.77262	−0.10750082	+0.42626748		
<i>P</i>	3.81	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1975 10 03	095	0.6−	0.2+	1998 10 28	704	1.0−	0.3−	2000 02 29	704	0.3+	0.0
1991 12 27	691	0.9+	1.4−	1998 10 29	704	0.1+	0.4+	2000 02 29	704	0.2−	1.1+
1991 12 27	691	1.2+	1.3−	1998 10 29	704	0.1+	0.3+	2000 02 29	704	0.1+	0.1+
1991 12 27	691	1.0+	1.7−	1998 10 29	704	0.3+	0.1−	2000 02 29	704	0.2−	1.0+
1994 10 12	691	1.0−	0.1−	1998 10 29	704	0.1−	0.1+	2000 02 29	704	0.6+	0.2+
1994 10 12	691	0.9−	0.2+	1998 10 29	704	0.3+	0.2+	2000 03 02	691	0.1+	0.1−
1994 10 12	691	1.0−	0.2+	1998 11 10	704	0.4+	0.3+	2000 03 02	691	0.0	0.3−
1997 04 30	704	0.0	0.7+	1998 11 10	704	0.8+	0.4−	2000 03 02	691	0.1+	0.2−
1997 04 30	704	0.9+	0.5+	1998 11 10	704	0.7+	0.0	2000 03 03	704	0.2+	0.3+
1997 04 30	704	0.4+	1.2+	1998 11 10	704	0.0	0.7+	2000 03 03	704	0.2+	0.3+
1997 04 30	704	0.6+	0.4+	1998 11 11	704	0.6+	0.3−	2000 03 03	704	0.2−	0.1−
1997 04 30	704	1.2+	0.3−	1998 11 11	704	0.6−	0.6+	2000 03 03	704	0.5+	0.4−
1997 05 01	704	0.2+	0.9+	1998 11 11	704	0.1+	1.1+	2000 03 04	704	0.9−	1.7−
1997 05 01	704	1.0+	1.0+	1998 11 11	704	0.4+	1.7+	2000 03 04	704	1.2−	0.6+
1997 05 01	704	0.8+	0.9+	1998 11 11	704	1.6−	1.1+	2000 03 04	704	(0.0	3.0+)
1997 05 01	704	0.6+	0.9+	1998 11 14	327	0.2−	0.7+	2000 03 04	691	0.0	0.2+
1997 05 05	704	0.2+	0.8+	1998 11 14	327	0.4−	0.5+	2000 03 04	691	0.4+	0.2+
1997 05 05	704	0.3+	0.8+	1998 11 14	327	0.6−	0.8+	2000 03 04	691	0.0	0.2+
1997 05 05	704	0.8+	0.7+	2000 02 04	704	1.1+	1.7+	2000 03 05	704	0.2−	0.5+
1997 05 05	704	0.3−	0.9+	2000 02 04	704	0.7+	0.2+	2000 03 05	704	0.3+	0.1−
1997 05 05	704	0.5+	0.7+	2000 02 04	704	0.5+	0.1+	2000 03 05	704	0.0	1.1+
1998 09 14	699	0.6−	0.8+	2000 02 04	704	0.7+	1.1+	2000 03 05	704	0.1+	0.6+
1998 09 14	699	0.7−	0.6+	2000 02 11	704	0.3−	0.1−	2000 03 05	704	0.1+	0.1−
1998 09 14	699	0.4−	0.3+	2000 02 11	704	0.1+	0.4−	2000 03 11	704	0.1−	0.9+
1998 10 11	699	0.6+	1.0+	2000 02 11	704	0.6−	0.3−	2000 03 11	704	0.1+	0.9+
1998 10 11	699	0.5+	1.3+	2000 02 11	704	0.7−	0.0	2000 03 11	704	0.1−	0.3+
1998 10 11	699	0.4+	0.9+	2000 02 25	703	1.1−	0.8+	2000 03 11	704	0.1−	0.6+
1998 10 20	327	0.4−	0.0	2000 02 25	703	0.1+	0.1−	2000 03 11	704	0.3−	0.9+
1998 10 20	327	0.1−	0.3+	2000 02 25	703	0.4−	0.2−	2000 03 12	691	0.1+	0.1+
1998 10 20	327	0.2−	0.2+	2000 02 25	703	1.5−	1.0+	2000 03 12	691	0.0	0.0
1998 10 28	704	0.4−	0.0	2000 02 26	691	0.7−	0.2−	2000 03 12	691	0.1+	0.1+
1998 10 28	704	0.4+	0.2−	2000 02 26	691	0.5−	0.3−				
1998 10 28	704	1.0−	0.1+	2000 02 26	691	0.6−	0.3−				

(14173)* 1998 VL₉ = 2000 CR₈₉

Discovered 1998 Nov. 10 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38528)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	135.21737		(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.26581712	<i>ω</i>	321.19268	+0.90473972	−0.41764693		
<i>a</i>	2.3955988	<i>Ω</i>	63.68634	+0.41039986	+0.80198383		
<i>e</i>	0.0743645	<i>i</i>	5.36219	+0.11409640	+0.42707491		
<i>P</i>	3.71	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1950 12 09	675	0.1+	1.2−	1998 11 10	704	0.2+	0.1−	2000 02 01	703	0.3−	0.4+
1950 12 09	675	0.3+	0.0	1998 11 10	704	0.1+	0.4−	2000 02 01	703	0.1−	0.9+
1979 10 09	413	0.1−	0.5+	1998 11 10	704	0.1+	0.2−	2000 02 04	704	0.6+	0.7−
1979 10 09	413	1.2−	1.1−	1998 11 11	704	0.4+	0.5−	2000 02 04	704	0.2+	0.5+
1982 04 22	413	0.3+	0.1+	1998 11 11	704	0.3+	0.1+	2000 02 04	704	0.4+	0.0
1982 04 22	413	0.7+	0.0	1998 11 11	704	1.5+	0.3−	2000 02 04	704	1.2−	0.4+
1983 07 13	413	1.1+	0.8+	1998 11 11	704	0.1−	1.0−	2000 02 11	704	0.3+	0.2+
1983 07 13	413	1.4−	0.1−	1998 11 11	704	0.1−	0.1−	2000 02 11	704	0.2−	0.3+
1983 10 08	413	1.2−	1.1+	1998 12 11	699	0.9−	0.4+	2000 02 11	704	0.0	0.8+
1983 10 08	413	0.4+	1.0+	1998 12 11	699	0.4+	0.1+	2000 02 11	704	0.2+	1.2+
1995 11 30	675	0.1−	0.2−	1998 12 11	699	0.8−	1.2+	2000 02 11	704	0.5+	0.1+
1995 11 30	675	0.3+	0.5−	1998 12 17	327	0.3+	0.5+	2000 02 26	703	1.6+	0.0
1996 04 08	675	0.2+	0.3−	1998 12 17	327	0.2−	0.5+	2000 02 26	703	0.1+	0.4+
1996 04 08	675	0.3−	0.9+	1998 12 17	327	0.2−	0.4+	2000 02 26	703	0.2+	0.5−
1998 09 18	699	0.6+	0.9+	1998 12 23	327	0.0	0.1+	2000 02 26	703	0.7−	0.2+
1998 09 18	699	0.4+	1.3+	1998 12 23	327	0.0	0.2+	2000 02 29	704	0.2−	0.3+
1998 09 18	699	0.5+	1.0+	1998 12 23	327	0.0	0.4+	2000 02 29	704	0.3−	0.1+
1998 10 11	699	0.1−	0.9+	1998 12 23	327	0.1+	0.1+	2000 02 29	704	0.9−	0.6+
1998 10 11	699	0.5−	0.8+	1999 01 13	691	0.1−	0.1+	2000 02 29	704	0.7+	0.1+
1998 10 11	699	0.2+	0.4+	1999 01 13	691	0.6+	0.0	2000 02 29	704	0.4−	0.5+
1998 10 28	704	0.4−	0.2−	1999 01 13	691	0.3+	0.5−	2000 03 05	704	0.1+	0.1+
1998 10 28	704	0.0	0.3−	1999 01 14	691	0.9−	0.2−	2000 03 05	704	0.1+	0.3+
1998 10 28	704	0.6−	0.5−	1999 01 14	691	0.8−	0.1+	2000 03 05	704	0.1−	0.2−
1998 10 28	704	0.3−	0.0	1999 01 14	691	0.8−	0.2+	2000 03 05	704	0.2+	0.5−
1998 10 29	704	0.3+	0.1−	2000 01 04	704	0.6−	0.5−	2000 03 05	704	0.1−	0.1−
1998 10 29	704	0.6−	0.0	2000 01 04	704	0.1−	1.0−	2000 03 12	704	0.2+	0.0
1998 10 29	704	0.4−	0.4−	2000 01 04	704	0.3−	0.7−	2000 03 12	704	0.1+	0.2+
1998 10 29	704	0.1+	0.2−	2000 01 04	704	2.0+	0.3−	2000 03 12	704	0.2+	0.5+
1998 10 29	704	0.2−	0.1−	2000 01 04	704	0.6+	1.4−	2000 03 12	704	1.1−	0.2+
1998 11 10	704	0.1+	0.9−	2000 02 01	703	0.2−	0.3+	2000 03 12	704	0.2+	0.2+
1998 11 10	704	0.4+	1.1−	2000 02 01	703	0.1−	0.2−				

(14174)* 1998 VO₁₃ = 1993 TQ₄₇ = 1997 NW₈

Discovered 1998 Nov. 10 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38528)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	37.07106		(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.20416566	<i>ω</i>	169.01626	−0.48371170	−0.87483653		
<i>a</i>	2.8563686	<i>Ω</i>	309.90628	+0.80039929	−0.43006906		
<i>e</i>	0.1787117	<i>i</i>	1.95389	+0.35409599	−0.22293868		
<i>P</i>	4.83	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 10 12	809	0.7+	1.6+	1998 11 10	704	(0.5+	2.2−)	2000 02 29	704	0.3+	0.3−
1993 10 12	809	0.3−	1.3+	1998 11 11	704	0.4+	0.3+	2000 02 29	704	0.6−	0.5+
1993 10 12	809	0.3−	2.0+	1998 11 11	704	0.6−	0.8+	2000 03 01	732	0.4+	0.5+
1993 10 22	809	0.2−	0.4+	1998 11 11	704	0.2−	0.8−	2000 03 01	732	0.3+	0.5+
1993 10 22	809	0.6−	0.6−	1998 11 11	704	0.1−	0.6+	2000 03 02	732	0.6−	0.3+
1993 10 22	809	1.0−	0.5−	1998 11 11	704	0.4−	0.1+	2000 03 02	732	0.4−	0.3+
1997 07 13	910	0.4−	0.5+	2000 01 05	704	0.6−	0.1−	2000 03 02	732	0.7+	0.3+
1997 07 13	910	0.2−	0.5+	2000 01 05	704	0.9−	0.9−	2000 03 03	704	0.0	0.5+
1997 07 13	910	0.2−	0.5+	2000 01 05	704	1.0+	0.1−	2000 03 03	704	0.1+	0.3+
1997 07 14	910	0.2−	0.6+	2000 02 08	704	0.9+	0.3−	2000 03 03	704	0.3−	0.3+
1997 07 14	910	0.1+	0.3+	2000 02 08	704	0.5+	0.3+	2000 03 08	704	0.2+	0.5−
1997 07 14	910	0.1−	0.6+	2000 02 08	704	0.2+	0.1−	2000 03 08	704	1.1+	0.1−
1998 10 16	691	0.5+	0.4−	2000 02 08	704	0.2+	0.8+	2000 03 08	704	0.4−	0.5+
1998 10 16	691	0.7+	0.3−	2000 02 08	704	0.2−	0.1+	2000 03 08	704	1.0+	0.8−
1998 10 16	691	0.4+	0.2−	2000 02 27	703	0.6−	0.5+	2000 03 08	704	0.2−	0.8−
1998 10 19	699	0.3+	1.8+	2000 02 27	703	0.2−	0.6+	2000 03 11	704	0.2+	0.3+
1998 10 19	699	0.6+	0.2+	2000 02 27	703	0.3−	0.2−	2000 03 11	704	0.2+	0.5+
1998 10 19	699	(0.7+	2.3+)	2000 02 27	703	0.0	0.2+	2000 03 11	704	0.1−	0.3+
1998 11 10	704	0.3−	1.4−	2000 02 29	704	0.1+	0.2+	2000 03 11	704	0.0	0.1−
1998 11 10	704	0.7−	0.0	2000 02 29	704	0.3+	0.7+				
1998 11 10	704	0.5−	1.4−	2000 02 29	704	0.1+	0.6+				

(14175)* 1998 VO₁₈ = 1978 ES₉ = 1981 UZ₂₈

Discovered 1998 Nov. 10 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. S. Nakano (*MPC* 33319)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
73.84780		(2000.0)			
<i>n</i>	0.17536959	ω	69.62921	+0.55535277	-0.83131139
<i>a</i>	3.1610633	Ω	346.56544	+0.72238941	+0.49561872
<i>e</i>	0.0938990	<i>i</i>	5.54870	+0.41199130	+0.25156203
<i>P</i>	5.62	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1978 03 15	675	0.1-	1.1-	1999 12 31	106	0.4-	0.1+	2000 02 03	704	0.1-	1.2+
1978 03 16	675	0.4+	1.3+	1999 12 31	106	0.4+	0.3+	2000 02 03	704	0.1-	0.6+
1981 10 24	675	0.1+	0.4-	2000 01 04	704	0.1-	0.4-	2000 02 03	704	0.2+	1.0+
1981 10 25	675	0.3+	0.3-	2000 01 04	704	0.1-	0.3-	2000 02 11	704	0.6+	0.2+
1981 10 26	675	0.1-	0.5-	2000 01 04	704	0.6+	0.0	2000 02 11	704	0.0	0.1-
1998 10 28	399	0.3-	0.1+	2000 01 04	704	0.5-	1.3-	2000 02 11	704	0.0	0.1-
1998 10 28	399	0.4-	0.4+	2000 01 04	704	0.0	0.3-	2000 02 11	704	0.2+	0.3-
1998 11 10	704	0.1+	0.0	2000 01 06	704	0.3+	0.2-	2000 02 11	704	1.0-	0.5+
1998 11 10	704	0.3+	0.9-	2000 01 06	704	0.4+	1.3-	2000 02 12	711	0.3-	0.1+
1998 11 10	704	0.3+	0.1+	2000 01 06	699	1.1+	0.7-	2000 02 12	711	0.4-	0.1+
1998 11 10	704	0.3+	0.0	2000 01 06	704	0.2+	0.1-	2000 02 26	703	0.6-	1.2+
1998 11 10	704	1.8+	0.1-	2000 01 06	704	0.1+	0.7-	2000 02 26	703	0.4+	0.1-
1998 11 11	704	0.1-	0.3-	2000 01 06	699	0.1+	0.5-	2000 02 26	703	0.3+	0.5+
1998 11 11	704	0.8+	0.7+	2000 01 06	699	0.2+	1.1-	2000 02 26	703	0.2+	0.0
1998 11 11	704	0.9+	0.2+	2000 01 27	120	0.6-	0.9-	2000 02 28	704	0.8+	0.5+
1998 11 11	704	1.2+	0.9-	2000 01 27	120	1.1-	0.4-	2000 02 28	704	0.5+	0.0
1998 11 11	704	1.1+	1.0-	2000 01 30	704	0.0	0.4-	2000 02 28	704	0.5+	0.2+
1998 11 12	399	0.1-	2.1+	2000 01 30	704	0.2-	0.5-	2000 02 28	704	0.2+	0.2+
1998 11 12	399	1.4-	0.1+	2000 01 30	703	0.7-	0.2+	2000 02 28	704	0.4+	0.2-
1998 11 18	399	1.0-	0.1+	2000 01 30	704	1.0-	0.4+	2000 03 04	704	0.8+	0.4+
1998 11 18	399	(2.4-	2.0+)	2000 01 30	703	0.0	0.3+	2000 03 04	704	0.4-	0.8+
1998 11 19	399	2.0-	0.2-	2000 01 30	703	0.1+	0.4-	2000 03 04	704	0.3-	0.2+
1998 11 19	399	1.3-	0.1+	2000 01 30	704	0.3-	0.6-	2000 03 04	704	0.1+	0.0
1999 01 08	699	0.3-	0.3+	2000 01 30	703	0.7-	0.5+	2000 03 04	704	0.2+	0.7+
1999 01 08	699	0.1+	0.8+	2000 02 03	704	0.2-	0.3+				
1999 01 08	699	0.9-	0.9+	2000 02 03	704	0.4-	0.3-				

(14176)* 1998 VB₂₈ = 1981 UQ₂₇ = 1992 SL₂₅

Discovered 1998 Nov. 10 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. S. Nakano (*MPC* 33319)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
118.48805		(2000.0)			
<i>n</i>	0.17607073	ω	29.39880	+0.99769904	-0.05863451
<i>a</i>	3.1526658	Ω	333.89671	+0.03642416	+0.88700375
<i>e</i>	0.1581862	<i>i</i>	4.43693	+0.05718304	+0.45802440
<i>P</i>	5.60	<i>H</i>	13.3	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1981 10 24	675	0.4+	0.4+	2000 01 06	704	0.4-	0.4-	2000 02 05	704	0.2-	0.2+
1981 10 25	675	0.2+	0.2-	2000 01 06	704	0.6-	0.6-	2000 02 05	704	0.6-	0.7+
1981 10 26	675	0.7-	0.0	2000 01 06	704	0.2+	0.5+	2000 02 05	704	0.1-	0.0
1992 09 30	675	0.8+	0.7-	2000 01 06	704	0.3-	0.4+	2000 02 05	704	1.3-	0.3-
1992 09 30	675	0.1+	0.3-	2000 01 30	703	0.6-	0.2+	2000 02 06	695	0.1-	0.2+
1992 10 03	675	0.0	0.3-	2000 01 30	703	0.9-	0.0	2000 02 06	695	0.3-	0.2+
1992 10 03	675	0.1-	0.5-	2000 01 30	703	0.5-	0.9+	2000 02 08	049	1.1+	1.1-
1998 11 10	704	0.1+	0.8-	2000 01 30	704	0.5-	0.1+	2000 02 08	049	1.1+	0.5-
1998 11 10	704	0.0	1.1+	2000 01 30	703	1.1-	0.4+	2000 02 08	049	0.5+	0.9-
1998 11 10	704	0.0	0.8+	2000 01 30	704	0.2-	0.8+	2000 02 09	049	1.1+	0.5-
1998 11 10	704	0.2-	0.2+	2000 01 30	704	1.1+	0.8+	2000 02 09	049	0.8+	0.5-
1998 11 11	704	0.1+	0.3+	2000 01 31	704	0.1+	0.0	2000 02 09	049	1.0+	0.9-
1998 11 11	704	0.6-	0.1+	2000 01 31	704	0.3-	0.1+	2000 02 11	704	0.0	1.3+

1998 11 11	704	0.0	0.3-	2000 01 31	704	0.3-	0.4+	2000 02 11	704	0.6-	0.0
1998 11 11	704	0.3+	0.5+	2000 02 03	704	0.4-	0.3+	2000 02 11	704	0.9-	0.7+
1998 11 11	704	0.4+	0.2+	2000 02 03	704	0.0	0.4-	2000 02 26	703	0.6+	0.0
1998 11 19	905	0.8-	0.7-	2000 02 03	704	0.0	0.6+	2000 02 26	703	0.5+	1.6-
1998 11 19	905	0.4+	0.2-	2000 02 03	704	0.4+	0.1+	2000 02 26	703	0.9-	0.8+
2000 01 04	704	0.3-	0.4-	2000 02 03	704	0.5-	0.3+	2000 02 26	703	1.5+	0.3-
2000 01 04	704	0.7+	0.0	2000 02 05	704	0.2+	0.2+	2000 03 04	704	0.7-	0.4+
2000 01 04	704	0.1+	0.4-	2000 02 05	704	0.6+	0.2-	2000 03 04	704	0.5-	0.7-
2000 01 04	704	0.6+	0.1-	2000 02 05	704	0.2+	0.3-	2000 03 04	704	0.6-	0.6-
2000 01 04	704	0.8+	0.3+	2000 02 05	704	1.0+	0.0	2000 03 04	704	0.3-	1.0-
2000 01 05	699	0.2-	0.4+	2000 02 05	704	0.5-	0.5+	2000 03 04	704	0.8-	1.3-
2000 01 05	699	1.3+	0.1-	2000 02 05	704	0.2-	0.5+				
2000 01 05	699	0.2+	1.1-	2000 02 05	704	0.2-	0.1+				

(14177)* 1998 VU₂₉ = 1979 WM₅ = 2000 AP₂₀₃

Discovered 1998 Nov. 10 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. G. V. Williams (*MPC* 37801)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
88.31484		(2000.0)			
<i>n</i>	0.20961889	ω	169.32767	+0.34496921	-0.92555964
<i>a</i>	2.8066124	Ω	260.35194	+0.84908516	+0.37856394
<i>e</i>	0.1446013	<i>i</i>	9.10457	+0.40006329	-0.00535775
<i>P</i>	4.70	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1979 11 17	095	0.4+	1.5-	1998 11 19	399	(0.8-	3.4+)	1999 01 24	691	0.0	0.8-
1996 05 16	566	0.5+	0.1+	1998 11 19	399	(0.6-	2.4+)	1999 01 24	691	0.4+	0.3-
1996 05 16	566	0.1+	0.3-	1998 11 20	699	0.2+	1.5+	1999 02 04	699	0.6-	0.6+
1996 05 16	566	0.3-	0.5-	1998 11 20	699	0.1+	0.7+	1999 02 04	699	0.1-	0.7+
1998 08 31	704	0.3-	0.3-	1998 11 20	699	0.4+	0.9+	1999 02 04	699	0.7-	0.3+
1998 08 31	704	0.8-	0.1-	1998 11 21	704	0.2+	0.3+	1999 02 06	704	0.5-	0.7-
1998 08 31	704	1.6-	0.8-	1998 11 21	704	0.2+	0.1-	1999 02 06	704	0.0	0.7-
1998 08 31	704	0.1-	0.1+	1998 11 21	704	1.8+	1.0+	1999 02 06	704	0.3+	1.8-
1998 08 31	704	0.7-	1.8-	1998 11 21	704	1.6+	2.0+	1999 02 16	691	0.1-	0.6-
1998 10 26	098	0.8+	0.7-	1998 11 21	704	(2.2+	1.8+)	1999 02 16	691	0.3-	0.5-
1998 10 26	098	1.1-	1.0-	1998 11 24	704	0.1+	0.6-	1999 02 16	691	0.0	0.5-
1998 11 10	704	0.3-	0.3-	1998 11 24	704	0.1-	1.0-	2000 01 10	704	0.3-	0.3+
1998 11 10	704	1.1-	0.2+	1998 11 24	704	0.1+	1.4-	2000 01 10	704	1.2-	0.4-
1998 11 10	704	0.5+	0.8+	1998 11 24	704	0.6+	0.5-	2000 01 10	704	0.2+	0.1-
1998 11 10	704	0.1-	0.8+	1998 11 24	704	1.9-	1.9-	2000 01 10	704	0.2-	0.9-
1998 11 10	704	0.4-	0.6-	1998 12 11	699	0.5+	0.1-	2000 01 10	704	0.2+	1.0+
1998 11 11	704	0.8-	1.2-	1998 12 11	699	0.6+	0.1+	2000 01 11	704	0.3+	0.6-
1998 11 11	704	0.6+	0.4-	1998 12 11	699	0.7+	0.3+	2000 01 11	704	0.4+	0.3-
1998 11 11	704	0.3-	0.4+	1998 12 14	704	0.3+	0.8+	2000 01 11	704	1.2+	1.2-
1998 11 11	704	0.2-	0.4+	1998 12 14	704	1.2+	0.8+	2000 01 11	704	0.2-	1.3-
1998 11 18	704	0.4+	0.6-	1998 12 14	704	0.3+	0.6+	2000 02 10	704	0.2-	0.1-
1998 11 18	704	1.1+	0.2+	1998 12 14	704	0.3-	0.6+	2000 02 10	704	0.5+	1.0+
1998 11 18	704	0.0	1.8+	1998 12 14	704	0.3+	0.6+	2000 02 10	704	0.1-	0.1+
1998 11 18	704	1.5-	0.5+	1999 01 06	699	0.1-	0.3+	2000 02 10	704	0.3+	0.1-
1998 11 18	704	0.5-	1.3+	1999 01 06	699	0.2-	0.3+	2000 03 09	704	1.3-	0.4+
1998 11 18	399	1.0-	1.4-	1999 01 06	699	0.2+	0.5+	2000 03 09	704	0.1+	1.1+
1998 11 18	399	(2.0-	1.1-)	1999 01 24	691	0.2+	0.1-	2000 03 09	704	(0.9-	2.3+)

Residuals in seconds of arc

1989 12 30	413	(7.3– 2.4+)	1998 11 18	704	1.1+ 0.1–	2000 02 11	704	0.6– 0.4+
1989 12 30	413	0.8+ 0.8–	1998 11 18	704	1.5+ 0.7–	2000 02 11	704	0.1– 0.6+
1989 12 31	413	2.1– 0.7–	1998 11 18	704	(2.1+ 2.2–)	2000 02 11	704	0.2– 0.1–
1989 12 31	413	0.7+ 1.2–	1998 11 18	704	0.7+ 0.1–	2000 02 11	704	0.2+ 0.1–
1996 05 11	691	0.0 0.9–	1998 11 19	704	0.5– 0.3+	2000 02 25	703	0.8– 0.9+
1996 05 11	691	0.1+ 0.4–	1998 11 19	704	0.9– 0.0	2000 02 25	703	0.5– 0.3+
1996 05 11	691	0.1– 0.2–	1998 11 19	704	0.3+ 0.3–	2000 02 25	703	0.1– 0.4+
1996 06 08	809	(0.1+ 2.4–)	1998 11 19	704	0.0 0.5–	2000 02 25	703	0.6+ 0.1+
1996 06 08	809	(0.3+ 2.2–)	1998 11 19	704	0.6– 0.6–	2000 03 05	704	0.2+ 0.0
1996 06 08	809	0.3+ 2.0–	1998 11 21	704	0.3+ 0.4–	2000 03 05	704	0.1– 0.2–
1996 06 10	809	0.0 0.2–	1998 11 21	704	0.4+ 0.1–	2000 03 05	704	0.2+ 0.1+
1996 06 10	809	0.7– 0.0	1998 11 21	704	0.2+ 0.4–	2000 03 05	704	0.4+ 0.0
1996 06 10	809	0.9– 0.6+	1998 11 21	704	0.5– 0.4+	2000 03 05	704	0.4+ 0.4+
1998 11 10	704	0.6– 0.6+	1998 11 21	704	(2.4– 0.3–)	2000 03 06	704	0.0 0.2+
1998 11 10	704	0.6– 0.6+	1998 11 24	704	0.2– 0.4–	2000 03 06	704	0.0 0.1+
1998 11 10	704	0.4+ 1.1–	1998 11 24	704	0.8– 0.2–	2000 03 06	704	0.2– 0.7+
1998 11 10	704	0.2– 0.5–	1998 11 24	704	0.2– 0.6+	2000 03 11	699	0.1+ 0.6–
1998 11 11	704	0.3– 0.6+	1998 11 24	704	0.9+ 0.6+	2000 03 11	699	0.1+ 0.0
1998 11 11	704	0.6– 0.7–	1998 11 24	704	(1.6+ 2.4+)	2000 03 11	699	0.6– 0.3–
1998 11 11	704	0.2+ 0.3–	2000 02 04	704	0.1– 0.6–	2000 03 11	699	0.4– 0.3–
1998 11 11	699	0.1– 0.4+	2000 02 04	704	0.6+ 0.5+	2000 03 12	704	0.2– 0.3–
1998 11 11	704	0.8– 0.6–	2000 02 04	704	0.9+ 0.2+	2000 03 12	704	0.5+ 0.4–
1998 11 11	699	0.5+ 0.6+	2000 02 04	704	(2.2+ 1.0–)	2000 03 12	704	0.1+ 0.7+
1998 11 11	699	0.1– 0.2+	2000 02 04	704	(3.1+ 1.6–)	2000 03 12	704	0.0 0.3–
1998 11 18	704	0.9+ 0.9+	2000 02 11	704	1.1+ 0.0	2000 03 12	704	0.3– 0.4+

(14179)* 1998 VM₃₂ = 1980 PF₂ = 1997 MF₃

Discovered 1998 Nov. 15 by I. P. Griffin at the BCC Observatory, Cocoa.

Id. G. V. Williams (*MPC* 33518)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		289.69426		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>		0.28484445	ω	333.45015		–0.18480799		+0.97292309			
<i>a</i>		2.2876919	Ω	285.63775		–0.87411087		–0.22728144			
<i>e</i>		0.2140302	<i>i</i>	8.28747		–0.44919504		+0.04199782			
<i>P</i>		3.46	<i>H</i>	13.4		<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1980 08 10	809	0.2+ 0.6–	1998 11 19	758	0.6+ 0.1–	2000 01 05	704	0.9– 0.1–
1997 06 28	704	(2.1– 0.5+)	1998 11 20	758	0.9– 0.3–	2000 01 07	106	0.3+ 0.6+
1997 06 28	704	0.2– 0.9+	1998 11 20	758	0.8– 0.5+	2000 01 07	106	0.1– 0.4+
1997 06 28	704	0.1+ 0.8+	1998 11 20	595	0.1– 0.6+	2000 01 07	106	0.9+ 0.4–
1997 06 29	704	0.8– 0.8+	1998 11 20	595	0.7+ 0.1–	2000 02 07	704	0.7– 0.4–
1997 06 29	704	0.7– 0.3+	1998 11 21	595	0.8– 1.2–	2000 02 07	704	0.3– 0.3–
1997 06 29	704	(2.4+ 3.0+)	1998 11 21	595	0.2– 0.6–	2000 02 07	704	0.3– 0.4–
1997 06 29	704	0.4+ 0.8+	1998 11 25	758	1.0– 0.4+	2000 02 07	467	0.4+ 0.6+
1997 06 29	704	0.3– 1.1+	1998 11 25	758	0.2+ 0.4–	2000 02 07	467	1.2+ 0.3+
1997 07 02	704	0.3– 0.2+	1998 11 25	758	0.6– 0.3+	2000 02 07	704	0.7– 0.3–
1997 07 02	704	0.3– 0.6+	1998 11 29	758	1.4– 1.5+	2000 02 07	704	1.2– 0.6–
1997 07 02	704	0.2– 0.4+	1998 11 29	758	0.2– 0.2+	2000 02 08	704	0.5+ 0.4+
1997 07 02	704	0.0 0.3+	1998 11 29	758	1.6– 1.3+	2000 02 08	704	0.1+ 0.5+
1997 07 02	704	1.0+ 0.2+	1998 12 10	758	0.4– 1.0+	2000 02 08	704	0.1+ 0.3+
1998 11 15	758	0.5– 2.0+	1998 12 10	758	0.5+ 1.0+	2000 02 08	704	0.0 0.2+
1998 11 15	758	0.8+ 0.6+	1998 12 10	758	0.0 0.4+	2000 02 08	704	0.1+ 0.0
1998 11 15	758	0.0 0.0	1998 12 17	704	1.2+ 0.4+	2000 02 10	704	0.3– 0.6–
1998 11 16	758	1.9+ 0.8+	1998 12 17	704	1.2+ 0.1–	2000 02 10	704	1.0+ 0.4–
1998 11 16	758	0.0 0.4–	1998 12 17	704	0.8– 1.1–	2000 02 10	704	0.5+ 0.5+
1998 11 16	758	0.5+ 0.5+	1998 12 17	704	2.0– 1.4–	2000 02 10	704	1.0+ 0.9+
1998 11 17	758	0.3– 0.0	1998 12 24	699	0.8+ 0.5+	2000 02 10	704	1.1+ 0.4+
1998 11 17	758	0.3– 0.8+	1998 12 24	699	1.4+ 0.4+	2000 03 09	704	0.1– 0.3+
1998 11 17	758	0.8+ 0.4+	1998 12 24	699	0.1– 1.1+	2000 03 09	704	0.1+ 0.5+
1998 11 18	758	0.2+ 0.2+	2000 01 05	704	1.6– 0.3–	2000 03 09	704	0.2+ 0.4+
1998 11 19	758	0.3+ 0.2–	2000 01 05	704	0.2+ 0.5–	2000 03 09	704	0.1+ 0.6+
1998 11 19	758	0.7+ 0.1–	2000 01 05	704	0.5– 0.6+	2000 03 09	704	0.1+ 0.6+

(14180)* 1998 WY₅ = 1981 WD₃ = 1988 AT₅ = 1992 UU₉

Discovered 1998 Nov. 20 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 33522)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>		100.05798		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>		0.17630078	ω	300.68451		+0.67981775		–0.73200101	
<i>a</i>		3.1499227	Ω	106.41518		+0.68788382		+0.61518184	
<i>e</i>		0.1146085	<i>i</i>	2.68709		+0.25429052		+0.29278972	
<i>P</i>		5.59	<i>H</i>	13.7		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 11 24	033	0.0 0.6+	1998 12 12	411	0.4+ 0.3+	2000 03 02	012	0.5– 0.6–
1981 11 24	033	0.1– 0.6+	1998 12 12	411	0.4– 0.2+	2000 03 05	704	0.4+ 0.3–
1988 01 11	033	0.3– 0.6–	1998 12 15	704	1.6– 0.0	2000 03 05	704	0.4+ 0.4+
1988 01 11	033	0.1– 0.4–	1998 12 15	704	1.2– 0.8–	2000 03 05	704	0.6– 0.0
1992 10 31	033	0.4– 0.3+	1998 12 15	704	0.3– 1.4+	2000 03 05	704	0.1+ 0.6–
1992 10 31	033	0.1– 0.1–	1998 12 15	704	0.4– 0.2+	2000 03 05	704	0.4+ 0.1–
1992 11 01	033	0.2– 0.6+	1998 12 15	704	0.8– 0.0	2000 03 07	049	0.1+ 0.1–
1998 11 20	411	0.2– 0.9–	1998 12 21	411	0.3+ 0.1–	2000 03 07	049	0.6+ 0.3–
1998 11 20	411	0.1+ 0.5–	1998 12 21	411	0.7– 1.2+	2000 03 07	049	0.4+ 0.5–
1998 11 23	411	0.2+ 0.7–	2000 02 10	120	0.6+ 0.2–	2000 03 11	699	0.1+ 0.1–
1998 11 23	411	0.9– 1.0–	2000 02 10	120	1.2+ 0.0	2000 03 11	699	0.2+ 0.0
1998 11 26	411	0.1+ 0.4–	2000 02 10	120	1.5– 1.0+	2000 03 11	699	0.2+ 0.2–
1998 11 26	411	0.9+ 0.0	2000 02 11	704	0.2+ 0.3–	2000 03 11	699	0.2– 0.3+
1998 11 28	327	1.2+ 0.0	2000 02 11	704	0.6– 0.2+	2000 03 12	704	1.5+ 0.7–
1998 11 28	327	0.5+ 0.2–	2000 02 11	704	0.4+ 0.1+	2000 03 12	704	0.5+ 1.6+
1998 11 28	327	0.7+ 0.1–	2000 02 13	120	0.2– 0.0	2000 03 12	704	0.5+ 0.5+
1998 12 01	327	0.9+ 0.4+	2000 02 13	120	1.6– 0.0	2000 03 12	704	0.6+ 0.1–
1998 12 01	327	0.8+ 0.1–	2000 03 02	012	1.5– 0.9+	2000 03 12	704	0.1+ 0.5+
1998 12 01	327	0.5+ 0.3+	2000 03 02	012	1.2– 0.2–			

(14181)* 1998 WX₆ = 1998 XK₇₃ = 1932 BF = 1962 XA₁ = 1975 VU₂

Discovered 1998 Nov. 20 by K. Sárneczky and L. Kiss at the Piszkestető

Station of the Konkoly Observatory.

Id. G. V. Williams (d, *MPC* 33786), A. Gnädig (*MPC* 38533)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>		85.52631		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>		0.22031788	ω	37.12643		–0.33692014		–0.92982892	
<i>a</i>		2.7149983	Ω	72.98668		+0.82241909		–0.36716306	
<i>e</i>		0.1579267	<i>i</i>	8.90345		+0.45837939		–0.02468736	
<i>P</i>		4.47	<i>H</i>	13.6		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1932 01 28	024	(6.2+ 3.0−)	1998 11 20	561	0.0 0.8+	1999 01 16	704	0.5− 1.0−
1949 11 25	675	0.2+ 0.6−	1998 11 20	561	0.0 1.0+	1999 01 16	704	0.5+ 0.9+
1949 11 25	675	0.8− 0.1+	1998 11 20	561	0.3+ 1.1+	1999 01 16	704	1.7+ 1.7−
1962 12 03	760	1.5− 0.9+	1998 11 20	561	0.1− 0.9+	1999 01 16	704	1.3+ 1.3+
1962 12 03	760	1.9+ 0.2−	1998 11 22	561	0.1− 0.3+	1999 01 19	704	0.0 0.2+
1975 11 02	095	(0.3− 9.7−)	1998 11 22	561	0.1+ 0.2+	1999 01 19	704	0.5− 0.3+
1978 07 30	413	0.7+ 0.6−	1998 11 22	561	0.0 0.3+	1999 01 19	704	0.4− 0.1+
1984 08 07	413	0.3+ 0.2+	1998 12 14	704	0.2+ 0.7−	1999 01 19	704	0.4+ 0.4+
1984 08 07	413	2.4− 0.3+	1998 12 14	704	0.6+ 1.0−	1999 01 19	704	0.6− 1.7−
1986 03 04	675	0.5− 0.5+	1998 12 14	704	0.1+ 0.7−	1999 04 06	704	0.5− 0.7+
1986 03 04	675	0.4+ 0.2−	1998 12 14	704	1.8− 0.8−	1999 04 06	704	1.0− 0.0
1986 03 04	675	0.9+ 0.7+	1998 12 14	704	(0.3− 2.3−)	1999 04 06	704	0.1+ 1.9+
1991 03 19	413	1.3− 0.1+	1998 12 17	704	0.2− 0.2+	1999 05 15	703	1.0+ 0.6+
1991 03 19	413	0.1− 0.3+	1998 12 17	704	0.5− 0.9−	1999 05 15	703	0.2+ 0.1+
1992 06 04	413	0.1− 0.1+	1998 12 17	704	(2.3+ 0.9−)	1999 05 15	703	0.7− 0.3+
1992 06 04	413	0.8+ 0.3+	1998 12 17	704	0.3+ 1.2−	1999 05 15	703	0.8+ 0.1−

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	205.23698		(2000.0)	P		Q	
<i>n</i>	0.27852522	ω	98.52574	+0.80549649	+0.58797606		
<i>a</i>	2.3221647	Ω	225.50104	-0.57626542	+0.74810664		
<i>e</i>	0.1432077	<i>i</i>	5.94610	-0.13817951	+0.30760463		
<i>P</i>	3.54	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1980 09 13	675	0.2+	0.2-	1998 11 19	699	0.5+	0.3+
1980 09 14	675	0.2-	0.1+	1998 11 19	699	0.2-	0.1-
1997 05 04	809	0.3+	0.1+	1998 11 21	704	1.1-	1.2+
1997 05 04	809	0.6+	0.1-	1998 11 21	704	0.3-	1.1+
1997 05 04	809	0.7-	0.7+	1998 11 21	704	0.8+	0.4+
1998 10 27	910	1.1+	0.4+	1998 11 21	704	(1.2-	2.5+)
1998 10 27	910	0.5+	0.3+	1998 11 21	704	(1.2-	3.2+)
1998 10 27	910	0.5+	0.3+	1998 11 23	699	0.1-	0.8+
1998 11 11	120	0.8-	0.4-	1998 11 23	699	0.5-	0.3+
1998 11 11	120	0.5-	0.4-	1998 11 23	699	0.1-	1.1+
1998 11 16	691	1.2-	0.3+	1998 11 24	704	0.2+	0.8+
1998 11 16	691	1.1-	0.1+	1998 11 24	704	2.0+	0.0
1998 11 16	691	1.3-	0.0	1998 11 24	704	0.7+	1.3-
1998 11 18	704	0.2-	0.5+	1998 11 24	704	1.2+	1.3-
1998 11 18	704	0.2-	0.6-	1998 11 28	120	0.3-	0.9-
1998 11 18	704	0.2-	0.7-	1998 11 28	120	0.9-	0.2+
1998 11 18	704	0.6+	1.8-	1998 11 29	120	0.7-	0.3-
1998 11 18	704	0.8-	1.1-	1998 11 29	120	2.0+	0.6+
1998 11 19	699	0.5-	0.6-	1998 12 07	910	0.5+	0.0

(14183)* 1998 WA₁₈ = 1992 TR₁

Discovered 1998 Nov. 21 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. S. Nakano (*MPC* 34225)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	82.40716		(2000.0)	P		Q	
<i>n</i>	0.17984554	ω	129.48518	+0.44815521	-0.89052565		
<i>a</i>	3.1083955	Ω	293.72364	+0.79171734	+0.43602016		
<i>e</i>	0.0682423	<i>i</i>	4.90237	+0.41513921	+0.12980942		
<i>P</i>	5.48	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1992 10 02	675	0.6+	0.2-	1998 12 14	704	1.1-	1.2-
1992 10 02	675	0.6+	0.3-	1998 12 14	704	1.4+	1.1+
1992 10 04	675	(3.5-	2.4-)	1998 12 14	704	(3.0-	0.4-)
1992 10 04	675	0.8-	0.1+	1998 12 14	704	0.6+	0.3+
1994 01 04	691	1.5+	0.7-	1999 01 06	699	0.2-	0.8+
1994 01 04	691	0.7-	0.8-	1999 01 06	699	0.0	0.8-
1994 01 05	399	1.0-	0.5-	1999 01 06	699	0.0	0.5-
1994 01 05	399	0.6-	0.3-	1999 11 17	704	(2.4+	0.3+)
1998 08 31	704	1.5-	1.7+	1999 11 17	704	0.9+	0.3-
1998 08 31	704	0.9-	0.2+	1999 11 17	704	0.0	0.4-
1998 08 31	704	(2.3-	0.8+)	1999 11 17	704	2.1+	0.7-
1998 08 31	704	(6.2-	1.3+)	1999 12 05	704	0.4-	0.3+
1998 11 21	704	0.2+	0.4+	1999 12 05	704	0.5-	0.7-
1998 11 21	704	0.4-	0.6-	1999 12 05	703	0.7-	0.2+
1998 11 21	704	0.7+	0.4-	1999 12 05	703	0.2+	0.0
1998 11 21	704	0.4+	1.6-	1999 12 05	703	0.0	0.1+
1998 11 21	704	0.5+	0.8-	1999 12 05	704	0.9-	0.2-
1998 11 24	704	0.1-	0.4+	1999 12 05	703	0.6-	0.6+
1998 11 24	704	1.5-	0.8+	2000 01 08	704	0.4+	0.3+
1998 11 24	704	0.5+	0.8+	2000 01 08	704	0.6+	0.5-
1998 11 24	704	0.3+	0.2+	2000 01 08	704	0.9-	0.3-
1998 11 24	704	0.2-	2.0+	2000 01 08	704	1.6-	0.7-

(14184)* 1998 WA₃₂ = 1992 PB₄

Discovered 1998 Nov. 21 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 34226)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	199.22416		(2000.0)	P		Q	
<i>n</i>	0.19844047	ω	84.80297	+0.66548237	+0.74624014		
<i>a</i>	2.9110471	Ω	226.92992	-0.69325014	+0.60995025		
<i>e</i>	0.0422556	<i>i</i>	1.26201	-0.27665403	+0.26662023		
<i>P</i>	4.97	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1992 08 02	675	0.3+	0.1-	1999 01 05	699	1.2+	0.5+
1992 08 02	675	0.5-	0.4+	1999 01 05	699	1.3+	0.5+
1992 08 06	675	0.5+	1.3-	1999 01 05	699	0.0	1.2+
1992 08 06	675	(1.1-	2.4-)	1999 01 10	691	1.0-	0.6+
1997 08 30	566	0.4-	0.9+	1999 01 10	691	1.0-	0.6+
1997 08 30	566	0.3-	0.6+	1999 01 10	691	1.0-	0.8+
1997 08 30	566	0.2-	1.0+	2000 01 07	704	0.1+	0.1+
1998 11 21	704	0.2+	0.2+	2000 01 07	704	0.5-	0.7-
1998 11 21	704	0.9+	0.7-	2000 01 07	704	0.2-	0.3+
1998 11 21	704	0.3+	1.3-	2000 02 02	704	0.4+	0.2+
1998 11 21	704	0.4-	1.0-	2000 02 02	704	0.4+	0.3+
1998 11 21	704	0.4-	0.9-	2000 02 02	704	0.4+	0.4-
1998 11 24	704	0.0	0.1-	2000 02 02	704	0.2+	0.1+
1998 11 24	704	0.2+	0.3-	2000 02 02	704	0.0	0.1-
1998 11 24	704	0.9-	0.2+	2000 02 04	704	0.5+	0.2+
1998 11 24	704	0.4-	0.7-	2000 02 04	704	0.0	0.5-
1998 12 08	699	1.5+	0.2+	2000 02 04	704	1.0+	0.4+
1998 12 08	699	0.8+	0.3-	2000 02 04	704	1.4-	1.8+
1998 12 08	699	0.0	0.3+	2000 02 04	704	0.7+	0.2-
1998 12 17	704	0.1+	0.4+	2000 02 12	704	(1.6+	5.8+)
1998 12 17	704	1.3-	0.7+	2000 02 12	704	(1.9+	5.1+)
1998 12 17	704	0.6-	0.6+	2000 02 12	704	(0.1-	4.1+)
1998 12 17	704	0.4+	0.1-	2000 02 12	704	0.5+	1.2+
1998 12 17	704	0.2-	1.3-	2000 02 29	704	0.1+	0.0

(14185)* 1998 WK₃₂ = 1977 UW₁ = 1981 WX₄ = 1985 RN₆
= 1999 BV₁₈

Discovered 1998 Nov. 21 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 36004), A. Doppler (d, *ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	201.00160		(2000.0)	P		Q	
<i>n</i>	0.23979361	ω	325.12673	+0.95912300	+0.28010537		
<i>a</i>	2.5659271	Ω	18.73105	-0.22261135	+0.83471990		
<i>e</i>	0.1953146	<i>i</i>	7.20932	-0.17472054	+0.47411357		
<i>P</i>	4.11	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1977 10 20	033	0.5+	1.6+	1999 01 16	704	0.2-	0.1+
1981 11 24	095	0.1+	1.0-	1999 01 16	704	0.4-	0.8+
1985 09 15	095	0.3-	2.3-	1999 01 16	704	0.2+	0.9+
1985 09 20	095	(0.3-	4.3-)	1999 01 19	704	0.1-	0.6+
1985 09 22	095	1.2+	1.0-	1999 01 19	704	0.3+	0.3+
1997 09 02	566	0.7+	1.4+	1999 01 19	704	0.9+	1.3-
1997 09 02	566	0.6-	1.1+	1999 01 19	704	0.3+	0.7-
1997 09 02	566	0.5-	1.1+	1999 01 19	704	1.4+	0.1+
1998 11 21	699	0.2-	1.0+	2000 02 08	704	0.2+	0.5-
1998 11 21	699	0.1+	1.1+	2000 02 08	704	0.1-	0.5-
1998 11 21	699	(0.4-	2.3+)	2000 02 08	704	0.3-	0.6-
1998 11 24	699	0.3+	0.4+	2000 02 08	704	0.1+	0.0
1998 11 24	699	0.0	0.4-	2000 02 08	704	0.7-	0.4-
1998 11 24	699	1.0-	1.4+	2000 02 27	703	0.9-	0.7+

2000 MAR. 20

M.P.C. 39105

1998 12 17	704	0.6−	0.5+	2000 02 27	703	1.2−	0.7−	2000 03 11	704	0.2+	1.0+
1998 12 17	704	0.9−	0.3−	2000 02 27	703	0.0	0.2−	2000 03 14	703	0.5−	0.4+
1998 12 17	704	0.1−	0.0	2000 02 27	703	0.1+	0.7−	2000 03 14	703	0.7−	0.0
1998 12 17	704	0.7+	0.2−	2000 02 27	703	1.2+	0.2−	2000 03 14	703	0.3−	0.3−
1998 12 17	704	0.2+	1.1−	2000 02 27	703	0.7−	0.2+	2000 03 14	703	1.0−	0.4−
1999 01 16	704	0.4−	0.5+	2000 02 27	703	0.1+	0.1−				

(14186)* 1998 XP₂ = 1994 ET₂

Discovered 1998 Dec. 7 by A. Boattini and L. Tesi at San Marcello Pistoiese.
Id. G. V. Williams (*MPC* 33529)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	22.70679		(2000.0)	P		Q	
<i>n</i>	0.17501582	ω	50.42227	−0.80638065		−0.59058005	
<i>a</i>	3.1653216	Ω	93.35766	+0.53260671		−0.74805338	
<i>e</i>	0.0905815	<i>i</i>	1.78363	+0.25706097		−0.30270669	
<i>P</i>	5.63	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1994 01 18	691	0.2−	0.2+	1998 12 16	704	0.4+	1.3−	2000 02 11	704	0.1−	0.8+
1994 01 18	691	0.2+	0.0	1998 12 16	704	0.9+	0.2−	2000 02 26	703	0.3−	0.0
1994 01 18	691	0.2−	0.1+	1998 12 16	704	0.1−	1.1−	2000 02 26	703	0.9−	0.5−
1994 02 15	675	(0.9−	2.4−)	1998 12 22	704	0.2+	0.3+	2000 02 26	703	0.4−	0.8+
1994 02 15	675	(1.6+	2.8−)	1998 12 22	704	1.8+	0.1+	2000 02 26	703	0.6+	0.4−
1994 03 11	098	(3.5−	0.5+)	1998 12 22	704	1.9+	0.8−	2000 02 28	106	0.3−	0.3−
1994 03 12	098	0.3+	0.2−	1998 12 22	704	1.3+	1.2−	2000 02 28	106	0.2−	0.2−
1997 10 30	704	(2.5+	1.9−)	1998 12 23	104	0.4−	0.6+	2000 02 28	106	0.1+	0.1+
1997 10 30	704	0.6+	0.1−	1998 12 23	104	0.3+	0.1+	2000 02 29	704	0.8−	0.5−
1997 10 30	704	(0.5+	2.3+)	1998 12 23	104	0.2+	0.1−	2000 02 29	704	0.1−	0.0
1997 10 30	704	0.5+	0.5+	1998 12 23	104	0.0	0.1−	2000 02 29	704	0.2+	0.9+
1997 10 30	704	1.2−	0.2−	1998 12 23	104	0.4−	0.4−	2000 03 02	703	0.0	0.2−
1998 12 07	104	0.2−	0.5+	1999 01 05	104	1.1−	0.3+	2000 03 02	703	0.3−	0.6+
1998 12 07	104	0.5−	0.6+	1999 01 05	104	0.4−	0.2+	2000 03 02	703	0.6+	0.4+
1998 12 07	104	0.2−	0.1−	1999 01 05	104	0.7−	0.2+	2000 03 02	703	0.4−	0.3−
1998 12 07	104	0.2−	0.0	2000 01 01	104	0.6+	1.0+	2000 03 03	704	0.1+	0.0
1998 12 12	104	0.4+	0.2−	2000 01 01	104	0.5+	0.0	2000 03 03	704	0.4+	0.0
1998 12 12	104	0.7−	0.8+	2000 01 01	104	1.1+	1.1+	2000 03 03	704	0.3+	0.0
1998 12 12	104	0.9−	0.2+	2000 01 08	704	0.5−	0.2−	2000 03 03	704	0.6+	0.3−
1998 12 12	104	0.3−	0.2+	2000 01 08	704	1.0−	0.4+	2000 03 03	704	0.4+	0.1−
1998 12 12	104	0.2−	1.1+	2000 01 08	704	0.1−	0.6+	2000 03 11	699	0.1−	0.2−
1998 12 14	104	0.3−	0.7+	2000 01 08	704	0.1+	0.2+	2000 03 11	699	0.2+	0.2−
1998 12 14	104	0.4−	0.6+	2000 01 08	704	0.2+	0.2−	2000 03 11	699	0.1+	0.1−
1998 12 14	104	0.2−	0.4+	2000 02 06	704	0.2−	0.3+	2000 03 11	704	0.1+	0.2−
1998 12 14	104	0.1+	0.6+	2000 02 06	704	0.1+	0.5+	2000 03 11	699	0.3−	0.2−
1998 12 15	704	(0.8+	2.5−)	2000 02 06	704	0.5−	1.7−	2000 03 11	704	0.0	0.1+
1998 12 15	704	1.2−	1.1−	2000 02 11	704	1.5+	0.6−	2000 03 11	704	0.1−	0.3−
1998 12 15	704	0.1−	0.0	2000 02 11	704	0.1−	0.8−	2000 03 11	704	0.3−	0.3−
1998 12 15	704	0.1+	0.6−	2000 02 11	704	0.3+	0.6+	2000 03 11	704	0.3−	0.5−
1998 12 16	704	0.3+	1.1−	2000 02 11	704	0.4−	0.7+				

(14187)* 1998 XS₉ = 1991 VQ₃

Discovered 1998 Dec. 14 by K. Korlević at Višnjan.

Id. G. V. Williams (*MPC* 33531)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	228.53607		(2000.0)	P		Q	
<i>n</i>	0.28921748	ω	122.65505	+0.68634058		+0.72723524	
<i>a</i>	2.2645732	Ω	190.69778	−0.68101815		+0.63873712	
<i>e</i>	0.1563785	<i>i</i>	2.49895	−0.25524672		+0.25128427	
<i>P</i>	3.41	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 11 04	691	0.7−	0.5+	1998 11 24	704	0.8−	1.0−	1999 01 05	120	0.2−	0.1+
1991 11 04	691	0.4−	0.8+	1998 11 28	120	0.3+	0.4−	1999 01 06	120	0.2−	0.4−
1991 11 04	691	0.1−	0.7+	1998 11 28	120	0.4+	0.4−	2000 01 06	699	0.4−	0.4+
1991 11 04	399	(1.5−	2.3+)	1998 12 08	699	0.3+	0.0	2000 01 06	699	0.8+	0.4−
1991 11 04	399	1.0+	1.7+	1998 12 08	699	0.3+	0.2−	2000 01 06	699	0.1−	1.8−

1991 11 09	399	(5.0−	1.6−)	1998 12 08	699	0.4+	0.4+	2000 02 08	704	0.5+	0.2+
1991 11 09	399	0.8−	0.2−	1998 12 09	120	0.1−	0.1+	2000 02 08	704	0.1+	0.0
1997 05 04	809	(4.2−	1.3+)	1998 12 09	120	0.1−	0.2+	2000 02 08	704	0.0	0.1−
1997 05 04	809	(3.6−	1.6+)	1998 12 09	120	0.3−	0.6+	2000 02 08	704	0.1−	0.1−
1997 05 04	809	(2.6−	3.5+)	1998 12 14	120	0.1+	1.4−	2000 02 28	106	0.2+	0.5−
1997 05 07	704	0.2−	0.3−	1998 12 14	120	0.3−	0.1−	2000 02 28	106	0.3−	0.3+
1997 05 07	704	0.0	0.5−	1998 12 15	120	0.7−	0.5−	2000 02 28	106	0.1+	0.0
1997 05 07	704	0.0	0.3−	1998 12 15	120	0.5−	0.1−	2000 03 03	704	0.3+	0.9+
1997 05 07	704	0.1+	0.0	1998 12 16	120	0.8−	0.2−	2000 03 03	704	0.8+	0.6+
1998 08 31	704	0.1−	0.4−	1998 12 17	120	0.3+	0.4−	2000 03 03	704	0.6+	0.2+
1998 08 31	704	0.1+	0.4+	1998 12 17	120	0.6−	0.2−	2000 03 03	704	0.5+	0.5+
1998 08 31	704	(0.3+	2.5+)	1998 12 18	120	0.2−	0.2+	2000 03 03	704	0.5+	0.2−
1998 08 31	704	0.1−	1.7+	1998 12 22	704	0.8+	1.3+	2000 03 08	704	0.1−	0.5+
1998 11 11	910	1.2+	0.4+	1998 12 22	704	1.7−	0.8−	2000 03 08	704	0.0	0.6+
1998 11 11	910	1.1+	0.5+	1998 12 22	704	0.0	1.3−	2000 03 08	704	0.3−	0.9+
1998 11 11	910	1.1+	0.5+	1998 12 22	704	0.1+	0.8−	2000 03 08	704	0.0	0.6+
1998 11 15	120	0.6−	0.2+	1998 12 23	120	0.4+	0.3−	2000 03 11	704	0.6−	0.2+
1998 11 16	120	0.1−	0.1+	1998 12 23	120	0.4+	0.6−	2000 03 11	704	0.5−	0.0
1998 11 24	704	0.8+	0.2+	1998 12 23	120	0.3−	0.2−	2000 03 11	704	0.4−	0.1−
1998 11 24	704	1.4−	0.1−	1999 01 05	120	0.8+	0.1+	2000 03 11	704	0.1+	0.3+
1998 11 24	704	0.5+	0.5−	1999 01 05	120	0.5+	0.1+	2000 03 11	704	0.5−	0.1−

(14188)* 1998 XP₁₁ = 1989 AF₅ = 1991 PT₃

Discovered 1998 Dec. 13 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 33531)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>	343.89713		(2000.0)	P		Q	
<i>n</i>	0.19183528	ω	262.40333	−0.89549623		+0.42616901	
<i>a</i>	2.9774905	Ω	302.73894	−0.32390042		−0.82176569	
<i>e</i>	0.0494589	<i>i</i>	8.77510	−0.30524582		−0.37826066	
<i>P</i>	5.14	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1989 01 04	413	0.7−	0.7+	1997 10 29	566	0.4−	0.6−	1999 01 05	411	0.6−	0.5+
1989 01 04	413	1.7+	0.0	1997 10 29	566	0.2−	0.4−	1999 01 05	411	1.7−	0.4−
1989 01 10	413	0.9−	0.2+	1997 10 29	566	0.1−	0.5−	1999 01 15	411	0.2−	0.4−
1989 01 10	413	0.6+	0.6+	1998 12 13	411	1.1+	1.3+	1999 01 15	411	0.7+	0.6−
1991 08 03	809	(2.5+	0.1−)	1998 12 13	411	0.3+	0.3−	1999 01 19	704	0.7−	1.7−
1991 08 03	809	0.7+	0.0	1998 12 14	704	1.5+	1.1+	1999 01 19	704	0.6−	0.4+
1991 08 03	809	0.8+	0.6−	1998 12 14	704	0.9+	0.1+	1999 01 19	704	0.3+	0.8−
1991 08 05	809	0.3−	0.4+	1998 12 14	704	1.8+	1.7−	1999 01 19	704	(2.4+	0.6−)
1991 08 05	809	0.7−	0.5+	1998 12 14	704	1.7+	1.4−	2000 01 28	704	0.6+	0.4+
1991 08 05	809	0.7−	1.1+	1998 12 16	411	0.2−	0.3+	2000 01 28	704	0.3−	0.9+
1994 01 18	033	0.5−	0.4+	1998 12 16	411	0.3+	0.7+	2000 01 28	704	0.6−	0.3−
1994 01 18	033	1.0−	1.1+	1998 12 21	411	1.1−	1.1+	2000 03 14	704	0.5−	0.5−
1996 07 22	566	0.1+	0.1−	1998 12 21	411	0.8−	0.7+	2000 03 14	704	0.0	0.3−
1996 07 22	566	0.5+	0.3−	1998 12 26	411	0.1+	0.8−	2000 03 14	704	0.3−	0.3−
1996 07 22	566	0.2+	0.3−	1998 12 26	411	0.3−	0.2−				

(14189)* 1998 XB₁₄ = 1980 WL₄ = 1993 QQ₁

Discovered 1998 Dec. 15 by the OCA-DLR Asteroid Survey at Caussols.

Id. S.

1993 08 16	010	(3.3– 0.3+)	1998 12 17	910	0.3+ 0.1+	2000 03 09	704	0.6– 0.8+
1993 08 16	010	(3.9– 0.5–)	1998 12 17	910	0.5+ 0.3+	2000 03 11	704	0.4– 1.5+
1993 08 17	010	(4.3– 1.1+)	1998 12 17	910	0.5+ 0.2+	2000 03 11	704	0.6+ 0.5–
1993 09 18	010	0.4– 0.5–	2000 02 02	704	0.1– 0.1–	2000 03 11	704	0.6– 0.5–
1993 09 18	010	0.4– 0.4+	2000 02 02	704	0.0 0.2–	2000 03 11	704	1.0+ 1.0–
1993 09 18	010	0.3– 0.2+	2000 02 02	704	1.1+ 1.5+	2000 03 11	704	1.9+ 0.1+
1998 11 24	704	0.1– 0.5–	2000 02 29	704	0.0 0.2+	2000 03 11	699	1.3– 0.9+
1998 11 24	704	0.1– 1.1–	2000 02 29	704	0.2+ 0.4–	2000 03 11	699	0.9– 0.1+
1998 11 24	704	0.5– 0.6+	2000 02 29	704	0.2– 0.2–	2000 03 11	699	1.0– 0.2–
1998 11 24	704	1.3– 0.5–	2000 02 29	704	0.5– 0.0	2000 03 11	699	0.1+ 0.8+
1998 12 08	699	0.8– 0.5–	2000 02 29	704	0.1+ 0.1+	2000 03 11	699	1.5– 1.1+
1998 12 08	699	0.1– 0.4–	2000 03 03	704	1.4+ 1.0–	2000 03 11	699	2.1– 0.1+
1998 12 08	699	0.2+ 0.3–	2000 03 03	704	0.3+ 1.8–	2000 03 11	699	0.0 0.3+
1998 12 15	910	0.1+ 0.3+	2000 03 03	704	0.4+ 0.7–	2000 03 11	699	1.4– 1.1+

(14190)* 1998 XS₁₅ = 1991 PE₁₉ = 1991 RK₃₉

Discovered 1998 Dec. 15 at Kleť.

Id. B. G. Marsden (*MPC* 33531)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	52.39053		(2000.0)	P	Q
<i>n</i>	0.18719171	ω	32.84740	−0.57201729	−0.81633832
<i>a</i>	3.0265300	Ω	92.16500	+0.73424707	−0.55304379
<i>e</i>	0.0830376	<i>i</i>	4.58752	+0.36561928	−0.16653622
<i>P</i>	5.27	<i>H</i>	13.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1991 08 02	809	1.0+ 1.0–	1998 12 17	704	0.1+ 0.6–	1999 01 20	046	0.1– 0.1–
1991 08 02	809	0.6– 0.4+	1998 12 17	704	0.3+ 0.4–	1999 01 20	046	0.2– 0.1–
1991 08 02	809	0.1+ 0.6–	1998 12 17	704	0.0 1.1–	1999 01 20	046	0.1– 0.1–
1991 08 14	809	1.3+ 1.1–	1998 12 17	704	0.4+ 1.0–	1999 01 21	046	0.2– 0.1+
1991 08 14	809	0.4+ 1.1–	1998 12 17	704	0.3+ 0.1+	1999 01 21	046	0.3– 0.1+
1991 08 14	809	0.3– 1.5–	1998 12 18	046	0.0 0.1–	1999 01 21	046	0.3– 0.0
1991 09 06	809	0.5– 1.9–	1998 12 18	046	0.0 0.0	1999 11 16	703	0.6+ 0.6+
1991 09 06	809	(2.3– 2.5–)	1998 12 18	046	0.0 0.2–	1999 11 16	703	1.6– 0.1–
1991 09 06	809	(2.2– 3.0–)	1998 12 22	046	0.0 0.2–	1999 11 16	703	0.0 0.3+
1995 03 31	691	0.3– 0.4–	1998 12 22	046	0.1– 0.1–	1999 11 16	703	1.3+ 1.9–
1995 03 31	691	0.6– 0.5–	1998 12 22	046	0.3– 0.0	2000 03 01	703	0.5– 0.2–
1995 03 31	691	0.0 0.7–	1998 12 24	046	0.1– 0.0	2000 03 01	703	0.2– 0.0
1998 12 14	704	0.7+ 0.9–	1998 12 24	046	0.1– 0.1–	2000 03 01	703	0.0 0.2+
1998 12 14	704	0.8– 0.6+	1998 12 24	046	0.1– 0.1–	2000 03 01	703	0.1+ 0.4–
1998 12 14	704	1.7– 1.7–	1999 01 16	704	0.6+ 0.2–	2000 03 07	046	0.2+ 0.0
1998 12 14	704	0.4+ 0.4+	1999 01 16	704	0.6– 0.1+	2000 03 07	046	0.2– 0.0
1998 12 15	046	0.2– 0.0	1999 01 16	704	0.4– 0.0	2000 03 07	046	0.5– 0.4–
1998 12 15	046	0.2– 0.1–	1999 01 16	704	1.8+ 0.2–	2000 03 08	704	0.6+ 0.1–
1998 12 15	046	0.1– 0.1–	1999 01 16	704	(1.4+ 2.5+)	2000 03 08	704	0.3– 0.2–
1998 12 15	046	0.1– 0.0	1999 01 19	704	0.2+ 0.6+	2000 03 08	704	0.3+ 0.0
1998 12 15	046	0.2– 0.1–	1999 01 19	704	0.7+ 0.4+	2000 03 08	704	0.4– 0.4–
1998 12 15	046	0.1– 0.1–	1999 01 19	704	1.5+ 0.4+	2000 03 08	704	0.8– 0.1+
1998 12 16	046	0.1– 0.1–	1999 01 19	704	0.3– 0.9+	2000 03 14	046	0.2+ 0.2–
1998 12 17	046	0.1– 0.0	1999 01 20	704	(0.5+ 2.7–)	2000 03 14	046	0.1+ 0.3–
1998 12 17	046	0.1– 0.0	1999 01 20	704	0.9+ 0.1+	2000 03 14	046	0.2+ 0.4–
1998 12 17	046	0.4– 0.1–	1999 01 20	704	0.3+ 1.0–	2000 03 14	046	0.0 0.2–
1998 12 17	046	0.0 0.3–	1999 01 20	704	0.6– 0.5–			

(14191)* 1998 XR₂₈ = 1986 GT₂ = 1987 RV₄ = 1987 SR₃₀

Discovered 1998 Dec. 14 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. A. Doppler (*MPC* 34933), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	323.74953		(2000.0)	P	Q
<i>n</i>	0.28389446	ω	337.00460	−0.60645630	+0.78933599
<i>a</i>	2.2927926	Ω	255.52810	−0.71328531	−0.59327120
<i>e</i>	0.1259025	<i>i</i>	5.67245	−0.35133293	−0.15804424
<i>P</i>	3.47	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1986 04 04	095	1.1+ 0.7+	1998 11 24	704	0.0 0.6–	1999 01 05	699	0.2+ 0.5+
1987 09 02	095	1.4– 1.4+	1998 11 24	704	0.7+ 0.4–	1999 01 05	699	0.0 0.0
1987 09 17	095	0.4– 1.7–	1998 11 25	699	0.2+ 0.7+	1999 01 05	699	0.0 0.1+
1997 07 07	910	0.5+ 0.3+	1998 11 25	699	0.2+ 0.2+	1999 01 22	699	0.4– 0.7+
1997 07 08	910	0.4+ 0.2+	1998 11 25	699	0.4– 0.5–	1999 01 22	699	1.2+ 0.9–
1997 07 08	910	0.4+ 0.3+	1998 12 11	699	0.4– 0.8+	1999 01 22	699	0.8– 0.4+
1998 08 31	704	1.6– 1.8+	1998 12 11	699	0.7+ 0.3+	1999 02 10	691	0.8– 0.1+
1998 08 31	704	0.5– 0.0	1998 12 11	699	0.3+ 0.2–	1999 02 10	691	0.8– 0.2–
1998 08 31	704	0.1+ 0.6–	1998 12 14	704	0.4– 0.4+	1999 02 10	691	0.4– 1.5+
1998 08 31	704	1.1– 2.0–	1998 12 14	704	0.0 0.0	2000 01 28	704	0.4+ 0.2+
1998 11 20	699	0.4+ 0.7+	1998 12 14	704	0.4+ 1.5+	2000 01 28	704	0.4+ 0.5+
1998 11 20	699	0.3+ 1.0+	1998 12 14	704	0.6+ 0.9+	2000 01 28	704	0.5+ 0.8+
1998 11 20	699	0.5+ 0.8+	1998 12 14	704	0.6– 1.1+	2000 01 28	704	0.5+ 0.5–
1998 11 21	704	0.5+ 0.2+	1998 12 17	704	0.0 0.1+	2000 02 02	704	0.5– 0.6+
1998 11 21	704	0.6+ 0.7–	1998 12 17	704	0.0 0.6–	2000 02 02	704	0.3+ 0.1–
1998 11 21	704	0.2+ 1.4–	1998 12 17	704	1.0+ 1.1–	2000 02 02	704	0.2– 0.3+
1998 11 21	704	(3.5+ 0.4–)	1998 12 17	704	(2.2+ 0.7–)	2000 03 14	704	0.2+ 0.0
1998 11 21	704	1.2– 1.8–	1998 12 17	704	0.4+ 0.9–	2000 03 14	704	0.4– 0.3–
1998 11 24	704	0.0 0.1+	1999 01 04	327	(2.2+ 1.5+)	2000 03 14	704	0.4– 0.8–
1998 11 24	704	0.2– 0.7–	1999 01 04	327	0.4– 0.3–	2000 03 14	704	0.3– 0.6–
1998 11 24	704	1.1+ 1.0–	1999 01 04	327	0.4– 0.1+	2000 03 14	704	1.7– 0.4–

(14192)* 1998 XA₃₃ = 1982 SZ₉ = 1987 SO₂₇

Discovered 1998 Dec. 14 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. S. Nakano (*MPC* 33714)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	133.75447		(2000.0)	P	Q
<i>n</i>	0.19123848	ω	18.60485	+0.94916598	−0.31477505
<i>a</i>	2.9836820	Ω	359.73860	+0.26297427	+0.79431341
<i>e</i>	0.1132099	<i>i</i>	9.76615	+0.17299846	+0.51959876
<i>P</i>	5.15	<i>H</i>	12.8	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1982 09 21	095	1.3– 2.2+	1999 12 05	704	1.0+ 2.1–	2000 02 28	106	0.6+ 0.6+
1987 09 24	095	0.2– 0.1+	1999 12 05	704	1.0– 0.5–	2000 03 03	608	0.4– 0.4–
1997 09 02	566	0.3– 0.6+	1999 12 05	704	0.1+ 0.2–	2000 03 03	608	0.3+ 1.6–
1997 09 02	566	0.3– 0.6+	1999 12 05	704	0.8+ 0.3–	2000 03 03	608	0.2– 0.0
1997 09 02	566	0.1– 0.4+	2000 02 04	704	0.2+ 0.6+	2000 03 05	704	0.1– 0.1+
1998 11 16	704	0.4+ 0.4–	2000 02 04	704	0.9+ 0.2+	2000 03 05	704	0.1+ 0.1+
1998 11 16	704	0.4– 1.3–	2000 02 04	704	0.0 0.5+	2000 03 05	704	0.5– 0.2–
1998 11 16	704	(2.4+ 1.2–)	2000 02 04	704	0.3+ 0.7–	2000 03 05	704	0.2– 0.0
1998 11 16	704	0.8– 0.6–	2000 02 04	704	0.1– 0.6+	2000 03 05	704	0.2– 0.3–
1998 12 14	704	0.6– 0.1+	2000 02 11	704	0.7+ 0.1+	2000 03 08	704	1.0+ 0.2+
1998 12 14	704	0.1– 0.4+	2000 02 11	704	0.4+ 0.2+	2000 03 08	704	0.0 0.1+
1998 12 14	704	0.9– 0.4+	2000 02 11	704	0.9+ 0.7+	2000 03 08	704	0.1+ 0.2–
1998 12 14	704	0.6+ 0.4+	2000 02 11	704	0.6+ 0.8+	2000 03 08	704	0.3+ 0.5+
1998 12 14	704	0.4+ 1.1–	2000 02 11	704	0.0 0.2+	2000 03 08	704	0.2+ 1.2+
1998 12 17	704	0.6– 0.0	2000 02 14	012	0.0 0.3+	2000 03 09	704	0.1+ 0.1+
1998 12 17	704	0.2+ 0.4–	2000 02 14	012	0.3– 0.0	2000 03 09	704	0.2– 0.1+
1998 12 17	704	0.0 1.1–	2000 02 14	012	1.0– 0.3+	2000 03 09	704	0.3– 0.0
1998 12 17	704	0.3+ 0.8–	2000 02 14	012	0.6+ 0.0	2000 03 09	704	0.0 0.5+
1998 12 17	704	1.2+ 0.6–	2000 02 14	012	0.3+ 0.7–	2000 03 09	704	0.3– 0.1+
1999 01 03	411	0.7+ 0.7+	2000 02 26	703	0.2– 0.8+	2000 03 12	704	0.1– 0.1+
1999 01 03	411	0.1– 0.0	2000 02 26	703	0.5– 0.4+	2000 03 12	704	0.1– 0.5–
1999 01 08	704	0.3– 1.9+	2000 02 26	703	0.2– 1.0+	2000 03 12	704	0.2– 0.5–
1999 01 08	704	0.2+ 0.1+	2000 02 26	703	0.2– 0.6+	2000 03 12	704	0.8– 0.5–
1999 01 08	704	1.3+ 1.4+	2000 02 28	106	0.1– 0.4+	2000 03 12	704	0.1– 0.7–
1999 01 08	704	1.8– 0.2+	2000 02 28	106	0.2+ 0.7+			

(14193)* 1

2000 MAR. 20

M.P.C. 39107

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	121.93319		(2000.0)	P			Q		
<i>n</i>	0.17787631	ω	7.07370	+0.91771483			−0.39522069		
<i>a</i>	3.1312950	Ω	16.38263	+0.35716086			+0.77685051		
<i>e</i>	0.2113667	<i>i</i>	8.15336	+0.17388392			+0.49020801		
<i>P</i>	5.54	<i>H</i>	12.8	<i>G</i>	0.15		<i>U</i>	1	
Residuals in seconds of arc									
1981 11 24	095	(7.1+ 1.0+)	1998 12 17	704	0.7+	0.6−	2000 02 11	704	0.2− 0.4−
1992 11 16	399	0.6− 0.6+	1998 12 17	704	0.3−	0.6−	2000 02 11	704	0.3− 0.1−
1992 11 16	399	0.2− 0.9+	1999 01 16	704	0.2+	0.4−	2000 02 11	704	0.7− 0.0
1992 11 18	399	0.9− 0.2−	1999 01 16	704	1.3+	0.3−	2000 03 02	703	0.9+ 0.1−
1992 11 18	399	0.7+ 0.7+	1999 01 16	704	1.6−	0.4+	2000 03 02	703	0.4− 0.9+
1995 04 06	691	0.5− 0.2−	1999 01 16	704	0.1−	1.3+	2000 03 02	703	0.4− 0.2+
1995 04 06	691	0.3− 0.4−	1999 01 19	704	0.1−	0.4−	2000 03 02	703	0.8+ 0.4+
1995 04 06	691	0.1− 0.4−	1999 01 19	704	0.5−	1.6+	2000 03 05	704	0.2+ 0.5+
1997 08 30	566	0.1− 0.5+	1999 01 19	704	0.8−	0.8−	2000 03 05	704	0.3+ 0.1+
1997 08 30	566	0.3− 0.5+	1999 01 19	704	1.3−	0.6−	2000 03 05	704	0.0 0.5+
1997 08 30	566	0.1− 0.2+	1999 01 19	704	0.8−	0.1+	2000 03 05	704	0.1− 0.3+
1998 12 14	704	0.3+ 0.5−	2000 02 04	704	0.1+	0.1−	2000 03 05	704	0.2+ 0.1+
1998 12 14	704	(2.5+ 0.6−)	2000 02 04	704	0.0	0.0	2000 03 12	704	0.0 0.4+
1998 12 14	704	0.5+ 0.7+	2000 02 04	704	0.4+	0.9−	2000 03 12	704	0.2+ 0.2+
1998 12 14	704	0.3+ 1.1+	2000 02 04	704	0.8+	0.5−	2000 03 12	704	0.5+ 0.7+
1998 12 17	704	0.7+ 0.2−	2000 02 04	704	0.2+	0.5+	2000 03 12	704	0.3+ 0.4+
1998 12 17	704	0.2+ 1.3−	2000 02 11	704	0.1+	0.2+	2000 03 12	704	0.2+ 0.3+
1998 12 17	704	0.6+ 1.6−	2000 02 11	704	0.3−	0.0			

(14194)* 1998 XU₅₀ = 1981 QH₄ = 1986 RN₃ = 1991 PX₂₀

Discovered 1998 Dec. 14 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 33716)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	315.55036		(2000.0)			P		Q		
<i>n</i>	0.19798127	ω	308.27583			−0.34085510		+0.93403595		
<i>a</i>	2.9155465	Ω	301.47400			−0.81873210		−0.35073175		
<i>e</i>	0.2260564	<i>i</i>	7.18997			−0.46205578		−0.06755802		
<i>P</i>	4.98	<i>H</i>	12.5		<i>G</i>	0.15		<i>U</i>	2	
Residuals in seconds of arc										
1981 08 30	675	0.1−	0.9+	1998 12 17	704	0.2−	0.9+	2000 02 02	704	0.3− 1.3+
1981 08 31	675	0.2−	0.0	1998 12 17	704	0.4−	0.3+	2000 02 02	704	0.4− 0.8+
1986 09 06	071	0.3+	0.9−	1998 12 17	704	0.2+	0.1+	2000 02 02	704	0.0 0.1−
1986 09 06	071	1.1−	1.8+	1998 12 17	704	1.6−	0.3−	2000 02 07	106	0.7− 0.0
1986 09 07	071	(0.7−	3.1+)	1998 12 17	704	0.7−	1.6−	2000 02 07	106	0.2− 0.1−
1986 09 07	071	(2.5+	4.1+)	1999 01 16	704	0.1+	0.9+	2000 02 07	106	0.2− 0.3−
1991 08 08	675	0.5+	0.9−	1999 01 16	704	0.6−	0.3−	2000 03 14	704	0.6+ 0.1+
1991 08 08	675	0.2+	0.6−	1999 01 16	704	0.8−	0.8−	2000 03 14	704	0.6+ 0.3−
1998 12 14	704	0.7−	1.0+	1999 01 16	704	0.9+	0.2−	2000 03 14	704	0.2− 0.3−
1998 12 14	704	0.5+	0.1+	1999 01 19	704	0.8+	0.2−	2000 03 14	704	0.5+ 0.0
1998 12 14	704	0.6−	0.4−	1999 01 19	704	1.1+	0.1+	2000 03 14	704	0.1− 0.5−
1998 12 14	704	0.4−	0.9−	1999 01 19	704	1.2+	0.5+			
1998 12 14	704	(2.2−	1.2−)	1999 01 19	704	1.0+	1.2+			

(14195)* 1998 XD₅₁ = 1996 TR₅₀

Discovered 1998 Dec. 14 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 33717)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	12.49248		(2000.0)	P	Q				
<i>n</i>	0.12487613	ω	196.66425	−0.90596201	−0.41380130				
<i>a</i>	3.9641472	Ω	318.52547	+0.40220168	−0.77529783				
<i>e</i>	0.1304571	<i>i</i>	7.76223	+0.13216144	−0.47716010				
<i>P</i>	7.89	<i>H</i>	11.9	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1992 03 09	809	0.2−	0.4−	1999 01 19	704	0.4−	0.4+	2000 02 07	704	0.3−	0.5−
1996 10 04	809	(1.3+	2.3+)	1999 01 19	704	0.4−	0.4+	2000 02 07	704	0.9−	0.1−
1996 10 04	809	0.1+	1.4+	1999 04 06	704	1.6+	0.9−	2000 02 07	704	0.3+	0.6−
1996 10 04	809	0.1+	1.8+	1999 04 06	704	(2.1+	1.0+)	2000 02 07	704	0.4+	1.5−
1996 10 05	809	0.7−	1.4+	1999 04 06	704	0.6+	0.3+	2000 02 07	704	1.2−	0.3−
1996 10 05	809	1.1−	1.0+	1999 04 06	704	1.3−	0.8+	2000 02 08	704	1.0+	0.7+
1996 10 05	809	1.6−	0.4+	1999 11 05	703	1.7+	1.0−	2000 02 08	704	1.4+	0.1+
1998 12 14	699	0.4+	0.6+	1999 11 05	703	0.8−	0.2−	2000 02 08	704	0.9+	0.2+
1998 12 14	699	0.1−	0.4+	1999 11 05	703	0.3−	1.0+	2000 02 08	704	0.4+	0.4−
1998 12 14	699	0.3−	0.6+	1999 11 05	703	1.0+	0.1+	2000 02 08	704	0.4−	0.6−
1998 12 14	704	0.2−	0.4+	1999 12 09	703	0.7+	0.6+	2000 03 01	703	0.3+	0.6+
1998 12 14	704	0.9−	0.4−	1999 12 09	703	0.8+	0.8+	2000 03 01	703	0.0	0.6+
1998 12 14	704	0.6−	0.5−	1999 12 09	703	0.7+	0.1+	2000 03 01	703	0.3+	0.6+
1998 12 14	704	0.2−	0.7−	1999 12 09	703	0.2+	0.3+	2000 03 01	703	0.1−	0.5+
1998 12 14	704	0.8+	0.2+	2000 01 05	704	0.2−	0.9−	2000 03 08	704	0.4+	0.6+
1998 12 17	704	0.4+	0.0	2000 01 05	704	0.2+	0.0	2000 03 08	704	0.2+	0.6+
1998 12 17	704	0.9+	0.7−	2000 01 05	704	0.2−	0.5+	2000 03 08	704	0.8+	0.6+
1998 12 17	704	0.3+	0.5+	2000 01 05	704	0.2−	0.8−	2000 03 08	704	0.3+	0.9+
1999 01 16	704	0.1+	0.9−	2000 02 02	704	0.6+	0.8+	2000 03 08	704	0.1−	1.1+
1999 01 16	704	0.2+	1.1−	2000 02 02	704	1.4+	0.7+	2000 03 13	704	1.4−	0.1−
1999 01 16	704	0.3+	1.9−	2000 02 02	704	0.2+	1.4+	2000 03 13	704	1.0−	0.2−
1999 01 16	704	0.4−	0.4−	2000 02 02	704	0.5−	0.2+	2000 03 13	704	1.1−	0.0
1999 01 19	704	0.1+	1.1+	2000 02 07	106	0.0	0.4+	2000 03 13	704	0.5−	0.2+
1999 01 19	704	1.7−	0.4−	2000 02 07	106	0.4+	0.5+	2000 03 13	704	1.0−	1.0−
1999 01 19	704	0.1+	0.1+	2000 02 07	106	1.0+	0.1+				

(14196)* 1998 XH₅₉ = 1987 QY₁₁ = 1990 HS

Discovered 1998 Dec. 15 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 33719)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	256.36332		(2000.0)	P				Q			
<i>n</i>	0.28909104	ω	185.66886			+0.49892151			+0.85891216		
<i>a</i>	2.2652334	Ω	114.30784			−0.79006924			+0.50556491		
<i>e</i>	0.2188275	<i>i</i>	7.28291			−0.35618523			+0.08169475		
<i>P</i>	3.41	<i>H</i>	13.4			<i>G</i>	0.15			<i>U</i>	2
Residuals in seconds of arc											
1987 08 27	095	0.8+	1.4+	1999 01 18	704	0.3+	0.8−	2000 02 11	704	0.3+	0.1+
1990 04 29	385	1.5−	1.7−	1999 01 18	704	1.2−	0.4−	2000 02 11	704	0.1+	0.5+
1990 04 29	385	1.4+	1.1+	1999 01 18	704	1.6+	1.2+	2000 02 14	106	0.1+	0.2+
1990 04 29	898	(2.9+	1.9−)	1999 01 18	704	1.5−	1.7−	2000 02 14	106	0.3+	0.1−
1990 04 29	898	(2.3+	0.7−)	1999 01 18	704	0.9−	0.1+	2000 02 14	106	0.4−	0.2−
1990 04 30	385	0.9−	1.0+	2000 01 08	704	0.3+	0.9+	2000 02 29	704	0.3+	0.2+
1990 04 30	385	1.3−	1.7−	2000 01 08	704	0.5+	1.0+	2000 02 29	704	0.5+	0.2+
1997 04 16	704	1.7−	1.4+	2000 01 08	704	0.8+	0.2−	2000 02 29	704	0.7+	0.5+
1997 04 16	704	0.6+	0.4+	2000 01 08	704	0.2−	0.3−	2000 02 29	704	0.7+	0.3+
1998 12 15	704	0.4−	0.5−	2000 01 08	704	1.4+	0.3+	2000 02 29	704	0.5+	0.5−
1998 12 15	704	0.9−	0.1+	2000 02 05	704	0.4+	0.2+	2000 03 08	903	0.3+	1.3−
1998 12 15	704	0.3−	0.8+	2000 02 05	704	0.3+	0.6+	2000 03 08	903	0.9+	0.4−
1998 12 15	704	0.2+	0.0	2000 02 05	704	0.3−	0.3+	2000 03 12	703	0.0	0.0
1998 12 16	704	0.5−	0.8−	2000 02 05	704	0.1+	1.4+	2000 03 12	703	0.1−	0.0
1998 12 16	704	1.3+	0.5−	2000 02 06	704	0.1−	0.3−	2000 03 12	703	0.1+	0.0
1998 12 16	704	1.6+	1.3+	2000 02 06	704	0.1−	0.4+	2000 03 12	703	0.2+	0.2+
1998 12 16	704	(0.4−	2.8+)	2000 02 06	704	0.5+	0.1−	2000 03 12	704	0.6−	0.2−
1999 01 10	747	0.4−	0.5−	2000 02 06	704	0.2−	0.4−	2000 03 12	704	0.5−	0.3−
1999 01 10	747	0.5−	0.1+	2000 02 06	704	0.5+	0.9+	2000 03 12	704	1.1−	0.8−
1999 01 10	747	0.3−	0.3+	2000 02 11	704	0.3+	0.3−	2000 03 12	704	1.2−	1.2−
1999 01 11	747	0.0	0.1+	2000 02 11	704	0.2+	0.4+				
1999 01 11	747	0.2−	0.3+	2000 02 11	704	0.2+	0.1+				

Id. A. Doppler (*MPC* 34227)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18626831	ω	8.66562	+0.82080536	−0.57111981		
<i>a</i>	3.0365241	Ω	26.17061	+0.52269990	+0.74389970		
<i>e</i>	0.1420708	<i>i</i>	1.30386	+0.23035488	+0.34703803		
<i>P</i>	5.29	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1976 09 25	095	0.2−	1.0+	1999 01 19	704	0.3+	0.2−
1977 12 10	801	0.2−	0.3+	1999 01 19	704	0.5+	0.8−
1997 09 02	566	0.4−	0.5+	1999 01 19	704	1.2−	0.2+
1997 09 02	566	0.6−	0.2+	1999 01 19	704	1.2+	0.2−
1997 09 02	566	0.5−	0.5+	1999 01 19	704	0.7+	0.6−
1997 09 26	910	0.1+	0.2+	1999 01 19	704	0.3+	0.4+
1997 09 26	910	0.4+	0.1+	1999 01 19	704	(1.8−	3.5−)
1997 09 27	910	0.2+	0.0	1999 01 19	704	0.3−	1.5+
1998 12 14	704	1.5−	0.5+	1999 01 19	704	1.3+	0.6−
1998 12 14	704	1.3+	0.4−	1999 01 19	704	0.2+	0.2+
1998 12 14	704	0.4−	0.2+	1999 01 19	704	1.3+	0.2+
1998 12 14	704	0.9−	0.6+	1999 01 19	704	0.9−	0.3+
1998 12 14	704	0.4+	0.3+	1999 01 19	046	0.0	0.1+
1998 12 17	704	(1.2−	3.3−)	1999 01 19	046	0.1−	0.3+
1998 12 17	704	0.5−	0.2−	1999 01 19	046	0.1−	0.2+
1998 12 17	704	0.3−	0.5−	1999 01 19	046	0.3−	0.1+
1998 12 17	704	0.0	0.6−	1999 01 20	046	0.1−	0.1+
1998 12 17	704	0.4+	0.4+	1999 01 20	046	0.0	0.1+
1999 01 16	704	0.2+	1.9−	1999 01 20	046	0.2−	0.2+
1999 01 16	704	0.8−	0.5+	2000 02 02	703	1.0+	1.1+
1999 01 16	704	0.8+	0.5+	2000 02 02	703	1.0−	0.1+
1999 01 18	046	0.1−	0.3+	2000 02 02	703	0.5+	0.0
1999 01 18	046	0.1−	0.3−	2000 02 02	703	0.9+	1.4+
1999 01 18	046	0.2−	0.4+	2000 02 06	704	0.6−	0.2+
1999 01 18	046	0.2−	0.1−	2000 02 06	704	0.4+	0.2−
1999 01 18	046	0.1−	0.3+	2000 02 06	704	0.5+	0.1+
1999 01 19	704	0.1−	1.0−	2000 02 06	704	0.7+	0.9−

(14198)* 1998 XZ₇₃ = 1970 PV = 1977 DQ₁ = 1979 QC₆ = 1999 BC₁₇

Discovered 1998 Dec. 14 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 33973), A. Doppler (d, *ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21868075	ω	7.80526	+0.99986725	−0.00571720		
<i>a</i>	2.7285317	Ω	352.47170	−0.00269657	+0.86544451		
<i>e</i>	0.1393672	<i>i</i>	6.68772	+0.01606910	+0.50097217		
<i>P</i>	4.51	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1970 08 10	095	1.1+	1.9−	1999 01 16	704	0.3−	1.3+
1970 08 28	095	(2.8+	2.6−)	1999 01 16	704	0.0	1.5+
1977 02 18	381	1.2−	0.7−	1999 01 19	704	1.2−	0.0
1977 02 18	381	1.0+	0.8−	1999 01 19	704	0.9+	0.6+
1977 02 19	381	0.1+	0.3+	1999 01 19	704	0.0	1.5+
1977 02 19	381	0.6−	0.2−	1999 01 19	704	0.4−	0.6+
1979 08 19	095	(3.1−	2.4−)	1999 04 06	704	1.0+	0.3−
1998 12 14	704	0.5−	0.7−	1999 04 06	704	1.0−	0.1−
1998 12 14	704	0.7−	0.8−	1999 04 06	704	(0.9−	2.3−)
1998 12 14	704	0.2+	1.6−	1999 04 06	704	0.7−	0.1+
1998 12 14	704	0.5−	1.6−	2000 01 11	699	0.8+	0.1+
1998 12 14	704	0.4+	0.7−	2000 01 11	699	0.2+	0.1−
1998 12 17	704	0.6+	0.4−	2000 01 11	699	0.4−	0.3−
1998 12 17	704	0.6+	0.1−	2000 02 08	704	1.3+	0.3−
1998 12 17	704	0.3+	0.7−	2000 02 08	704	0.8+	0.4+
1998 12 17	704	(1.3+	3.0−)	2000 02 08	704	0.6+	1.4−
				2000 03 11	704	0.1+	0.6+

1998 12 17	704	1.3+	0.7−	2000 02 08	704	0.5+	1.0−	2000 03 14	608	0.3−	1.3−
1999 01 16	704	0.2−	0.1+	2000 02 08	704	0.0	1.0−	2000 03 14	608	0.3+	0.4−
1999 01 16	704	0.8−	1.6+	2000 02 25	691	0.7−	0.7−	2000 03 14	608	0.3−	1.6−

(14199)* 1998 XV₇₇ = 1987 YA₆

Discovered 1998 Dec. 15 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Gnädig (*MPC* 34935), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26097426	ω	286.35024	+0.92380825	−0.30747342		
<i>a</i>	2.4251444	Ω	92.00457	+0.37522695	+0.84548349		
<i>e</i>	0.2074530	<i>i</i>	13.19459	−0.07604641	+0.43659795		
<i>P</i>	3.78	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1987 12 24	010	1.3−	1.0−	1998 12 22	704	0.0	0.2−
1987 12 24	010	0.5+	1.4−	1998 12 22	704	0.7+	0.3−
1987 12 24	010	0.2+	0.6+	1998 12 22	704	0.9+	0.7−
1989 03 30	675	(3.0−	1.6+)	1998 12 22	704	0.6+	0.6−
1989 03 30	675	0.9+	1.1−	1998 12 25	910	1.8+	0.4−
1989 04 09	675	1.2−	0.6+	1998 12 26	910	1.8+	0.5−
1989 04 09	675	1.4+	1.0−	1998 12 26	910	1.9+	0.5−
1990 10 10	413	0.1−	0.5+	1999 01 07	704	0.1+	0.5−
1990 10 10	413	0.5−	0.2−	1999 01 07	704	1.2+	0.9+
1998 12 15	704	1.4−	0.2−	1999 01 07	704	0.5−	0.5+
1998 12 15	704	1.6−	0.7+	1999 01 07	704	0.3+	0.1+
1998 12 15	704	1.3−	1.3+	1999 01 11	704	0.2−	0.2+
1998 12 15	704	0.8−	1.0+	1999 01 11	704	0.3−	0.2−
1998 12 15	704	0.5−	0.8+	1999 01 11	704	0.5−	0.9−
1998 12 22	704	0.3−	0.1−	1999 01 11	704	(3.2−	1.4−)

(14200)* 1998 XY₇₇ = 1990 TW₁₄ = 1994 XE₂ = 1996 FS₈

Discovered 1998 Dec. 15 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 34227)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25634049	ω	273.84397	+0.26334227	−0.96396593		
<i>a</i>	2.4542826	Ω	160.75937	+0.92427552	+0.24092247		
<i>e</i>	0.0758597	<i>i</i>	6.56746	+0.27634328	+0.11280982		
<i>P</i>	3.84	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1990 10 12	413	0.6−	0.6−	1998 11 13	704	0.8−	0.5−
1990 10 12	413	1.2+	1.2+	1998 12 15	704	0.2−	0.5−
1994 12 01	691	0.2−	0.0	1998 12 15	704	0.2+	0.3+
1994 12 01	691	0.4−	0.1−	1998 12 15	704	1.7−	0.0
1994 12 01	691	0.2−	0.1−	1998 12 15	704	0.9−	1.0+
1994 12 02	691	0.5−	0.0	1998 12 15	704	1.0−	0.2+
1994 12 02	691	0.2−	0.1−	1998 12 22	704	0.1+	0.1−
1994 12 02	691	0.1−	0.0	1998 12 22	704	1.5+	0.3+
1996 03 19	691	0.3−	0.9−	1998 12 22	704	0.1+	0.6+
1996 03 19	691	0.2−	0.6−	1998 12 22	704	0.9+	0.8−
1996 03 19	691	0.1−	0.9−	1998 12 22	704	0.3−	1.0−
1996 03 23	691	0.0	0.8−	1999 01 10	699	0.2+	0.3+
1996 03 23	691	0.4−	0.7−	1999 01 10	699	0.5+	0.4+
1996 03 23	691	0.3−	0.6−	1999 01 10	699	0.1+	0.3+
1998 11 13	704	0.3+	0.5+	1999 01 23	699	0.4−	0.2−
1998 11 13	704	0.5−	0.8+	1999 01 23	699	0.0	0.3−
1998 11 13	704	1.4+	0.2−	1999 01 23	699	0.1−	0.1−
1998 11 13	704	0.9+	0.5−	1999 02 04	704	0.7+	0.2+
				2000 03 14	703	0.3−	0.1+

(14201)* 1998 XR₉₂ = 1975 NH = 1989 UN₆ = 1992 LO₁

Discovered 1998 Dec. 15 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33720)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		257.35595		(2000.0)		P		Q	
<i>n</i>		0.23038362	ω	57.93433		+0.38266239		+0.90744196	
<i>a</i>		2.6353299	Ω	235.53861		-0.90265565		+0.32717273	
<i>e</i>		0.1584021	<i>i</i>	12.15082		-0.19693217		+0.26364199	
<i>P</i>		4.28	<i>H</i>	12.7		<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc									
1975 07 08	095	0.1-	0.3+	1998 12 15	704	0.5+	0.6+	2000 01 11	704 (0.7+ 4.0+)
1989 10 26	033	0.2-	0.2+	1998 12 15	704	1.1+	0.1-	2000 01 11	704 0.6+ 0.6+
1989 10 26	033	0.3+	0.0	1998 12 22	704	0.7-	0.4-	2000 01 11	704 0.9+ 1.3+
1992 05 03	809	0.3-	1.2-	1998 12 22	704	0.3-	0.2-	2000 01 11	704 0.4+ 1.4+
1992 05 03	809	0.1+	1.5-	1998 12 22	704	0.7-	0.5-	2000 01 11	704 1.5+ 0.9+
1992 05 03	809	0.3+	1.5-	1998 12 22	704	0.5-	0.3-	2000 02 28	106 0.1- 0.8+
1992 06 03	809	0.7+	0.7+	1998 12 22	704	0.4-	0.5+	2000 02 28	106 1.5- 0.3+
1992 06 03	809	0.1-	0.7+	1999 01 18	704	0.5+	0.8-	2000 03 13	704 0.2- 0.3-
1992 06 03	809	0.7-	0.5+	1999 01 18	704	1.9-	0.9+	2000 03 13	704 0.2- 0.5-
1992 06 09	809 (3.8+ 2.3-)			1999 01 18	704	0.3+	0.8+	2000 03 13	704 0.2+ 0.7-
1992 06 09	809 (3.4+ 1.0-)			1999 01 20	704	0.0	1.7-	2000 03 13	704 0.3- 0.0
1992 06 09	809 (3.7+ 1.7-)			1999 01 20	704	1.3-	1.0-	2000 03 13	704 0.0 0.3-
1993 10 13	095	1.4+	0.1+	1999 01 20	704	0.1-	0.1-	2000 03 14	704 0.2+ 0.4-
1993 10 14	095 (0.5+ 3.4+)			1999 01 20	704	0.5+	0.4+	2000 03 14	704 0.6- 0.3-
1997 12 25	566	0.2-	0.1+	2000 01 10	704	0.8+	0.4+	2000 03 14	704 0.3- 0.4-
1997 12 25	566	0.5-	0.0	2000 01 10	704	1.0+	0.4+	2000 03 14	704 0.6- 0.5-
1997 12 25	566	0.5-	0.5+	2000 01 10	704	0.5+	0.3+	2000 03 14	704 0.6- 0.7-
1998 12 15	704	0.3-	0.2-	2000 01 10	704	0.4+	1.4+		
1998 12 15	704	0.9+	1.7-	2000 01 10	704	1.3+	0.8+		

(14202)* 1998 YF₃ = 1956 UC = 1981 UL₁₂ = 1993 PB₃

Discovered 1998 Dec. 17 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 33532)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		181.84126		(2000.0)		P		Q	
<i>n</i>		0.23764322	ω	72.38022		+0.99444278		-0.00334846	
<i>a</i>		2.5813829	Ω	287.71053		-0.04205196		+0.90366373	
<i>e</i>		0.2153537	<i>i</i>	6.34186		+0.09651523		+0.42822968	
<i>P</i>		4.15	<i>H</i>	13.4		<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc									
1956 10 28	760	0.6-	2.0+	1998 12 14	704	0.5+	0.1-	1999 01 16	411 0.4+ 1.3+
1956 10 28	760	0.5-	1.2+	1998 12 17	704	0.0	0.8-	1999 01 19	704 0.8- 0.8-
1981 10 22	095 (4.8+ 5.2+)			1998 12 17	704	0.3-	1.0-	1999 01 19	704 (0.7+ 2.4+)
1981 10 24	095 (1.9+ 4.4+)			1998 12 17	704	0.6+	0.7-	1999 01 19	704 0.3- 0.0
1993 08 14	010	0.2+	0.2+	1998 12 17	704	0.4-	0.4-	1999 01 19	704 1.4- 1.0+
1993 08 14	010	0.7-	0.3+	1998 12 17	704	1.0-	0.0	2000 01 10	704 0.8- 0.5+
1993 08 14	010	0.9-	0.7+	1998 12 17	411	0.3-	0.0	2000 01 10	704 0.2- 0.8-
1993 08 15	010	1.8-	0.9+	1998 12 17	411	1.0-	1.0+	2000 01 10	704 0.4+ 0.8-
1993 08 18	010 (2.5+ 0.5+)			1998 12 18	411	0.4-	0.4-	2000 03 09	704 0.3+ 0.4+
1993 08 18	010	1.2+	0.5+	1998 12 18	411	0.2-	0.4+	2000 03 09	704 1.0- 0.2-
1993 08 18	010	0.7+	1.1+	1998 12 26	411	0.5+	0.4-	2000 03 09	704 1.6+ 1.0+
1998 11 14	699	0.1+	1.0+	1998 12 26	411	0.1+	0.1+	2000 03 13	704 0.6+ 1.7+
1998 11 14	699	0.0	0.9+	1999 01 05	411	0.7+	0.2+	2000 03 13	704 0.2+ 0.6+
1998 11 14	699	0.1+	1.3+	1999 01 05	411	0.2+	0.4-	2000 03 13	704 0.5+ 0.6+
1998 11 25	699	1.4+	0.6-	1999 01 16	704	0.3+	0.1+	2000 03 13	704 0.4+ 0.6+
1998 11 25	699	0.3+	0.3-	1999 01 16	704	0.5+	1.0+	2000 03 13	704 0.0 0.5+
1998 11 25	699	0.9+	0.1-	1999 01 16	704	0.1-	1.0-	2000 03 15	704 0.3- 1.7+
1998 12 14	704	0.2+	0.7-	1999 01 16	704	0.4+	0.9+	2000 03 15	704 0.7+ 0.4-
1998 12 14	704	0.1-	0.9-	1999 01 16	704	0.2+	0.7+	2000 03 15	704 0.9+ 1.0+
1998 12 14	704	0.3+	0.6-	1999 01 16	411	0.9-	0.8+		

(14203)* 1998 YT₂₀ = 1953 PM₁ = 1996 NJ₄

Discovered 1998 Dec. 25 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 33976)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		261.01805		(2000.0)		P		Q	
<i>n</i>		0.18391273	ω	345.68878		+0.41055539		+0.90264517	
<i>a</i>		3.0623973	Ω	308.38470		-0.81955960		+0.30320823	
<i>e</i>		0.1163763	<i>i</i>	9.48231		-0.39970781		+0.30544469	
<i>P</i>		5.36	<i>H</i>	12.8		<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc									
1953 08 15	675	0.2-	0.6-	1998 12 25	691	0.5-	0.0	1999 02 13	704 0.1+ 1.8-
1953 08 15	675	0.1+	0.6+	1998 12 25	691	0.5-	0.2-	1999 02 13	704 0.6- 0.2+
1994 02 10	691	0.0	0.6-	1998 12 28	691	0.4-	0.1-	1999 02 23	699 0.5+ 0.3+
1994 02 10	691	0.0	0.4-	1998 12 28	691	0.3-	0.0	1999 02 23	699 0.2+ 1.8+
1994 02 10	691	0.1+	0.2-	1998 12 28	691	0.4-	0.0	1999 02 23	699 1.0+ 0.4+
1996 07 14	809	1.3+	0.8-	1999 01 10	691	0.2+	0.2-	2000 01 10	704 0.3+ 0.5-
1996 07 14	809	0.8+	0.7-	1999 01 10	691	0.4+	0.0	2000 01 10	704 0.3- 1.2+
1996 07 14	809	0.3+	0.2-	1999 01 10	691	0.1+	0.0	2000 01 10	704 1.4- 0.3+
1996 07 16	809	0.2-	0.3+	1999 01 19	704	0.9+	0.6+	2000 01 10	704 0.1+ 0.1+
1996 07 16	809	0.4+	0.1+	1999 01 19	704	0.6+	0.0	2000 01 10	704 1.0- 0.3-
1996 07 16	809	0.6-	0.0	1999 01 19	704	1.0-	1.2+	2000 03 09	704 0.3- 0.4+
1997 10 30	566	0.9-	0.3+	1999 01 19	704	0.1-	0.4+	2000 03 09	704 0.1- 0.3-
1997 10 30	566	0.4-	0.1+	1999 02 10	704	0.6+	0.0	2000 03 09	704 0.2- 0.9-
1997 10 30	566	0.8-	0.3+	1999 02 10	704	0.5+	0.4-	2000 03 13	704 0.6+ 0.2-
1998 12 21	704	0.1-	1.6-	1999 02 10	704	0.5+	0.3-	2000 03 13	704 0.2+ 0.6+
1998 12 21	704	0.4+	0.5-	1999 02 10	704	0.3-	0.4-	2000 03 13	704 0.1+ 0.1+
1998 12 21	704	1.0+	1.2-	1999 02 10	704	1.3-	0.2-	2000 03 13	704 0.3- 0.3+
1998 12 21	704	0.5-	0.6-	1999 02 13	704	0.1+	0.4+	2000 03 13	704 0.4+ 0.4+

(14204)* 1999 AM₂₀ = 1991 PQ₁₄ = 1997 UE₂₂

Discovered 1999 Jan. 12 by F. B. Zoltowski at Woomera.

Id. G. V. Williams (*MPC* 33733)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	256.38761		(2000.0)			P		Q			
n	0.19062489	ω	172.96430			+0.45948047		+0.87321927			
a	2.9900812	Ω	124.26208			-0.82416977		+0.48732593			
e	0.0889598	i	11.33052			-0.33109196		-0.00124466			
P	5.17	H	12.6			G	0.15	U	1		
Residuals in seconds of arc											
1991 08 06	675	0.1-	1.1-	1999 01 13	426	0.5+	0.3-	2000 01 10	704	0.7-	0.1+
1991 08 06	675	0.2+	0.9-	1999 01 18	704	0.5+	1.1-	2000 01 10	704	0.5-	0.4+
1991 08 10	675	0.1-	0.0	1999 01 18	704	0.5-	1.0+	2000 01 10	704	0.3-	0.5+
1991 08 10	675	0.5+	0.8-	1999 01 18	704	(1.0- 3.3+)		2000 02 06	704	0.2-	0.4-
1997 10 29	566	0.1+	0.0	1999 01 18	704	1.2+	0.3-	2000 02 06	704	1.8+	1.4-
1997 10 29	566	0.1-	0.3+	1999 01 18	704	0.6+	0.4-	2000 02 06	704	0.9+	1.4-
1997 10 29	566	0.2+	0.1+	1999 01 21	426	0.1-	0.3-	2000 02 06	704	0.1-	0.1+
1997 10 31	327	0.2-	0.2+	1999 01 21	426	0.3+	0.3-	2000 02 06	704	0.6+	0.2+
1997 10 31	327	0.1-	0.0	1999 01 21	426	0.2+	0.3+	2000 03 03	106	0.4+	0.0
1997 10 31	327	0.2+	0.3+	1999 01 26	426	0.2+	0.4-	2000 03 03	106	0.2+	0.4-
1997 10 31	327	0.2-	0.0	1999 01 26	426	0.9-	0.2-	2000 03 03	106	0.1-	1.0+
1997 11 06	327	0.3-	0.3+	1999 01 26	426	0.3+	0.3-	2000 03 12	703	0.1-	0.4+
1997 11 06	327	0.2-	0.4+	2000 01 08	704	1.0+	0.5-	2000 03 12	703	0.3-	0.5+
1997 11 06	327	0.2-	0.7+	2000 01 08	704	0.1+	0.2+	2000 03 12	703	(2.1- 0.6+)	
1999 01 12	426	1.1-	0.4-	2000 01 08	704	0.3-	1.0-	2000 03 12	703	0.2+	1.0+
1999 01 12	426	0.3-	0.3-	2000 01 08	704	0.2+	1.3-	2000 03 15	699	0.6-	0.6+
1999 01 12	426	0.9-	0.0	2000 01 08	704	0.7+	0.7-	2000 03 15	699	0.6-	0.4+
1999 01 13	426	0.2-	0.2-	2000 01 10	704	0.1-	0.5+	2000 03 15	699	0.5-	0.6+
1999 01 13	426	0.2+	0.2-	2000 01 10	704	0.5-	0.2+	2000 03 15	699	0.5-	0.5+

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

M	350.78580		(2000.0)	P	Q		
n	0.18314847	ω	87.65073	-0.79646182	+0.58485897		
a	3.0709107	Ω	128.09849	-0.60271881	-0.74734784		
e	0.0379707	i	11.25439	-0.04877088	-0.31529541		
P	5.38	H	12.6	G	0.15	U	1

Residuals in seconds of arc

1987 12 20	010	1.1+	0.2+	1999 01 18	888	0.5+	0.9+	1999 02 22	758	0.7-	0.5-
1987 12 20	010	0.6-	0.8+	1999 01 18	888	0.1+	0.2+	1999 02 22	758	0.4-	0.1-
1994 02 08	809	0.5+	1.3+	1999 01 20	888	0.1+	0.0	1999 02 22	758	0.5-	1.4-
1994 02 08	809	0.6-	1.1+	1999 01 20	888	0.1+	0.2-	1999 02 22	888	0.4+	0.5+
1994 02 08	809	0.4+	0.7+	1999 01 21	886	0.2-	0.6+	1999 02 22	888	0.5+	0.3+
1994 02 10	809	0.2+	0.4+	1999 01 21	886	0.3+	0.5-	1999 04 08	888	0.0	0.8-
1994 02 10	809	0.1-	0.4-	1999 01 22	888	0.1-	0.3+	1999 04 08	888	0.5-	0.3-
1994 02 10	809	0.2-	0.6-	1999 01 22	888	0.2+	0.1+	2000 02 08	704	0.1+	0.4+
1994 02 13	809	0.6+	0.6+	1999 01 28	888	0.2+	0.3-	2000 02 08	704	0.2-	0.5+
1994 02 13	809	0.4-	0.2+	1999 01 28	888	0.0	0.1-	2000 02 08	704	0.3+	0.2+
1994 02 13	809	0.3-	0.7+	1999 02 05	888	0.2+	0.4-	2000 02 09	888	0.6+	0.7-
1997 10 29	566	0.4-	0.9+	1999 02 05	888	0.1-	0.3-	2000 02 09	888	0.4-	0.1-
1997 10 29	566	0.3-	0.6-	1999 02 10	704	0.3-	0.1-	2000 02 09	888	0.5-	0.3-
1997 10 29	566	0.1+	0.0	1999 02 10	704	0.3-	0.4-	2000 02 16	888	0.3-	0.5-
1998 12 11	303	0.0	1.0+	1999 02 10	704	0.1-	0.4-	2000 02 16	888	0.3+	0.5-
1998 12 12	303	0.4+	0.9+	1999 02 10	704	0.6+	0.6-	2000 03 06	888	0.1-	0.5-
1998 12 12	303	0.8+	0.2-	1999 02 10	704	0.9+	0.4-	2000 03 06	888	0.1+	1.0-
1998 12 13	303	0.8-	1.7+	1999 02 13	704	0.4-	0.3-	2000 03 06	888	0.1+	0.8-
1998 12 13	303	0.1+	0.5+	1999 02 13	704	0.6-	0.6-	2000 03 08	704	0.3-	0.8-
1999 01 14	699	0.5+	0.0	1999 02 13	704	0.9-	1.5-	2000 03 08	704	1.5-	0.4+
1999 01 14	699	0.4+	0.1-	1999 02 13	704	0.7-	2.0-	2000 03 08	704	1.3+	1.9+
1999 01 14	699	0.4+	0.5+	1999 02 13	704	(0.6-	2.3-)	2000 03 08	704	0.9+	2.0+

(14206)* 1999 CL₁₀ = 1998 XQ₉₆ = 1985 QJ = 1991 RK₂₅ = 1994 CA₁₄

Discovered 1999 Feb. 15 at Klet.

Id. B. G. Marsden (*MPC* 33993)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

M	188.87463		(2000.0)	P	Q
n	0.17147873	ω	232.01768	+0.97733784	+0.16762769
a	3.2087007	Ω	117.99193	-0.11692373	+0.93655357
e	0.1892175	i	8.41839	-0.17646412	+0.30784472
P	5.75	H	12.6	G 0.15	U 1

Residuals in seconds of arc

1985 08 22	688	0.5-	1.5+	1999 02 14	159	0.3+	0.6-	1999 02 24	046	0.4+	0.1-
1985 08 22	688	1.0-	2.2+	1999 02 15	159	0.1-	0.9-	1999 02 24	046	0.5+	0.3+
1985 09 12	688	1.2-	1.4+	1999 02 15	159	0.2-	0.5-	1999 02 24	046	0.4+	0.3-
1985 09 12	688	(6.5-	1.5+)	1999 02 15	159	1.5-	1.4-	2000 01 08	704	0.2+	0.7-
1991 09 11	675	0.5+	0.2-	1999 02 15	046	0.0	0.1+	2000 01 08	704	0.3-	0.5-
1991 09 11	675	0.5+	0.0	1999 02 15	046	0.1+	0.2-	2000 01 08	704	0.2+	1.5-
1991 09 13	675	0.6+	0.4-	1999 02 15	046	0.2+	0.2+	2000 02 11	704	0.3+	0.7+
1994 02 08	809	0.3+	1.9+	1999 02 15	046	0.1-	0.1+	2000 02 11	704	0.1-	1.2+
1994 02 08	809	(0.2-	2.2+)	1999 02 16	709	0.6+	0.4-	2000 02 11	704	1.3+	0.9+
1994 02 08	809	(0.9-	2.3+)	1999 02 16	709	0.2+	0.3-	2000 02 11	704	0.5-	0.4+
1994 02 10	809	1.5+	0.4-	1999 02 16	709	0.3+	0.3-	2000 02 11	704	0.4+	0.2-
1994 02 10	809	0.1+	0.7+	1999 02 16	709	1.0+	0.2+	2000 02 29	704	0.7+	0.3-
1994 02 10	809	0.1+	0.6+	1999 02 16	709	0.0	0.3-	2000 02 29	704	0.1-	0.8-
1994 02 13	809	1.1+	1.9+	1999 02 16	709	1.0+	0.3+	2000 02 29	704	0.4-	0.4-
1994 02 13	809	0.9+	1.8+	1999 02 16	709	0.5+	0.3-	2000 03 12	703	0.2-	0.0
1994 02 13	809	0.6+	1.7+	1999 02 16	046	0.1-	0.2+	2000 03 12	703	0.3-	0.1+
1998 12 11	303	(4.0-	1.7+)	1999 02 16	046	0.1+	0.1+	2000 03 12	703	0.6-	0.2+
1998 12 12	303	0.8-	0.7+	1999 02 16	046	0.2+	0.2+	2000 03 12	703	0.7+	0.1-
1998 12 12	303	0.5-	0.5+	1999 02 16	046	0.1+	0.4+	2000 03 12	704	0.5-	0.3-
1998 12 13	303	0.5+	0.1+	1999 02 17	159	0.2-	0.6+	2000 03 12	704	0.3-	1.0-
1998 12 13	303	0.0	0.5+	1999 02 17	159	0.3+	1.0+	2000 03 12	704	1.1-	0.2+
1998 12 14	303	0.8-	0.0	1999 02 17	159	(2.6-	0.4-)	2000 03 12	704	0.6-	0.0
1998 12 14	303	0.9-	0.0	1999 02 17	159	1.3-	0.9+	2000 03 14	046	0.2+	0.1-
1999 02 14	159	0.5-	0.2+	1999 02 17	159	1.0-	0.1-	2000 03 14	046	0.1-	0.1-

1999 02 14	159	0.7-	0.5-	1999 02 18	046	0.2+	0.2-	2000 03 14	046	0.3-	0.0
1999 02 14	159	0.8+	0.9-	1999 02 18	046	0.4-	0.3+				
1999 02 14	159	0.7-	0.2+	1999 02 18	046	0.4+	0.2-				

(14207)* 1999 CS₁₈ = 1979 FB₄ = 1995 EF₉ = 1997 UF₁₀

Discovered 1999 Feb. 10 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 34540)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	297.94124		(2000.0)	P	Q
n	0.18992618	ω	160.11050	-0.14773533	+0.97127110
a	2.9974100	Ω	101.04094	-0.93119610	-0.07304161
e	0.0425152	i	10.95768	-0.33323878	-0.22648925
P	5.19	H	12.3	G 0.15	U 1

Residuals in seconds of arc

1979 03 22	033	0.1-	0.0	1998 12 21	704	0.8+	0.8-	1999 04 06	704	2.0+	0.7+
1979 03 22	033	0.0	0.1-	1998 12 21	704	(2.3-	1.3-)	1999 04 06	704	1.0+	1.0+
1995 03 05	033	0.3+	0.6-	1998 12 21	704	0.6-	0.4-	1999 04 06	704	1.0+	1.0+
1995 03 05	033	0.1+	0.8-	1998 12 21	704	0.4-	0.9-	1999 04 06	704	0.7-	0.9-
1995 03 07	033	0.4-	0.4+	1998 12 21	704	1.0-	0.4+	1999 05 15	703	0.3-	0.1+
1997 10 29	566	0.4-	0.7+	1999 01 10	699	0.1+	0.1-	1999 05 15	703	0.4-	0.3+
1997 10 29	566	0.5-	1.0+	1999 01 10	699	0.3+	0.1+	1999 05 15	703	0.5-	0.4+
1997 10 29	566	0.2-	0.5+	1999 01 10	699	0.2+	0.2+	1999 05 15	703	0.3+	1.5+
1997 10 30	566	0.3-	0.8+	1999 01 19	704	0.5-	0.8-	2000 02 06	704	0.5-	0.4+
1997 10 30	566	0.2-	0.5+	1999 01 19	704	0.2-	0.1+	2000 02 06	704	0.3-	1.2+
1997 10 30	566	0.4-	0.7+	1999 01 19	704	0.2-	1.4+	2000 02 06	704	0.0	0.8+
1998 10 01	699	1.7-	0.4+	1999 01 19	704	0.6-	0.1+	2000 02 06	704	0.3+	1.1+
1998 10 01	699	0.5-	1.3-	1999 01 19	704	0.1-	0.1+	2000 02 06	704	0.4+	1.3+
1998 10 01	699	0.3-	0.8-	1999 02 10	704	(2.0-	2.6-)	2000 03 02	703	0.1+	0.2+
1998 11 14	699	0.1+	0.6-	1999 02 10	704	0.7-	1.6-	2000 03 02	703	0.5-	0.3+
1998 11 14	699	0.1+	0.5+	1999 02 10	704	0.0	1.1-	2000 03 02	703	0.3-	0.1+
1998 11 14	699	0.1+	0.8+	1999 02 10	704	0.7+	1.7-	2000 03 02	703	0.4+	0.0
1998 11 15	699	0.0	0.5+	1999 02 13	704	0.9+	0.2-	2000 03 08	704	1.5+	0.7-
1998 11 15	699	0.3+	0.9+	1999 02 13	704	0.5+	0.3+	2000 03 08	704	0.5+	1.2+
1998 11 15	699	0.4-	0.8+	1999 02 13	704	1.2+	0.8+	2000 03 08	704	(2.7+	2.3+)
1998 12 16	699	0.6-	0.5-	1999 02 13	704	0.8+	1.0-	2000 03 08	704	(0.4+	3.6+)
1998 12 16	699	0.0	0.1+	1999 02 13	704	0.4-	0.7-				
1998 12 16	699	0.2-	0.0	1999 04 06	704	0.1+	0.4-				

(14208)* 1999 CR₆₄ = 1992 NC

Discovered 1999 Feb. 12 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. S. Nakano (*MPC* 34546)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

M	254.19615		(2000.0)	P	Q
n	0.23640905	ω	133.40888	+0.87622350	+0.47680283
a	2.5903591	Ω	198.46397	-0.48073434	+0.85473108
e	0.1643962	i	12.75781	-0.03356892	+0.20516784
P	4.17	H	12.8	G 0.15	U 1

Residuals in seconds of arc

1992 07 02	675	1.8-	0.3-	1997 11 06	704	0.7-	0.4+	1999 02 21	699	0.7+	0.1-
1992 07 02	675	(3.3-	1.1-)	1997 11 06	704	0.6-	1.3+	1999 05 07	704	0.6+	0.3-
1992 07 05	675	0.3+	0.4+	1999 01 17	699	0.8+	0.4-	1999 05 07	704	1.2-	1.2-
1992 07 05	675	1.4+	1.5+	1999 01 17	699	0.1+	0.3+	2000 02 10	704	0.1+	0.8+
1997 10 29	704	1.1+	0.3+	1999 01 17	699	0.6+	0.4+	2000 02 10	704	0.2+	1.5+

2000 MAR. 20

M.P.C. 39111

1997 10 30	704	(4.1+ 0.6-)	1999 02 16	704	0.6+ 0.9+	2000 03 04	703	0.2+ 0.3+
1997 11 06	704	1.4- 1.5+	1999 02 16	704	0.3+ 0.2+	2000 03 04	703	0.2- 0.2+
1997 11 06	704	(2.5- 0.8-)	1999 02 21	699	0.1+ 0.2+	2000 03 05	120	1.1+ 0.6+
1997 11 06	704	1.2- 1.3+	1999 02 21	699	0.7+ 0.2+	2000 03 05	120	1.3- 0.5-

(14209)* 1999 CV₈₁ = 1983 GH₂

Discovered 1999 Feb. 12 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Gnädig (*MPC* 38545)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	57.90777		(2000.0)		P		Williams		Q
<i>n</i>	0.30390325	ω	254.96741		-0.69849663		+0.71517284		
<i>a</i>	2.1910173	Ω	330.67626		-0.63529617		-0.63586713		
<i>e</i>	0.1178878	<i>i</i>	2.93840		-0.32939527		-0.29017376		
<i>P</i>	3.24	<i>H</i>	14.3		<i>G</i>	0.15	<i>U</i>		2

Residuals in seconds of arc

1977 07 20	413	0.6- 0.2-	1999 02 12	704	0.0 0.9+	1999 03 23	699	0.0 0.9+
1977 07 20	413	0.5+ 0.2+	1999 02 12	704	0.2+ 1.2+	1999 03 23	699	0.3+ 0.9+
1983 04 10	095	0.1+ 0.8-	1999 02 12	704	(1.2- 2.9+)	1999 04 06	699	0.2+ 1.1+
1983 05 10	413	0.4- 1.0+	1999 02 16	704	0.0 1.1-	1999 04 06	699	0.1+ 1.5+
1983 05 10	413	0.3+ 0.3-	1999 02 16	704	0.2- 0.2-	1999 04 06	699	0.7+ 1.4+
1989 01 10	675	0.9- 0.7+	1999 02 16	704	0.0 0.2-	1999 05 07	704	0.0 0.1-
1989 01 10	675	1.2+ 0.9-	1999 02 16	704	0.2- 0.8-	1999 05 07	704	0.4+ 1.5+
1990 09 23	413	0.1- 0.3-	1999 02 16	704	0.0 0.7-	1999 05 07	704	0.0 0.2+
1997 10 30	704	1.3+ 0.4+	1999 02 18	699	0.3+ 0.4+	1999 05 07	704	1.1+ 0.4+
1997 10 30	704	(1.2+ 2.2+)	1999 02 18	699	1.0+ 0.2+	1999 05 07	704	0.8- 1.6-
1997 10 30	704	1.1- 0.2-	1999 02 18	699	0.2+ 0.2+	1999 06 08	704	0.5- 0.3+
1997 10 30	704	(4.9- 0.4+)	1999 03 19	704	0.2- 0.9-	1999 06 08	704	0.9- 0.3-
1998 11 25	704	0.2+ 1.3+	1999 03 19	704	0.9- 0.5-	1999 06 08	704	0.5- 0.2-
1998 11 25	704	1.6+ 0.8-	1999 03 19	704	0.8- 1.5-	1999 06 08	704	0.1+ 1.2-
1998 11 25	704	1.3- 0.1-	1999 03 19	704	0.2- 0.8-	1999 06 08	704	0.6- 0.6+
1998 11 25	704	0.1+ 0.3-	1999 03 20	704	0.3- 0.1-	1999 06 10	704	1.2+ 0.3-
1998 11 25	704	(5.1- 3.2-)	1999 03 20	704	0.1+ 0.1-	1999 06 10	704	0.5+ 0.4-
1998 12 16	699	0.9- 0.2-	1999 03 20	704	1.0- 0.5+	1999 06 10	704	1.3+ 0.8-
1998 12 16	699	0.6+ 0.5-	1999 03 20	704	0.0 0.1+	1999 06 10	704	0.6+ 0.1-
1998 12 16	699	1.5- 0.8+	1999 03 20	704	1.3- 0.3-	1999 06 10	704	0.1+ 0.3-
1999 02 12	704	0.3+ 0.5+	1999 03 23	699	1.0+ 1.0-			

(14210)* 1999 CO₉₉

Discovered 1999 Feb. 10 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	24.46822		(2000.0)		P		Williams		Q
<i>n</i>	0.22235902	ω	250.51396		-0.63832042		+0.76572443		
<i>a</i>	2.6983579	Ω	339.19505		-0.59644799		-0.55672759		
<i>e</i>	0.1513806	<i>i</i>	12.82187		-0.48661776		-0.32205665		
<i>P</i>	4.43	<i>H</i>	13.2		<i>G</i>	0.15	<i>U</i>		2

Residuals in seconds of arc

1949 11 25	675	0.6- 0.5-	1999 02 10	704	0.1- 0.3+	1999 03 20	704	0.8- 0.1+
1949 11 25	675	0.4- 1.3-	1999 02 12	699	0.6+ 0.2+	1999 03 20	704	0.8- 0.1+
1987 10 14	413	0.6- 0.4+	1999 02 12	699	0.4+ 0.2+	1999 04 14	699	0.3+ 0.5+
1987 10 14	413	0.3+ 0.3-	1999 02 12	699	0.2+ 0.2+	1999 04 14	699	0.1- 0.2+
1988 09 19	675	0.7- 0.1-	1999 02 13	704	0.3+ 0.1-	1999 04 14	699	0.2+ 0.1+
1988 09 19	675	0.5+ 1.2-	1999 02 13	704	0.6+ 0.7+	1999 05 15	704	1.5+ 1.1+
1988 10 08	675	1.0+ 0.6-	1999 02 13	704	1.0+ 0.1-	1999 05 15	704	1.0- 1.2+
1994 01 10	675	1.0- 0.5-	1999 02 13	704	1.2+ 0.6-	1999 05 15	704	0.7- 1.3+
1998 12 01	704	1.5+ 0.5-	1999 02 13	704	0.1- 1.1-	1999 05 15	704	1.9- 0.8-
1998 12 01	704	1.0+ 0.0	1999 03 19	704	0.1- 0.3-	1999 06 08	704	0.4- 0.0
1998 12 01	704	0.9+ 0.2+	1999 03 19	699	0.4+ 0.1+	1999 06 08	704	0.2- 0.6-
1998 12 01	704	0.8+ 0.5-	1999 03 19	704	0.2- 0.1-	1999 06 08	704	0.3- 0.7-
1998 12 01	704	0.3+ 0.7+	1999 03 19	704	0.1+ 0.6+	1999 06 08	704	0.6- 1.2-
1999 01 14	699	0.7+ 0.5+	1999 03 19	699	0.8+ 0.4-	1999 06 08	704	0.1- 0.3-
1999 01 14	699	0.7+ 0.2+	1999 03 19	704	0.9- 0.3+	1999 06 10	704	0.0 0.2-

1999 01 14	699	0.0 0.2+	1999 03 19	699	0.6+ 0.2+	1999 06 10	704	0.9- 0.8-
1999 02 10	704	0.2- 0.4-	1999 03 19	704	0.1+ 0.1+	1999 06 10	704	0.5- 1.3-
1999 02 10	704	0.1- 0.4+	1999 03 20	704	0.0 0.3+	1999 06 10	704	1.1- 1.9-
1999 02 10	704	0.3- 0.2+	1999 03 20	704	1.7- 0.2+			
1999 02 10	704	0.4+ 0.1-	1999 03 20	704	1.3- 0.2+			

(14211)* 1999 NT₁

Discovered 1999 July 12 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	31.05220		(2000.0)		P		Williams		Q
<i>n</i>	0.28152736	ω	90.78477		+0.90658879		-0.22690092		
<i>a</i>	2.3056266	Ω	282.38400		+0.05060261		+0.89552519		
<i>e</i>	0.3190604	<i>i</i>	21.36472		+0.41897033		+0.38281928		
<i>P</i>	3.50	<i>H</i>	13.7		<i>G</i>	0.15	<i>U</i>		1

Residuals in seconds of arc

1974 06 18	413	0.3+ 1.5-	1999 07 22	704	0.1+ 0.1-	1999 10 09	106	0.2+ 0.1+
1974 06 22	413	0.9- 0.4+	1999 07 22	704	0.4+ 0.1+	1999 10 09	106	0.5+ 0.1+
1974 06 22	413	0.3+ 0.2-	1999 07 23	704	0.2+ 0.4+	1999 10 09	106	0.6- 0.9+
1980 03 18	413	0.8- 1.7-	1999 07 23	704	0.1- 0.2-	1999 10 21	716	1.0+ 1.2-
1980 03 18	413	1.1- 0.8-	1999 07 23	704	0.1+ 0.1+	1999 10 21	716	0.4- 0.1-
1989 11 08	675	(2.0+ 3.7-)	1999 07 23	704	0.1+ 0.2+	1999 10 22	716	0.2- 0.5+
1989 11 08	675	0.2+ 0.5+	1999 08 01	127	(2.3+ 0.1-)	1999 11 03	704	0.1+ 0.5-
1989 12 07	675	0.2- 0.0	1999 08 01	127	(2.2+ 0.0)	1999 11 03	704	0.3+ 0.5-
1989 12 07	675	1.1+ 0.4-	1999 08 02	127	0.4+ 0.2+	1999 11 03	704	0.2+ 0.5-
1999 05 21	704	0.4- 0.4+	1999 08 02	127	0.6+ 0.3+	1999 11 03	704	0.9+ 0.3-
1999 05 21	704	0.5- 0.6+	1999 08 02	127	0.4+ 0.2+	1999 11 03	704	0.0 0.6-
1999 05 21	704	0.6+ 1.1-	1999 08 11	704	0.3- 0.3-	1999 11 04	704	0.0 0.6-
1999 05 21	704	1.5- 0.3+	1999 08 11	704	0.4- 0.7-	1999 11 04	704	0.1- 0.5-
1999 07 12	704	0.3- 0.2-	1999 08 11	704	0.4- 0.3-	1999 11 04	704	0.2- 0.2-
1999 07 12	704	0.1- 0.4-	1999 08 11	704	0.4- 0.1-	1999 11 04	704	(2.2+ 0.6+)
1999 07 12	704	0.0 0.3-	1999 09 07	723	0.3- 0.1+	1999 11 04	704	0.1- 0.2+
1999 07 12	704	0.3- 0.7-	1999 09 07	723	0.3- 0.1+	1999 11 08	610	0.4+ 0.2-
1999 07 12	704	0.1+ 0.6-	1999 09 11	628	0.2- 0.1+	1999 11 08	610	0.3+ 0.1-
1999 07 13	704	0.3- 0.3-	1999 09 11	628	0.2- 0.1-	1999 11 08	610	0.2+ 0.0
1999 07 13	704	0.4- 1.5+	1999 09 11	628	0.0 0.1+	1999 11 08	610	0.2+ 0.1+
1999 07 13	704	0.1+ 0.3-	1999 09 11	628	0.2- 0.1-	1999 11 08	610	0.0 0.1+
1999 07 13	704	0.2- 0.4-	1999 10 05	704	0.8- 0.7+	2000 01 31	704	0.4- 0.0
1999 07 13	704	0.1+ 0.2-	1999 10 05	704	0.5+ 0.1+	2000 01 31	704	0.2- 0.3+
1999 07 22	704	0.2+ 0.5+	1999 10 05	704	0.7+ 0.2+	2000 01 31	704	0.3+ 0.1+
1999 07 22	704	0.1+ 0.3+	1999 10 05	704	0.2+ 0.3+	2000 01 31	704	0.2+ 0.2+
1999 07 22	704	0.4+ 0.8+	1999 10 05	704	0.9+ 0.5-	2000 01 31	704	0.1- 0.3+

(14212)* 1999 NW₃₉ = 1987 VO = 1995 OV₁

Discovered 1999 July 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 38553)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	7.20608		(2000.0)		P		Williams		Q
<i>n</i>	0.23961582	ω	261.78152		+0.95131223		-0.20868775		
<i>a</i>	2.5671962	Ω	110.03127		+0.27367350		+0.91045105		
<i>e</i>	0.1770191	<i>i</i>	13.97164		-0.14180216		+0.35711106		
<i>P</i>	4.11	<i>H</i>	14.2		<i>G</i>	0.15	<i>U</i>		1

Residuals in seconds of arc

1987 11 15	010	1.1+ 1.9-	1997 02 07	566	(2.2- 0.8-)	1999 07 14	704	0.3+ 0.1-
1987 11 15	010	(2.8+ 2.7-)	1998 04 23	704	0.2- 0.6-	1999 07 14	704	0.4+ 0.1-
1995 07 20	327	0.8- 0.2+	1998 04 23	704	0.6- 0.4-	1999 07 14	704	0.8+ 0.6+
1995 07 20	327	0.4+ 0.4+	1998 04 23	704	1.2- 0.2-	1999 07 14	704	0.1+ 0.3+
1995 07 20	327	0.1+ 0.1+	1998 04 23	704	0.5+ 1.2-	1999 07 14	704	0.2+ 0.1-
1995 07 20	327	0.4+ 0.2+	1998 04 23	704	0.9+ 0.6-	1999 07 16	704	0.0 0.6+
1995 07 30	327	0.3- 0.3-	1998 05 28	704	0.9+ 1.1-	1999 07 16	704	0.5+ 0.1-
1995 07 30	327	0.2- 1.7-	1998 05 28	704	(3.5+ 1.6-)	1999 07 16	704	0.4+ 0.4+
1995 07 30	327	0.2+ 0.5+	1998 05 28	704	0.7+ 0.3+	1999 09 11	704	0.2- 0.4+

1995 07 30	327	0.6−	0.0	1998 05 28	704	0.8−	1.0+	1999 09 11	704	0.2−	0.0
1997 01 11	566	0.0	0.6+	1998 05 28	704	1.0−	0.3+	1999 09 11	704	0.5−	0.2−
1997 01 11	566	0.1+	0.9+	1999 06 22	703	0.3+	0.9−	1999 09 11	704	0.1+	0.9−
1997 01 11	566	(2.1+ 1.1+)		1999 06 22	703	0.1−	0.1+	1999 09 11	704	0.4−	0.2+
1997 02 07	566	0.0	0.5−	1999 06 22	703	0.2−	0.3+				
1997 02 07	566	0.4−	0.7−	1999 06 22	703	0.8−	0.4+				

(14213)* 1999 NX₅₄

Discovered 1999 July 12 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	18.69548	(2000.0)	P	Q	
<i>n</i>	0.22023261	ω	187.53637	+0.96809305	+0.19916709
<i>a</i>	2.7156990	Ω	159.00451	−0.20202352	+0.97937474
<i>e</i>	0.0268011	<i>i</i>	25.11619	−0.14826442	−0.03402335
<i>P</i>	4.48	<i>H</i>	12.9	<i>G</i>	0.15 <i>U</i> 2

Residuals in seconds of arc

1977 11 04	413	0.7−	0.9−	1999 09 04	703	0.5−	0.0	1999 09 29	704	0.2+	0.1−
1977 11 04	413	0.1−	0.0	1999 09 04	703	0.2−	0.3+	1999 09 30	704	0.3+	0.6−
1982 09 19	413	1.5+	2.0−	1999 09 07	704	0.4−	0.8−	1999 09 30	704	0.1+	0.0
1982 09 19	413	0.8−	1.9+	1999 09 07	704	0.4−	0.1−	1999 09 30	704	0.7+	0.1+
1982 10 13	413	0.4+	1.7−	1999 09 07	704	0.5−	0.7−	1999 09 30	704	0.5+	0.1+
1982 10 13	413	0.4+	0.6−	1999 09 07	704	0.0	0.3−	1999 09 30	704	0.2−	0.3−
1993 03 23	675	1.3−	1.2+	1999 09 07	704	0.8−	0.9−	1999 10 15	704	0.8+	0.2+
1993 03 23	675	1.4+	1.9−	1999 09 08	703	0.1−	0.2−	1999 10 15	704	0.9+	0.3+
1997 02 10	675	0.7−	1.1+	1999 09 08	703	0.1−	0.6+	1999 10 15	704	0.9+	0.3+
1999 05 20	704	0.8−	1.3−	1999 09 08	703	0.3+	0.2+	1999 10 15	704	0.9+	0.5+
1999 05 20	704	0.2−	0.1+	1999 09 08	703	0.9−	0.2+	1999 10 15	704	0.9+	0.8+
1999 05 20	704	(2.2+ 1.9−)		1999 09 09	704	0.7−	0.9−	1999 10 16	704	0.5+	0.4+
1999 05 20	704	0.3+	0.3−	1999 09 09	704	0.5−	0.4−	1999 10 16	704	0.8+	0.1+
1999 07 12	704	0.8−	0.1−	1999 09 09	704	0.1+	0.0	1999 10 16	704	1.0+	0.7+
1999 07 12	704	0.4+	0.5−	1999 09 09	704	0.0	1.6−	1999 10 16	704	0.5+	0.6+
1999 07 12	704	0.5+	0.0	1999 09 09	704	0.4−	0.2+	1999 10 16	704	0.9+	0.3+
1999 07 12	704	0.2+	0.1+	1999 09 13	704	0.3−	0.0	1999 11 05	703	0.3−	0.5+
1999 07 12	704	0.5−	0.6−	1999 09 13	704	0.5−	0.6+	1999 11 05	703	0.6+	0.4−
1999 07 22	704	0.1+	0.3−	1999 09 13	704	0.6−	0.4+	1999 11 05	703	0.1+	0.7+
1999 07 22	704	0.2−	0.0	1999 09 13	704	0.1−	0.3+	1999 11 05	703	0.2+	0.1−
1999 07 22	704	0.3−	0.0	1999 09 13	704	0.4−	0.0	1999 11 10	704	0.4−	0.1−
1999 07 22	704	0.2−	0.1+	1999 09 29	704	0.5+	0.1+	1999 11 10	704	1.1−	1.1+
1999 07 22	704	0.3−	0.0	1999 09 29	704	1.2+	0.0	1999 11 10	704	0.6−	1.7+
1999 09 04	703	0.5−	0.1−	1999 09 29	704	0.6+	0.4+	1999 11 10	704	0.3−	0.3−
1999 09 04	703	0.4−	0.2+	1999 09 29	704	1.4+	0.8+				

(14214)* 1999 RP₈₆ = 1991 RN₂₃

Discovered 1999 Sept. 7 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 38559)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	30.19485	(2000.0)	P	Q	
<i>n</i>	0.24719838	ω	269.87753	+0.97954788	−0.19370603
<i>a</i>	2.5144267	Ω	101.29143	+0.19952492	+0.90015180
<i>e</i>	0.1997420	<i>i</i>	3.18249	+0.02599519	+0.39013423
<i>P</i>	3.99	<i>H</i>	14.6	<i>G</i>	0.15 <i>U</i> 2

Residuals in seconds of arc

1991 09 15	675	0.1+	0.4−	1998 05 22	704	1.2−	1.6+	1999 09 14	704	0.1+	0.5+
1991 09 15	675	0.5+	0.2−	1998 05 22	704	0.2+	0.3+	1999 09 14	704	0.1+	0.0
1991 09 17	675	0.0	0.5−	1998 05 22	704	0.3−	0.7+	1999 09 14	704	0.1+	0.6+
1991 09 17	675	0.6+	0.7−	1999 07 16	704	1.6−	0.2+	1999 09 14	704	0.3+	0.6+
1995 08 28	809	(2.2+ 1.1+)		1999 07 16	704	0.3+	0.3−	1999 10 02	704	1.0−	0.8+
1995 08 29	809	1.0+	0.5+	1999 07 16	704	1.4+	0.7−	1999 10 02	704	0.9−	0.5+
1995 08 31	809	0.3−	0.9−	1999 07 16	704	1.8+	1.8−	1999 10 02	704	0.9−	0.5+
1995 09 01	809	0.8−	1.4−	1999 08 22	703	0.7−	0.3+	1999 10 02	704	0.7−	0.4+
1995 09 23	809	(6.5+ 0.8−)		1999 08 22	703	0.1+	0.5+	1999 10 02	704	1.4−	0.1−

1997 02 17	327	1.0−	0.2−	1999 08 22	703	0.6−	0.0	1999 11 08	704	0.8−	0.9−
1997 02 17	327	0.8+	0.8−	1999 08 22	703	0.1−	0.1−	1999 11 08	704	0.2+	0.4−
1997 02 17	327	0.7−	1.6−	1999 09 07	704	1.0+	0.4+	1999 11 08	704	0.3+	0.0
1998 04 22	704	0.4+	1.7−	1999 09 07	704	0.8+	0.2−	1999 11 08	704	0.5+	0.7−
1998 04 22	704	0.9+	1.4−	1999 09 07	704	0.2+	0.0	1999 11 08	704	1.4+	0.1+
1998 04 22	704	0.1+	1.1−	1999 09 07	704	0.4+	0.1−	1999 12 02	704	0.0	0.0
1998 04 22	704	0.8−	0.7−	1999 09 07	704	0.4−	0.4−	1999 12 02	704	1.1+	0.4−
1998 05 22	704	0.6+	1.2+	1999 09 14	704	0.5+	0.4+	1999 12 02	704	0.3−	0.5+

(14215)* 1999 TV₆ = 1977 RG₆ = 1988 TM₂ = 1992 WX₈ = 1998 MT₄₅

Discovered 1999 Oct. 6 by K. Korlević and M. Jurić at Višnja.

Id. G. V. Williams (*MPC* 36485)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	1.14104	(2000.0)	P	Q	
<i>n</i>	0.27017778	ω	232.32905	+0.32736023	−0.94469101
<i>a</i>	2.3697523	Ω	198.59202	+0.88535446	+0.31400402
<i>e</i>	0.1459247	<i>i</i>	3.57018	+0.33012536	+0.09465921
<i>P</i>	3.65	<i>H</i>	13.9	<i>G</i>	0.15 <i>U</i> 2

Residuals in seconds of arc

1977 09 09	095	0.0	0.8−	1999 10 04	704	0.5−	0.4−	1999 11 05	704	0.2−	0.4+
1988 10 04	046	(4.1+ 0.4−)		1999 10 04	704	0.3−	0.3−	1999 11 05	704	0.2−	0.7+
1988 10 04	046	(1.3+ 2.6−)		1999 10 04	704	0.9−	0.6−	1999 11 12	704	0.7+	1.1+
1988 10 07	675	0.2+	1.2−	1999 10 06	120	0.2+	0.3−	1999 11 12	704	0.0	0.2+
1988 10 07	675	0.9+	0.6−	1999 10 06	120	0.5+	0.1+	1999 11 12	704	0.1+	0.3−
1988 10 11	046	(5.2− 1.0+)		1999 10 07	704	0.4+	0.2+	1999 11 12	704	0.1+	0.7−
1988 10 11	046	(2.6− 0.0)		1999 10 07	704	0.1+	0.2+	1999 11 17	704	0.7+	0.2+
1988 10 14	046	(7.0+ 2.4+)		1999 10 07	704	0.0	0.4+	1999 11 17	704	0.6+	0.2−
1988 10 14	046	(7.3+ 2.3+)		1999 10 07	704	0.3+	0.8+	1999 11 17	704	0.3+	0.2−
1992 11 26	675	0.2−	1.6−	1999 10 07	704	0.1+	0.2+	1999 11 17	704	0.3+	0.5−
1992 11 26	675	(1.1+ 2.8−)		1999 10 07	120	0.1+	0.2−	1999 11 17	704	0.4−	0.1−
1992 11 28	675	0.7+	1.9−	1999 10 07	120	0.1+	0.3−	1999 12 07	704	1.3−	0.8−
1992 11 28	675	0.3−	1.7−	1999 10 08	120	0.2−	0.2−	1999 12 07	704	0.0	0.3+
1998 06 24	704	0.7+	0.6−	1999 10 08	120	0.2−	0.2+	1999 12 07	704	(2.2+ 0.3−)	
1998 06 24	704	(1.5+ 2.8+)		1999 10 09	703	0.0	0.1−	2000 01 30	703	0.6−	0.5+
1998 06 26	704	0.2−	0.4−	1999 10 09	703	0.1+	0.1+	2000 01 30	703	0.9−	0.2+
1998 06 26	704	(2.5− 0.4−)		1999 10 09	703	0.0	0.2+	2000 01 30	703	0.9+	1.4+
1998 06 26	704	0.6−	0.1−	1999 10 09	703	0.1+	0.1+	2000 01 30	703	1.0−	1.7+
1999 07 23	704	0.1−	0.2−	1999 10 11	595	0.3−	0.3−	2000 02 04	704	0.2+	0.2+
1999 07 23	704	1.0−	0.3+	1999 10 11	595	0.2−	0.5−	2000 02 04	704	0.1−	0.7+
1999 07 23	704	0.9−	0.3+	1999 10 11	595	0.3+	0.0	2000 02 04	704	0.4+	0.8+
1999 07 23	704	1.0+	0.5−	1999 10 01	703	0.0	0.0	2000 02 04	704	0.2+	1.6+
1999 10 02	703	0.1−	0.0	1999 11 01	703	0.1−	0.1−	2000 03 03	703	0.2−	0.8−
1999 10 02	703	0.3+	0.2+	1999 11 01	703	0.0	0.3+	2000 03 03	703	0.7−	0.3−
1999 10 02	703	0.2−	0.4+	1999 11 01	703	0.1−	0.1+	2000 03 03	703	0.9+	0.0
1999 10 02	703	0.1−	0.4+	1999 11 05	704	0.3+	0.3+	2000 03 03	703	1.1−	1.4+
1999 10 04	704	0.0	0.0	1999 11 05	704	0.4+	0.3+				
1999 10 04	704	0.4−	0.1+	1999 11 05	704	0.2+	0.6+				

(14216)* 1999 VW₁ = 1970 WA

Discovered 1999 Nov. 4 by T. Kagawa at the Gekko Observatory.

Id. S. Nakano (*MPC* 38569), A. Gnädig (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	352.34210		(2000.0)	P	Q
n	0.23887828	ω	190.96202	-0.25009733	-0.95485929
a	2.5724776	Ω	273.66712	+0.90003280	-0.16824511
e	0.1216661	i	9.24322	+0.35692054	-0.24482101
P	4.13	H	13.4	G 0.15	U 1

2000 MAR. 20

M.P.C. 39113

1984 03 07	413	1.0+	0.1-	1999 11 08	888	0.2-	0.0	2000 01 03	704	0.6-	0.7-
1990 08 18	675	1.4-	0.3-	1999 11 08	888	0.0	0.2+	2000 01 03	888	0.1+	0.3-
1990 08 18	675	0.9+	0.1-	1999 11 08	888	0.1-	0.0	2000 01 03	888	0.2-	0.1-
1990 08 23	675	0.8+	0.1-	1999 11 13	888	0.6-	0.1+	2000 01 04	704	1.2-	0.7+
1990 08 23	675	0.5+	0.6-	1999 11 13	888	0.2-	0.3-	2000 01 04	704	0.3-	0.1-
1998 08 17	704	1.4+	1.3+	1999 11 18	888	0.1-	0.0	2000 01 04	704	1.0-	1.1-
1998 08 17	704	0.3+	0.2+	1999 11 18	888	0.1-	0.2+	2000 01 28	888	0.0	0.0
1998 08 17	704	0.2-	0.3-	1999 11 18	886	0.2+	1.2+	2000 01 28	888	0.0	0.3-
1998 08 17	704	0.8-	0.2-	1999 11 18	886	0.0	0.7+	2000 01 28	106	0.0	0.2+
1998 08 17	704	0.2+	0.4+	1999 11 28	886	0.8+	0.1+	2000 01 28	106	0.1-	0.2+
1998 08 23	704	0.7-	0.2+	1999 11 28	886	1.1+	0.1+	2000 01 28	106	0.4+	0.6+
1998 08 23	704	1.0-	2.0+	1999 12 04	888	0.7+	0.1+	2000 01 30	704	0.2-	0.4+
1998 08 23	704	0.4+	0.6-	1999 12 04	888	0.5+	0.2+	2000 01 30	704	0.1+	0.3+
1998 08 23	704	0.1-	0.3+	1999 12 10	704	0.1+	0.4+	2000 01 30	704	0.2-	0.5+
1998 08 23	704	(4.2-	1.0+)	1999 12 10	704	0.4+	0.2+	2000 01 30	704	0.1-	0.4+
1999 09 03	704	(0.6+	3.0+)	1999 12 10	704	0.2+	0.1-	2000 01 30	704	0.1-	0.8+
1999 09 03	704	0.4+	0.4+	1999 12 10	704	0.4+	0.1+	2000 02 11	704	0.2+	0.0
1999 09 03	704	1.1+	0.3-	1999 12 10	704	0.3+	0.0	2000 02 11	704	1.0+	0.1+
1999 10 05	704	0.9-	0.3-	1999 12 15	704	0.5+	0.3-	2000 02 11	704	1.0+	0.1-
1999 10 05	704	0.4+	1.2-	1999 12 15	704	0.6-	1.2-	2000 02 11	704	0.3+	0.3-
1999 10 05	704	0.3+	0.0	1999 12 15	704	0.9-	1.4-	2000 03 04	704	0.1+	0.5+
1999 10 05	704	0.5-	0.3+	1999 12 15	704	0.4-	0.5-	2000 03 04	704	1.1-	0.8-
1999 10 05	704	0.7+	1.1+	1999 12 15	704	0.8+	0.4-	2000 03 04	704	0.8+	0.0
1999 11 04	888	0.0	0.1+	1999 12 31	703	0.2-	0.1+	2000 03 04	704	0.1-	0.2+
1999 11 04	888	0.2+	0.3+	1999 12 31	703	0.2-	0.0	2000 03 04	704	0.2-	0.2+
1999 11 05	888	0.2-	0.0	1999 12 31	703	0.0	0.0				

(14217)* 1999 VV₁₉ = 1991 PG₂₇

Discovered 1999 Nov. 10 by J. Roe at Oaxaca.

Id. A. Gnädig (*MPC* 38570)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	86.21857		(2000.0)	P	Q
n	0.26275281	ω	217.78947	+0.86896655	+0.49127962
a	2.4141883	Ω	112.68589	-0.43686325	+0.81803475
e	0.1900130	i	3.69817	-0.23248147	+0.29910447
P	3.75	H	15.5	G 0.15	U 1

Residuals in seconds of arc

1979 05 19	413	1.4-	0.5-	1999 10 20	704	0.2+	0.5+	1999 11 15	732	0.7+	0.6-
1979 05 19	413	2.1-	0.3-	1999 11 01	703	0.3-	0.1+	1999 11 16	732	0.4+	1.1-
1983 05 08	413	1.7+	0.6-	1999 11 01	703	0.1-	0.4-	1999 11 16	732	0.1-	0.4-
1983 05 08	413	1.4+	0.2-	1999 11 01	703	0.3+	0.5+	1999 11 17	704	1.1+	0.1+
1991 08 05	809	0.4+	0.2-	1999 11 01	703	0.3-	0.5-	1999 11 17	704	0.4+	0.8-
1991 08 05	809	0.0	0.9-	1999 11 04	704	0.4+	0.4+	1999 11 17	704	0.4+	0.4-
1991 08 05	809	0.8-	1.0-	1999 11 04	704	0.3+	0.2+	1999 11 17	704	0.1+	0.6+
1998 04 21	704	1.1+	1.0+	1999 11 04	704	0.6-	0.8+	1999 11 25	120	1.8+	0.7+
1998 04 21	704	0.2-	0.5+	1999 11 04	704	0.2+	0.2-	1999 11 25	120	0.7-	0.0
1998 04 21	704	(0.4+	2.1-)	1999 11 04	704	0.7-	0.7-	1999 12 02	732	0.2-	1.0-
1998 04 21	704	0.6-	1.5-	1999 11 10	732	1.1+	0.3+	1999 12 02	732	0.2+	0.7-
1998 04 21	704	(0.2+	2.2+)	1999 11 10	732	0.2-	1.5+	1999 12 02	732	0.7+	0.4-
1998 05 01	704	0.7-	0.2+	1999 11 10	732	0.4+	0.2+	1999 12 03	732	1.4-	0.1-
1998 05 01	704	0.6+	0.3-	1999 11 12	699	0.4+	0.3+	1999 12 03	732	1.8-	0.7-
1998 05 01	704	0.5+	0.6-	1999 11 12	699	0.0	1.2+	1999 12 03	732	1.3-	0.6-
1998 05 01	704	(6.4-	2.2-)	1999 11 12	699	0.8+	0.4+	1999 12 07	704	0.3-	0.3+
1998 05 24	704	1.3+	0.7+	1999 11 13	732	0.8+	0.1-	1999 12 07	704	0.1-	0.2-
1998 05 24	704	0.7-	1.6-	1999 11 13	732	1.2+	1.2-	1999 12 07	704	0.9-	1.8-
1998 05 24	704	0.2-	0.6+	1999 11 13	732	0.7+	0.1+	1999 12 07	704	0.9+	1.0-
1998 05 24	704	1.9-	0.5+	1999 11 14	732	0.3+	1.4+	1999 12 30	732	0.0	1.1-
1999 10 20	704	0.4-	0.9+	1999 11 14	732	0.3+	0.1+	2000 01 02	732	0.4-	1.4-
1999 10 20	704	0.4+	0.5+	1999 11 14	732	0.8-	1.1+	2000 01 02	732	0.2+	0.1+
1999 10 20	704	1.4-	1.2+	1999 11 15	732	0.1+	0.1-				
1999 10 20	704	1.1-	0.2-	1999 11 15	732	0.3-	0.3-				

(14218)* 1999 VS₃₀ = 1995 TK₈

Discovered 1999 Nov. 3 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Gnädig (*MPC* 38572)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	33.26703		(2000.0)			P		Q		
<i>n</i>	0.26652807	ω	173.73826			+0.61081690		−0.78807378		
<i>a</i>	2.3913368	Ω	238.58607			+0.72249542		+0.59426020		
<i>e</i>	0.1172492	<i>i</i>	5.13850			+0.32388745		+0.16060676		
<i>P</i>	3.70	<i>H</i>	13.8		<i>G</i>	0.15		<i>U</i>	2	
Residuals in seconds of arc										
1951 11 08	675	1.0−	1.0−	1999 11 16	704	0.4+	1.1−	1999 12 29	106	0.1− 0.0
1951 11 08	675	0.5+	0.7−	1999 11 16	704	0.5+	1.0−	1999 12 30	699	0.3− 0.3+
1951 11 28	675	0.4−	0.4−	1999 11 25	120	0.0	0.1+	1999 12 30	699	0.1− 0.3+
1951 11 28	675	0.9+	1.1−	1999 11 25	120	0.2+	0.0	1999 12 30	699	0.1+ 0.4+
1955 12 12	675	0.3−	0.7−	1999 11 26	120	0.1+	0.3−	2000 02 03	704	0.2− 0.3+
1955 12 12	675	0.1−	1.0+	1999 11 26	120	0.1+	0.3−	2000 02 03	704	0.1+ 0.5+
1992 11 25	675	1.1+	0.2−	1999 11 27	120	0.2−	0.3−	2000 02 03	704	0.3− 1.0+
1992 11 25	675	0.3−	0.1+	1999 11 27	120	0.3+	0.2−	2000 02 03	704	0.2+ 0.6+
1995 10 11	400	0.3−	0.1−	1999 11 27	120	0.0	0.2−	2000 02 03	704	0.3− 1.1+
1995 10 11	400	0.2+	0.5−	1999 11 29	120	0.3+	0.7−	2000 02 03	049	1.5− 0.7−
1999 10 03	704	1.6−	0.7+	1999 11 29	120	0.1+	0.5−	2000 02 03	049	1.1− 1.0−
1999 10 03	704	0.4+	1.2+	1999 12 03	699	0.3+	1.1+	2000 02 03	049	1.3− 0.8−
1999 10 03	704	0.8−	1.5+	1999 12 03	699	0.5+	1.1+	2000 02 03	049	1.7− 1.0−
1999 10 03	704	0.6−	0.7+	1999 12 03	699	0.5+	1.1+	2000 02 03	049	1.7− 0.8−
1999 10 03	704	1.0+	0.0	1999 12 04	703	0.4−	0.4+	2000 02 03	049	1.8− 1.0−
1999 11 03	704	0.1+	0.0	1999 12 04	703	0.7−	0.2+	2000 02 07	703	0.3+ 0.3−
1999 11 03	704	0.2+	0.0	1999 12 04	703	0.0	0.6+	2000 02 07	703	0.7+ 0.0
1999 11 03	704	0.1+	0.5−	1999 12 04	703	0.4−	0.2+	2000 02 07	703	0.4+ 0.5+
1999 11 03	704	0.0	0.4−	1999 12 07	704	0.2−	0.0	2000 02 07	703	0.2− 0.6+
1999 11 03	704	0.1+	0.8−	1999 12 07	704	0.5−	0.1−	2000 02 08	049	(2.4− 0.5−)
1999 11 09	704	0.4+	0.5+	1999 12 07	704	0.6−	0.4+	2000 02 08	049	(2.2− 0.3−)
1999 11 09	704	0.3+	0.5+	1999 12 07	704	0.1−	0.1+	2000 02 08	049	(2.3− 0.6−)
1999 11 09	704	0.4+	0.6+	1999 12 07	704	0.2−	0.4+	2000 03 03	703	0.4− 0.4+
1999 11 09	704	1.2+	0.1+	1999 12 08	704	0.1−	0.2−	2000 03 03	703	0.4− 0.3+
1999 11 09	704	0.3+	0.1+	1999 12 08	704	0.2−	0.3−	2000 03 03	703	1.5+ 0.8−
1999 11 12	704	0.4+	0.1−	1999 12 08	704	0.3−	0.4−	2000 03 03	703	0.9+ 0.8+
1999 11 12	704	0.4+	0.1+	1999 12 08	704	0.3−	0.8−	2000 03 05	704	0.2− 0.5+
1999 11 12	704	0.5+	0.2+	1999 12 08	704	0.3−	0.9−	2000 03 05	704	0.0 0.1+
1999 11 12	704	0.7+	0.4+	1999 12 13	691	0.5−	1.6+	2000 03 05	704	0.5+ 0.2−
1999 11 12	704	0.6+	0.7+	1999 12 13	691	0.0	0.1−	2000 03 05	704	0.7+ 0.4+
1999 11 16	704	0.4+	0.7−	1999 12 13	691	0.2+	0.0	2000 03 05	704	(2.2+ 0.6+)
1999 11 16	704	0.6+	0.9−	1999 12 29	106	0.1+	0.3+			
1999 11 16	704	0.3+	0.7−	1999 12 29	106	0.0	0.3−			

(14219)* 1999 VY₇₇

Discovered 1999 Nov. 3 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	359.72837		(2000.0)		<i>P</i>		<i>Q</i>		
<i>n</i>	0.24660303	ω	30.18462		-0.37739364		-0.91986204		
<i>a</i>	2.5184719	Ω	82.16778		+0.82659623		-0.38665470		
<i>e</i>	0.0575148	<i>i</i>	6.19473		+0.41750774		-0.06596948		
<i>P</i>	4.00	<i>H</i>	13.9		<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1992 01 25	675	0.6-	0.2+	1998 09 24	699	(3.5-	2.7+)	2000 01 03	704	0.0	0.8-
1992 01 25	675	0.4+	0.4-	1998 09 24	699	0.2+	1.4+	2000 01 03	704	0.2+	0.2+
1995 10 27	675	0.2+	0.4+	1998 09 24	699	0.7-	0.4+	2000 01 03	704	0.4+	0.3-
1995 10 27	675	0.0	0.4-	1999 11 03	704	0.1-	0.8-	2000 01 04	704	0.2-	0.0
1996 01 14	675	0.3-	0.1+	1999 11 03	704	0.9+	0.3-	2000 01 04	704	0.0	0.1-
1996 01 14	675	0.6+	0.0	1999 11 03	704	0.3+	0.1-	2000 01 04	704	0.4-	0.3-
1997 05 07	704	0.5-	1.1-	1999 11 03	704	0.3+	0.4+	2000 01 04	704	0.3-	0.3-
1997 05 07	704	0.7-	0.2+	1999 11 05	704	0.4-	0.5-	2000 01 30	704	0.2-	0.3+
1997 05 07	704	0.3-	0.1+	1999 11 05	704	0.8+	1.1-	2000 01 30	704	0.0	0.0
1997 05 07	704	0.0	0.2+	1999 11 05	704	0.6+	0.3-	2000 01 30	704	0.5-	0.3+
1997 05 07	704	0.0	0.1-	1999 11 05	704	1.4+	0.1+	2000 01 30	704	0.2-	0.2+

1997 05 07	704	0.0	0.2+	1999 11 05	704	0.2-	0.3-	2000 01 30	704	0.5-	0.1+
1997 05 07	704	0.3-	0.0	1999 12 07	704	0.3+	0.3-	2000 01 31	704	0.2+	0.4+
1997 05 07	704	0.0	0.3+	1999 12 07	704	0.5-	0.5+	2000 01 31	704	0.0	0.4+
1997 05 07	704	0.2-	0.6+	1999 12 07	704	0.5-	0.1+	2000 01 31	704	0.5-	0.7+
1997 05 07	704	0.4-	0.4+	1999 12 07	704	0.1-	0.2+	2000 01 31	704	1.0-	0.8+
1997 05 29	910	0.8+	0.2-	1999 12 07	704	0.3-	0.3+	2000 03 06	704	0.9+	0.4+
1997 05 29	910	0.9+	0.3-	2000 01 03	704	0.3+	0.1-	2000 03 06	704	0.2+	0.6+
1997 05 29	910	0.9+	0.3-	2000 01 03	704	0.8-	0.5+	2000 03 06	704	0.5+	0.3+

(14220)* 1999 VE₁₁₅ = 1968 QD = 1971 DV = 1990 ST₁₉ = 1997 BU₆
= 1997 EQ₂₃

Discovered 1999 Nov. 9 by the Catalina Sky Survey.

Id. G. V. Williams (*MPC* 38579)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	129.93626		(2000.0)	P	Q		
<i>n</i>	0.22586408	ω	325.05180	+0.01789382	+0.98806744		
<i>a</i>	2.6703689	Ω	305.49749	-0.86918838	-0.06024742		
<i>e</i>	0.1638107	<i>i</i>	10.83039	-0.49415724	+0.14174974		
<i>P</i>	4.36	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1968 08 24	095	(5.3+	0.6+)	1999 09 21	699	1.1-	0.2+	1999 11 10	703	0.9-	0.1+
1968 08 28	095	(0.5+	9.5+)	1999 09 21	699	0.3+	0.4-	1999 11 10	703	0.5-	0.1+
1968 08 31	095	(1.9-	8.9+)	1999 10 05	704	0.2+	0.6+	1999 11 10	703	0.1-	0.1+
1971 02 18	095	(3.6-	5.1-)	1999 10 05	704	0.2+	0.4+	1999 12 07	699	0.5-	1.0+
1990 09 18	675	0.5+	0.8-	1999 10 05	704	0.1+	0.6+	1999 12 07	699	0.3-	0.2+
1990 09 18	675	0.9+	1.7-	1999 10 05	704	0.3+	0.8+	1999 12 07	699	0.6-	1.2+
1997 01 31	901	(39.2-	1.9+)	1999 10 05	704	0.4+	0.4+	1999 12 08	704	0.1-	1.4+
1997 01 31	901	(37.8-	2.1+)	1999 10 28	703	0.6-	0.4-	1999 12 08	704	0.6+	0.1-
1997 02 03	901	0.3-	0.0	1999 10 28	703	0.4-	0.2-	1999 12 08	703	0.8-	0.4-
1997 02 03	901	0.5+	0.5-	1999 10 28	703	0.2-	0.0	1999 12 08	704	1.0+	0.3-
1997 03 04	691	0.1-	0.4+	1999 10 28	703	0.4-	0.1+	1999 12 08	703	0.0	0.2+
1997 03 04	691	0.0	0.3+	1999 11 03	704	0.1+	0.0	1999 12 08	704	1.2+	0.4-
1997 03 04	691	0.1+	0.1+	1999 11 03	704	0.1+	0.0	1999 12 08	703	0.4-	0.1-
1997 03 12	691	0.2-	0.1+	1999 11 03	704	0.5+	0.1+	1999 12 08	704	1.1+	1.5-
1997 03 12	691	0.1-	0.1-	1999 11 03	704	0.8+	0.1+	1999 12 08	703	0.5-	0.3+
1997 03 12	691	0.1+	0.0	1999 11 03	704	0.5+	0.2-	2000 01 06	704	0.2-	0.2-
1998 08 15	704	0.1+	1.7+	1999 11 09	703	0.4-	0.0	2000 01 06	704	0.1+	0.3-
1998 08 15	704	(0.7+	3.5+)	1999 11 09	703	0.4-	0.0	2000 01 06	704	0.1+	0.8-
1998 08 15	704	(0.4+	4.4+)	1999 11 09	703	0.3-	0.2+	2000 01 06	704	0.5+	0.4-
1998 08 15	704	(1.6+	3.0+)	1999 11 09	703	0.4-	0.1-	2000 01 06	704	1.1+	0.5-
1999 09 21	699	0.4-	0.5+	1999 11 10	703	0.7-	0.2+				

(14221)* 1999 WL = 1980 BX = 1980 DW₁ = 1992 UK₄ = 1996 WN₃
= 1998 MP₃₅

Discovered 1999 Nov. 16 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 37237)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	355.31103		(2000.0)	P	Q		
<i>n</i>	0.29163485	ω	15.13495	-0.41196134	-0.90519362		
<i>a</i>	2.2520417	Ω	99.28420	+0.82463312	-0.41913637		
<i>e</i>	0.0979792	<i>i</i>	6.07608	+0.38764427	-0.07035069		
<i>P</i>	3.38	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1980 01 23	095	(0.4-	3.1-)	1999 11 17	704	0.8-	0.1+	2000 01 05	704	0.7+	0.4+
1980 02 20	095	0.0	0.2+	1999 11 17	704	0.2+	0.0	2000 01 05	704	(0.2+	2.2+)
1992 10 26	400	0.8+	0.4-	1999 11 17	704	0.3-	0.8+	2000 01 05	704	0.0	0.1+
1992 10 26	400	0.2-	0.7-	1999 11 17	704	0.3-	1.0+	2000 01 05	704	0.1+	0.1+
1996 11 30	327	0.1+	0.4+	1999 11 17	704	0.3-	0.9+	2000 01 05	704	0.0	0.3+
1996 11 30	327	0.3-	1.0-	1999 11 18	411	1.3-	0.4+	2000 01 06	704	0.4+	0.1+
1996 11 30	327	0.4-	0.7-	1999 11 18	411	0.8-	0.3-	2000 01 06	704	0.2+	0.1-
1998 06 24	704	0.1-	0.7-	1999 11 21	411	0.1+	0.3+	2000 01 06	704	0.2+	0.0
1998 06 24	704	(2.3-	1.2-)	1999 11 21	411	0.1-	0.3+	2000 01 06	704	0.4+	0.6+
1998 06 24	704	0.9-	0.1+	1999 11 21	411	0.7-	0.3-	2000 01 06	704	0.3+	0.5+

1998 06 24	704	1.5-	0.7-	1999 12 07	704	0.6+	1.0-	2000 01 31	704	0.3+	0.5+
1998 06 24	699	0.2+	0.9+	1999 12 07	704	0.1-	0.3-	2000 01 31	704	0.3+	1.2-
1998 06 24	704	0.2+	1.5-	1999 12 07	704	0.0	0.3-	2000 01 31	704	1.1+	0.6-
1998 06 24	699	0.8+	1.3+	1999 12 07	704	0.0	0.2-	2000 01 31	704	1.2+	1.0+
1998 06 24	699	1.2+	0.8+	1999 12 08	704	0.1+	0.7-	2000 02 02	704	0.9-	1.0-
1998 06 26	704	0.3+	0.0	1999 12 08	704	0.4-	0.6-	2000 02 02	704	1.8+	0.6-
1998 06 26	704	0.8-	0.1-	1999 12 08	704	0.0	0.1-	2000 02 02	704	1.1+	0.8-
1998 06 26	704	0.4-	0.4-	1999 12 08	704	0.1-	0.1-	2000 02 02	704	0.2+	0.8+
1998 06 26	704	1.3+	0.3-	1999 12 08	704	0.3-	0.1+	2000 02 02	704	1.3+	0.7+
1998 07 16	699	0.2+	1.2+	1999 12 15	703	0.7-	0.6+	2000 02 11	704	0.2+	0.3-
1998 07 16	699	0.0	0.8+	1999 12 15	703	0.9+	0.4+	2000 02 11	704	0.6+	0.1-
1998 07 16	699	0.7-	0.8+	1999 12 15	703	0.3-	0.3+	2000 02 11	704	1.0-	0.4+
1999 11 15	704	0.3+	0.3-	1999 12 15	703	0.6-	0.5+	2000 02 11	704	0.1+	0.3+
1999 11 15	704	0.3+	0.0	1999 12 29	106	0.1+	0.1+	2000 02 11	704	0.2+	0.2+
1999 11 15	704	0.0	0.1-	1999 12 29	106	0.1+	0.2+	2000 03 04	704	0.6-	1.0+
1999 11 15	704	0.2-	0.1+	1999 12 29	106	0.2+	0.0	2000 03 04	704	0.6-	1.4+
1999 11 15	704	0.3-	0.4+	2000 01 02	691	0.1+	0.5-	2000 03 04	704	1.7-	1.2+
1999 11 16	411	0.7-	0.4-	2000 01 02	691	0.2+	0.5-	2000 03 04	704	0.9-	0.2+
1999 11 16	411	0.8-	0.9-	2000 01 02	691	0.1+	0.5-	2000 03 04	704	(1.4-	2.5+)

(14222)* 1999 WS₁

Discovered 1999 Nov. 25 by K. Korlević at Višnja.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	51.33552		(2000.0)	P	Q		
<i>n</i>	0.17894013	ω	84.57525	+0.66473510	+0.71246530		
<i>a</i>	3.1188720	Ω	229.72692	-0.74706710	+0.63221834		
<i>e</i>	0.5383507	<i>i</i>	17.13324	-0.00424090	+0.30445553		
<i>P</i>	5.51	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1982 07 10	413	1.1+	0.6+	1999 11 14	704	0.2-	0.2-	1999 12 11	610	0.9+	0.8-
1982 07 10	413	1.3-	0.1-	1999 11 14	703	0.3-	0.3+	1999 12 11	610	0.7+	0.9-
1993 05 17	675	0.1+	0.8-	1999 11 14	704	0.4-	0.5-	1999 12 11	610	0.4+	1.0-
1993 05 17	675	0.2-	0.7-	1999 11 14	703	0.6-	0.1+	1999 12 11	610	0.2+	1.0-
1993 05 19	675	0.4+	1.1+	1999 11 14	691	0.4+	1.1+	1999 12 11	610	0.1-	1.2-
1993 05 19	675	0.3-	0.7+	1999 11 14	703	0.6-	0.0	1999 12 12	703	0.2-	0.0
1999 09 26	699	0.1+	0.0	1999 11 14	691	0.4+	1.3+	1999 12 12	703	0.3-	0.1-
1999 09 26	699	0.6-	0.4+	1999 11 14	691	0.5+	1.0+	1999 12 12	703	0.3-	0.6+
1999 09 26	699	0.0	0.4+	1999 11 16	704	0.3-	0.3+	1999 12 12	703	0.3-	0.2-
1999 10 05	704	0.1-	0.3-	1999 11 16	704	0.3-	0.5+	1999 12 13	120	0.2-	0.1+
1999 10 05	704	0.5+	0.1-	1999 11 16	704	0.1+	0.1-	1999 12 13	120	0.2+	0.0
1999 10 05	704	0.6+	0.7-	1999 11 16	704	0.0	0.0	1999 12 13	610	0.0	0.6+
1999 10 05	704	0.1+	0.4-	1999 11 25	120	0.1+	0.3-	1999 12 13	120	0.2+	0.4+
1999 10 05	704	0.4+	0.9-	1999 11 25	120	0.2+	0.3+	1999 12 13	610	0.1-	0.5+
1999 10 15	699	0.5-	0.4+	1999 11 25	120	1.0+	0.5-	1999 12 13	610	0.2-	0.3+
1999 10 15	699	0.2-	0.1-	1999 11 26	120	0.1+	0.3-	1999 12 13	610	0.3-	0.1+
1999 10 15	699	0.0	0.3+	1999 11 26	120	1.2+	0.3-	1999 12 13	610	0.3-	0.1-
1999 10 22	704	0.0	0.2+	1999 11 27	120	0.4+	0.4-	1999 12 13	610	0.3-	0.3-
1999 10 22	704	0.2-	0.2-	1999 11 27	120	0.5+	1.1-	1999 12 16	402	0.0	0.2+
1999 10 22	704	0.2+	0.2-	1999 11 28	691	0.2+	0.2-	1999 12 16	402	0.4-	0.4-
1999 10 22	704	0.0	0.3-	1999 11 28	691	0.2+	0.1-	1999 12 16	402	0.3-	0.0
1999 10 22	704	0.2+	0.1+	1999 11 28	691	0.3+	0.2-	1999 12 17	120	1.0-	0.2+
1999 10 29	703	0.5-	0.3+	1999 11 30	120	0.4+	0.4-	1999 12 17	120	0.6-	0.6-
1999 10 29	703	0.5-	0.4+	1999 11 30	120	0.2-	0.6-	1999 12 17	120	0.1-	0.4+
1999 10 29	703	0.1+	0.1+	1999 12 04	703	0.8-	0.1-	2000 01 03	587	0.0	0.3+
1999 10 29	703	0.3-	0.1+	1999 12 04	703	0.5-	0.3+	2000 01 03	587	0.1+	0.2+
1999 11 03	704	0.1-	0.5-	1999 12 04	703	0.3-	0.5+	2000 01 05	704	0.1+	0.1-
1999 11 03	704	0.2+	0.3-	1999 12 04	703	0.5-	0.2-	2000 01 05	704	0.2+	0.7+
1999 11 03	704	0.3+	0.2+	1999 12 06	704	0.1+	0.1+	2000 01 05	704	0.1+	1.0+
1999 11 03	699	0.6-	0.4+	1999 12 06	704	0.0	0.9+	2000 01 05	704	0.5-	0.5+
1999 11 03	704	0.1+	0.1+	1999 12 06	704	0.3+	0.3-	2000 01 05	704	0.5+	0.1+
1999 11 03	699	0.4-	0.8+	1999 12 06	704	0.7+	0.5-	2000 01 06	699	0.6-	1.1+
1999 11 03	704	0.0	0.2+	1999 12 06	704	0.5+	0.5-	2000 01 06	699	0.0	0.2-
1999 11 03	699	0.5-	0.3+	1999 12 07	704	0.2-	0.5+	2000 01 06	699	0.3-	0.5+
1999 11 11	703	0.5-	0.2-	1999 12 07	704	0.1+	0.1+	2000 01 07	704	1.7+	0.2-
1999 11 11	703	0.4-	0.1+	1999 12 07	704	0.0	0.3-	2000 01 07	704	0.2+	0.4+
1999 11 11	703	0.5-	0.2+	1999 12 07	704	0.2+	0.0	2000 01 07	704	0.1+	0.2+

2000 MAR. 20

M.P.C. 39115

1999 11 11	703	0.5−	0.2+	1999 12 07	704	0.4+	0.2−	2000 01 07	704	0.3+	0.3+
1999 11 14	704	0.3+	0.2−	1999 12 07	120	0.1+	0.1−	2000 01 07	704	0.2+	0.6+
1999 11 14	704	0.9+	1.4−	1999 12 07	120	0.9+	0.4−				
1999 11 14	703	0.4−	0.0	1999 12 07	120	0.5−	0.1−				

(14223)* 1999 XW₁ = 1966 UF = 1977 TW₇ = 1997 EU₃₇

Discovered 1999 Dec. 3 by C. W. Juels at Fountain Hills.

Id. G. V. Williams (*MPC* 37244), S. Nakano (*MPC* 38581)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

M	60.97566		(2000.0)	P	Q
n	0.26981917	ω	249.38018	+0.99442902	+0.08339825
a	2.3718516	Ω	105.79212	−0.05279875	+0.92341416
e	0.3015484	i	3.84129	−0.09123165	+0.37463451
P	3.65	H	14.5	G 0.15	U 2

Residuals in seconds of arc

1966 10 18	095	0.9−	0.1−	1999 11 04	704	0.2+	0.3+	1999 12 06	704	0.0	0.4−
1977 10 10	095	1.4+	0.4+	1999 11 04	704	0.2−	0.1+	1999 12 06	704	0.4+	0.1−
1997 02 04	566	0.3−	0.7−	1999 11 04	704	0.0	0.2+	1999 12 06	704	0.1+	1.5−
1997 02 04	566	1.0−	0.0	1999 11 04	704	0.1−	0.1+	1999 12 06	704	1.0−	1.1−
1997 02 04	566	1.3−	0.1−	1999 11 17	704	0.4−	0.1+	1999 12 17	120	0.6+	1.0−
1997 03 05	704	0.2+	0.3−	1999 11 17	704	0.4−	0.3−	1999 12 17	120	0.2−	0.4−
1997 03 05	704	0.3+	0.6+	1999 11 17	704	0.2−	0.2+	1999 12 30	699	0.9−	0.1+
1997 03 06	704	1.1+	0.0	1999 11 17	704	0.3−	0.3−	1999 12 30	699	1.5−	0.1−
1997 03 06	704	0.7+	0.6−	1999 11 17	704	1.2−	0.2−	1999 12 30	699	0.4−	1.5+
1998 04 19	688	0.4−	0.1+	1999 12 02	699	0.5+	0.1−	2000 01 05	704	0.6+	0.5+
1998 04 19	688	0.9−	0.2−	1999 12 02	699	0.1+	0.1+	2000 01 05	704	0.1−	0.1+
1998 04 19	688	0.7−	0.1−	1999 12 02	699	0.2+	0.0	2000 01 05	704	0.3+	0.2−
1998 04 22	704	0.0	0.4−	1999 12 03	678	0.2+	0.1+	2000 01 05	704	0.2+	0.2−
1998 04 22	704	0.4+	0.7−	1999 12 03	678	0.2+	0.2−	2000 01 05	704	0.0	0.8+
1998 04 22	704	0.0	0.5−	1999 12 04	678	0.1−	0.3+	2000 01 05	106	0.0	0.7+
1998 04 22	704	1.1+	0.7+	1999 12 04	678	0.2+	0.1−	2000 01 05	106	0.1+	0.6+
1998 04 22	704	0.0	0.5−	1999 12 04	678	0.2+	0.2−	2000 01 05	106	0.1+	0.5+
1999 10 03	704	0.9−	0.2+	1999 12 04	703	0.0	0.2+	2000 01 06	704	0.0	0.6−
1999 10 03	704	0.3−	0.5−	1999 12 04	703	0.1−	0.2+	2000 01 06	704	0.6+	0.4−
1999 10 03	704	1.3+	0.2+	1999 12 04	703	0.2−	0.1+	2000 01 06	704	0.4+	0.3+
1999 10 20	704	1.1+	0.2−	1999 12 04	703	0.0	0.2+	2000 01 06	704	0.6+	0.2+
1999 10 20	704	0.4+	0.2−	1999 12 05	703	0.1−	0.1+	2000 02 03	704	0.7−	0.2+
1999 10 20	704	0.7+	0.8−	1999 12 05	703	0.2−	0.3+	2000 02 03	704	0.4−	0.8+
1999 10 20	704	0.5+	0.6−	1999 12 05	703	0.4−	0.3+	2000 02 03	704	0.2+	0.8+
1999 10 20	704	0.3−	0.8−	1999 12 05	703	0.3−	0.1+				
1999 11 04	704	0.3+	0.1−	1999 12 06	704	0.6+	0.1+				

(14224)* 1999 XU₃₃ = 1987 DC₂ = 1994 TW₁₄ = 1998 QU₂₁

Discovered 1999 Dec. 6 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. A. Doppler (*MPC* 38584), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	61.18549		(2000.0)	P	Q
n	0.22723421	ω	132.62158	+0.52284658	−0.85232306
a	2.6596240	Ω	285.85048	+0.77798421	+0.48350430
e	0.1977269	i	0.79210	+0.34838487	+0.19942165
P	4.34	H	14.3	G 0.15	U 1

Residuals in seconds of arc

1987 02 23	010	(3.4+	3.9−)	1999 12 07	704	0.2−	0.3−	2000 02 03	704	0.1+	0.3+
1987 02 23	010	0.8−	1.2−	1999 12 07	704	0.0	0.1+	2000 02 03	704	0.1−	0.3+
1987 02 23	010	0.0	1.5−	1999 12 07	704	0.1+	0.4−	2000 02 05	695	0.2−	0.1−
1994 10 04	114	1.0−	0.2−	1999 12 07	704	0.1−	0.4−	2000 02 05	695	0.5−	0.1−
1994 10 07	114	1.8+	0.2+	2000 01 04	704	0.2+	0.0	2000 02 07	691	0.5−	0.4−
1994 10 08	114	0.6−	0.9−	2000 01 04	704	0.4+	0.1+	2000 02 07	691	0.4−	0.4−
1998 08 17	704	0.6+	0.0	2000 01 04	704	0.4+	0.3−	2000 02 07	691	0.4−	0.3−
1998 08 17	704	0.4−	0.7−	2000 01 04	704	0.3−	0.4+	2000 02 26	703	0.0	1.2+
1998 08 17	704	0.4+	0.2−	2000 01 04	704	1.7+	0.0	2000 02 26	703	0.2−	0.4+
1998 08 17	704	0.8−	0.5+	2000 01 06	120	0.0	0.2−	2000 02 26	703	1.2−	0.4+

1998 08 17	704	0.7+	0.5+	2000 01 06	120	0.1−	0.4−	2000 02 26	703	0.5+	0.5−
1998 08 23	699	0.3+	0.6−	2000 01 07	120	0.0	0.1−	2000 03 04	704	0.1−	0.8+
1998 08 23	704	0.1+	0.1−	2000 01 07	120	0.5+	0.1+	2000 03 04	704	0.4+	1.2−
1998 08 23	704	0.5−	1.2+	2000 01 07	704	0.7+	0.1−	2000 03 04	704	0.1+	0.8+
1998 08 23	699	0.6+	0.3−	2000 01 07	704	1.1−	0.5−	2000 03 04	704	0.9+	0.1+
1998 08 23	704	0.7−	0.2+	2000 01 07	704	0.1+	1.2+	2000 03 04	704	0.0	0.6+
1998 08 23	704	0.2+	0.2−	2000 01 07	704	0.3−	0.5−	2000 03 05	704	0.0	0.1−
1998 08 23	699	0.4+	0.2+	2000 01 07	704	0.5+	0.3−	2000 03 05	704	0.0	1.0+
1998 08 23	704	0.8+	0.0	2000 01 26	120	1.2+	0.2−	2000 03 05	704	0.0	0.3+
1998 09 21	699	1.3−	1.4+	2000 01 26	120	1.0−	0.1+	2000 03 05	704	0.1−	0.6+
1998 09 21	699	1.5−	1.5+	2000 01 26	120	0.5−	0.5+	2000 03 05	704	0.7−	1.0+
1998 09 21	699	0.6−	1.3+	2000 01 30	704	0.4+	0.1+	2000 03 05	704	0.5−	0.7−
1999 11 16	704	0.7+	0.1+	2000 01 30	704	0.6+	0.6−	2000 03 05	704	0.1−	0.1−
1999 11 16	704	0.0	0.1−	2000 01 30	703	0.4+	0.2+	2000 03 05	704	0.1+	0.2+
1999 11 16	704	0.0	1.2−	2000 01 30	704	1.8+	0.0	2000 03 05	704	0.0	0.4+
1999 11 16	704	0.3−	0.4+	2000 01 30	703	0.3−	0.3+	2000 03 05	704	0.4−	0.5+
1999 11 16	704	0.1−	0.1+	2000 01 30	703	0.1+	0.6+	2000 03 06	704	0.8+	0.2+
1999 12 06	704	0.4−	0.6−	2000 01 30	703	0.1−	0.2+	2000 03 06	704	0.3+	0.2+
1999 12 06	704	0.6−	0.4−	2000 01 30	120	0.1−	0.4+	2000 03 06	704	0.4+	0.3+
1999 12 06	704	0.1+	0.1−	2000 01 30	120	0.4−	0.4−	2000 03 06	704	0.6+	0.2+
1999 12 06	704	0.0	0.2+	2000 02 03	704	0.2−	0.5+	2000 03 06	704	0.0	1.2+
1999 12 06	704	0.2−	0.8+	2000 02 03	704	0.2−	0.0				
1999 12 07	704	0.0	0.3−	2000 02 03	704	0.1−	0.0				

(14225)* 1999 XZ₄₉ = 1999 VD₂₇ = 1991 KE₃ = 1991 LT₂ = 1998 HD₇₆

Discovered 1999 Dec. 7 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. M. E. Sansaturio (*MPC* 38586), G. V. Williams (d, *MPC* 38194; d,*MPC* 38586)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	116.29837		(2000.0)	P	Q
n	0.27339846	ω	236.25199	+0.59645516	+0.80081190
a	2.3511049	Ω	70.45721	−0.71606873	+0.56142891
e	0.2277982	i	3.29928	−0.36261110	+0.20856145
P	3.61	H	15.0	G 0.15	U 1

Residuals in seconds of arc

1991 05 18	809	0.1−	0.9−	1998 05 01	704	1.0+	1.2+	1999 11 12	704	0.5−	0.1−
1991 05 18	809	0.3−	1.5−	1998 05 16	704	0.3−	0.2−	1999 11 12	704	0.1−	0.2+
1991 05 18	809	0.3+	1.6−	1998 05 16	704	0.7+	1.7+	1999 11 12	704	0.1−	0.2+
1991 06 06	809	0.4+	0.7+	1998 05 16	704	1.6+	0.7−	1999 11 12	704	0.1−	0.2−
1991 06 06	809	0.7−	1.2+	1998 05 16	704	0.9+	0.1−	1999 11 17	704	0.5+	0.3+
1991 06 06	809	0.5+	1.9+	1998 05 16	704	1.7−	1.0−	1999 11 17	704	0.4+	0.3−
1991 06 08	809	(1.7−	5.6+)	1998 05 25	699	0.4−	1.2+	1999 11 17	704	0.4−	0.6−
1991 06 08	809	(1.1−	5.3+)	1998 05 25	699	1.6+	1.0−	1999 11 17	704	0.0	0.1+
1991 06 08	809	(0.5−	4.5+)	1998 05 25	699	0.1+	0.3+	1999 11 17	704	0.1−	0.2+
1997 01 15	566	0.1+	0.0	1999 11 03	704	0.5+	0.4−	1999 12 07	704	0.3−	0.3−
1997 01 15	566	0.1−	0.1−	1999 11 03	704	0.2−	0.5+	1999 12 07	704	0.1−	0.4−
1997 01 15	566	0.0	0.3−	1999 11 03	704	0.4+	1.5+	1999 12 07	704	1.0−	0.0
1998 04 21	704	0.1+	0.3−	1999 11 03	704	0.4+	1.0+	1999 12 07	704	0.3−	0.8−
1998 04 21	704	0.3+	0.0	1999 11 09	704	0.6+	0.2+	1999 12 07	704	0.4−	0.5+
1998 04 21	704	0.8−	0.1−	1999 11 09	704	0.5+	0.1+	1999 12 08	691	0.1−	0.6+
1998 04 21	704	0.7−	1.1−	1999 11 09	704	0.4+	0.3+	1999 12 08	691	0.3−	1.3+
1998 04 22	704	0.1−	0.7−	1999 11 09	704	0.3+	0.9+	1999 12 08	704	0.4−	0.2+
1998 04 22	704	0.6−	0.3−	1999 11 09	704	0.4+	0.2−	1999 12 08	704	0.2+	0.1−
1998 04 22	704	0.1−	0.4−	1999 11 10	704	0.7+	0.2+	1999 12 08	691	0.4−	0.9+
1998 04 22	704	0.1−	0.1−	1999 11 10	704	0.3+	0.3−	1999 12 08	704	0.8−	0.5−
1998 05 01	704	0.3−	0.2−	1999 11 10	704	0.3+	0.3+	1999 12 08	704	0.6−	1.1−
1998 05 01	699	0.5+	0.7+	1999 11 10	704	0.1+	0.9−	1999 12 08	704	0.8−	1.1−
1998 05 01	704	0.4−	0.2+	1999 11 10	704	0.3+	0.2−	1999 12 13	691	0.1+	0.4+
1998 05 01	699	0.5+	0.2−	1999 11 10	691	0.1+	0.0	1999 12 13	691	0.1+	0.4+
1998 05 01	704	0.0	0.7+	1999 11 10	691	0.0	0.1−	1999 12 13	691	0.1+	0.4+
1998 05 01	699	0.6−	1.6+	1999 11 10	691	0.0	0.0				
1998 05 01	704	0.0	1.0+	1999 11 12	704	0.4−	0.3−				

(14226)* 1999 XR₅₀ = 1992 EM₃₃ = 1997 GG₃₆

Discovered 1999 Dec. 7 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 38587)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	329.73958	ω	270.57079	-0.45767926	-0.88882327		
<i>a</i>	2.7073366	Ω	206.70418	+0.83465205	-0.42063766		
<i>e</i>	0.0368897	<i>i</i>	2.91673	+0.30640765	-0.18181624		
<i>P</i>	4.45	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 03 03	809	1.3-	0.4-	1998 08 17	704	0.1-	0.0	1999 12 08	704	0.5-	0.0
1992 03 06	809	0.9+	0.6-	1998 08 17	704	1.1+	0.8+	1999 12 08	704	0.4-	0.3-
1997 04 06	704	1.2+	1.9+	1999 11 04	704	1.3-	1.5+	1999 12 12	691	0.2+	0.2+
1997 04 06	704	1.4+	0.2-	1999 11 04	704	0.2-	0.7+	1999 12 12	691	0.3+	0.1+
1997 04 11	704	0.8+	0.1+	1999 11 04	704	0.2+	0.4-	1999 12 12	691	0.2+	0.2+
1997 04 11	704	0.4+	0.3+	1999 12 07	704	0.7-	0.8+	1999 12 31	691	0.3+	0.3+
1997 05 04	809	0.4-	0.5+	1999 12 07	704	0.0	1.1+	1999 12 31	691	0.3+	0.3+
1997 05 04	809	1.4-	0.6+	1999 12 07	704	0.3-	0.2-	1999 12 31	691	0.2+	0.4+
1997 05 04	809	0.7-	1.6+	1999 12 07	704	0.4+	0.0	2000 01 05	691	0.3+	0.1-
1998 08 17	704	0.9-	1.4+	1999 12 08	704	0.1-	0.5-	2000 01 05	691	0.1+	0.2-
1998 08 17	704	0.4-	1.5-	1999 12 08	704	0.3+	0.8+	2000 01 05	691	0.2+	0.2-

(14227)* 1999 XW₈₅ = 1984 DH₂ = 1986 RF₉ = 1990 FH₁ = 1991 NM₇ = 1998 VU₂₃

Discovered 1999 Dec. 7 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 38589), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	267.83860	ω	88.67865	-0.74573224	+0.66562836		
<i>a</i>	3.1053683	Ω	133.05090	-0.62581336	-0.68506107		
<i>e</i>	0.1174115	<i>i</i>	2.24899	-0.22856306	-0.29602402		
<i>P</i>	5.47	<i>H</i>	12.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1984 02 26	095	1.2+	0.2+	1996 06 13	566	0.4+	0.1-	1999 12 07	704	0.7-	0.3+
1986 09 08	095	1.3+	1.5-	1996 06 13	566	0.8+	0.0	1999 12 08	704	1.0+	0.4-
1990 03 27	400 (9.3-	22.2+)		1998 11 10	704	0.2-	0.4-	1999 12 08	704	0.4+	0.2+
1990 03 27	400 (10.0-	23.1+)		1998 11 10	704	1.4+	0.4+	1999 12 08	704	0.2+	0.7-
1990 03 29	400 (4.8+	14.6+)		1998 11 10	704	1.0+	0.6+	1999 12 08	704	0.7+	0.9-
1990 03 29	400 (0.4-	12.5+)		1998 11 10	704	0.8-	1.0+	1999 12 08	704 (2.3-	0.7-)	
1990 04 01	675	1.0-	0.6+	1998 11 10	704	1.3-	1.6+	1999 12 16	684	0.2-	0.5-
1990 04 01	675	1.1-	0.2+	1998 11 11	704	0.1+	0.7-	1999 12 16	684	0.3-	0.5-
1990 04 19	400	0.8-	1.7-	1998 11 11	704	0.3-	0.5-	1999 12 17	684	0.0	0.2-
1990 04 19	400	0.8+	0.4+	1998 11 11	704	0.0	1.1-	1999 12 17	684	0.1+	0.4-
1990 04 20	400 (3.5+	2.4+)		1998 11 11	704	0.5-	1.0-	2000 01 05	704	0.1-	0.9+
1990 04 20	400 (2.8+	0.7+)		1998 11 11	704 (0.0	2.1-)		2000 01 05	704	0.2+	0.6+
1991 07 12	809	0.1-	0.1-	1998 11 11	699	0.1-	0.5+	2000 01 05	704	0.1+	0.6+
1991 07 12	809	0.2-	0.1+	1998 11 11	699	0.4+	0.4-	2000 01 05	704	0.3-	0.7+
1991 07 12	809	0.1+	0.2+	1998 11 11	699	0.5-	0.0	2000 01 05	704	0.2+	0.8+
1991 07 14	809	0.0	0.1-	1998 11 24	699	0.3-	0.1+	2000 02 02	704	0.1+	0.5+
1991 07 14	809	0.1+	0.3-	1998 11 24	699	0.3+	0.3+	2000 02 02	704	0.1-	0.4+
1991 07 14	809	0.4+	0.2-	1998 11 24	699	0.3-	0.1+	2000 02 02	704	0.1-	0.6+
1991 07 15	809	0.6-	1.4+	1998 12 08	699	0.6+	0.0	2000 02 02	704	0.2-	0.7+
1991 07 15	809	0.6-	1.5+	1998 12 08	699	0.2+	0.1-	2000 02 02	704	0.1-	0.7+
1991 07 15	809	0.3-	1.5+	1998 12 08	699	0.1+	0.3-	2000 02 03	704	0.5-	0.4+
1991 07 16	809	0.9-	1.4+	1999 12 07	704 (2.6+	0.4+)		2000 02 03	704	0.1-	0.4+
1991 07 16	809	0.6-	1.5+	1999 12 07	704	0.2-	0.1+	2000 02 03	704	0.0	0.8+
1991 07 16	809	0.2-	1.5+	1999 12 07	704	0.2+	0.5+	2000 02 03	704	0.3+	0.6+
1996 06 13	566	0.7+	0.5+	1999 12 07	704	0.0	1.3+	2000 02 03	704	0.1+	0.9+

(14228)* 1999 XQ₈₈ = 1989 TC₆ = 1992 HO₂ = 1998 SX₁₁₃

Discovered 1999 Dec. 7 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38590)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	264.45391	ω	116.89886	-0.81364886	+0.57673436		
<i>a</i>	2.7346589	Ω	98.40833	-0.55617668	-0.73558146		
<i>e</i>	0.0700270	<i>i</i>	4.24143	-0.16924253	-0.35538346		
<i>P</i>	4.52	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1989 10 07	809	1.0+	0.6+	1998 09 26	704	0.0	0.6-	1999 12 08	704	0.2-	0.1-
1989 10 07	809	0.1-	0.5+	1998 09 26	704	0.2-	1.5-	2000 01 03	704	0.2-	0.1-
1989 10 07	809	1.7-	1.4-	1998 09 27	704	0.4-	0.8+	2000 01 03	704	0.5-	0.6-
1989 10 08	809	0.6+	0.8+	1998 09 27	704	0.7-	0.3-	2000 01 03	704	0.4-	0.3-
1989 10 08	809	0.6+	0.9+	1998 09 27	704	0.2+	0.2+	2000 01 04	704	0.0	0.2-
1989 10 08	809	1.1-	0.4+	1998 09 27	704	0.1+	0.2-	2000 01 04	704	0.0	0.0
1992 04 28	691	0.4-	0.4+	1998 09 27	704	0.5+	1.1-	2000 01 04	704	0.1-	0.3-
1992 04 28	691	0.1+	0.3+	1999 12 07	704	0.1-	0.0	2000 01 04	704	0.1-	0.4-
1992 04 28	691	0.2+	0.5-	1999 12 07	704	0.6-	0.8+	2000 01 04	704	0.0	0.5-
1992 05 03	691	0.4-	0.5-	1999 12 07	704	0.3+	0.3-	2000 01 30	704	0.3+	0.4+
1992 05 03	691	0.3+	0.3-	1999 12 07	704	0.4-	0.4-	2000 01 30	704	0.8+	0.4+
1992 05 03	691	0.0	0.2+	1999 12 08	704	0.2+	0.4+	2000 01 30	704	0.3+	0.9+
1998 09 26	704	1.3+	0.6+	1999 12 08	704	0.1+	0.7-	2000 01 31	704	0.2+	0.2+
1998 09 26	704	0.0	0.1+	1999 12 08	704	0.2+	0.2+	2000 01 31	704	0.3+	0.0
1998 09 26	704 (2.2+	0.6-)		1999 12 08	704	0.4-	0.3-	2000 01 31	704	0.3+	0.6+

(14229)* 1999 XV₉₄ = 1983 EH₂ = 1991 UJ₃ = 1998 VK₃₇

Discovered 1999 Dec. 7 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38592)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	196.92403	ω	314.17679	+0.76438760	+0.64471453		
<i>a</i>	2.3047142	Ω	5.69337	-0.56823238	+0.67904343		
<i>e</i>	0.1769206	<i>i</i>	4.27795	-0.30466959	+0.35106010		
<i>P</i>	3.50	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1983 03 11	381	1.2+	0.6-	1998 11 11	704	0.4+	1.9+	2000 02 25	703	0.2+	0.4+
1983 03 11	381	1.0+	0.8-	1999 12 07	704	0.2-	0.4-	2000 02 25	703	0.1-	0.4+
1991 10 31	399	0.7-	1.3-	1999 12 07	704	0.2+	1.3-	2000 02 25	703	0.1+	0.6+
1991 10 31	399	(2.4-	1.2-)	1999 12 07	704	0.9+	0.2-	2000 02 27	106	0.1+	0.1+
1991 11 04	399	(0.9+	2.1+)	1999 12 07	704	0.5-	0.1+	2000 02 27	106	0.1+	0.2+
1991 11 04	399	0.5-	0.3+	1999 12 08	704	0.4+	1.7-	2000 02 28	106	0.1+	0.2+
1991 11 05	399	1.7-	0.6+	1999 12 08	704	0.1-	0.9-	2000 02 28	704	0.4+	0.8-
1991 11 05	399	0.5-	0.0	1999 12 08	704	0.4+	0.1-	2000 02 28	704	0.2+	0.3-
1991 11 09	399	(4.1+	0.1+)	1999 12 08	704	0.1-	1.0-	2000 02 28	704	0.2+	0.2+
1991 11 09	399	(2.6+	1.2-)	2000 01 10	699	0.5+	1.1-	2000 03 05	704	0.0	0.2+
1997 04 01	809	1.0-	1.0-	2000 01 10	699	0.1-	0.5-	2000 03 05	704	0.1+	0.2+
1997 04 01	809	1.5-	1.1-	2000 01 10	699	0.2-	0.0	2000 03 05	704	0.3+	0.2+
1997 04 01	809	1.4-	1.1-	2000 02 02	703	0.2+	0.7+	2000 03 05	704	0.5+	0.4+
1998 08 31	704	0.2-	1.7-	2000 02 02	703	0.5-	0.6+	2000 03 05	704	0.8+	0.5+
1998 08 31	704	0.6+	0.7-	2000 02 02	703	0.0	0.4+	2000 03 05	608	0.4-	0.5-
1998 08 31	704	0.1+	0.6+	2000 02 02	703	0.4-	0.4+	2000 03 05	608	0.3-	0.8-
1998 08 31	704	0.1+	2.0+	2000 02 04	704	0.0	0.4+	2000 03 05	608	0.0	0.3-
1998 08 31	704	0.0	1.2-	2000 02 04	704	0.3-	0.2+	2000 03 11	699	0.5+	0.6+
1998 11 10	704	0.0	0.6-	2000 02 04	704	0.1+	0.6+	2000 03 11	699	0.1-	0.3+
1998 11 10	704	0.7+	1.1-	2000 02 04	704	0.1-	0.4+	2000 03 11	699	0.6-	0.3-
1998 11 10	704	1.4+	1.1-	2000 02 04	704	0.1-	0.6+	2000 03 12	704	0.3-	0.7+
1998 11 10	704	0.2+	0.5-	2000 02 11	704	(0.9-	2.8+)	2000 03 12	704	0.8-	0.1-
1998 11 10	704	0.8+	0.1+	2000 02 11	704	0.1-	0.5+	2000 03 12	704	0.6-	0.4-
1998 11 11	704	0.2+	0.0	2000 02 11	704	0.0	0.3+	2000 03 12	704	0.5-	0.3-

2000 MAR. 20

M.P.C. 39117

1998 11 11 704 0.1- 0.3+ 2000 02 11 704 0.3+ 0.6+ 2000 03 12 704 0.2- 0.7-
 1998 11 11 704 0.4- 0.4- 2000 02 11 704 0.7+ 0.3+
 1998 11 11 704 0.8+ 0.2- 2000 02 25 703 0.3+ 0.1+

(14230)* 1999 XF₁₀₀ = 1969 TV₇ = 1976 YD₈ = 1994 JJ₁

Discovered 1999 Dec. 7 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38592)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		305.64088		(2000.0)		P		Q	
<i>n</i>	0.30167568	ω	245.68204	-0.99629757	-0.06363557				
<i>a</i>	2.2017897	Ω	290.62719	+0.08201158	-0.90520736				
<i>e</i>	0.0884711	<i>i</i>	3.54124	-0.02579264	-0.42017871				
<i>P</i>	3.27	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1969 10 08	033	0.8+	0.5+	1999 11 16	704	1.1+	0.3-	2000 01 04	704	0.1-	0.0
1969 10 08	033	0.5-	0.6-	1999 11 16	704	0.2-	1.6-	2000 01 08	704	0.3-	0.4-
1976 12 18	095	0.5-	1.1+	1999 11 16	704	2.0-	0.2-	2000 01 08	704	0.0	1.0-
1994 05 04	675	1.1+	0.7-	1999 12 07	704	0.9+	0.3-	2000 01 08	704	0.0	0.2-
1994 05 04	675	1.0-	0.1-	1999 12 07	704	1.3+	0.4+	2000 01 08	704	0.2-	0.6+
1994 05 06	675	(1.2+ 2.9+)		1999 12 07	704	0.6+	0.0	2000 01 30	704	0.1-	0.5+
1994 05 06	675	0.0	0.5+	1999 12 07	704	0.6+	0.1+	2000 01 30	704	0.3+	0.6+
1998 08 02	910	1.7+	0.7-	1999 12 07	704	0.3+	0.6-	2000 01 30	704	0.1+	0.6+
1998 08 02	910	1.0+	1.1-	1999 12 10	704	0.9-	0.4+	2000 01 30	704	0.0	0.6+
1998 08 02	910	1.0+	1.0-	1999 12 10	704	0.5+	0.0	2000 01 30	704	0.5-	0.9+
1998 08 17	704	(0.1+ 3.7+)		1999 12 10	704	0.1+	1.0+	2000 01 31	704	0.3-	0.4-
1998 08 17	704	1.3-	0.0	2000 01 03	704	0.3-	0.0	2000 01 31	704	0.0	0.3-
1998 08 17	704	0.4-	0.5-	2000 01 03	704	0.3-	0.5-	2000 01 31	704	0.3+	0.8-
1998 08 17	704	0.3+	0.2-	2000 01 03	704	0.7-	0.7-	2000 01 31	704	0.5-	1.2-
1998 08 17	704	0.6-	0.9-	2000 01 03	704	0.3-	0.6-	2000 03 04	704	1.0-	0.8+
1998 08 23	704	1.2-	1.1+	2000 01 03	704	0.4+	0.5-	2000 03 04	704	0.1+	0.6+
1998 08 23	704	(0.3+ 2.7+)		2000 01 04	704	0.3-	0.0	2000 03 04	704	0.5+	0.6+
1998 08 23	704	0.1+	1.6+	2000 01 04	704	0.2-	0.0	2000 03 04	704	0.3+	1.0+
1998 08 23	704	0.9-	2.0+	2000 01 04	704	0.0	0.4-				
1998 08 23	704	(0.9- 2.2+)		2000 01 04	704	0.6+	0.7+				

(14231)* 1999 XD₁₀₂ = 1981 UG₂₂ = 1996 KM₅ = 1998 UO₄₁

Discovered 1999 Dec. 7 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38593)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		94.91502		(2000.0)		P		Q	
<i>n</i>	0.17213536	ω	287.63256	+0.94517827	-0.29572391				
<i>a</i>	3.2005355	Ω	89.74361	+0.32654667	+0.85891090				
<i>e</i>	0.0650010	<i>i</i>	7.96180	-0.00230244	+0.41811415				
<i>P</i>	5.73	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1981 10 24	675	0.1+	0.5+	1998 11 13	704	1.0+	0.1+	2000 01 04	704	0.5+	0.4-
1981 10 25	675	0.2+	0.0	1998 11 13	704	(2.8+ 0.2+)		2000 01 04	704	0.6+	0.3-
1981 10 26	675	0.5-	0.0	1998 11 13	704	1.1+	0.2-	2000 01 04	704	1.0+	0.2-
1996 05 22	809	(0.9- 3.8-)		1998 11 13	704	1.0+	1.3-	2000 01 08	704	0.8-	0.1-
1996 05 22	809	(1.8- 3.5-)		1998 11 13	704	0.0	1.2+	2000 01 08	704	0.3-	0.1+
1996 05 22	809	(1.0- 2.8-)		1999 12 07	704	0.9-	0.7+	2000 01 08	704	0.1+	0.2+
1996 05 24	809	0.9-	1.7-	1999 12 07	704	0.4+	0.4-	2000 01 08	704	0.1+	0.7+
1996 05 24	809	0.4-	1.7-	1999 12 07	704	1.7+	0.5+	2000 01 08	704	1.0+	0.4+
1996 05 24	809	(1.3- 2.1-)		1999 12 07	704	0.9-	0.4+	2000 01 30	704	0.2-	0.1+
1998 10 20	699	0.8+	0.4-	1999 12 07	704	0.3-	0.1+	2000 01 30	704	0.0	1.0-
1998 10 20	699	0.1+	0.4-	1999 12 10	704	0.0	0.3-	2000 01 30	704	0.1+	0.7-
1998 10 20	699	0.3+	0.1-	1999 12 10	704	1.6-	0.1-	2000 01 30	704	0.1-	0.2+
1998 10 28	704	0.8+	0.7+	1999 12 10	704	0.1-	0.5+	2000 01 30	704	0.9-	0.8-
1998 10 28	704	1.2-	1.4-	1999 12 10	704	0.3-	0.2-	2000 01 31	704	0.0	0.5+
1998 10 28	704	1.5-	0.8+	2000 01 03	704	0.0	0.3+	2000 01 31	704	0.5-	0.2+
1998 10 28	704	0.3-	0.5-	2000 01 03	704	0.7+	0.6-	2000 01 31	704	0.6-	0.0

1998 10 29 704 0.2+ 0.1- 2000 01 03 704 0.2+ 1.1- 2000 01 31 704 0.0 0.6-
 1998 10 29 704 0.1- 0.6+ 2000 01 03 704 0.4+ 0.4- 2000 02 11 704 0.4+ 0.4+
 1998 10 29 704 0.0 0.9- 2000 01 03 704 0.5+ 0.3- 2000 02 11 704 0.4- 0.1-
 1998 10 29 704 0.3- 0.8- 2000 01 04 704 0.1- 0.1- 2000 02 11 704 0.2- 0.7+
 1998 10 29 704 0.0 0.6- 2000 01 04 704 0.3+ 0.3+

(14232)* 1999 XJ₁₂₀ = 1987 WJ₂ = 1998 QK₆₆

Discovered 1999 Dec. 5 by the Catalina Sky Survey.

Id. G. V. Williams (*MPC* 37942)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		254.22763		(2000.0)		P		Q	
<i>n</i>	0.23794749	ω	294.04172	-0.94158506	+0.27631199				
<i>a</i>	2.5791818	Ω	262.45749	-0.19210892	-0.91024269				
<i>e</i>	0.1145383	<i>i</i>	11.19882	-0.27660756	-0.30839898				
<i>P</i>	4.14	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1987 11 26	033	0.1-	0.5-	1999 11 10	704	0.4-	0.7+	2000 01 04	704	0.7+	0.8-
1987 11 26	033	0.2-	0.6-	1999 11 10	704	0.5-	0.8+	2000 01 04	704	1.2+	0.8-
1991 12 07	675	0.3+	0.9+	1999 11 10	704	0.2-	0.9+	2000 01 04	704	0.4-	1.8-
1991 12 07	675	0.1-	0.9+	1999 11 10	704	0.6-	0.5+	2000 01 06	704	0.3-	0.3+
1998 06 23	699	0.2-	0.2-	1999 12 05	703	0.9-	0.5+	2000 01 06	704	0.9+	0.7-
1998 06 23	699	0.1-	0.8-	1999 12 05	703	0.8-	0.2+	2000 01 06	704	0.0	0.9-
1998 06 23	699	0.8-	0.0	1999 12 05	703	0.9-	1.6-	2000 01 06	704	0.6+	0.9-
1998 08 02	699	(2.3+ 0.1+)		1999 12 05	703	1.0+	0.1-	2000 01 06	704	0.8+	1.2-
1998 08 02	699	0.4+	0.3+	1999 12 10	704	0.4+	0.4+	2000 01 30	704	0.2-	0.2-
1998 08 02	699	1.1+	0.3+	1999 12 10	704	0.7+	0.0	2000 01 30	704	0.1-	0.8+
1998 08 24	704	0.1-	0.6+	1999 12 10	704	0.1-	0.4-	2000 01 30	704	0.1+	1.0+
1998 08 24	704	0.4+	0.5+	1999 12 10	704	0.4+	0.3-	2000 01 30	704	0.0	1.2+
1998 08 24	704	0.3+	0.4+	1999 12 10	704	0.4+	0.9-	2000 01 30	704	0.3+	1.3+
1998 08 24	704	1.0-	0.4+	1999 12 13	703	0.3-	0.3+	2000 02 03	704	0.1+	0.5+
1998 08 24	704	0.1+	1.1-	1999 12 13	703	0.4-	0.2+	2000 02 03	704	0.2-	0.5+
1998 08 27	704	0.6+	0.4+	1999 12 13	703	0.5-	0.3+	2000 02 03	704	0.2-	0.0
1998 08 27	704	0.2-	0.5+	1999 12 13	703	0.0	0.3+	2000 02 03	704	0.6+	0.6+
1998 08 27	704	0.9-	0.4-	1999 12 15	704	0.0	0.2+	2000 02 03	704	0.3-	0.2+
1998 08 27	704	0.6+	0.6-	1999 12 15	704	0.5+	0.1+	2000 03 04	704	0.1-	0.3+
1998 08 27	704	0.3-	0.5-	1999 12 15	704	0.2+	0.8-	2000 03 04	704	0.5+	0.5+
1999 09 03	704	0.1+	0.2+	1999 12 15	704	0.5+	0.4+	2000 03 04	704	0.1+	0.7+
1999 09 03	704	0.1+	0.1+	2000 01 03	704	0.1+	0.2+	2000 03 04	703	0.3+	0.1-
1999 09 03	704	0.7+	0.1-	2000 01 03	704	0.7+	0.5-	2000 03 04	704	0.1-	0.2+
1999 11 09	703	0.3-	0.3+	2000 01 03	704	0.3+	0.4-	2000 03 04	703	0.3-	0.6+
1999 11 09	703	1.3-	0.1+	2000 01 03	704	0.1+	0.5-	2000 03 04	704	0.5+	0.4-
1999 11 09	703	0.8-	0.0	2000 01 03	704	0.4-	1.2-	2000 03 04	703	0.6-	0.7-
1999 11 09	703	0.4-	0.1+	2000 01 04	704	0.2+	0.4+	2000 03 04	703	0.0	0.1-
1999 11 10	704	0.1-	0.2+	2000 01 04	704	0.3+	0.1-				

(14233)* 1999 XM₁₆₉

Discovered 1999 Dec. 10 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		75.54249		(2000.0)		P		Q	
<i>n</i>	0.23754822	ω	97.72492	+0.92640897	-0.29531551				
<i>a</i>	2.5820711	Ω	279.67795	+0.17666126	+0.88874385				
<i>e</i>	0.1148044	<i>i</i>	13.70616	+0.33250147	+0.35060394				
<i>P</i>	4.15	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1993 05 24	413	0.2-	0.3-	1999 12 10	704	0.2-	0.1+	2000 01 30	704	0.6+	0.2-
1993 05 24	413	0.1-	1.0-	1999 12 10	704	0.2-	0.1-	2000 01 30	704	0.8+	0.2-
1995 11 23	675	0.9-	0.4-	1999 12 10	704	0.5-	0.2-	2000 01 30	704	0.1+	0.1+
1995 11 23	675	0.1+	1.0-	1999 12 10	704	0.					

1998 06 26	704	0.3-	0.8-	1999 12 15	704	0.1-	0.1-	2000 02 02	704	0.4+	0.8+
1998 06 26	704	0.9+	0.9-	2000 01 03	704	0.5-	0.2+	2000 02 02	704	0.1-	0.4+
1998 06 26	704	1.0-	0.5+	2000 01 03	704	0.2-	0.2-	2000 02 02	704	0.9+	0.2-
1998 09 15	910	0.7-	0.1+	2000 01 03	704	0.4-	0.2-	2000 02 02	704	1.0+	0.4-
1998 09 15	910	0.4-	0.2+	2000 01 03	704	0.3-	0.3-	2000 02 02	704	0.6+	0.7-
1998 09 15	910	0.3-	0.4+	2000 01 03	704	0.2-	0.3-	2000 03 04	704	0.1+	0.6+
1999 11 16	704	0.2-	0.0	2000 01 04	704	0.0	0.3+	2000 03 04	704	0.2+	0.3+
1999 11 16	704	0.5-	0.1-	2000 01 04	704	0.2-	0.1-	2000 03 04	704	0.3+	0.3-
1999 11 16	704	0.1-	0.4-	2000 01 04	704	0.1+	0.3-	2000 03 04	704	0.6-	0.1+
1999 11 16	704	0.6-	0.1-	2000 01 04	704	0.0	0.2-	2000 03 04	704	0.0	0.3+
1999 11 16	704	0.3-	0.3-	2000 01 04	704	0.1-	0.1-				
1999 12 10	704	0.3-	0.1-	2000 01 30	704	0.5+	0.9+				

(14234)* 1999 XZ₁₈₂ = 1998 KQ₁₇

Discovered 1999 Dec. 12 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38607)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	81.53582	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.28945411	ω	323.18590		+0.99269222	+0.09953044	
<i>a</i>	2.2633388	Ω	31.30934		-0.05264846	+0.86600281	
<i>e</i>	0.1821447	<i>i</i>	7.54502		-0.10858316	+0.49003349	
<i>P</i>	3.41	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 10 23	010	0.8+	1.1+	1998 05 22	704	1.7+	0.3-	1999 12 15	704	0.3-	0.2+
1992 10 23	010	0.6+	1.4+	1998 05 22	704	1.9-	1.0+	1999 12 15	704	0.0	0.1-
1992 11 03	010	0.4+	1.2-	1998 05 22	704	0.1-	0.2-	1999 12 15	704	0.3-	0.2+
1992 11 03	010	0.3-	1.3-	1998 05 24	704	0.7+	0.3-	2000 01 02	704	0.5+	0.1-
1992 11 03	010	0.9-	1.4-	1998 05 24	704	0.6+	1.7-	2000 01 02	704	0.6+	0.4-
1997 02 05	327	0.1+	0.3-	1998 05 24	704	0.1+	0.2-	2000 01 02	704	0.0	0.0
1997 02 05	327	0.3+	0.2-	1998 05 24	704	(1.3- 2.3-)		2000 01 02	704	0.2+	0.1+
1997 02 05	327	0.2-	0.2-	1998 05 24	704	0.6-	0.0	2000 01 02	704	0.6-	0.2-
1997 02 05	327	0.3-	0.3-	1999 10 05	704	(0.3+ 3.2-)		2000 01 29	704	0.1-	0.4+
1998 04 22	704	0.1+	0.4-	1999 10 05	704	0.3+	1.5-	2000 01 29	704	0.1+	0.0
1998 04 22	704	0.4+	0.3-	1999 10 05	704	(1.1+ 2.1-)		2000 01 29	704	0.4-	0.5+
1998 04 22	704	1.1-	0.3-	1999 10 05	704	0.4+	0.9-	2000 01 30	704	0.1+	0.0
1998 04 22	704	0.8-	0.0	1999 12 12	704	0.2+	0.1-	2000 01 30	704	0.1+	0.1-
1998 05 01	704	0.2+	0.1+	1999 12 12	704	0.2+	0.5-	2000 01 30	704	0.4-	0.1-
1998 05 01	704	(1.5- 2.3-)		1999 12 12	704	0.1+	0.0	2000 01 30	704	0.8-	0.1+
1998 05 01	704	0.4-	0.4-	1999 12 12	704	0.1+	0.3+	2000 01 30	704	0.2+	0.6+
1998 05 01	704	0.1-	0.8+	1999 12 12	704	0.1+	0.8+	2000 02 11	704	0.3-	0.2+
1998 05 22	704	1.4+	1.6-	1999 12 15	704	0.2+	0.1-	2000 02 11	704	0.2-	0.1+
1998 05 22	704	1.7-	0.8+	1999 12 15	704	0.2+	0.4-	2000 02 11	704	0.6-	0.3-

(14235)* 1999 XA₁₈₇ = 1996 RE₃₀ = 1997 TX₂₈

Discovered 1999 Dec. 12 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38608)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	35.97793	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.08561648	ω	25.00729		+0.40385379	-0.90935552	
<i>a</i>	5.0983673	Ω	41.37416		+0.81187768	+0.30595170	
<i>e</i>	0.0858604	<i>i</i>	8.69069		+0.42161208	+0.28189732	
<i>P</i>	11.51	<i>H</i>	11.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 09 12	809	0.3-	0.6-	1998 11 21	704	0.2-	0.1+	1999 12 15	704	1.3-	1.2-
1996 09 16	809	0.5+	0.3-	1998 11 21	704	0.6-	0.8+	2000 01 02	704	0.8+	0.5+
1997 10 06	809	0.4-	0.5-	1998 11 21	704	(0.2- 2.3+)		2000 01 02	704	0.9+	0.4+
1997 10 06	809	0.0	0.5-	1998 11 21	704	(4.7- 0.4-)		2000 01 02	704	0.1-	0.9+
1997 10 07	809	0.2-	0.1+	1998 11 24	704	0.1-	1.0-	2000 01 02	704	0.7-	0.2+
1997 10 07	809	0.1-	0.2+	1998 11 24	704	1.6+	1.1+	2000 01 29	704	0.1+	0.3-
1997 10 27	809	0.1-	0.3-	1998 11 24	704	0.0	1.2-	2000 01 29	704	0.9+	0.8-
1997 10 27	809	0.0	0.7+	1998 11 24	704	(0.4- 3.0-)		2000 01 29	704	0.8-	0.4-

1997 10 30	704	0.3-	0.3+	1999 12 12	704	0.5+	0.4-	2000 01 29	704	0.6+	0.2-
1997 10 30	704	0.5+	0.6-	1999 12 12	704	0.6+	0.6-	2000 01 29	704	0.1+	0.5-
1997 10 30	704	0.6-	1.0+	1999 12 12	704	0.2-	0.2-	2000 01 30	704	0.8+	1.5+
1997 10 30	704	1.0+	0.8-	1999 12 12	704	0.4+	0.4-	2000 01 30	704	0.3-	1.0+
1997 10 30	704	0.8+	0.4+	1999 12 12	704	0.4-	0.2-	2000 01 30	704	0.2-	0.1+
1998 11 18	704	0.0	0.3-	1999 12 12	704	0.3-	1.1-	2000 01 30	704	(2.3+ 0.5-)	
1998 11 18	704	0.4-	0.7+	1999 12 12	704	0.2-	0.7-	2000 01 30	704	(1.4+ 2.5-)	
1998 11 18	704	1.0-	0.1+	1999 12 12	704	0.0	0.8-	2000 02 11	704	0.8+	0.2+
1998 11 18	704	0.0	0.1+	1999 12 12	704	0.8-	0.6-	2000 02 11	704	0.2+	1.3+
1998 11 18	704	(3.0- 0.4+)		1999 12 12	704	0.5-	0.8-	2000 02 11	704	0.3+	0.6+
1998 11 20	699	0.1-	0.2+	1999 12 15	704	0.0	0.0	2000 02 11	704	0.4+	0.8+
1998 11 20	699	0.1+	0.2-	1999 12 15	704	0.2+	0.1+	2000 02 11	704	1.0-	0.7+
1998 11 20	699	0.5-	1.1+	1999 12 15	704	0.8-	0.5-				
1998 11 21	704	0.2-	0.8+	1999 12 15	704	0.3-	0.8-				

(14236)* 1999 XZ₂₀₀ = 1972 VX₁ = 1980 PA₂ = 1993 PC₉ = 1995 YL₁₉ = 1998 YA₃₀

Discovered 1999 Dec. 12 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38612)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	229.07571	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.22303216	ω	296.94381		-0.36482726	+0.92027710	
<i>a</i>	2.6929258	Ω	310.92518		-0.77406537	-0.38417814	
<i>e</i>	0.1491028	<i>i</i>	10.78542		-0.51742041	-0.07414316	
<i>P</i>	4.42	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1972 11 03	033	(5.7- 0.1-)	1998 08 29	704	(2.2+ 1.5+)	1999 12 15	704	0.8- 0.5+
1972 11 03	033	1.6- 1.5-	1998 08 29	704	1.0- 1.5+	1999 12 15	704	1.4- 0.1-
1980 08 06	809	0.6+ 1.0-	1998 08 29	704	0.2+ 1.5+	1999 12 15	704	0.8- 0.7+
1980 08 07	809	0.9+ 1.1-	1998 08 29	704	0.8- 0.8-	2000 01 02	704	0.2+ 0.3-
1980 08 09	809	0.9+ 1.5+	1998 08 29	704	1.9- 1.6+	2000 01 02	704	0.5+ 0.5-
1980 08 10	809	0.9+ 0.4-	1998 09 19	699	0.2- 0.5-	2000 01 02	704	0.1+ 0.5-
1993 08 14	010	0.1+ 0.5+	1998 09 19	699	0.4+ 0.2-	2000 01 02	704	0.1- 0.0
1993 08 14	010	0.5- 0.2-	1998 09 19	699	0.1+ 0.3+	2000 01 04	704	0.7+ 0.5+
1993 08 14	010	(2.3- 1.4-)	1998 12 16	327	0.2+ 0.7+	2000 01 04	704	0.7+ 0.1-
1993 08 18	010	0.7+ 1.5-	1998 12 16	327	0.1- 0.5+	2000 01 04	704	0.8+ 0.3-
1993 08 18	010	0.4- 1.2-	1998 12 16	327	0.3+ 0.4+	2000 01 04	704	0.3+ 0.2-
1993 08 18	010	(0.6- 2.3-)	1998 12 24	327	0.2+ 0.3+	2000 01 04	704	1.2+ 1.0-
1995 12 22	691	0.0 0.0	1998 12 24	327	0.2- 0.2-	2000 01 30	704	0.1- 0.3+
1995 12 22	691	0.0 0.2-	1998 12 24	327	0.1+ 0.1-	2000 01 30	704	0.2- 0.1-
1995 12 22	691	0.0 0.0	1999 12 12	704	0.1- 0.4-	2000 01 30	704	0.5+ 0.3+
1995 12 27	691	0.0 0.0	1999 12 12	704	0.7- 0.3-	2000 01 30	704	0.1+ 0.3-
1995 12 27	691	0.1- 0.1-	1999 12 12	704	0.7- 0.4-			
1995 12 27	691	0.3+ 0.1+	1999 12 15	704	(0.1+ 2.5+)			

(14237)* 1999 YU₉ = 1987 SM₁₄ = 1995 EQ₈

Discovered 1999 Dec. 31 by T. Kobayashi at Oizumi.

Id. G. V. Williams (*MPC* 38618, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	128.61559	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.18178356	ω	14.33114		+0.99690198	+0.02904022	
<i>a</i>	3.0862633	Ω	343.47416		-0.06774893	+0.78915088	
<i>e</i>	0.0555703	<i>i</i>	14.89078		+0.03995661	+0.61351247	
<i>P</i>	5.42	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	1

2000 MAR. 20

M.P.C. 39119

1997 08 02	566	0.3-	0.4+	1999 11 09	703	0.8+	0.2-	2000 01 10	411	1.3-	0.9-
1998 11 14	704	0.2-	0.0	1999 11 09	703	0.4+	0.8+	2000 01 28	411	0.5-	1.4+
1998 11 14	704	0.1+	0.5+	1999 12 15	704	1.0+	0.7-	2000 01 28	411	0.2+	0.7+
1998 11 14	704	0.2+	0.1-	1999 12 15	704	0.2+	0.3-	2000 01 29	704	0.0	0.2+
1998 11 14	704	0.3-	0.2-	1999 12 15	704	1.6+	0.1-	2000 01 29	704	0.1+	0.6+
1998 11 14	704	(1.3+ 2.9-)		1999 12 15	704	1.6-	0.9-	2000 01 29	704	0.3+	0.3+
1998 11 16	704	0.1-	0.1-	1999 12 31	411	0.4-	0.3-	2000 01 29	704	0.1+	0.1+
1998 11 16	704	0.1+	0.6-	1999 12 31	411	1.2-	0.2-	2000 01 29	704	0.2-	0.1+
1998 11 16	704	0.1+	0.6-	2000 01 01	411	0.3-	0.2+	2000 03 02	703	0.1-	1.2+
1998 11 16	704	0.2+	0.9-	2000 01 01	411	0.5-	1.1-	2000 03 02	703	0.0	0.7+
1998 11 16	704	0.6+	0.7-	2000 01 02	704	0.1+	0.4-	2000 03 02	703	0.9+	0.2+
1998 12 24	699	(3.6+ 1.1-)		2000 01 02	704	0.1-	0.3-	2000 03 02	703	0.9+	0.5-

(14238)* 1999 YX₁₃ = 1951 GA = 1955 FE = 1989 TC₂ = 1996 BR₁₇
= 1998 XH₂₉

Discovered 1999 Dec. 31 by C. W. Juels at Fountain Hills.

Id. S. Nakano (*MPC* 38619)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.24072477	<i>ω</i>	257.93321	-0.75459701	+0.65380485		
<i>a</i>	2.5593059	<i>Ω</i>	322.85487	-0.56029070	-0.68630259		
<i>e</i>	0.2354634	<i>i</i>	5.30984	-0.34155187	-0.31863455		
<i>P</i>	4.09	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1951 04 05	078	(23.9- 10.0-)	Y	1998 12 14	704	0.5-	1.3+	2000 01 11	678	1.0-	0.2+
1951 04 08	711	(3.9- 2.7-)	Y	1998 12 17	704	0.3-	0.2-	2000 01 11	678	0.4-	0.1-
1955 03 23	760	1.6-	0.4-	1998 12 17	704	1.1+	0.0	2000 02 02	704	0.3+	1.7+
1955 03 23	760	1.6+	0.3+	1998 12 17	704	0.0	0.0	2000 02 02	704	1.2+	0.5+
1989 10 04	046	(1.9+ 2.6-)		1998 12 17	704	1.1+	0.9+	2000 02 02	704	0.8+	1.1-
1989 10 04	046	(0.2+ 2.3-)		1999 01 06	699	0.1+	1.4-	2000 02 08	704	0.7+	1.7+
1989 10 05	046	1.3-	0.5-	1999 01 06	699	0.5-	0.3-	2000 02 08	704	0.7+	0.5-
1989 10 05	046	0.3+	0.5+	1999 01 06	699	0.3+	0.4+	2000 02 08	704	2.1+	0.0
1992 04 04	675	1.0+	0.3-	1999 11 05	703	0.3-	0.1+	2000 02 08	704	0.8+	1.5-
1992 04 04	675	(3.2- 22.7+)		1999 11 05	703	0.1-	0.2-	2000 02 14	106	0.2+	0.2-
1996 01 30	809	1.1-	0.7+	1999 11 05	703	0.8-	0.1-	2000 02 14	106	0.2+	0.0
1996 01 31	809	0.4-	1.3+	1999 11 05	703	0.9+	0.4+	2000 02 14	106	0.1-	0.3-
1997 10 28	704	(1.4+ 2.7-)		1999 12 09	703	0.0	0.2-	2000 03 09	704	0.0	0.2-
1997 10 28	704	(2.7- 2.4-)		1999 12 09	703	0.2+	0.1-	2000 03 09	704	0.2-	0.0
1997 10 28	704	(1.0+ 2.4-)		1999 12 09	703	0.1-	0.1-	2000 03 09	704	0.1+	0.0
1997 10 28	704	(1.4- 3.8-)		1999 12 09	703	(1.5+ 3.6-)		2000 03 09	704	0.3-	0.3+
1997 10 30	704	0.2-	1.7+	1999 12 31	678	0.3-	0.8-	2000 03 09	704	0.1-	0.3+
1997 10 30	704	0.5-	0.4-	1999 12 31	678	0.6-	0.1+	2000 03 13	704	0.1-	0.1-
1997 10 30	704	0.3-	0.2+	2000 01 03	678	0.4-	0.4-	2000 03 13	704	0.0	0.2+
1997 10 30	704	(1.7- 2.7-)		2000 01 03	678	0.9-	0.6-	2000 03 13	704	0.2-	0.3+
1998 12 14	704	0.0	0.9-	2000 01 05	704	0.9-	0.4-	2000 03 13	704	0.1-	0.2+
1998 12 14	704	0.1+	0.3-	2000 01 05	704	0.2-	0.3+	2000 03 13	704	0.3-	0.0
1998 12 14	704	0.2-	0.3-	2000 01 05	704	0.7-	0.2+				
1998 12 14	704	0.2+	1.0+	2000 01 05	704	0.5-	0.5+				

(14239)* 2000 AL₂ = 1978 WS₇ = 1995 BM₁₆ = 1996 KN₆ = 1998 XM₆₄

Discovered 2000 Jan. 3 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 38622)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.19699682	<i>ω</i>	216.73140	+0.13315427	+0.98663276		
<i>a</i>	2.9252517	<i>Ω</i>	61.09533	-0.88187396	+0.16120456		
<i>e</i>	0.1216948	<i>i</i>	6.16050	-0.45229222	-0.02385126		
<i>P</i>	5.00	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1978 11 29	675	0.3-	0.4+	1998 12 14	704	1.1-	1.0-	2000 01 04	704	0.2+	0.3-
1978 11 30	675	0.0	0.8+	1998 12 14	704	1.2-	0.2+	2000 01 04	411	0.6+	0.9-
1995 01 31	033	0.1+	0.3+	1998 12 14	704	1.1-	1.6+	2000 01 04	411	0.1-	0.5-
1995 01 31	033	0.1-	0.2-	1998 12 14	704	(4.8- 0.3+)		2000 01 06	699	0.1+	0.1-

1995 02 03	033	0.1-	0.0	1998 12 17	704	(0.1- 2.5-)		2000 01 06	699	0.1-	1.1-
1996 05 19	809	0.4-	0.3+	1998 12 17	704	1.1-	1.1-	2000 01 06	699	0.4-	0.6+
1996 05 19	809	0.2+	0.3+	1998 12 17	704	0.0	0.2+	2000 01 10	411	(2.2- 0.1+)	
1996 05 19	809	0.4+	0.0	1998 12 17	704	0.4-	1.1-	2000 01 10	411	0.6-	0.6+
1996 05 22	809	(3.0+ 2.1+)		1998 12 17	704	0.6-	1.2-	2000 01 28	411	0.6-	0.1+
1996 05 22	809	(3.0+ 2.9+)		2000 01 03	704	0.2+	0.1-	2000 01 28	411	0.3+	0.0
1996 05 22	809	(3.1+ 2.1+)		2000 01 03	704	0.6-	0.1+	2000 03 01	411	0.7-	0.5-
1998 11 20	699	0.2+	0.4+	2000 01 03	704	0.2+	0.7+	2000 03 01	411	0.6-	0.5-
1998 11 20	699	0.5+	0.8+	2000 01 03	704	0.3+	0.3+	2000 03 02	703	0.5+	0.6+
1998 11 20	699	1.3+	1.5+	2000 01 03	704	0.1+	0.3+	2000 03 02	703	0.0	0.1+
1998 11 21	704	0.2+	0.0	2000 01 03	411	1.1+	0.5-	2000 03 02	703	0.5+	0.1+
1998 11 21	704	1.6+	0.9-	2000 01 03	411	1.1+	1.4-	2000 03 02	703	0.1+	0.3-
1998 11 21	704	0.8+	0.1-	2000 01 04	704	0.2+	0.4-	2000 03 04	704	(0.5- 2.5+)	
1998 11 21	704	0.9+	0.2+	2000 01 04	704	0.3-	0.3-	2000 03 04	704	0.7-	1.7+
1998 11 21	704	(3.4- 1.2-)		2000 01 04	704	0.1+	0.1-	2000 03 04	704	0.9-	0.9+
1998 12 14	704	(2.3- 0.3+)		2000 01 04	704	0.8+	0.2+	2000 03 04	704	0.8-	0.0

(14240)* 2000 AP₂ = 1984 SN₃ = 1984 UN₃ = 1991 RF₂₃ = 1997 GA₂₀

Discovered 2000 Jan. 3 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 38622)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.27532000	<i>ω</i>	343.94604	+0.95205757	-0.29746965		
<i>a</i>	2.3401528	<i>Ω</i>	33.62642	+0.29294538	+0.81925276		
<i>e</i>	0.1176295	<i>i</i>	7.40811	+0.08814416	+0.49024149		
<i>P</i>	3.58	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1984 09 28	688	1.1+	1.0-	1997 04 07	704	0.6+	0.1-	2000 03 01	411	(2.3- 0.4-)	
1984 09 28	688	(0.1+ 3.7-)		2000 01 03	411	0.7-	1.5-	2000 03 02	703	0.3+	0.7+
1984 10 18	801	1.2-	1.2+	2000 01 03	411	0.4-	1.0-	2000 03 02	703	0.8+	0.9+
1991 09 15	675	0.0	0.8+	2000 01 04	411	0.3+	0.5-	2000 03 02	703	0.5-	0.3+
1991 09 15	675	0.8-	0.0	2000 01 04	411	0.2+	0.1-	2000 03 02	703	1.2-	0.8+
1991 09 17	675	0.5+	0.7+	2000 01 10	411	0.1+	0.5-	2000 03 12	703	0.4-	0.2+
1991 09 17	675	1.2-	1.1+	2000 01 10	411	1.0+	0.1-	2000 03 12	703	0.0	1.0+
1997 04 05	704	0.6-	0.5+	2000 01 28	411	0.2-	0.1-	2000 03 12	703	0.2-	0.2+
1997 04 05	704	0.5+	0.5+	2000 01 28	411	0.2+	0.6+	2000 03 12	703	0.9+	1.1+
1997 04 07	704	0.2+	0.5+	2000 03 01	411	(3.5- 0.6-)					

(14241)* 2000 AO₅ = 1973 GK = 1981 WA₃ = 1989 AX₆ = 1990 KU₂
= 1997 UR₄

Discovered 2000 Jan. 5 by K. Korlević at Višnjan.

Id. G. V. Williams (*MPC* 38624)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.17846762	<i>ω</i>	119.58662	-0.60348478	+0.79645338		
<i>a</i>	3.1243746	<i>Ω</i>	113.24354	-0.74524468	-0.54628967		
<i>e</i>	0.1890932	<i>i</i>	2.38998	-0.28357801	-0.25928673		
<i>P</i>	5.52	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1973 04 10	805	0.3-	0.2+	1998 11 24	704	1.2+	1.6-	2000 01 30	704	0.6+	0.8+
1981 11 24	033	0.9+	0.5+	1998 11 24	704	0.3-	1.0-	2000 01 30	704	0.5-	0.7+
1981 11 24	033	0.2-	1.0+	2000 01 04	704	0.1+	0.2+	2000 02 03	704	0.1-	0.4+
1989 01 11	033	0.3-	1.1-	2000 01 04	704	0.1-	0.2-	2000 02 03	704	0.3+	0.4+
1989 01 11	033	0.3-	0.8-	2000 01 04	704	0.1+	0.0	2000 02 03	704	0.5+	0.5+
1989 01 14	033	0.1+	0.2+	2000 01 04	704	0.0	0.1+	2000 02 03	704	0.2+	0

1997 10 21	327	0.5−	0.3+	2000 01 06	704	0.6−	0.1−	2000 02 11	704	0.9+	0.1−
1997 10 21	327	0.3−	0.1−	2000 01 06	704	0.2−	0.6−	2000 02 11	704	0.4+	0.5−
1997 10 21	327	0.3−	0.1−	2000 01 06	704	0.4−	1.1−	2000 03 04	704	0.5+	0.0
1997 10 30	704	0.1+	1.0−	2000 01 16	120	0.3−	0.4+	2000 03 04	704	0.5+	0.8+
1997 10 30	704	(3.0+)	(1.8−)	2000 01 16	120	0.5+	0.1+	2000 03 04	704	0.6−	0.3−
1997 10 30	704	1.2−	0.8+	2000 01 16	120	0.4−	0.2−	2000 03 04	704	0.1+	1.0+
1997 10 30	704	(2.9+)	(0.6−)	2000 01 28	691	0.1+	0.1−	2000 03 04	704	0.7−	0.9+
1998 11 20	699	0.8+	1.7+	2000 01 28	691	0.1+	0.0	2000 03 06	106	0.4+	0.6+
1998 11 20	699	0.7−	1.3+	2000 01 28	691	0.1+	0.1−	2000 03 06	106	0.3+	0.5+
1998 11 20	699	0.4−	0.8+	2000 01 30	704	0.3+	0.9+	2000 03 06	106	0.2+	0.6+
1998 11 24	704	(6.6−)	(0.2−)	2000 01 30	704	1.6−	0.4−				
1998 11 24	704	0.5+	1.0−	2000 01 30	704	0.5+	0.3+				

(14242)* 2000 AE₂₅ = 1999 XT₈₄ = 1987 UX₆ = 1989 CV₅ = 1998 RG₃₀

Discovered 2000 Jan. 3 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (d, *MPC* 38194; *MPC* 38627), M. E. Sansaturio (*MPC* 38627)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	61.06701		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17207851	<i>ω</i>	278.50008	+0.84321037	−0.53756688
<i>a</i>	3.2012404	<i>Ω</i>	114.01818	+0.49503810	+0.77336607
<i>e</i>	0.1931011	<i>i</i>	0.26693	+0.20960329	+0.33604578
<i>P</i>	5.73	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1987 10 27	095	0.6+	1.9−	1998 09 18	704	0.3−	0.8+	2000 01 08	704	0.4+	0.3+
1989 02 02	033	0.7−	0.5+	1998 09 18	704	1.0−	0.1+	2000 01 08	704	0.1+	0.0
1989 02 04	033	0.1+	0.5+	1998 09 18	704	0.5−	0.3+	2000 01 08	704	0.2−	0.4+
1992 07 24	809	(3.8+)	(0.7−)	1998 09 18	704	0.9−	0.8+	2000 01 08	704	0.0	0.1+
1992 07 24	809	1.5+	1.5−	1999 12 07	704	1.2−	0.4−	2000 01 08	691	0.4−	0.2−
1992 07 24	809	0.5+	0.5−	1999 12 07	704	0.7+	0.3−	2000 01 08	691	0.5−	0.2−
1998 08 17	704	0.9−	0.2−	1999 12 07	704	0.7+	0.3+	2000 01 08	691	0.4−	0.3−
1998 08 17	704	0.7+	0.8−	1999 12 07	704	0.7+	0.4−	2000 01 14	691	0.1+	0.0
1998 08 17	704	0.4+	0.1−	1999 12 08	704	1.5+	0.2−	2000 01 14	691	0.0	0.0
1998 08 17	704	0.5−	0.9+	1999 12 08	704	0.8+	0.5+	2000 01 14	691	0.1−	0.1+
1998 08 17	704	0.7+	1.9+	1999 12 08	704	0.4+	0.2+	2000 01 25	704	0.1−	0.8+
1998 08 23	704	1.7+	0.2−	1999 12 08	704	0.5+	0.9+	2000 01 25	704	0.6−	0.2+
1998 08 23	704	0.7−	1.8+	1999 12 08	704	0.2+	0.7+	2000 01 25	704	0.2+	0.3−
1998 08 23	704	1.7+	0.3+	2000 01 03	704	0.1+	0.1−	2000 01 25	704	0.1−	0.1−
1998 08 23	704	0.3−	0.1+	2000 01 03	704	0.6−	0.2+	2000 01 25	704	0.3−	0.2−
1998 08 23	704	(5.0−)	(1.8+)	2000 01 03	704	0.3−	0.2−	2000 01 31	704	0.1−	0.5+
1998 09 14	704	0.7−	0.3+	2000 01 03	704	0.7−	0.4−	2000 01 31	704	0.1−	0.1−
1998 09 14	704	0.8−	1.5−	2000 01 03	704	0.4−	0.5−	2000 01 31	704	1.2+	0.2−
1998 09 14	704	0.1−	1.0−	2000 01 04	704	0.3−	0.3+	2000 02 02	704	(2.3+)	(0.4+)
1998 09 14	704	0.8−	0.3−	2000 01 04	704	0.2−	0.3+	2000 02 02	704	0.1−	0.3−
1998 09 18	699	0.3+	0.4+	2000 01 04	704	0.3−	0.3−	2000 02 02	704	0.3+	0.3−
1998 09 18	699	0.1+	0.4+	2000 01 04	704	0.1−	0.2−	2000 02 02	704	0.5+	0.1−
1998 09 18	704	0.1+	0.3−	2000 01 04	704	0.6−	0.4−	2000 02 02	704	0.7+	0.4−
1998 09 18	699	0.8−	0.7−	2000 01 08	704	0.0	0.0				

(14243)* 2000 AH₂₉ = 1981 JD₁ = 1994 YA₄ = 1998 UV₃₄ = 1999 XZ₂₁₇

Discovered 2000 Jan. 3 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38629)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	306.74543		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.19718118	<i>ω</i>	224.70021	−0.99878968	−0.04725165
<i>a</i>	2.9234280	<i>Ω</i>	312.58630	+0.04869935	−0.91113374
<i>e</i>	0.0378595	<i>i</i>	1.06267	+0.00689519	−0.40939296
<i>P</i>	5.00	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1981 05 02	474	0.9+	0.1+	1999 12 13	691	0.6+	0.2+	2000 01 04	704	0.3−	0.2−
1981 05 02	474	0.6−	0.8+	1999 12 13	691	0.5+	0.5−	2000 01 04	704	0.4−	0.3+
1981 05 03	474	0.3−	0.8+	1999 12 13	691	0.6+	0.6−	2000 01 04	704	0.8−	0.4−

1981 05 03	474	0.7+	0.3+	1999 12 16	691	0.0	0.3−	2000 01 13	113	0.9+	0.4−
1994 12 31	691	0.4+	1.4−	1999 12 16	691	0.2−	0.0	2000 01 13	113	0.6−	0.3+
1994 12 31	691	0.9+	0.4−	1999 12 16	691	0.1−	0.0	2000 01 13	113	1.4+	0.5+
1994 12 31	691	0.4+	0.2−	2000 01 03	704	0.2+	0.4+	2000 01 30	704	0.2+	0.4+
1995 01 09	691	1.0−	0.1−	2000 01 03	704	0.5−	0.5−	2000 01 30	704	0.4+	0.5+
1995 01 09	691	0.5−	0.5+	2000 01 03	704	0.8−	0.4−	2000 01 30	704	0.5+	0.1+
1995 01 09	691	0.8−	0.3−	2000 01 03	704	0.1+	0.1−	2000 01 30	704	0.3+	0.3+
1998 10 28	704	1.5+	0.1−	2000 01 03	704	0.7−	0.2+	2000 01 31	704	0.6+	0.3+
1998 10 28	704	0.9+	0.5−	2000 01 04	704	0.5−	0.0	2000 01 31	704	0.2+	0.8+
1998 10 28	704	0.8+	1.9+	2000 01 04	704	1.0−	0.6−	2000 01 31	704	0.6+	0.7+
1998 10 28	704	0.4−	0.2−	2000 01 04	704	0.8−	0.1−	2000 02 11	704	0.2−	0.1+
1998 10 28	704	0.4−	0.2−	2000 01 04	704	0.2−	0.3+	2000 02 11	704	0.5−	0.5+
1998 10 29	704	0.4−	0.2−	2000 01 04	704	0.3−	0.1+	2000 02 11	704	0.6+	0.5+
1998 10 29	704	1.4−	0.3+	2000 01 04	704	0.6−	0.1+	2000 02 11	704	0.9+	0.2+
1998 10 29	704	1.7−	1.5+	2000 01 04	704	0.5−	0.0				

(14244)* 2000 AT₂₉ = 1981 XM = 1996 AV₁₃ = 1998 SE₁₀₄

Discovered 2000 Jan. 3 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38629)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	153.45284		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.22561332	<i>ω</i>	277.27360	+0.81806366	+0.57221621
<i>a</i>	2.6723473	<i>Ω</i>	47.84144	−0.49211231	+0.74844853
<i>e</i>	0.0598565	<i>i</i>	4.47176	−0.29765303	+0.33525127
<i>P</i>	4.37	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1981 12 04	511	0.4+	1.1−	1998 09 26	704	0.0	0.4+	2000 01 03	704	0.8+	1.4−
1981 12 04	511	0.5−	0.6+	1998 09 26	704	0.5−	0.7−	2000 01 03	704	0.8−	0.0
1996 01 15	691	0.3+	0.1−	1998 09 26	704	0.5−	1.0−	2000 01 04	704	0.3−	0.4+
1996 01 15	691	0.6−	0.4−	1998 09 27	704	0.0	1.8+	2000 01 04	704	0.3+	0.3−
1996 01 15	691	0.0	0.1−	1998 09 27	704	0.6−	0.7+	2000 01 04	704	0.0	0.2−
1996 01 24	691	0.3+	0.2−	1998 09 27	704	0.4−	1.3+	2000 01 04	704	0.0	0.3+
1996 01 24	691	0.4+	0.3−	1998 09 27	704	0.2+	0.9−	2000 01 04	704	0.2+	0.3−
1996 01 24	691	0.6+	0.4−	1999 12 08	703	0.7−	0.2+	2000 01 30	704	0.1+	0.3+
1997 05 30	552	0.5−	0.8+	1999 12 08	703	0.3+	1.6+	2000 01 30	704	0.7−	0.5+
1997 05 30	552	0.2+	0.3+	1999 12 08	703	0.6−	0.7+	2000 01 30	704	0.8−	0.6+
1998 09 17	699	0.1+	0.3+	1999 12 08	703	0.8−	0.7−	2000 02 11	704	0.3−	0.6+
1998 09 17	699	0.8+	0.1+	1999 12 15	704	1.2+	0.5−	2000 02 11	704	1.0+	0.5+
1998 09 17	699	0.7+	0.0	1999 12 15	704	0.4−	0.1+	2000 02 11	704	0.4−	0.1+
1998 09 26	704	0.5+	0.3−	1999 12 15	704	1.1−	0.2−	2000 02 11	704	1.3+	1.4+
1998 09 26	704	0.1−	0.5−	2000 01 03	704	0.1−	1.3−	2000 02 11	704	0.4+	0.6+

(14245)* 2000 AS₃₁ = 1983 RU₄ = 1987 ST₁₄ = 1987 UE₆

Discovered 2000 Jan. 3 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38630)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	147.53362		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26302983	<i>ω</i>	342.48703	+0.78840573	+0.61368421
<i>a</i>	2.4124929	<i>Ω</i>	339.47726	−0.54888157	+0.67057386
<i>e</i>	0.2575805	<i>i</i>	6.96654	−0.27775064	+0.41680018
<i>P</i>	3.75	<i>H</i>	13.6	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1983 09 02	095	(1.7−	2.7+)	1998 08 17	704	0.0	0.4+	2000 01 03	704	0.5−	0.3+
1983 09 04	095	0.2−	0.0	1998 09 13	699	0.2+	0.2−	2000 01 03	704	0.0	0.8+
1983 09 06	095	0.0	0.6−	1998 09 13	699	0.3+	0.5−	2000 01 03	704	0.1−	0.1+
1987 09 23	095	(2.9+	1.3+)	1998 09 13	699	0.8+	0.3−	2000 01 03	704	0.1+	1.0+
1987 10 25	095	1.8+	1.6−	1998 11 06	699	0.1−	0.1+	2000 01 04	704	0.4−	0.5+
1997 04 03	566	0.5+	0.1+	1998 11 06	699	0.3+	0.4−	2000 01 04	704	0.3+	0.2+
1997 04 03	566	0.1+	0.2+	1998 11 06	699	0.8+	0.3+	2000 01 04	704	0.5+	0.3+
1997 04 03	566	0.1+	0.1+	1998 12 09	704	0.5−	1.4−	2000 01 04	704	0.1−	0.6−
1997 04 28	704	0.4−	0.2−	1998 12 09	704	0.7+	0.1−	2000 01 04	704	0.6+	0.3−

2000 MAR. 20

M.P.C. 39121

1997 04 28	704	0.1+	0.3-	1998 12 09	704	0.6+	0.1+	2000 01 30	704	0.4+	1.2+
1997 04 28	704	1.7-	0.3-	1998 12 09	704	(3.5-	1.5+)	2000 01 30	704	0.1-	0.9+
1997 04 28	704	1.6-	1.6-	1998 12 09	704	1.4-	0.3+	2000 01 30	704	0.1-	0.5+
1998 06 29	704	1.0-	0.2+	1998 12 11	699	1.5-	0.6-	2000 01 30	704	0.0	1.2+
1998 06 29	704	(2.0-	2.2+)	1998 12 11	699	0.7-	0.5-	2000 01 31	704	0.5+	0.2+
1998 06 29	704	(2.9+	0.4-)	1998 12 11	699	1.1-	1.0-	2000 01 31	704	0.6+	0.2-
1998 06 29	704	0.9-	1.6+	1999 12 10	704	0.4+	0.1+	2000 01 31	704	0.2+	0.4+
1998 06 29	704	1.8+	2.0+	1999 12 10	704	1.0+	0.2+	2000 01 31	704	0.1-	0.4-
1998 08 17	704	0.4-	0.0	1999 12 10	704	0.1+	0.6-	2000 02 11	704	0.4-	0.4+
1998 08 17	704	0.6-	0.0	1999 12 10	704	0.8+	0.0	2000 02 11	704	1.0-	0.1-
1998 08 17	704	0.5-	0.8+	1999 12 10	704	0.2-	1.0-	2000 02 11	704	1.0+	0.1+
1998 08 17	704	0.1-	0.5-	2000 01 03	704	0.4-	0.5-	2000 02 11	704	0.7-	0.1+

(14246)* 2000 AN₅₀ = 1964 WY = 1991 GV₉ = 1998 VQ₂₈

Discovered 2000 Jan. 6 by K. Korlević at Višnjan.

Id. G. V. Williams (*MPC* 38636, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	212.06982		(2000.0)	P	Q		
n	0.20212262	ω	348.41382	+0.36902458	+0.92927444		
a	2.8755843	Ω	303.23965	-0.85114901	+0.33079494		
e	0.0328006	i	1.12544	-0.37331787	+0.16438893		
P	4.88	H	13.0	G	0.15	U	1

Residuals in seconds of arc

1964 11 27	330	0.7+	1.3+	1999 01 19	910	0.6-	0.1-	2000 02 02	704	0.3+	0.4+
1991 04 10	809	0.8-	0.0	1999 01 19	910	0.5-	0.0	2000 02 03	704	0.0	0.3+
1991 04 10	809	0.2+	0.8+	1999 11 16	704	0.3+	0.0	2000 02 03	704	0.7-	0.3-
1991 04 10	809	0.3-	0.8-	1999 11 16	704	1.1+	0.3-	2000 02 03	704	0.2-	0.2-
1991 04 19	809	0.3-	0.8+	1999 11 16	704	1.6+	0.5+	2000 02 03	704	0.5-	0.1+
1991 04 19	809	0.7-	1.2+	1999 11 16	704	1.0+	0.7+	2000 02 03	704	0.7-	0.2-
1991 04 19	809	1.6-	0.8+	1999 12 04	703	1.0+	0.3+	2000 02 11	704	0.1-	0.2+
1996 05 13	566	0.9+	0.3-	1999 12 04	703	0.7+	0.4+	2000 02 11	704	0.2-	0.0
1996 05 13	566	0.9+	0.2-	1999 12 04	703	1.5+	0.8+	2000 02 11	704	0.3-	0.3+
1996 05 13	566	0.3+	0.6-	1999 12 04	703	0.9+	0.8+	2000 02 11	704	0.2+	0.2+
1997 09 02	566	0.2+	1.2+	2000 01 05	704	0.1-	0.6-	2000 02 11	704	0.7-	0.4-
1997 09 02	566	0.1+	1.3+	2000 01 05	704	0.7+	0.1+	2000 02 12	691	0.1-	0.9-
1997 09 02	566	0.2+	1.0+	2000 01 05	704	0.3-	0.6-	2000 02 12	691	0.2-	0.8-
1998 10 19	699	0.4-	0.2+	2000 01 05	704	0.6+	0.4-	2000 02 12	691	0.0	0.9-
1998 10 19	699	0.3+	0.2-	2000 01 05	704	0.2+	0.2+	2000 02 26	703	0.4-	0.2+
1998 10 19	699	0.3+	0.6-	2000 01 06	120	1.9-	1.1-	2000 02 26	703	0.9-	0.1+
1998 11 10	704	0.1-	0.1+	2000 01 06	120	1.1-	0.6-	2000 02 26	703	0.3-	0.0
1998 11 10	704	0.5+	0.2+	2000 01 07	120	0.3+	0.2-	2000 02 26	703	1.0-	1.4+
1998 11 10	704	0.0	0.4+	2000 01 07	120	0.2-	0.1-	2000 02 29	704	0.3+	0.0
1998 11 10	704	0.6+	0.7+	2000 01 07	704	0.4+	0.4-	2000 02 29	704	0.3+	0.5+
1998 11 10	704	(2.1-	0.3+)	2000 01 07	704	0.1-	0.6-	2000 02 29	704	0.2+	0.5+
1998 11 11	704	0.8-	0.0	2000 01 07	704	0.2+	0.3+	2000 02 29	704	0.3+	0.6+
1998 11 11	704	1.0-	0.2-	2000 01 07	704	0.3+	0.2-	2000 02 29	704	0.2-	0.6+
1998 11 11	704	0.2-	0.6-	2000 01 07	704	0.1-	0.0	2000 03 01	691	0.3-	0.7-
1998 11 14	376	0.4+	0.3-	2000 01 15	120	0.4-	0.2+	2000 03 01	691	0.4-	0.7-
1998 11 14	376	0.1+	0.3-	2000 01 15	120	0.0	0.2-	2000 03 01	691	0.5-	0.7-
1998 11 17	376	0.3-	0.5+	2000 01 15	120	1.2-	0.0	2000 03 05	704	0.8+	0.3-
1998 11 17	376	0.0	0.0	2000 01 16	120	0.7+	0.3+	2000 03 05	704	0.5+	0.6+
1998 11 18	704	0.3+	0.4+	2000 01 16	120	0.5+	0.7-	2000 03 05	704	0.1+	1.0+
1998 11 18	704	0.0	1.2-	2000 01 28	691	0.2-	0.3-	2000 03 05	704	0.2+	0.4+
1998 11 18	704	1.2-	1.1-	2000 01 28	691	0.2-	0.3-	2000 03 05	704	0.3+	0.9+
1998 11 18	704	(5.5-	1.9-)	2000 01 28	691	0.3-	0.3-	2000 03 11	691	0.9+	0.1-
1998 12 16	699	0.4-	0.1-	2000 02 02	704	0.3+	0.3+	2000 03 11	691	0.9+	0.1-
1998 12 16	699	0.0	0.5+	2000 02 02	704	0.3+	0.8+	2000 03 11	691	0.7+	0.1-
1998 12 16	699	0.1+	0.2+	2000 02 02	704	0.3+	0.4+				
1999 01 19	910	0.5-	0.1+	2000 02 02	704	0.4+	0.7+				

(14247)* 2000 AV₅₅ = 1950 TZ₁ = 1976 UQ₂₀ = 1980 WJ₁ = 1991 UM₂
= 1998 MO₃₇

Discovered 2000 Jan. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38639)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	125.81821		(2000.0)	P	Q
n	0.26566528	ω	245.06914	+0.97033090	+0.23522910
a	2.3965115	Ω	101.28611	-0.19613729	+0.90102326
e	0.2073299	i	3.26798	-0.14137933	+0.36445076
P	3.71	H	13.8	G 0.15	U 1

Residuals in seconds of arc

1950 10 15	024	(0.2-	4.3-)	1998 06 24	699	0.5+	0.1+	2000 01 06	704	0.7+	1.0+
1976 10 23	808	0.2+	1.4+	1998 07 02	699	0.3-	0.9+	2000 01 06	704	0.5+	0.1+
1976 10 23	808	1.4-	0.9+	1998 07 02	699	0.5-	0.8+	2000 01 30	704	1.6+	0.8+
1980 11 30	095	0.4+	0.4-	1998 07 02	699	0.1+	0.7+	2000 01 30	704	0.5-	0.3+
1991 10 29	400	0.2+	0.6-	1999 11 16	704	0.2-	0.0	2000 01 30	704	0.6-	0.2-
1991 10 29	400	0.9+	1.1-	1999 11 16	704	0.3-	1.1-	2000 01 31	704	0.2+	0.2+
1991 10 31	400	0.3+	1.4+	1999 11 16	704	0.3-	0.1-	2000 01 31	704	0.2-	0.1+
1991 10 31	400	0.8-	0.1+	1999 11 16	704	0.4-	0.2-	2000 01 31	704	0.0	0.1+
1991 11 02	400	1.0-	1.2+	2000 01 04	704	0.1-	0.7-	2000 02 11	704	0.4-	0.3+
1991 11 02	400	0.4-	1.4-	2000 01 04	704	0.4-	0.1-	2000 02 11	704	0.1-	0.2+
1991 11 04	400	1.0+	0.4+	2000 01 04	704	0.3-	0.0	2000 02 11	704	0.4+	0.3+
1991 11 04	400	0.4+	1.3-	2000 01 04	704	0.1+	0.3+	2000 02 11	704	0.3+	0.8+
1998 06 24	699	0.0	0.3+	2000 01 04	704	0.1+	1.1+	2000 02 11	704	0.1+	1.0+
1998 06 24	699	0.4-	0.2+	2000 01 06	704	0.0	0.4+				

(14248)* 2000 AF₅₆ = 1981 TC = 1981 TT₃ = 1991 KS₂ = 1991 LO₆
= 1996 FO₁₉ = 1998 VN₂₃

Discovered 2000 Jan. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38640)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	118.28689		(2000.0)	P	Q
n	0.17622622	ω	207.67442	+0.99534837	+0.09539794
a	3.1508110	Ω	146.84293	-0.08322561	+0.92174065
e	0.1893251	i	1.40891	-0.04852948	+0.37589015
P	5.59	H	13.1	G 0.15	U 1

Residuals in seconds of arc

1981 10 04	801	1.9-	2.1+	1998 11 11	704	0.0	0.1+	2000 01 04	704	0.3-	1.3-
1981 10 07	095	1.6+	0.9-	1998 11 11	704	0.8+	0.0	2000 01 04	704	0.6-	0.3-
1991 05 18	809	1.3-	0.1+	1998 11 11	704	1.3+	0.6-	2000 01 06	704	1.3-	0.1-
1991 05 18	809	(2.2- 0.0)		1998 11 11	704	0.3+	0.9-	2000 01 06	704	0.1-	0.9+
1991 05 18	809	1.8-	0.7+	1998 11 11	704	0.0	1.0-	2000 01 06	704	0.1-	0.2-
1991 06 06	809	1.4+	0.7-	1998 11 11	699	0.3+	0.2+	2000 01 30	704	0.1-	0.6+
1991 06 06	809	0.3+	0.4-	1998 11 11	699	0.4+	0.2+	2000 01 30	704	1.1-	1.0+
1991 06 06	809	0.0	0.0	1998 11 11	699	0.1-	0.4+	2000 01 30	704	0.4-	1.0+
1996 03 24	809	0.9+	0.9+	1998 11 24	699	0.2-	0.2-	2000 02 02	704	0.5+	0.2+
1996 03 24	809	1.2-	0.3+	1998 11 24	699	0.2-	0.1+	2000 02 02	704	0.2+	0.6+
1996 03 24	809	1.0-	0.7-	1998 11 24	699	0.3+	0.8+	2000 02 02	704	0.5+	0.5-
1996 03 26	809	1.6+	0.6-	1998 12 08	704	1.0+	1.2-	2000 02 02	704	1.9+	0.0
1996 03 26	809	0.9+	0.4-	1998 12 08	704	0.1-	0.6-	2000 02 02	704	0.2+	0.4-
1996 03 26	809	0.3+	0.8-	1998 12 08	704	0.3+	0.3+	2000 02 08	704	0.8+	0.6+
1998 10 18	699	1.2-	0.6-	1998 12 08	704	(2.2- 1.0+)		2000 02 08	704	0.5+	0.2-
1998 10 18	699	0.7-	1.0-	1998 12 08	704	(3.6- 2.7-)		2000 02 08	704	0.2-	0.1+
1998 10 18	699	0.4-	0.1-	1998 12 08	699	0.3+	0.4-	2000 02 08	704	0.7+	0.2+
1998 11 10	704	0.5+	0.2+	1998 12 08	699	0.2+	0.5+	2000 02 08	704	0.2+	0.5+
1998 11 10	704	0.3-	0.2+	1998 12 08	699	0.0	0.1+	2000 02 12	691	0.1-	0.4-
1998 11 10	704	0.5-	0.6+	2000 01 04	704	0.5-	0.3+	2000 02 12	691	0.2-	0.5-
1998 11 10	704	0.1-	0.4+	2000 01 04	704	0.6-	0.3-	2000 02 12	691	0.3-	0.5-
1998 11 10	704	1.1-	0.7+	2000 01 04	704	0.7-	0.2-				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	84.00096		(2000.0)		P		Q
<i>n</i>	0.17587425	ω	90.63833	+0.72828412			-0.67283217
<i>a</i>	3.1550134	Ω	311.65754	+0.53891985			+0.67951751
<i>e</i>	0.0439791	<i>i</i>	10.02014	+0.42328198			+0.29249415
<i>P</i>	5.60	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 12 12	054	1.1+	1.0+	1999 01 08	699	0.1-	0.5+	2000 02 01	691	0.1+	0.0
1987 12 12	054	0.2+	1.3+	1999 01 08	699	0.8-	0.0	2000 02 03	704	0.1-	0.7+
1992 09 28	399	1.2-	0.8+	1999 12 05	699	(1.5-	3.7+)	2000 02 03	704	0.1-	0.4+
1992 09 28	399	0.6-	1.1-	1999 12 05	699	0.3-	1.9+	2000 02 03	704	0.1+	0.2+
1992 09 29	675	1.0-	0.9-	1999 12 05	699	1.1+	0.7+	2000 02 03	704	0.1+	0.1+
1992 09 29	675	0.1+	0.0	1999 12 15	703	0.0	0.4+	2000 02 03	704	0.1-	0.0
1992 10 04	675	0.1+	0.4-	1999 12 15	703	0.1+	0.5+	2000 02 07	703	0.3-	0.7+
1992 10 04	675	0.2+	1.2-	1999 12 15	703	0.1-	0.4+	2000 02 07	703	0.1+	0.3+
1997 09 02	566	0.1-	1.2+	1999 12 15	703	0.2-	0.8+	2000 02 07	703	0.3+	0.6+
1997 09 02	566	0.1+	1.3+	2000 01 04	704	0.1-	0.5-	2000 02 07	703	0.1-	0.1-
1997 09 02	566	0.2-	1.3+	2000 01 04	704	0.0	0.5-	2000 02 11	704	0.1-	0.0
1998 10 01	699	0.0	0.5-	2000 01 04	704	0.1-	0.5-	2000 02 11	704	0.0	0.3-
1998 10 01	699	0.3+	0.7+	2000 01 04	704	0.2+	0.4-	2000 02 11	704	0.0	0.2+
1998 10 01	699	0.1-	0.9+	2000 01 04	704	0.3-	0.6-	2000 02 11	704	0.1+	0.2-
1998 11 14	704	0.0	0.7+	2000 01 06	704	0.3+	0.4-	2000 02 11	704	0.6-	0.4-
1998 11 14	704	0.4+	0.4-	2000 01 06	704	0.5-	0.7-	2000 02 24	703	0.5+	0.1+
1998 11 14	704	1.0+	1.7-	2000 01 06	704	0.2-	0.6-	2000 02 24	703	(0.7-	2.6-)
1998 11 14	704	0.5+	1.5-	2000 01 06	704	0.5-	1.2-	2000 02 24	703	(1.1+	2.1-)
1998 11 14	704	(0.4+	3.0-)	2000 01 06	704	0.5-	0.4-	2000 02 24	703	0.5-	0.3+
1998 11 16	704	0.1-	0.6+	2000 01 30	691	0.4+	0.1-	2000 03 06	106	0.0	0.4+
1998 11 16	704	0.7-	1.0-	2000 01 30	691	0.4+	0.0	2000 03 06	106	0.2-	0.4+
1998 11 16	704	0.7+	0.4+	2000 01 30	691	0.5+	0.0	2000 03 06	106	0.2-	0.9+
1998 11 16	704	0.7+	0.3+	2000 02 01	691	0.1+	0.0				
1999 01 08	699	0.1-	0.5+	2000 02 01	691	0.5+	0.5-				

(14250)* 2000 AJ₆₃ = 1978 UY₂ = 1995 QR₄ = 1997 EW₁₅

Discovered 2000 Jan. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38644)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	94.86187		(2000.0)		P		Q
<i>n</i>	0.28818098	ω	37.88508	+0.90882533			-0.41662687
<i>a</i>	2.2699999	Ω	346.68710	+0.35643311			+0.80214377
<i>e</i>	0.1738152	<i>i</i>	5.33603	+0.21677629			+0.42777030
<i>P</i>	3.42	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1978 10 26	675	0.2+	1.3-	2000 01 06	704	0.1+	1.1-	2000 02 05	704	0.5+	0.0
1978 10 27	675	0.6+	0.9-	2000 01 06	704	1.2+	0.4-	2000 02 05	704	0.0	0.1-
1995 08 20	691	0.0	0.2+	2000 01 06	704	0.7+	0.3-	2000 02 05	704	0.3-	0.0
1995 08 20	691	0.1+	0.1-	2000 01 06	704	0.5+	0.2-	2000 02 05	704	0.7-	0.4+
1995 08 20	691	0.1+	0.2+	2000 01 30	704	0.5+	0.1-	2000 02 05	704	1.0-	1.4+
1995 08 28	691	0.2-	0.3+	2000 01 30	704	0.8+	1.4+	2000 02 05	704	0.2+	0.1+
1995 08 28	691	0.4-	0.3+	2000 01 30	704	1.2+	0.3+	2000 02 05	704	0.5+	0.3+
1997 03 05	691	0.2-	0.6-	2000 01 30	704	0.6-	0.5+	2000 02 05	704	0.6-	0.1-
1997 03 05	691	0.1+	0.5-	2000 02 02	704	0.6-	0.9+	2000 02 11	704	0.7-	0.6-
1997 03 05	691	0.1+	0.6-	2000 02 02	704	0.4+	0.2+	2000 02 11	704	0.0	0.4-
1997 03 10	691	0.4-	0.6-	2000 02 02	704	0.3-	0.0	2000 02 11	704	0.4-	0.0
1997 03 10	691	0.6-	0.5-	2000 02 02	704	0.5+	0.2+	2000 02 11	704	0.1+	0.8-
1997 03 10	691	0.7-	0.4-	2000 02 02	704	0.3+	0.2+	2000 02 11	704	0.2-	0.6+
2000 01 04	704	0.6-	0.2-	2000 02 03	704	0.2+	0.4+	2000 03 04	704	0.9+	0.0
2000 01 04	704	0.1+	0.9-	2000 02 03	704	0.3-	0.5+	2000 03 04	704	1.0-	0.4+
2000 01 04	704	0.1-	0.6-	2000 02 03	704	0.6-	0.1+	2000 03 04	704	0.0	0.4+
2000 01 04	704	0.5+	0.4+	2000 02 03	704	0.0	0.2+	2000 03 04	704	0.4-	0.5-
2000 01 04	704	0.3-	0.4-	2000 02 03	704	0.2-	0.5+				
2000 01 06	704	0.3+	0.4-	2000 02 05	704	0.3+	0.3+				

(14251)* 2000 AX₆₃ = 1987 SG₂₆ = 1995 DU₂ = 1998 XK₂₇

Discovered 2000 Jan. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38645, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	195.41356		(2000.0)		P		Q
<i>n</i>	0.19079806	ω	350.78279	+0.58664213			+0.80215207
<i>a</i>	2.9882717	Ω	315.03628	-0.73261693			+0.46704795
<i>e</i>	0.0945186	<i>i</i>	9.06759	-0.34514266			+0.37204606
<i>P</i>	5.17	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 09 26	095	(2.1-	3.3+)	1998 12 19	704	0.7-	0.4-	2000 02 05	704	0.1-	0.1+
1995 02 28	596	0.4+	0.7-	1998 12 19	704	0.2+	0.1-	2000 02 05	704	0.1+	0.4+
1995 02 28	596	1.0+	1.0-	1998 12 19	704	1.3+	1.7-	2000 02 06	704	0.2+	0.4-
1995 03 06	596	1.1+	0.7+	1998 12 19	704	0.9-	0.5-	2000 02 06	704	0.0	0.2+
1995 03 06	596	0.0	1.6-	1998 12 19	704	0.8-	0.3-	2000 02 06	704	0.1-	0.2+
1995 03 06	596	0.1+	0.0	1999 11 16	704	0.4+	0.2+	2000 02 06	704	0.0	0.0
1995 03 06	596	0.2-	0.1-	1999 11 16	704	0.3-	0.1-	2000 02 06	704	0.0	0.1-
1995 03 07	596	0.2-	0.2-	1999 11 16	704	0.5+	0.6+	2000 02 08	704	0.2-	0.5+
1995 03 07	596	1.1-	0.1-	1999 11 16	704	0.3-	0.3+	2000 02 08	704	0.0	0.4+
1995 03 07	596	1.3-	0.1-	1999 11 16	704	0.0	0.4-	2000 02 08	704	0.2-	0.0
1995 03 09	596	1.1-	0.2-	2000 01 04	704	0.4+	0.6-	2000 02 08	704	0.0	0.3-
1995 03 09	596	0.4-	0.2-	2000 01 04	704	0.6+	0.1+	2000 02 08	704	0.5+	0.3+
1995 03 09	596	0.0	0.1+	2000 01 04	704	0.7+	0.5+	2000 02 10	691	0.4-	0.5-
1997 08 30	566	0.7-	0.5+	2000 01 04	704	0.2+	1.1+	2000 02 10	691	0.5-	0.3-
1997 08 30	566	0.3-	1.0+	2000 01 04	704	0.8+	0.8+	2000 02 10	691	0.3-	0.6-
1997 08 30	566	0.2-	0.7+	2000 01 06	704	1.2+	0.8+	2000 02 11	704	0.1-	0.2-
1998 11 16	704	1.2-	0.6+	2000 01 06	704	0.1+	0.0	2000 02 11	704	0.1+	0.3+
1998 11 16	704	0.8+	1.0-	2000 01 06	704	0.3+	0.2+	2000 02 11	704	0.2-	0.0
1998 11 16	704	(2.7+	1.7+)	2000 01 06	704	1.3+	0.1+	2000 02 11	704	0.4+	0.2+
1998 11 16	704	0.5+	0.5+	2000 01 06	704	1.2+	0.7-	2000 02 11	704	0.1-	0.2-
1998 11 16	704	0.6+	0.8+	2000 01 16	691	0.2-	0.3-	2000 02 11	704	0.3+	0.1+
1998 12 14	704	0.7-	0.1+	2000 01 16	691	0.3-	0.3-	2000 02 11	704	0.0	0.2-
1998 12 14	704	0.7+	0.7-	2000 01 16	691	0.4-	0.3-	2000 02 11	704	0.4+	0.8+
1998 12 14	704	(2.0-	2.1-)	2000 01 29	691	0.1-	0.1-	2000 02 11	704	0.1-	0.5-
1998 12 14	704	1.0+	0.8-	2000 01 29	691	0.2-	0.2-	2000 02 11	704	0.5+	0.6+
1998 12 14	704	0.9+	1.0-	2000 01 29	691	0.1-	0.3-	2000 02 26	703	0.7-	0.3+
1998 12 17	704	(1.8-	2.2+)	2000 01 30	691	0.5-	0.1-	2000 02 26	703	0.3+	0.4+
1998 12 17	704	0.2+	0.2-	2000 01 30	691	0.3-	0.1-	2000 02 26	703	0.1+	0.6-
1998 12 17	704	0.5-	0.5+	2000 01 30	691	0.4-	0.1-	2000 02 26	703	0.9+	0.3+
1998 12 17	704	0.5-	0.6+	2000 02 03	704	0.0	0.0	2000 03 05	704	1.7-	0.8+
1998 12 17	704	1.2-	0.1-	2000 02 03	704	0.2-	0.4+	2000 03 05	704	0.1-	0.1-
1998 12 19	704	0.3-	1.3+	2000 02 03	704	0.2-	0.5+	2000 03 05	704	0.4+	0.5+
1998 12 19	704	1.0+	0.3+	2000 02 03	704	0.1-	0.7+	2000 03 05	704	0.0	1.3+
1998 12 19	704	0.9+	0.2-	2000 02 03	704	0.5-	0.4+	2000 03 05	704	0.4+	0.3+
1998 12 19	704	0.7-	0.2+	2000 02 05	704	0.0	0.5-				

(14252)* 2000 AD₆₄ = 1978 VO₉ = 1998 SE₁₂₉

Discovered 2000 Jan. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38646)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	242.57194		(2000.0)		P		Q
n	0.28974063	ω	182.03624	-0.00088553			+0.99931076
a	2.2618464	Ω	87.91443	-0.91695604			+0.01399537
e	0.1186934	i	2.12820	-0.39898726			-0.03438220
P	3.40	H	14.9	G	0.15	U	1

2000 MAR. 20

M.P.C. 39123

1997 04 06	566	0.1+	0.2-	1998 11 11	699	0.8+	0.2-	2000 02 03	704	0.0	0.1+
1997 04 06	566	0.2-	0.2-	1998 11 11	699	0.9+	0.1+	2000 02 03	704	0.3+	0.1+
1997 04 06	566	0.3-	0.5-	2000 01 04	704	0.8-	0.1-	2000 02 03	704	0.0	0.0
1998 09 18	699	0.2+	1.3+	2000 01 04	704	0.5-	0.8-	2000 02 03	704	0.7-	0.2+
1998 09 18	699	0.1+	0.3-	2000 01 04	704	0.2-	0.8-	2000 02 03	704	0.1+	1.3+
1998 09 18	699	0.7+	0.9+	2000 01 04	704	0.4-	2.0-	2000 02 11	704	1.1+	0.0
1998 09 26	704	1.1-	1.3-	2000 01 04	704	0.3+	1.6-	2000 02 11	704	0.0	0.5+
1998 09 26	704	0.7+	0.8-	2000 01 06	704	0.1-	0.5-	2000 02 11	704	0.7+	0.2-
1998 09 26	704	1.1+	0.2-	2000 01 06	704	0.3+	0.4-	2000 02 11	704	1.1+	0.1-
1998 09 26	704	0.2+	0.1-	2000 01 06	704	0.8+	0.0	2000 02 11	704	0.6+	0.0
1998 09 26	704	0.1+	0.2+	2000 01 06	704	0.4-	0.0	2000 03 04	704	0.4+	1.4+
1998 09 27	704	1.0-	0.7-	2000 01 25	120	0.7-	0.2+	2000 03 04	704	0.2+	0.6+
1998 09 27	704	0.7+	0.1+	2000 01 25	120	0.7-	0.2+	2000 03 04	704	0.2-	0.5+
1998 09 27	704	0.9-	0.3-	2000 01 25	120	0.7-	0.6-	2000 03 04	704	0.4+	0.2+
1998 09 27	704	1.0-	0.3-	2000 01 26	120	0.0	0.8-	2000 03 04	704	0.4+	1.2+
1998 09 27	704	1.1-	0.9-	2000 01 26	120	0.9-	0.3-				

(14253)* 2000 AL₆₄ = 1989 SX₃

Discovered 2000 Jan. 4 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.
Id. G. V. Williams (*MPC* 38646)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	146.85122		(2000.0)	P	Q		
n	0.22135576	ω	291.61779	+0.97222612	+0.22848654		
a	2.7065049	Ω	55.20819	-0.18534539	+0.88392129		
e	0.0959178	i	3.53935	-0.14291069	+0.40801599		
P	4.45	H	13.8	G	0.15	U	2

Residuals in seconds of arc

1989 09 26	809	1.6-	0.4+	1999 11 16	704	1.6+	0.8-	2000 02 10	704	0.0	0.1-
1989 09 26	809	1.1-	1.0+	1999 11 16	704	0.9+	0.7+	2000 02 10	704	0.0	0.2+
1989 09 26	809	0.7+	0.5+	1999 11 16	704	0.2-	0.2+	2000 02 10	704	0.2+	0.2+
1989 09 28	809	0.1-	0.1-	2000 01 04	704	0.2+	0.6-	2000 02 10	704	0.2+	0.4+
1989 09 28	809	0.5-	0.6-	2000 01 04	704	0.6+	0.1-	2000 02 11	704	0.4+	0.1+
1989 09 28	809	0.2+	0.3-	2000 01 04	704	1.2-	0.9-	2000 02 11	704	0.4+	0.2-
1989 09 29	675	0.7+	0.6-	2000 01 04	704	0.0	0.2-	2000 02 11	704	0.8-	0.6+
1989 09 29	675	0.3+	1.1-	2000 01 04	704	0.7-	0.3+	2000 02 11	704	0.4-	0.0
1989 10 03	809	2.1+	0.4+	2000 01 06	704	0.3-	0.8-	2000 02 11	704	0.0	0.4+
1989 10 03	809	1.1+	1.0+	2000 01 06	704	0.1-	0.7-	2000 02 11	704	0.3+	0.6-
1989 10 03	809	2.1+	0.8+	2000 01 06	699	0.1+	0.2+	2000 02 11	704	0.5-	0.2-
1989 10 07	809	1.2-	0.0	2000 01 06	704	0.1-	0.2-	2000 02 11	704	0.1-	0.3+
1989 10 07	809	1.6-	0.3+	2000 01 06	704	0.0	0.2+	2000 02 11	704	0.7+	0.3-
1989 10 07	809	1.9-	0.3+	2000 01 06	699	0.1+	0.3-	2000 02 11	704	0.3-	0.5+
1996 03 26	566	0.2+	0.1+	2000 01 06	704	0.2-	0.8-	2000 02 26	703	0.8-	0.3+
1996 03 26	566	0.2-	0.0	2000 01 06	704	0.0	0.3-	2000 02 26	703	0.2-	0.3+
1996 03 26	566	0.2+	0.0	2000 01 06	699	0.3+	0.4-	2000 02 26	703	0.7-	0.5+
1998 10 20	699	0.1-	0.1+	2000 01 06	704	0.7+	0.2-	2000 02 26	703	0.1-	0.2+
1998 10 20	699	0.1-	0.8+	2000 01 06	704	1.3+	0.4+	2000 03 04	704	0.2+	0.4-
1998 10 20	699	0.7-	0.4+	2000 02 03	704	0.4+	0.1+	2000 03 04	704	0.8-	0.1-
1998 11 11	704	0.0	0.2+	2000 02 03	704	0.4+	0.5+	2000 03 04	704	0.7-	0.0
1998 11 11	704	1.2+	1.1-	2000 02 03	704	0.4+	0.1+	2000 03 04	704	0.1+	0.3+
1998 11 11	704	0.2-	1.3-	2000 02 03	704	0.0	0.3+	2000 03 04	704	0.2+	0.7+
1998 11 11	704	0.3+	0.2-	2000 02 03	704	0.1-	0.2+				
1998 11 11	704	0.2+	0.3-	2000 02 10	704	0.0	0.6+				

(14254)* 2000 AT₆₄ = 1975 TH = 1983 CY = 1986 RD₁₅ = 1987 YZ₂

Discovered 2000 Jan. 4 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.
Id. A. Doppler (*MPC* 38647)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	33.84542		(2000.0)	P	Q
n	0.17444958	ω	120.82837	-0.18452517	-0.98098433
a	3.1721673	Ω	339.54397	+0.83266192	-0.12351516
e	0.0853347	i	9.91346	+0.52213464	-0.14971220
P	5.65	H	12.5	G 0.15	U 1

Residuals in seconds of arc

1975 10 03	095	1.6-	0.1-	2000 01 04	704	0.9+	0.2-	2000 01 31	372	(0.6-	2.1-)
1983 02 15	688	0.1+	2.0-	2000 01 04	704	0.4+	0.1+	2000 02 03	704	0.5-	0.0
1983 02 15	688	0.2-	1.8-	2000 01 04	704	0.1+	0.5+	2000 02 03	704	0.2-	0.4+
1983 02 19	688	0.4-	2.1-	2000 01 04	704	0.7+	0.0	2000 02 03	704	0.1-	0.1-
1983 02 19	688	(0.1-	2.9-)	2000 01 04	704	0.2-	0.4+	2000 02 03	704	0.2-	0.4+
1986 09 12	095	0.2-	0.8+	2000 01 04	411	0.6-	0.4+	2000 02 03	704	0.0	0.2-
1987 12 20	010	0.4-	0.4-	2000 01 04	411	0.4+	1.2+	2000 02 11	704	0.2+	0.0
1987 12 20	010	0.6+	0.1-	2000 01 06	704	0.5+	0.0	2000 02 11	704	0.2-	0.2-
1987 12 20	010	1.2-	0.5-	2000 01 06	704	0.4+	0.3+	2000 02 11	704	0.0	0.1-
1998 10 03	699	0.1-	0.0	2000 01 06	704	0.0	0.2+	2000 02 11	704	0.2+	0.2-
1998 10 03	699	(2.7-	0.2-)	2000 01 06	699	0.3+	0.4+	2000 02 11	704	0.0	0.1-
1998 10 03	699	0.5-	0.1-	2000 01 06	704	0.1-	0.1+	2000 02 26	703	0.1-	0.4-
1998 11 14	704	0.4+	0.0	2000 01 06	699	0.0	0.5+	2000 02 26	703	0.8-	0.4+
1998 11 14	704	0.4+	0.1-	2000 01 06	704	0.7-	0.1+	2000 02 26	703	0.5-	0.0
1998 11 14	704	1.2+	1.1-	2000 01 06	699	0.3+	0.5+	2000 02 26	703	0.3+	0.1+
1998 11 14	704	1.1+	0.5-	2000 01 07	411	0.1+	0.5-	2000 03 04	704	0.8+	0.1-
1998 11 14	704	0.4+	0.7-	2000 01 07	411	0.5-	0.5-	2000 03 04	704	0.6-	0.9+
1998 11 16	704	(2.6-	4.9+)	2000 01 28	372	0.9+	0.7+	2000 03 04	704	0.6-	0.8+
1998 11 16	704	0.1+	0.9+	2000 01 28	372	0.3-	0.2-	2000 03 04	704	0.2-	0.3+
1998 11 16	704	0.3+	1.5+	2000 01 30	704	0.0	0.2+	2000 03 04	704	0.1+	0.6+
1998 11 16	704	0.7-	0.1-	2000 01 30	704	0.1+	0.1+	2000 03 12	120	0.5-	0.7-
1998 11 16	704	(3.9-	1.3-)	2000 01 30	704	0.2+	0.1+	2000 03 12	120	0.7+	0.6-
1999 12 08	704	(0.1-	2.2+)	2000 01 30	704	0.3+	0.8+	2000 03 12	120	0.7-	0.5-
1999 12 08	704	1.1+	1.1+	2000 01 30	704	0.1+	0.6+	2000 03 12	120	1.2-	0.0
1999 12 08	704	(2.2+	0.7-)	2000 01 30	372	1.4+	0.2-				

(14255)* 2000 AS₇₀ = 1971 XE = 1977 CM₂ = 1980 TT₁₃ = 1991 CY₄
= 1998 MH₃₇

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38648, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	29.60809		(2000.0)	P	Q
n	0.21065450	ω	298.25789	+0.52730467	-0.83924822
a	2.7974064	Ω	119.31322	+0.82312467	+0.46581682
e	0.2200956	i	8.75439	+0.21074998	+0.28049440
P	4.68	H	13.0	G 0.15	U 1

Residuals in seconds of arc

1971 12 15	095	2.4+	1.5+	1999 12 06	704	0.3-	0.7-	2000 02 02	704	0.1-	0.8+
1977 02 11	675	1.7-	1.2+	1999 12 06	704	0.8-	0.3-	2000 02 02	704	0.3+	0.8+
1977 02 12	675	1.1-	0.7+	1999 12 06	704	0.4-	0.4-	2000 02 03	704	0.4-	0.5-
1980 10 12	095	1.1-	1.1-	1999 12 06	704	0.5-	0.4-	2000 02 03	704	0.3+	0.1-
1991 02 09	675	0.1-	1.2-	1999 12 14	704	0.1-	0.2-	2000 02 03	704	0.5-	0.2+
1991 02 09	675	0.5+	1.5-	1999 12 14	704	0.3-	0.1-	2000 02 03	704	0.1+	0.1+
1998 06 23	699	0.1+	0.6+	1999 12 14	704	0.1-	0.1-	2000 02 03	704	0.6+	0.9+
1998 06 23	699	0.2-	1.1+	1999 12 14	704	0.1+	0.6-	2000 02 05	327	0.3+	0.0
1998 06 23	699	0.7+	1.1+	1999 12 14	704	0.4-	0.1+	2000 02 05	327	0.1+	0.3-
1998 07 02	699	0.4+	0.3+	2000 01 05	704	0.8+	0.0	2000 02 05	327	0.8+	0.6+
1998 07 02	699	0.7+	0.2+	2000 01 05	704	0.2+	0.3+	2000 02 07	327	0.0	0.3-
1998 07 02	699	0.2+	0.1+	2000 01 05	704	0.1-	0.4+	2000 02 07	327	0.1+	0.4-
1998 08 17	704	0.0	0.2+	2000 01 05	704	0.0	0.2+	2000 02 07	327	0.2+	0.1-
1998 08 17	704	0.2-	0.4+	2000 01 05	704	0.0	0.0	2000 02 09	327	0.0	0.3+
1998 08 17	704	0.2-	1.8+	2000 01 06	704	0.2+	0.4-	2000 02 09	327	0.1+	0.4+
1998 08 17	704	0.3+	1.8-	2000 01 06	704	0.2-	0.3-	2000 02 09	327	0.1+	0.0
1998 08 17	704	1.0-	0.5-	2000 01 06	704	0.1-	0.6+	2000 03 04	704	0.0	0.2+
1999 10 20	704	0.5-	0.7+	2000 01 06	704	0.2-	0.7+	2000 03 04	704	0.1+	0.5+

1999 10 20	704	0.1−	0.8−	2000 01 06	704	0.7−	0.7+	2000 03 04	704	0.3+	0.6+
1999 10 20	704	0.3+	0.0	2000 02 02	704	0.1+	0.5−	2000 03 04	704	0.5+	0.9+
1999 10 20	704	0.7+	0.2−	2000 02 02	704	0.2+	0.2−	2000 03 04	704	0.6+	1.1+
1999 12 06	704	0.4−	0.3−	2000 02 02	704	0.2−	0.2+				

(14256)* 2000 AA₉₆ = 1978 WA₁₈ = 1996 HW₉ = 1998 XO₂₇

Discovered 2000 Jan. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. M. E. Sansaturio (*MPC* 38662)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19771391	ω	346.99711	+0.99270859	+0.12050399		
<i>a</i>	2.9181744	Ω	6.08395	−0.10799192	+0.89983292		
<i>e</i>	0.0924234	<i>i</i>	1.57209	−0.05354820	+0.41926067		
<i>P</i>	4.99	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1978 11 30	675	0.4−	0.0	2000 01 07	704	0.4+	0.2+	2000 02 27	691	0.4−	0.1−
1978 12 01	675	0.3+	0.2+	2000 01 07	704	1.0+	0.2−	2000 02 27	691	0.7−	0.1−
1996 04 17	809	0.5−	1.1+	2000 01 07	704	0.5−	0.2−	2000 02 29	704	0.4+	0.5+
1996 04 17	809	0.1+	0.0	2000 01 13	046	0.1−	0.3−	2000 02 29	704	0.5+	0.1−
1996 04 17	809	0.5−	0.4+	2000 01 13	046	0.3−	0.1−	2000 02 29	704	0.5+	0.2+
1996 04 18	809	0.1+	1.0+	2000 01 13	046	0.1−	0.2+	2000 02 29	704	0.5+	0.0
1996 04 18	809	1.2+	0.7+	2000 01 13	046	0.2−	0.2+	2000 02 29	704	0.3+	0.6−
1996 04 18	809	0.9+	0.2+	2000 01 13	046	0.2−	0.5+	2000 03 03	704	0.7+	0.2+
1998 12 11	699	0.5−	0.7+	2000 01 14	046	0.2−	0.2+	2000 03 03	704	0.1+	0.1−
1998 12 11	699	0.7−	1.0+	2000 01 14	046	0.1+	0.0	2000 03 03	704	0.3+	0.0
1998 12 11	699	0.6−	0.7+	2000 01 14	046	0.2+	0.0	2000 03 03	704	0.2+	0.2−
1998 12 14	704	0.2+	1.0+	2000 01 14	046	0.2+	0.2+	2000 03 03	704	1.6+	0.2−
1998 12 14	704	0.1+	0.6+	2000 01 14	046	0.3+	0.0	2000 03 05	704	0.2−	0.0
1998 12 14	704	0.1−	0.4+	2000 02 04	704	1.4+	0.2+	2000 03 05	704	0.2+	0.4−
1998 12 14	704	0.0	0.7+	2000 02 04	704	0.1−	0.5−	2000 03 05	704	0.4−	0.2+
1998 12 17	704	0.1−	0.7−	2000 02 04	704	0.2+	0.7−	2000 03 05	704	0.0	0.1+
1998 12 17	704	0.1−	0.3−	2000 02 04	704	0.1+	1.0−	2000 03 05	704	0.3−	0.1−
1998 12 17	704	0.1−	0.3−	2000 02 04	704	0.8+	1.1−	2000 03 08	704	1.8−	1.0+
1998 12 17	704	0.8+	0.8−	2000 02 11	704	0.3+	0.4+	2000 03 08	704	(0.4−	2.2+)
1998 12 17	704	0.3+	0.2+	2000 02 11	704	0.6+	0.0	2000 03 08	704	0.8−	1.7+
1999 11 16	704	0.3+	0.8+	2000 02 11	704	0.0	0.1+	2000 03 08	704	1.6−	1.4+
1999 11 16	704	0.4−	0.3+	2000 02 11	704	0.2−	0.2−	2000 03 08	704	0.7−	1.7+
1999 11 16	704	0.7−	0.3+	2000 02 11	704	0.3−	0.2−	2000 03 09	704	0.7+	0.2+
1999 11 16	704	0.7−	0.2+	2000 02 25	703	0.3+	0.1−	2000 03 09	704	0.8−	0.3+
1999 11 16	704	0.4+	0.3−	2000 02 25	703	0.4−	0.0	2000 03 09	704	0.1+	0.5−
2000 01 04	704	0.4+	1.1−	2000 02 25	703	0.5−	0.1+	2000 03 09	704	0.2+	0.2−
2000 01 04	704	0.4−	0.2+	2000 02 25	703	0.3−	0.6+	2000 03 09	704	0.1+	0.5−
2000 01 04	704	0.3+	1.0−	2000 02 26	684	0.0	0.3−	2000 03 11	704	0.2−	0.4−
2000 01 04	704	1.1+	0.3+	2000 02 26	684	0.2−	0.3−	2000 03 11	704	0.1−	0.0
2000 01 04	704	0.5−	0.1+	2000 02 27	684	0.3−	0.1−	2000 03 11	704	0.7+	1.4−
2000 01 07	704	0.6−	0.2−	2000 02 27	684	0.1−	0.2−	2000 03 11	704	0.2−	0.0
2000 01 07	704	0.1+	0.1−	2000 02 27	691	0.4−	0.1−	2000 03 11	704	0.3−	0.4−

**(14257)* 2000 AR₉₇ = 1942 VT = 1962 WC₂ = 1962 XR = 1972 VO₁
= 1972 XD₂ = 1972 YB₁ = 1975 VU₅ = 1983 AA₅
= 1987 FS₁**

Discovered 2000 Jan. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38664)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29681434	ω	3.70517	+0.51368826	−0.85476086		
<i>a</i>	2.2257658	Ω	55.39948	+0.78484255	+0.43319274		
<i>e</i>	0.1393989	<i>i</i>	5.17310	+0.34662161	+0.28588097		
<i>P</i>	3.32	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1942 11 05	062	1.3−	0.1−	2000 01 04	704	0.2−	0.4−	2000 02 29	704	0.3+	0.4−
1942 11 05	062	0.6+	0.0	2000 01 04	704	0.2−	0.0	2000 02 29	704	0.1−	0.1−
1942 12 11	062	0.2+	0.9+	2000 01 04	704	0.2+	0.2+	2000 02 29	704	0.6−	0.0
1962 11 30	760	(3.1+ 68.7−)		2000 01 04	704	1.2+	0.8−	2000 02 29	704	0.3+	0.1+
1962 12 02	760	(16.6+ 35.2−)	X	2000 01 07	704	1.1−	0.7−	2000 02 29	704	0.9−	0.5+
1972 11 09	095	(0.7+ 6.9−)		2000 01 07	704	0.3+	0.8−	2000 03 01	903	0.4−	0.3−
1972 12 01	095	(10.8− 7.5+)		2000 01 07	704	0.2+	1.0−	2000 03 01	903	0.5−	0.3−
1972 12 30	095	1.3+	1.6+	2000 01 07	704	0.2+	0.8−	2000 03 02	703	0.2−	0.2+
1975 11 05	095	(3.2− 0.1−)		2000 01 07	704	1.4+	0.7−	2000 03 02	703	0.2−	0.0
1983 01 14	095	1.8−	0.9−	2000 01 10	699	0.4+	0.1+	2000 03 02	703	0.0	0.6+
1987 03 22	033	0.2−	0.2+	2000 01 10	699	0.5+	0.1+	2000 03 02	703	0.1+	0.1−
1987 03 23	033	0.1−	0.0	2000 01 10	699	0.5+	0.2+	2000 03 05	704	0.8−	0.6+
1998 07 04	699	0.1−	0.7+	2000 02 04	704	1.6+	0.7−	2000 03 05	704	0.2−	0.1+
1998 07 04	699	0.2−	0.6+	2000 02 04	704	0.7+	0.7+	2000 03 05	704	0.3−	0.0
1998 07 04	699	0.2−	0.7+	2000 02 04	704	0.9+	0.2+	2000 03 05	704	0.4−	0.1+
1998 07 31	699	0.1−	0.3+	2000 02 04	704	1.1+	0.3+	2000 03 12	704	0.2−	0.2+
1998 07 31	699	0.0	0.3+	2000 02 04	704	1.5−	0.2+	2000 03 12	704	0.0	0.0
1998 07 31	699	0.2−	0.3+	2000 02 11	704	0.3+	0.3+	2000 03 12	704	0.2−	0.3−
1999 11 16	704	0.2+	0.1−	2000 02 11	704	0.0	0.4+	2000 03 12	704	0.1−	0.4−
1999 11 16	704	0.2+	0.2−	2000 02 11	704	0.6+	0.1+	2000 03 12	704	0.1+	0.4−
1999 11 16	704	0.2−	0.0	2000 02 11	704	0.2−	0.7+	2000 03 13	704	0.1−	0.4+
1999 11 16	704	(1.2− 2.1+)		2000 02 11	704	0.0	0.4+	2000 03 13	704	0.2−	0.4+
1999 11 16	704	0.2+	0.2−	2000 02 14	106	0.3+	0.2+	2000 03 13	704	0.1−	0.5+
1999 12 17	699	0.2−	0.1−	2000 02 14	106	0.2+	0.5+	2000 03 13	704	0.0	0.5+
1999 12 17	699	0.5+	0.2+	2000 02 14	106	0.1−	0.4+	2000 03 13	704	0.2−	0.6+
1999 12 17	699	0.2+	0.6+	2000 02 27	611	0.3+	0.1−				
2000 01 04	704	0.5−	1.3−	2000 02 27	611	0.4−	0.4+				

(14258)* 2000 AM₁₁₆ = 1984 SR₆ = 1997 EW₅₆ = 1998 RK₂₅

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38668)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27944062	ω	101.40368	−0.02464058	+0.99954643		
<i>a</i>	2.3170906	Ω	167.14647	−0.94487604	−0.01762950		
<i>e</i>	0.0365497	<i>i</i>	4.46378	−0.32649980	−0.02441569		
<i>P</i>	3.53	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1984 09 27	809	1.7+	1.3+	1998 08 23	704	1.6−	0.5−	1999 12 14	704	0.7+	0.4−
1984 09 27	809	2.0+	1.2+	1998 08 23	704	(3.6−	0.4−)	2000 01 05	704	0.4−	0.2+
1984 09 27	809	2.0+	1.3+	1998 08 23	704	1.2−	0.2−	2000 01 05	704	0.5−	0.3+
1984 09 28	809	2.0−	0.9−	1998 08 23	704	(6.6−	0.3+)	2000 01 05	704	0.5−	0.4+
1984 09 28	809	1.7−	0.8−	1998 09 14	704	0.7+	0.1+	2000 01 05	704	0.1−	0.3+
1984 09 28	809	1.5−	0.8−	1998 09 14	704	0.0	0.4−	2000 01 05	704	0.5−	0.0
1984 09 29	809	0.6−	0.3+	1998 09 14	704	0.7+	0.4−	2000 01 07	704	0.1+	0.1−
1984 09 29	809	0.5−	0.4+	1998 09 14	704	0.1−	0.8−	2000 01 07	704	0.0	0.0
1984 09 29	809	0.4−	0.9+	1998 09 14	704	0.1+	0.9−	2000 01 07	704	0.4+	0.0
1997 03 10	809	0.7+	1.5+	1998 09 18	704	0.8+	1.2+	2000 01 07	704	0.2+	0.3+
1997 03 10	809	1.0+	1.5+	1998 09 18	704	0.2−	0.4−	2000 01 07	704	0.3+	0.4+
1997 03 10	809	1.0+	2.0+	1998 09 18	699	0.5−	1.4+	2000 02 02	704	0.0	0.4+
1997 03 11	809	0.2+	1.1+	1998 09 18	704	0.6−	0.6+	2000 02 02	704	0.1+	0.1−
1997 03 11	809	(0.2−	2.1+)	1998 09 18	699	0.0	1.1+	2000 02 02	704	0.4−	0.3+
1997 03 11	809	0.2−	1.4+	1998 09 18	704	0.1+	0.9+	2000 02 02	704	0.2−	0.2+
1998 08 17	704	0.0	0.5+	1998 09 18	704	0.3+	1.2+	2000 02 02	704	0.1−	0.1−
1998 08 17	704	0.4+	0.1+	1998 09 18	699	0.1−	1.2+	2000 02 03	704	0.6+	0.4+
1998 08 17	704	0.8+	0.5+	1999 12 14	704	0.6+	1.1−	2000 02 03	704	0.0	0.0
1998 08 17	704	0.3−	1.0+	1999 12 14	704	0.2+	0.1−	2000 02 03	704	0.2−	0.4+
1998 08 17	704	0.7+	0.8+	1999 12 14	704	0.2+	0.7−	2000 02 03	704	0.2−	0.7+
1998 08 23	704	1.8−	1.2−	1999 12 14	704	0.4+	0.4−	2000 02 03	704	0.1−	1.0+

2000 MAR. 20

M.P.C. 39125

Id. G. V. Williams (*MPC* 38669)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	58.59281	(2000.0)	P		Q	
<i>n</i>	0.16918904	ω	276.37592	+0.55801330	-0.82084741	
<i>a</i>	3.2375853	Ω	138.92081	+0.81563001	+0.51549056	
<i>e</i>	0.1299250	<i>i</i>	10.68043	+0.15286868	+0.24592483	
<i>P</i>	5.83	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1975 12 06	809	0.1+	0.1-	1999 11 08	699	0.1+	0.2-	2000 02 02	704	0.2+	0.4+
1975 12 06	809	0.1+	0.2-	1999 12 14	704	0.5+	0.0	2000 02 02	704	0.2+	0.1+
1975 12 07	809	0.4+	0.3-	1999 12 14	704	0.7+	1.4+	2000 02 03	704	0.3-	0.4+
1975 12 07	809	0.2+	0.5-	1999 12 14	704	0.2-	0.4+	2000 02 03	704	0.4-	0.2+
1993 12 16	675	1.0-	0.9-	1999 12 14	704	0.7-	0.7+	2000 02 03	704	0.2-	0.5+
1993 12 16	675	0.6-	0.3-	1999 12 14	704	1.2-	1.2+	2000 02 03	704	0.4-	0.3+
1998 09 21	699	0.3-	0.5+	1999 12 31	699	0.1-	1.0+	2000 02 03	704	0.3-	0.5+
1998 09 21	699	0.3+	0.1-	1999 12 31	699	1.1+	1.3+	2000 02 10	704	0.3+	0.2-
1998 09 21	699	0.0	0.1-	1999 12 31	699	1.8-	0.3-	2000 02 10	704	0.2+	0.3+
1998 10 18	699	0.0	0.3+	2000 01 05	704	0.4+	0.9-	2000 02 10	704	0.6+	0.2+
1998 10 18	699	0.1+	0.1-	2000 01 05	704	0.7+	0.5-	2000 02 10	704	0.3+	0.5+
1998 10 18	699	0.0	0.2+	2000 01 05	704	0.0	0.6-	2000 02 10	704	0.3-	0.1-
1998 11 13	704	1.0+	0.6+	2000 01 05	704	0.3+	0.4-	2000 02 26	703	0.2+	0.6+
1998 11 13	704	1.8-	0.9+	2000 01 05	704	0.7+	1.0-	2000 02 26	703	0.8-	0.3+
1998 11 13	704	0.1-	0.2-	2000 01 07	704	0.3+	1.1-	2000 02 26	703	0.4+	0.2+
1998 11 13	704	(2.7-	1.9-)	2000 01 07	704	0.4-	0.9-	2000 02 26	703	0.2+	0.4+
1999 10 20	704	0.2+	0.9-	2000 01 07	704	0.2-	1.2-	2000 03 05	704	0.9+	0.6-
1999 10 20	704	0.0	0.8-	2000 01 07	704	0.0	0.7-	2000 03 05	704	0.1-	1.8-
1999 10 20	704	0.1-	0.5-	2000 01 07	704	0.2+	0.7-	2000 03 05	704	0.8-	0.1-
1999 10 20	704	0.2+	1.1-	2000 02 02	704	0.2-	0.3+	2000 03 05	704	0.2-	1.6+
1999 11 08	699	1.0+	0.6+	2000 02 02	704	0.1-	0.4+	2000 03 05	704	0.3+	0.8+
1999 11 08	699	0.6+	1.6+	2000 02 02	704	0.1+	0.0				

(14260)* 2000 AF₁₁₉ = 1984 BG₅ = 1992 OZ₄ = 1997 NS₆

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38671)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	59.72749	(2000.0)	P		Q	
<i>n</i>	0.18427650	ω	286.21699	+0.47929067	-0.86598284	
<i>a</i>	3.0583657	Ω	134.24052	+0.86195176	+0.43383995	
<i>e</i>	0.0953689	<i>i</i>	11.48673	+0.16528648	+0.24870991	
<i>P</i>	5.35	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1984 01 25	675	1.5+	0.2-	1998 11 13	704	0.0	0.4+	2000 01 07	704	0.0	0.1+
1984 01 26	675	1.1-	1.2+	1998 11 13	704	0.1-	0.2-	2000 01 07	704	0.2-	0.3+
1992 07 26	809	0.6-	1.1+	1998 12 18	699	0.2-	0.2-	2000 01 07	704	0.2+	0.4+
1992 07 26	809	0.8-	0.3+	1998 12 18	699	0.2-	0.8+	2000 01 07	704	0.2+	0.4-
1992 07 26	809	1.3-	1.6+	1998 12 18	699	0.2+	1.0-	2000 02 02	704	0.1+	0.3+
1992 07 30	809	(0.8-	2.6+)	1999 12 14	704	1.2+	0.5+	2000 02 02	704	0.1+	0.1-
1992 07 30	809	(1.5-	2.5+)	1999 12 14	704	0.8+	0.4-	2000 02 02	704	0.7-	0.1-
1992 07 30	809	0.7+	1.4+	1999 12 14	704	1.3+	0.8+	2000 02 02	704	0.4-	0.1+
1997 07 10	327	0.4+	0.0	1999 12 14	704	0.6+	0.8+	2000 02 02	704	0.3-	0.6-
1997 07 10	327	0.2-	0.4+	1999 12 14	704	(0.2-	2.6+)	2000 02 03	704	0.4+	0.4+
1997 07 10	327	0.4+	0.4+	1999 12 31	699	0.4-	0.3+	2000 02 03	704	0.1-	0.4+
1997 07 11	327	0.4+	0.2+	1999 12 31	699	0.1-	0.1+	2000 02 03	704	0.1+	0.0
1997 07 11	327	0.3+	0.5-	1999 12 31	699	0.3-	0.3+	2000 02 03	704	0.3-	0.0
1997 07 11	327	0.2-	0.7+	2000 01 05	704	0.2-	0.1+	2000 02 03	704	0.5-	0.3-
1998 10 18	699	0.4+	0.3-	2000 01 05	704	0.4-	0.1-	2000 02 26	703	0.2-	0.1-
1998 10 18	699	0.1-	0.0	2000 01 05	704	0.1-	0.1-	2000 02 26	703	0.6-	1.4+
1998 10 18	699	0.3+	0.7-	2000 01 05	704	0.2-	0.2-	2000 02 26	703	0.0	0.2+
1998 11 13	704	0.1+	0.1+	2000 01 05	704	0.2-	0.3-	2000 02 26	703	0.3+	0.8+
1998 11 13	704	0.1+	0.2+	2000 01 07	704	0.1-	0.1+				

(14261)* 2000 AB₁₂₁ = 1988 VM₆ = 1997 NJ₁₁

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38672)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	81.60079	(2000.0)	P		Q	
<i>n</i>	0.19022790	ω	129.19584	+0.74795734	-0.64205456	
<i>a</i>	2.9942398	Ω	271.42666	+0.54519512	+0.73891116	
<i>e</i>	0.0971664	<i>i</i>	9.69217	+0.37857905	+0.20439236	
<i>P</i>	5.18	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1988 11 03	033	0.1-	0.3+	1999 12 06	704	0.3-	0.4-	2000 02 02	704	0.2+	0.6+
1988 11 04	033	0.1-	0.0	1999 12 06	704	0.3+	0.7+	2000 02 04	704	0.3+	0.3-
1988 11 04	033	0.3+	0.8+	1999 12 06	704	0.0	1.2-	2000 02 04	704	0.2-	0.3-
1997 07 12	327	0.2-	0.3-	1999 12 14	704	0.9+	0.0	2000 02 04	704	0.1+	0.1-
1997 07 12	327	0.3-	0.0	1999 12 14	704	0.3+	0.2-	2000 02 04	704	0.5-	0.2-
1997 07 12	327	0.1-	0.3+	1999 12 14	704	0.4+	1.2-	2000 02 04	704	0.8+	0.7-
1997 07 13	327	0.4+	0.4+	1999 12 14	704	1.0+	0.6-	2000 02 05	704	0.3-	0.3-
1997 07 13	327	0.1-	0.3+	1999 12 14	704	0.3-	1.5-	2000 02 05	704	0.0	0.2+
1998 09 20	699	0.7+	0.6+	2000 01 04	699	0.4-	0.2+	2000 02 05	704	0.5-	0.5+
1998 09 20	699	0.3+	0.3-	2000 01 04	699	0.3+	0.2+	2000 02 05	704	0.1-	0.7+
1998 09 20	699	0.3+	0.4+	2000 01 04	699	0.2+	0.3-	2000 02 05	704	0.2-	0.7+
1999 01 05	699	0.2-	0.7+	2000 01 05	704	0.2+	0.1-	2000 02 28	703	0.3+	0.3+
1999 01 05	699	0.1+	0.2+	2000 01 05	704	0.1+	0.1-	2000 02 28	703	0.2+	0.2+
1999 01 05	699	0.8-	0.2+	2000 01 05	704	0.1-	0.1-	2000 02 28	703	0.2-	0.2-
1999 01 08	704	0.9-	1.3-	2000 01 05	704	0.1+	0.1-	2000 02 28	703	0.7-	0.2+
1999 01 08	704	0.2-	1.5-	2000 01 05	704	0.0	0.1-	2000 02 28	703	0.8-	0.3-
1999 01 08	704	(0.1-	2.1-)	2000 01 07	704	0.1-	0.3+	2000 02 28	703	0.5-	0.5+
1999 01 08	704	0.3+	0.3-	2000 01 07	704	0.3-	0.1+	2000 02 28	703	0.4-	0.4-
1999 01 08	704	(5.5-	0.6-)	2000 01 07	704	0.1-	0.3+	2000 02 28	703	0.4+	0.2-
1999 11 08	703	0.1-	0.9+	2000 01 07	704	0.5-	0.5+	2000 03 05	704	0.6+	0.2-
1999 11 08	703	(1.8-	2.3-)	2000 01 07	704	0.3-	0.1+	2000 03 05	704	0.4+	0.0
1999 11 08	703	0.1+	0.9+	2000 02 02	704	0.0	0.0	2000 03 05	704	0.0	0.4-
1999 11 08	703	0.0	0.5-	2000 02 02	704	0.0	0.0	2000 03 05	704	0.2+	0.7+
1999 12 06	704	0.4+	0.3+	2000 02 02	704	0.1-	0.2+	2000 03 05	704	1.3-	0.1+
1999 12 06	704	1.3+	0.2-	2000 02 02	704	0.0	0.6+				

(14262)* 2000 AC₁₂₅ = 1991 SD₅ = 1997 GM₁₉

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38676)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	113.35248	(2000.0)	P		Q	
<i>n</i>	0.27249046	ω	181.98927	+0.98535720	-0.16992870	
<i>a</i>	2.3563250	Ω	187.83616	+0.15781488	+0.93999793	
<i>e</i>	0.1406714	<i>i</i>	5.88505	+0.06454185	+0.29585154	
<i>P</i>	3.62	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1991 09 17	675	0.5-	0.1+	1998 08 23	704	(0.7+	4.9+)	2000 01 07	704	0.8-	0.7-
1991 09 17	675	0.4+	0.1-	1998 08 23	704	(2.9-	2.7+)	2000 02 02	704	0.5+	0.3+
1997 03 31	704	1.5-	0.5-	1998 08 28	699	0.0	0.4-	2000 02 02	704	0.4+	0.2+
1997 03 31	704	0.5+	0.2+	1998 08 28	699	0.1-	0.0	2000 02 02	704	0.2+	0.2+
1997 03 31	704	(4.1-	1.5+)	1998 08 28	699	0.2+	0.1-	2000 02 02	704	0.4+	0.3-
1997 03 31	704	0.3+	0.4+	1998 09 17	910	0.7+	0.9+	2000 02 02	704	0.0	0.0
1997 04 03	704	0.7+	0.5-	1998 09 17	910	0.9+	1.2+	2000 02 04	704	0.1-	0.7+
1997 04 03	704	0.1-	0.8+	1998 09 17	910	0.2-	0.8+	2000 02 04	704	0.1+	0.4+
1997 04 03	704	0.0	0.6-	1999 10 20	704	1.0+	0.7+	2000 02 04	704	1.0+	0.9+
1997 04 03	704	1.7+	1.8+	1999 10 20	704	0.2+	0.3-	2000 02 04	704	0.1-	0.5+
1997 04 05	704	0.8-	0.1-	1999 10 20	704	0.5+	1.0-	2000 02 27	703	1.2-	0.7+
1997 04 05	704	0.6-	0.8+	1999 12 05	704	0.3-	1.2+	2000 02 27	703	0.1-	0.3+
1997 04 06	704	0.2-	0.0	1999 12 05	704	0.6+	0.6+	2000 02 27	703	0.0	0.5+
1997 04 06	704	0.9+	0.2-	1999 12 05	704	1.3+	1.1+	2000 02 27	703	0.6-	0.0

1997 04 07	704	0.5+	0.2-	1999 12 05	704	0.1+	0.1-	2000 03 05	704	0.0	0.0
1997 04 07	704	0.4-	0.3-	2000 01 05	704	0.3-	1.1-	2000 03 05	704	0.0	0.1+
1998 08 17	704	0.2-	0.4-	2000 01 05	704	0.6+	0.5+	2000 03 05	704	0.6+	0.3+
1998 08 17	704	0.9-	0.1+	2000 01 05	704	0.4+	0.3+	2000 03 05	704	0.1-	0.1+
1998 08 17	704	0.7-	0.2+	2000 01 05	704	0.7-	0.3-	2000 03 05	704	0.3+	0.6+
1998 08 17	704	0.8-	0.0	2000 01 05	704	0.4+	0.5+	2000 03 09	608	0.5-	0.8-
1998 08 17	704	0.9-	0.4+	2000 01 07	704	0.8-	0.4+	2000 03 09	608	0.6-	0.9-
1998 08 23	704	0.1-	0.7+	2000 01 07	704	0.6-	0.2-	2000 03 09	608	0.3-	0.1-
1998 08 23	704	0.2+	0.5+	2000 01 07	704	0.4-	0.6-				
1998 08 23	704	1.2+	0.3+	2000 01 07	704	0.1+	0.5-				

(14263)* 2000 AA₁₂₇ = 1988 VT₅ = 1990 DS₅ = 1998 VY₂₀

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38679)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	129.13425	(2000.0)		P		Q	
<i>n</i>	0.19652352	ω	162.66598	+0.99997160		+0.00229602	
<i>a</i>	2.9299465	Ω	197.20723	-0.00482899		+0.92644669	
<i>e</i>	0.1117559	<i>i</i>	1.39034	+0.00578570		+0.37641900	
<i>P</i>	5.02	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1988 11 04	046	(0.1-	6.4-)	1998 11 24	699	0.8+	0.3+	2000 01 30	703	0.0	0.6+
1988 11 04	046	(1.2-	3.9-)	1998 11 25	691	0.0	0.2-	2000 01 30	703	0.5+	0.7+
1988 11 05	046	(2.2+	6.8-)	1998 11 25	691	0.0	0.2-	2000 01 31	704	0.1-	0.1+
1988 11 05	046	(1.2+	4.0-)	1998 11 25	691	0.0	0.3-	2000 01 31	704	0.0	0.4+
1988 11 12	046	0.3+	1.8-	1999 01 06	699	0.2-	0.5+	2000 01 31	704	0.3+	0.1+
1988 11 12	046	0.7+	1.9-	1999 01 06	699	0.2-	0.6-	2000 01 31	704	0.2+	0.0
1990 02 23	033	0.1-	0.0	1999 01 06	699	0.3-	0.4+	2000 02 02	704	0.0	0.0
1990 02 23	033	0.1+	0.2+	1999 01 11	704	0.4+	1.4-	2000 02 02	704	0.1-	0.3+
1996 03 19	566	(2.9+	3.9-)	1999 01 11	704	1.8+	1.3+	2000 02 02	704	0.1-	0.1+
1996 03 19	566	(2.3+	4.2-)	1999 01 11	704	(2.1+	0.1-)	2000 02 02	704	0.2-	0.3+
1996 03 19	566	(2.8+	3.6-)	1999 01 11	704	(2.6+	0.5+)	2000 02 02	704	0.3-	0.3-
1997 07 11	292	0.1+	0.6-	1999 01 11	704	(2.4+	1.2+)	2000 02 03	704	0.2+	0.3+
1997 07 11	292	(2.6-	2.5+)	2000 01 05	704	0.0	0.6-	2000 02 03	704	0.1+	0.2+
1997 07 11	292	(2.3-	0.2+)	2000 01 05	704	0.5-	0.3-	2000 02 03	704	0.3+	0.0
1998 09 29	910	0.7+	0.0	2000 01 05	704	0.1+	0.8-	2000 02 03	704	0.1+	0.3+
1998 09 29	910	0.7+	0.1-	2000 01 05	704	0.1-	0.9-	2000 02 03	704	0.0	0.2+
1998 09 29	910	0.8+	0.1-	2000 01 05	704	0.3-	1.1-	2000 02 07	691	0.3-	0.2-
1998 10 18	699	0.1-	0.9+	2000 01 07	704	0.4+	0.6-	2000 02 07	691	0.6-	0.4-
1998 10 18	699	0.0	0.9+	2000 01 07	704	0.1+	0.5-	2000 02 07	691	0.8-	0.2-
1998 10 18	699	(3.4-	1.0+)	2000 01 07	704	0.3+	0.7-	2000 02 13	106	0.4+	0.2+
1998 11 10	704	0.1-	0.8+	2000 01 07	704	0.1+	0.9-	2000 02 13	106	0.1-	0.3+
1998 11 10	704	0.4+	0.3-	2000 01 07	704	0.0	0.6-	2000 02 13	106	0.2-	0.1-
1998 11 10	704	0.4-	0.2+	2000 01 09	704	0.1-	0.6-	2000 02 26	703	0.2+	0.2+
1998 11 10	704	1.2-	0.6+	2000 01 09	704	0.2+	1.2-	2000 02 26	703	0.1+	0.2+
1998 11 11	704	0.6-	0.3+	2000 01 09	704	0.5+	0.1-	2000 02 26	703	0.4-	0.5+
1998 11 11	704	0.5-	0.3-	2000 01 12	120	1.0-	0.3-	2000 02 26	703	0.4-	0.8+
1998 11 11	704	0.6-	0.2-	2000 01 12	120	0.3+	0.2-	2000 03 05	704	0.1+	0.3-
1998 11 11	704	0.8-	0.1+	2000 01 12	120	0.6+	0.3+	2000 03 05	704	0.1-	0.7+
1998 11 11	704	1.5-	0.5+	2000 01 12	120	0.7+	0.4+	2000 03 05	704	0.4-	1.0+
1998 11 24	699	0.1+	0.9+	2000 01 30	703	0.4+	0.6+	2000 03 05	704	0.0	0.3+
1998 11 24	699	0.3+	0.3+	2000 01 30	703	0.1+	0.6+	2000 03 05	704	0.8-	0.3+

(14264)* 2000 AH₁₄₂ = 1975 TM₃ = 1997 UE₄

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38689)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	78.01255	(2000.0)		P		Q	
<i>n</i>	0.17400281	ω	245.72815	+0.49645532		-0.86792501	
<i>a</i>	3.1775950	Ω	174.43170	+0.84292644		+0.47775516	
<i>e</i>	0.0642464	<i>i</i>	9.15412	+0.20738161		+0.13585357	
<i>P</i>	5.66	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1975 10 03	095	0.1+	0.5-	1998 11 16	566	0.8-	1.0-	2000 02 02	704	0.2+	0.1+
1997 09 29	327	0.1-	0.3+	2000 01 05	704	0.4-	0.1-	2000 02 05	704	0.3+	0.0
1997 09 29	327	0.2+	0.3-	2000 01 05	704	0.3-	0.6-	2000 02 05	704	0.2+	0.2-
1997 09 29	327	0.5+	0.3+	2000 01 05	704	0.1-	0.2+	2000 02 05	704	0.6+	0.1-
1997 10 09	327	0.6+	0.7+	2000 01 05	704	0.2+	1.0+	2000 02 06	704	(1.1+	2.3-)
1997 10 09	327	0.2+	0.0	2000 01 08	704	0.1-	0.4-	2000 02 06	704	1.4+	0.5-
1997 10 09	327	0.2-	0.1+	2000 01 08	704	0.6-	0.2+	2000 02 06	704	0.2+	0.3+
1997 10 17	327	0.2-	0.2-	2000 01 08	704	0.8-	0.3-	2000 02 06	704	0.4+	0.5+
1997 10 17	327	0.0	0.3+	2000 01 08	704	0.1+	0.4+	2000 02 06	704	0.3+	0.9+
1997 10 17	327	0.8-	0.5+	2000 01 08	704	0.6-	0.2-	2000 02 13	106	0.6+	0.2+
1997 10 17	327	0.0	0.2-	2000 01 08	704	0.7-	0.1+	2000 02 13	106	0.4+	0.4-
1997 10 19	327	0.1+	0.5+	2000 01 08	704	0.3-	0.3-	2000 02 13	106	0.1+	0.2-
1997 10 19	327	0.4-	0.4+	2000 01 08	704	1.3-	0.6+	2000 02 27	703	0.0	0.3+
1997 10 19	327	0.3-	0.1-	2000 01 08	704	(0.5-	2.2-)	2000 02 27	703	0.1-	0.7+
1998 11 13	704	0.4-	0.9+	2000 01 08	704	1.1-	0.1+	2000 02 27	703	1.0-	0.3+
1998 11 13	704	1.3+	0.9-	2000 01 10	704	1.3+	0.7-	2000 02 27	703	(0.9-	2.9+)
1998 11 13	704	0.4-	1.4+	2000 01 10	704	0.7+	0.6-	2000 03 06	704	0.0	0.0
1998 11 13	704	1.7+	0.0	2000 01 10	704	0.6-	0.1+	2000 03 06	704	0.2-	0.3-
1998 11 13	704	0.6-	0.1+	2000 01 10	704	0.5-	0.4-	2000 03 06	704	0.2-	0.3+
1998 11 16	699	0.1+	0.9+	2000 01 10	704	0.2-	0.6+	2000 03 06	704	0.1-	0.5-
1998 11 16	699	0.0	0.2-	2000 02 02	704	0.4+	0.1+	2000 03 06	704	0.0	0.8+
1998 11 16	699	0.9+	0.9+	2000 02 02	704	0.0	0.2+	2000 03 11	608	0.9+	0.5-
1998 11 16	566	0.8-	1.2-	2000 02 02	704	0.1-	0.1+	2000 03 11	608	0.3+	0.1+
1998 11 16	566	1.0-	1.0-	2000 02 02	704	0.2+	0.1+	2000 03 11	608	0.5+	0.2-

(14265)* 2000 AV₁₄₂ = 1979 HM = 1998 YE₁₈

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38689)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	325.15189	(2000.0)		P		Q	
<i>n</i>	0.18212784	ω	342.36241	-0.98394640		+0.17387105	
<i>a</i>	3.0823727	Ω	207.74712	-0.15155205		-0.93309817	
<i>e</i>	0.0892535	<i>i</i>	4.95694	-0.09424147		-0.31479622	
<i>P</i>	5.41	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1979 04 19	807	0.9-	0.6+	1998 12 28	691	0.3-	0.7-	2000 02 02	704	0.0	0.4+
1979 04 26	807	0.7+	0.8-	1998 12 28	691	0.3-	0.5-	2000 02 02	704	0.0	0.2+
1979 04 26	807	0.1+	0.0	1999 12 05	703	0.2-	1.5+	2000 02 02	704	0.0	0.3+
1997 12 01	621	0.3-	0.9+	1999 12 05	703	0.3-	0.2+	2000 02 02	704	0.2+	0.3+
1997 12 01	621	0.5-	1.0+	1999 12 05	704	(2.5-	0.6+)	2000 02 02	704	0.1+	0.6+
1997 12 01	621	0.2-	0.8+	1999 12 05	703	0.5-	0.4+	2000 02 06	704	0.3-	0.2+
1998 11 23	699	0.2+	0.1+	1999 12 05	704	0.3-	0.3-	2000 02 06	704	0.3+	0.2+
1998 11 23	699	0.1+	0.1-	1999 12 05	703	0.0	0.8+	2000 02 06	704	0.6-	0.0
1998 11 23	699	0.3+	1.0-	1999 12 05	704	0.5+	0.5+	2000 02 06	704	0.2-	0.6-
1998 11 24	704	0.2+	0.4+	1999 12 05	704	0.3+	0.1-	2000 02 06	704	0.1-	0.6-
1998 11 24	704	0.0	0.6-	1999 12 05	704	0.0	0.6+	2000 02 13	106	0.5-	0.2-
1998 11 24	704	0.0	0.9+	1999 12 16	699	0.3+	1.3+	2000 02 13	106	0.8+	0.1-
1998 11 24	704	0.0	0.7-	1999 12 16	699	0.7+	0.2+	2000 02 13	106	0.1+	0.3+
1998 11 24	704	1.1+	0.5+	1999 12 16	699	0.1-	1.0+	2000 02 28	888	0.0	0.2-
1998 12 08	699	0.1-	0.5-	2000 01 05	704	1.3+	0.2+	2000 02 28	888	0.2-	0.0

1998 12 25 691 0.2- 0.6- 2000 01 08 704 0.0 0.3-
 1998 12 28 691 0.4- 0.5- 2000 01 08 704 1.1- 0.3+

(14266)* 2000 AG₁₄₃ = 1985 RN₁ = 1993 UF₃ = 1998 XC₇₀

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38690)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	254.83806	(2000.0)	P	Q	
<i>n</i>	0.24212742	ω	342.72310	+0.11538165	+0.98447532
<i>a</i>	2.5494122	Ω	293.73800	-0.89343348	+0.04465830
<i>e</i>	0.1878548	<i>i</i>	8.30804	-0.43412405	+0.16974679
<i>P</i>	4.07	<i>H</i>	13.3	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1985 09 09	046	1.1-	0.2+	1999 12 05	704	0.7-	0.3-	2000 02 02	704	0.3-	0.5+
1985 09 09	046	0.5-	0.1+	1999 12 05	703	0.0	0.0	2000 02 02	704	0.2-	0.1+
1985 09 10	046	0.6-	2.0+	1999 12 05	704	0.1-	0.3-	2000 02 02	704	0.6-	0.4+
1985 09 10	046	0.4+	0.3+	1999 12 05	703	1.3+	1.3-	2000 02 02	704	0.4-	0.4+
1993 10 20	675	1.6+	1.4-	1999 12 05	703	1.0+	0.5-	2000 02 06	704	0.1-	0.4+
1993 10 20	675	(2.0+	0.7+)	1999 12 05	704	0.2-	0.3-	2000 02 06	704	0.1+	0.0
1993 10 21	675	1.8+	1.9-	1999 12 05	703	0.4+	0.9-	2000 02 06	704	0.2+	0.2-
1997 08 31	910	0.2-	0.0	2000 01 05	704	0.5+	0.6+	2000 02 06	704	0.1+	0.2-
1997 08 31	910	0.3-	0.1+	2000 01 05	704	0.1-	0.3-	2000 02 06	704	0.4+	0.5+
1997 08 31	910	0.2-	0.0	2000 01 05	704	0.7-	0.2+	2000 03 06	704	0.1-	0.1+
1998 12 14	704	(1.9-	3.0+)	2000 01 05	704	0.3+	1.1-	2000 03 06	704	0.3-	0.2+
1998 12 14	704	0.4+	0.2+	2000 01 05	704	0.9-	0.2+	2000 03 06	704	0.2+	0.1-
1998 12 14	704	0.6+	1.6+	2000 01 06	699	0.2+	0.4+	2000 03 06	704	0.4+	1.1+
1998 12 17	704	0.4-	0.4+	2000 01 06	699	0.2+	0.5+	2000 03 13	704	0.2-	0.0
1998 12 17	704	0.1+	0.1-	2000 01 06	699	0.4+	0.5-	2000 03 13	704	0.3-	0.0
1998 12 17	704	1.3-	1.0-	2000 01 08	704	0.2+	0.2-	2000 03 13	704	0.3+	0.4+
1998 12 17	704	0.1-	0.6-	2000 01 08	704	0.3+	0.1-	2000 03 13	704	0.1-	0.1-
1998 12 17	704	0.4+	0.0	2000 01 08	704	0.2+	1.5-	2000 03 13	704	0.4-	0.0
1999 12 05	704	0.2-	0.2+	2000 01 08	704	0.2-	0.0				
1999 12 05	704	0.2-	0.2+	2000 01 08	704	(2.6-	1.3-)				

(14267)* 2000 AJ₁₅₃ = 1977 TZ₃ = 1991 NL₈ = 1997 EJ₅₁

Discovered 2000 Jan. 6 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 38693)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	101.28465	(2000.0)	P	Q	
<i>n</i>	0.27562659	ω	11.22908	+0.97374220	-0.22764297
<i>a</i>	2.3384171	Ω	1.93338	+0.20351099	+0.86612065
<i>e</i>	0.2449826	<i>i</i>	3.72622	+0.10202648	+0.44498730
<i>P</i>	3.58	<i>H</i>	14.3	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1977 10 10	095	2.1-	0.4+	2000 01 07	595	0.3+	1.7+	2000 01 30	704	0.4+	1.3+
1977 10 13	330	1.7+	0.7+	2000 01 07	595	0.5+	1.2+	2000 01 30	704	0.1-	0.8+
1991 07 14	675	0.3+	0.9+	2000 01 07	651	0.3+	0.1-	2000 01 30	704	0.0	0.7+
1991 07 14	675	0.7-	0.1-	2000 01 07	651	0.2+	0.1-	2000 02 03	704	1.0+	0.3+
1997 03 05	809	1.2+	0.3-	2000 01 07	651	0.0	0.3-	2000 02 03	704	0.4+	0.1-
1997 03 05	809	0.0	0.3-	2000 01 07	046	0.1-	0.4+	2000 02 03	704	0.7+	0.4-
1997 03 05	809	0.1+	1.0-	2000 01 07	046	0.2-	0.2-	2000 02 03	704	1.2+	0.3-
1997 03 06	809	0.2-	0.3+	2000 01 07	046	0.3-	0.0	2000 02 03	704	1.1+	0.7-
1997 03 06	809	0.2-	0.0	2000 01 07	046	0.3-	0.0	2000 02 05	704	0.2-	0.1+
1997 03 06	809	0.9-	1.2+	2000 01 07	046	0.2+	0.5+	2000 02 05	704	0.2-	0.3+
1998 05 29	704	0.2-	0.1+	2000 01 07	046	0.1+	0.5+	2000 02 05	704	0.3-	0.2+
1998 05 29	704	0.8-	0.2+	2000 01 08	711	0.1+	0.8-	2000 02 08	704	0.1+	0.1-
1998 05 29	704	0.8+	0.1-	2000 01 08	711	0.0	0.5+	2000 02 08	704	0.4-	0.1+
1998 05 29	704	(4.6-	2.0-)	2000 01 08	711	0.4-	0.7+	2000 02 08	704	0.2+	0.1+
1998 06 26	704	1.1+	0.7+	2000 01 08	422	0.3+	0.3+	2000 02 08	704	0.2+	0.4+
1998 06 26	704	0.0	1.4+	2000 01 08	422	0.9-	0.4+	2000 02 08	704	0.3+	0.7+
1998 06 26	704	1.1-	0.6-	2000 01 08	422	0.4-	0.9+	2000 02 10	704	0.4-	0.4+

1998 06 26	704	(0.9+	2.3+)	2000 01 09	046	0.3-	0.1-	2000 02 10	704	0.1-	0.5+
1999 11 16	704	0.1+	0.8-	2000 01 09	046	0.3-	0.3-	2000 02 10	704	0.1-	0.1-
1999 11 16	704	0.2-	0.8-	2000 01 09	046	0.3-	0.0	2000 02 10	704	0.5+	0.3+
1999 11 16	704	1.4+	1.0-	2000 01 09	046	0.1-	0.3-	2000 02 10	704	(1.0-	2.7+)
1999 11 16	704	0.1+	1.5-	2000 01 09	711	0.2-	0.1+	2000 02 11	704	0.4+	0.0
2000 01 04	704	0.4-	0.4-	2000 01 09	711	0.1+	0.8-	2000 02 11	704	0.1+	0.0
2000 01 04	704	0.0	0.2-	2000 01 09	711	0.2+	0.8-	2000 02 11	704	0.2+	0.0
2000 01 04	704	0.2-	0.4-	2000 01 10	711	0.1+	0.0	2000 02 11	704	0.0	0.3-
2000 01 04	704	0.4-	0.5-	2000 01 10	711	0.1+	0.0	2000 02 11	704	0.4+	0.1+
2000 01 04	704	0.6-	0.3-	2000 01 10	711	0.2-	0.3-	2000 02 11	704	0.1+	0.4-
2000 01 06	704	0.3+	0.0	2000 01 11	711	0.3-	0.2-	2000 02 11	704	0.2+	0.4+
2000 01 06	704	0.2+	0.1+	2000 01 11	711	0.4-	0.4+	2000 02 11	704	0.1-	0.1-
2000 01 06	704	0.5+	0.4+	2000 01 11	711	0.2-	0.3-	2000 02 11	704	0.4+	0.3+
2000 01 06	704	0.1+	0.2-	2000 01 12	557	0.7-	0.0	2000 02 11	704	0.2-	0.4-
2000 01 06	699	0.5+	0.2+	2000 01 12	557	0.5-	0.4-	2000 02 26	703	0.5-	0.4+
2000 01 06	704	0.2+	0.1-	2000 01 12	557	0.3-	0.1-	2000 02 26	703	0.1+	0.2-
2000 01 06	699	0.1+	0.2-	2000 01 12	557	0.5-	0.0	2000 02 26	703	0.8-	1.4-
2000 01 06	699	0.1-	0.6+	2000 01 12	046	0.9-	0.2-	2000 02 26	703	0.3+	0.8-
2000 01 07	046	0.2+	0.7+	2000 01 12	046	0.0	0.4-	2000 03 04	704	0.5-	0.6-
2000 01 07	046	0.3+	1.1+	2000 01 12	046	0.1-	0.9-	2000 03 04	704	0.6-	0.4+
2000 01 07	046	0.2+	0.9+	2000 01 12	046	0.4+	0.5-	2000 03 04	704	0.5-	0.7-
2000 01 07	046	0.1+	0.5+	2000 01 12	046	0.1+	0.8-	2000 03 04	704	0.1-	0.2+
2000 01 07	595	0.2+	1.9+	2000 01 30	704	0.0	0.6+	2000 03 04	704	0.2+	0.5+

(14268)* 2000 AK₁₅₆ = 1986 VS₇ = 1989 EB₃

Discovered 2000 Jan. 3 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38694)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	41.92312	(2000.0)	P	Q	
<i>n</i>	0.08085056	ω	124.88062	+0.62148549	-0.74272134
<i>a</i>	5.2968057	Ω	284.70724	+0.60803286	+0.65790171
<i>e</i>	0.0909827	<i>i</i>	14.93264	+0.49401602	+0.12462083
<i>P</i>	12.19	<i>H</i>	10.4	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1986 11 09	675	(3.9-	0.0)	1998 12 24	699	1.0+	0.4+	2000 01 03	704	0.6-	1.5-
1986 11 09	675	1.0+	2.1+	1998 12 24	699	0.7+	0.4+	2000 01 04	704	0.1+	0.2+
1986 11 27	675	1.9-	0.2-	1998 12 24	699	0.1+	0.5+	2000 01 04	704	0.4+	0.1+
1986 11 27	675	1.0+	1.5+	1999 01 06	699	1.3+	1.4-	2000 01 04	704	0.6+	0.3+
1989 03 02	809	0.1-	0.4+	1999 01 06	699	1.3+	0.6+	2000 01 04	704	1.0+	0.8+
1989 03 02	809	0.3-	0.3+	1999 01 06	699	0.7+	0.5-	2000 01 04	704	1.3-	0.1+
1989 03 02	809	1.1-	0.2+	1999 11 14	704	0.8+	0.4-	2000 01 04	704	0.2-	0.7+
1989 03 03	809	0.7+	0.4-	1999 11 14	704	1.0+	0.1-	2000 01 04	704	0.4-	0.5-
1989 03 03	809	0.2-	1.2-	1999 11 14	704	0.3+	0.6-	2000 01 04	704	0.8+	0.3+
1989 03 03	809	0.3-	1.4-	1999 11 14	704	0.5-	0.7-	2000 01 24	849	0.9-	0.6+
1998 11 14	704	0.1+	1.2-	1999 11 16	704	1.2+	0.4-	2000 01 24	849	0.2-	0.4+
1998 11 14	704	0.1-	1.0-	1999 11 16	704	0.6+	0.8-	2000 01 24	849	0.7-	0.7+
1998 11 14	704	0.3-	0.6-	1999 11 16	704	0.6+	0.6-	2000 01 24	849	0.2+	0.8+
1998 11 14	704	0.1+	0.7-	1999 11 16	704	(1.0+	2.2-)	2000 01 30	704	0.3+	0.4+
1998 11 14	704	0.8-	1.8+	1999 11 16	704	0.1-	0.5-	2000 01 30	704	0.1+	0.1-
1998 11 16	704	0.2-	0.4-	1999 12 15	704	0.2+	0.6+	2000 01 30	704	0.0	0.4+
1998 11 16	704	0.7-	0.2-	1999 12 15	704	0.2-	0.6+	2000 01 30	704	0.4+	0.1-
1998 11 16	704	0.6-	0.7-	1999 12 15	704	0.7-	0.2+	2000 01 30	704	0.2-	0.1+
1998 11 16	704	1.5-	1.1+	1999 12 15</							

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	144.52142		(2000.0)		P		Q				
<i>n</i>	0.21115600	ω	166.38166	+0.87880319	+0.47523004						
<i>a</i>	2.7929753	Ω	165.01436	−0.45194871	+0.85793194						
<i>e</i>	0.1596701	<i>i</i>	9.60470	−0.15312517	+0.19521575						
<i>P</i>	4.67	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1				
Residuals in seconds of arc											
1993 09 12	675	1.3−	0.4+	1998 09 27	704	0.5+	0.4−	1999 12 14	704	0.2+	1.7+
1993 09 12	675	1.0+	0.5+	1998 09 27	704	0.3+	0.0	1999 12 14	704	(0.5+ 2.9+)	
1993 09 15	675	0.6+	0.2−	1998 09 27	704	0.7+	0.1+	1999 12 14	704	1.7+	1.2+
1993 09 15	675	0.2−	0.0	1998 09 27	704	0.8+	0.1+	2000 01 07	704	0.3−	0.5−
1996 02 15	566	0.9+	1.0−	1998 10 17	699	0.1−	1.0+	2000 01 07	704	0.2−	0.0
1996 02 15	566	0.1+	0.9−	1998 10 17	699	0.3−	1.1+	2000 01 07	704	0.2−	0.2−
1996 02 15	566	0.7+	0.8−	1998 10 17	699	0.2−	0.7+	2000 01 07	704	0.8+	0.2−
1996 03 17	566	0.8−	0.2+	1998 11 13	704	0.6+	1.1+	2000 01 07	704	0.3−	0.4−
1996 03 17	566	1.1−	0.2−	1998 11 13	704	(0.5+ 2.4−)		2000 01 11	704	1.5+	0.9−
1996 03 17	566	0.9−	0.4−	1998 11 13	704	(0.1+ 2.3−)		2000 01 11	704	0.2+	0.9−
1997 06 29	691	0.4+	0.2+	1998 11 13	704	(0.1− 2.5−)		2000 01 11	704	0.6−	0.9+
1997 06 29	691	0.1+	0.1+	1998 11 13	704	(3.1− 0.8−)		2000 02 02	704	0.1−	0.6+
1997 06 29	691	0.2+	0.2+	1998 12 14	699	0.9−	1.2−	2000 02 02	704	0.3−	1.3−
1997 07 12	691	0.0	0.1+	1998 12 14	699	0.6−	0.3−	2000 02 02	704	1.0−	0.6+
1997 07 12	691	0.8−	0.2−	1998 12 14	699	0.2−	0.4−	2000 02 02	704	0.4−	0.2+
1997 07 12	691	0.0	0.2+	1999 01 11	704	1.1−	0.4−	2000 02 02	704	0.3−	0.3−
1998 09 22	699	0.2−	0.2+	1999 01 11	704	0.8−	0.7−	2000 02 04	704	0.0	0.1−
1998 09 22	699	0.2+	0.2−	1999 01 11	704	(3.3− 0.8−)		2000 02 04	704	0.1−	0.1+
1998 09 22	699	0.1+	0.2−	1999 01 11	704	1.3−	0.8−	2000 02 04	704	0.6+	0.8+
1998 09 26	704	0.3+	1.1−	1999 10 20	704	0.0	1.2+	2000 02 04	704	0.3+	0.2−
1998 09 26	704	0.2+	0.5−	1999 10 20	704	0.5−	0.0	2000 03 05	704	0.5+	0.5−
1998 09 26	704	0.6−	0.4−	1999 10 20	704	0.8+	0.2−	2000 03 05	704	0.7−	0.6−
1998 09 26	704	0.0	0.4−	1999 10 20	704	0.4+	0.2+	2000 03 05	704	0.3+	1.2+
1998 09 26	704	0.2+	0.0	1999 10 20	704	0.2+	0.2−	2000 03 05	704	0.3+	0.5+
1998 09 27	704	0.9+	0.8−	1999 12 14	704	0.7−	1.0+	2000 03 05	704	0.4−	0.4+

(14270)* 2000 AB₁₈₉ = 1985 QG₁ = 1988 FU₃ = 1994 RS₆ = 1997 GE₄₀

Discovered 2000 Jan. 8 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38702)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	50.27190		(2000.0)		P		Q	
n	0.22672057	ω	214.35797		+0.76920754		-0.63862940	
a	2.6636394	Ω	185.48573		+0.62536436		+0.75934700	
e	0.0058130	i	13.13948		+0.13129807		+0.12467812	
P	4.35	H	13.9		G	0.15	U	1
Residuals in seconds of arc								
1985 08 16	675(57.2-	1.5+)	1998 08 24	704	0.7+	0.7-	1999 12 16	699 0.1+ 0.2+
1985 08 16	675(57.1-	1.5+)	1998 08 24	704	0.3-	1.2-	1999 12 16	699 0.3- 0.6+
1985 08 17	675 0.3-	0.8-	1998 08 24	704	0.1+	0.8-	1999 12 16	699 0.2- 0.2-
1985 08 17	675 0.2-	0.6+	1998 08 27	704	1.0-	0.0	2000 01 07	699 0.1+ 0.9-
1988 03 26	809 0.6-	1.0-	1998 08 27	704	0.3-	0.1-	2000 01 07	699 0.2- 0.3-
1988 03 26	809 1.0-	0.2-	1998 08 27	704	1.0-	0.7+	2000 01 07	699 0.3+ 0.5-
1994 09 12	691 0.7+	0.4+	1998 08 27	704	0.1-	1.0+	2000 01 08	704 0.8+ 1.2+
1994 09 12	691 0.9+	0.1+	1998 08 27	704	1.5-	0.0	2000 01 08	704 0.1+ 1.1+
1994 09 12	691 0.6+	0.3+	1999 11 05	704	0.5-	0.6-	2000 01 08	704 0.3- 0.8-
1994 09 14	691 0.3+	0.4+	1999 11 05	704	0.4-	0.5+	2000 01 11	704 0.4+ 0.4+
1994 09 14	691 0.6+	0.4+	1999 11 05	704	0.0	0.2-	2000 01 11	704 0.2+ 0.7+
1994 09 14	691 0.8+	0.3+	1999 11 05	704	0.4+	0.4-	2000 01 11	704 0.1+ 0.7+
1997 04 07	809 0.4+	1.6+	1999 11 05	704	0.3-	0.6+	2000 01 11	704 1.1- 1.3-
1997 04 07	809 0.8+	1.6+	1999 11 14	699	1.0-	0.5+	2000 01 11	704 0.9- 0.1+
1997 04 07	809 1.2+	1.7+	1999 11 14	699	0.9-	0.1-	2000 02 06	704 0.9+ 0.9-
1997 04 08	809 0.1+	0.4-	1999 11 14	699	0.4+	0.8+	2000 02 06	704 0.7+ 0.6+
1997 04 08	809 0.7+	1.3-	1999 12 03	704	(4.2+ 1.2-)		2000 02 06	704 0.9+ 1.1-
1997 04 08	809 0.4-	0.2-	1999 12 03	704	1.1+	0.0	2000 02 06	704 0.2+ 0.4-
1998 08 24	704 (1.2+ 5.1-)		1999 12 03	704	1.0-	0.2+		

(14271)* 2000 AN₂₃₃ = 1987 QX₂ = 1990 FG₃ = 1998 XV₇₄

Discovered 2000 Jan. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38711)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	118.93071		(2000.0)		P		Q				
<i>n</i>	0.19647957	ω	273.28074		+0.78597510		-0.61683781				
<i>a</i>	2.9303834	Ω	124.80929		+0.58557116		+0.72097500				
<i>e</i>	0.1215634	<i>i</i>	2.92405		+0.19836722		+0.31576282				
<i>P</i>	5.02	<i>H</i>	13.1		<i>G</i>	0.15	<i>U</i>	2			
Residuals in seconds of arc											
1987 08 22	809	0.5+	1.5-	1998 12 22	704	0.8+	0.1+	2000 02 26	703	0.0	0.1-
1987 08 22	809	0.4+	1.3-	1998 12 22	704	0.5+	0.4-	2000 02 26	703	0.1-	1.2-
1987 08 22	809	0.3+	1.2-	1999 01 11	704	(2.8+ 0.5-)		2000 02 26	703	0.1+	0.2-
1987 08 24	809	0.9+	0.2+	1999 01 11	704	(2.5+ 1.3+)		2000 03 02	703	0.6-	0.1-
1987 08 24	809	1.5+	1.3-	1999 01 11	704	0.3-	0.9+	2000 03 02	703	0.2-	0.0
1987 08 26	809	(3.0- 1.6-)		1999 01 11	704	0.8-	0.5+	2000 03 02	703	0.1-	0.1-
1987 08 26	809	(4.6- 1.3-)		1999 01 11	704	(3.8- 0.5-)		2000 03 02	703	0.1-	0.2-
1987 08 26	809	(4.1- 0.3+)		1999 12 09	703	0.5+	0.3+	2000 03 03	704	0.3-	0.1+
1987 08 28	809	1.5-	1.6+	1999 12 09	703	0.1+	0.1+	2000 03 03	704	0.7-	0.1-
1987 08 28	809	1.5-	1.4+	1999 12 09	703	0.8-	0.4+	2000 03 03	704	0.4-	0.2-
1987 08 28	809	0.5-	1.6+	1999 12 09	703	0.6+	0.2+	2000 03 03	704	0.1+	0.3-
1987 08 29	809	(3.8- 3.0+)		2000 01 04	704	1.0-	0.3+	2000 03 03	704	0.2-	0.5-
1987 08 29	809	(3.8- 3.4+)		2000 01 04	704	0.7-	0.1+	2000 03 11	699	0.2-	0.1+
1987 08 29	809	(2.9- 3.3+)		2000 01 04	704	0.3+	0.2+	2000 03 11	699	0.2-	0.0
1987 09 01	809	0.1+	0.6-	2000 01 06	699	0.6-	0.3+	2000 03 11	699	0.2-	0.2+
1987 09 01	809	0.2-	0.6+	2000 01 06	699	0.5+	1.3+	2000 03 11	699	0.7+	0.4+
1990 03 17	033	0.3-	0.8-	2000 01 06	699	0.4-	1.5+	2000 03 12	704	0.3-	0.2+
1998 11 03	327	0.1-	0.5-	2000 02 06	704	0.0	0.1-	2000 03 12	704	0.2-	0.0
1998 11 03	327	0.3+	0.1-	2000 02 06	704	0.2-	0.3-	2000 03 12	704	1.6+	0.2+
1998 11 03	327	0.2+	0.3-	2000 02 06	704	0.4-	0.5+	2000 03 12	704	0.9-	0.3+
1998 12 15	704	0.3-	0.8+	2000 02 06	704	0.2-	0.7+	2000 03 12	704	0.2-	0.3+
1998 12 15	704	0.0	0.2-	2000 02 06	704	0.1-	0.4+	2000 03 15	704	0.3+	1.7-
1998 12 15	704	0.4-	0.3+	2000 02 11	704	0.9+	0.1-	2000 03 15	704	1.4+	0.5-
1998 12 15	704	0.1-	0.9+	2000 02 11	704	0.8-	0.1+	2000 03 15	704	0.2-	0.2-
1998 12 15	704	1.0-	0.3+	2000 02 11	704	0.1-	0.6+	2000 03 15	704	0.5+	0.6+
1998 12 16	704	0.6+	0.5-	2000 02 11	704	0.2+	1.4+	2000 03 15	704	1.5+	1.6-
1998 12 16	704	0.6-	1.0-	2000 02 11	704	0.2+	0.3+	2000 03 15	704	0.2+	0.1-
1998 12 16	704	(0.6- 2.1+)		2000 02 16	703	0.3-	0.0	2000 03 15	704	0.2+	0.3-
1998 12 16	704	(0.3+ 2.3+)		2000 02 16	703	0.5-	0.3-	2000 03 15	704	0.5+	0.2-
1998 12 22	704	0.3+	0.2+	2000 02 16	703	0.0	0.5-	2000 03 15	704	0.6+	0.4-
1998 12 22	704	0.9+	1.5-	2000 02 16	703	0.4-	0.7-	2000 03 15	704	0.6+	0.7-
1998 12 22	704	0.1+	0.3-	2000 02 26	703	0.6-	0.7+				

(14272)* 2000 AZ₂₃₄ = 9554 P-L = 1982 DB₇ = 1995 FG₁₀

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38711)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

$\dot{M}$	147.16778		(2000.0)		P		Q				
n	0.15870170	ω	202.40470		+0.87365618		+0.48134561				
a	3.3786898	Ω	128.62679		-0.43149912		+0.83389510				
e	0.0326331	i	5.20934		-0.22479633		+0.27004697				
P	6.21	H	13.2		G	0.15	U	1			
Residuals in seconds of arc											
1960 10 17	675	0.1+	0.2+	1998 11 11	704	0.2+	1.9+	2000 01 05	704	0.3-	0.3+
1960 10 22	675	1.0-	1.3-	1998 11 11	704	0.7+	1.6+	2000 01 05	704	0.4-	0.3-
1960 10 24	675	0.6+	0.3-	1998 11 14	699	1.0+	0.1+	2000 01 05	704	0.3-	0.3-
1960 10 26	675	0.3+	0.1+	1998 11 14	699	0.2+	0.6+	2000 01 05	704	0.1-	0.3+
1982 02 20	033	0.1-	0.9+	1998 11 14	699	0.5+	0.4-	2000 01 07	691	0.1-	0.4-
1982 02 20	033	1.2+	0.3+	1998 11 15	120	0.5-	0.2-	2000 01 07	691	0.0	0.4-
1982 02 21	033	(4.6-	2.7+)	1998 11 15	120	1.4-	1.2-	2000 01 07	691	0.0	0.6-

2000 MAR. 20

M.P.C. 39129

1982 02 21	033	0.4+	0.8+	1999 12 03	049	0.8+	0.4-	2000 02 02	704	0.4+	0.4-
1995 03 26	691	0.3-	0.5-	1999 12 03	049	0.8+	0.3-	2000 02 02	704	0.8-	0.4+
1995 03 26	691	0.1-	0.5-	1999 12 03	049	0.3+	0.4+	2000 02 02	704	0.0	0.8+
1995 03 26	691	0.2-	0.9-	1999 12 07	704	0.8+	0.5+	2000 02 02	704	0.2-	0.1+
1995 04 07	691	0.3-	0.2-	1999 12 07	704	0.2-	0.3+	2000 02 03	704	0.6-	0.7+
1995 04 07	691	0.1-	0.3-	1999 12 07	704	0.6-	0.2-	2000 02 03	704	0.5+	0.0
1995 04 07	691	0.1-	0.2-	1999 12 07	704	0.0	0.4-	2000 02 03	704	0.8-	1.5-
1998 11 11	704	0.0	2.0-	2000 01 05	704	0.2-	0.1-				

(14273)* 2000 BY₁₄ = 1978 XJ = 1999 AL₉

Discovered 2000 Jan. 31 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 38720)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>	89.02815		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.24198674	ω	333.32837	+0.74414799		-0.64916730	
<i>a</i>	2.5504003	Ω	68.06404	+0.63921508		+0.62346663	
<i>e</i>	0.1622934	<i>i</i>	9.77961	+0.19403052		+0.43574210	
<i>P</i>	4.07	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1978 12 03	675	0.8+	0.0	1999 01 11	327	0.3-	0.4+	2000 03 04	704	2.1+	0.7-
1978 12 03	675	0.5-	0.7-	1999 11 16	703	(3.0-	0.1+)	2000 03 04	704	2.1+	0.4-
1978 12 05	675(15.6+	0.5-)		1999 11 16	703	0.5+	1.6+	2000 03 04	704	2.1+	0.3-
1978 12 06	675	1.0-	0.7-	1999 11 16	703	0.2-	1.6+	2000 03 04	704	(2.2+	0.0)
1978 12 06	675	1.2+	0.1+	1999 11 16	703	0.3-	0.2+	2000 03 11	703	0.1+	1.1-
1993 05 14	809	0.7+	1.4+	1999 12 15	704	0.6-	0.5+	2000 03 11	703	0.4+	0.3-
1993 05 14	809	0.0	0.6+	1999 12 15	704	0.2-	0.8+	2000 03 11	703	0.3+	0.5-
1993 05 14	809	0.0	0.4+	1999 12 15	704	0.5-	0.6+	2000 03 11	703	0.6-	0.7+
1998 12 08	704	0.3-	2.0+	1999 12 15	704	0.3+	0.3-	2000 03 12	703	0.8-	0.3+
1998 12 08	704	(0.1-	2.3+)	2000 01 31	411	0.7-	1.6+	2000 03 12	704	0.7-	0.1+
1998 12 08	704	(0.5-	3.4+)	2000 01 31	411	0.8+	0.4+	2000 03 12	703	(2.1-	2.3-)
1998 12 08	704	0.5-	1.0+	2000 02 01	411	0.2+	0.2+	2000 03 12	704	0.6-	0.3+
1999 01 10	327	0.4-	0.4+	2000 02 01	411	0.0	0.3+	2000 03 12	703	0.6-	0.3+
1999 01 10	327	0.6-	0.2+	2000 02 09	411	0.3+	0.8-	2000 03 12	704	0.6-	0.4+
1999 01 10	327	0.6-	0.1+	2000 02 09	411	0.5-	0.7-	2000 03 12	703	0.3-	0.3+
1999 01 11	327	0.1-	0.4-	2000 02 27	411	0.6+	0.7-	2000 03 12	704	0.9-	0.2-
1999 01 11	327	0.5+	0.5+	2000 02 27	411	0.1+	0.7-	2000 03 12	704	1.0-	0.1+

(14274)* 2000 BL₂₁ = 1977 AM₂ = 1997 PB₃

Discovered 2000 Jan. 29 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 38721)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	151.27768		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.17411110	ω	26.14096	+0.92573431		+0.31648517	
<i>a</i>	3.1762773	Ω	313.75739	-0.37728377		+0.73535090	
<i>e</i>	0.1375822	<i>i</i>	16.65501	-0.02594129		+0.59924635	
<i>P</i>	5.66	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 01 13	095	1.3-	2.5-	1999 11 16	704	0.1+	0.4+	2000 02 06	704	0.8+	0.2+
1997 08 05	608	0.6-	0.5+	1999 11 16	704	1.3-	0.3+	2000 02 06	704	0.5+	0.1+
1997 08 05	608	0.5-	0.1+	2000 01 04	704	1.7+	0.0	2000 02 06	704	0.3+	0.1+
1997 08 06	608	0.5-	1.3+	2000 01 04	704	0.4-	0.1-	2000 02 06	704	0.2+	0.6+
1997 08 06	608	1.1-	0.9+	2000 01 04	704	1.5-	1.0+	2000 02 06	704	1.0+	0.5+
1997 08 07	608	0.4-	1.2+	2000 01 04	704	1.2-	0.5-	2000 02 08	704	0.3+	0.3-
1997 08 07	608	0.7-	0.6+	2000 01 04	704	(2.8-	0.7-)	2000 02 08	704	0.6+	0.1+
1997 09 02	566	0.0	0.3+	2000 01 06	704	0.3-	0.6-	2000 02 08	704	0.3+	0.4+
1997 09 02	566	0.2-	0.4+	2000 01 06	704	0.1+	0.1-	2000 02 08	704	0.3+	0.7+
1997 09 02	566	0.0	0.2+	2000 01 06	704	0.3-	1.2-	2000 02 08	704	1.2+	1.0+
1998 11 14	704	0.5+	0.0	2000 01 06	704	0.3-	1.0-	2000 02 10	691	0.1-	0.4-
1998 11 14	704	0.2+	0.3+	2000 01 06	704	0.1-	1.2-	2000 02 10	691	0.2-	0.4-
1998 11 14	704	(0.6-	2.2-)	2000 01 16	691	0.2+	0.1-	2000 02 10	691	0.3-	0.4-
1998 11 14	704	1.7-	1.0-	2000 01 16	691	0.2+	0.1-	2000 02 11	704	0.4+	0.2+
1998 11 14	704	1.4-	0.4+	2000 01 16	691	0.3+	0.0	2000 02 11	704	0.5+	0.1+
1998 11 16	704	0.6+	0.3-	2000 01 29	691	0.2-	0.1-	2000 02 11	704	0.5+	0.1+

1998 11 16	704	(2.1-	3.3-)	2000 01 29	691	0.3-	0.1-	2000 02 11	704	0.7+	0.3+
1998 11 16	704	0.9-	0.4-	2000 01 29	691	0.3-	0.0	2000 02 11	704	0.3+	0.4+
1998 11 16	704	1.0+	0.7+	2000 01 30	704	0.0	0.5+	2000 02 11	704	0.4+	0.3+
1998 11 16	704	(4.0-	2.4-)	2000 01 30	704	0.3+	0.4+	2000 02 11	704	0.1+	0.2+
1998 12 12	704	0.3-	0.4+	2000 01 30	704	0.1-	0.2-	2000 02 11	704	0.4+	0.2+
1998 12 12	704	1.1+	1.2+	2000 01 30	704	0.9-	0.6+	2000 02 11	704	0.3+	0.8+
1998 12 12	704	1.2+	1.7-	2000 02 01	691	0.5+	0.0	2000 02 11	704	0.4+	0.6+
1998 12 12	704	0.3-	0.1+	2000 02 01	691	0.4+	0.0	2000 02 26	703	0.4+	0.6-
1998 12 12	704	0.4+	0.9+	2000 02 01	691	0.4+	0.1-	2000 02 26	703	0.5-	0.3+
1999 01 09	704	0.4+	0.7+	2000 02 03	704	0.1+	0.2+	2000 02 26	703	0.4-	0.8+
1999 01 09	704	1.7-	1.2+	2000 02 03	704	0.0	0.3+	2000 02 26	703	0.2+	0.3+
1999 01 09	704	(3.2-	1.8+)	2000 02 03	704	0.1+	0.2+	2000 03 05	704	0.4+	0.3-
1999 01 09	704	1.4+	1.0-	2000 02 03	704	0.1-	0.1-	2000 03 05	704	0.4+	0.5+
1999 01 09	704	0.8-	1.3-	2000 02 03	704	0.2-	0.3-	2000 03 05	704	0.0	0.7+
1999 11 16	704	0.6+	0.2+	2000 02 05	704	0.2-	0.1+	2000 03 05	704	0.1+	0.2+
1999 11 16	704	1.2-	0.7+	2000 02 05	704	0.2-	0.7+	2000 03 05	704	0.0	0.6+
1999 11 16	704	0.1+	0.7-	2000 02 05	704	0.5-	1.5+				

(14275)* 2000 BR₂₆ = 1976 JV₅ = 3179 T-3 = 1997 GH₄₄ = 1998 SW₁₁₈

Discovered 2000 Jan. 30 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38724, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	283.15777		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.28143998	ω	197.39722	-0.62751173		+0.77809695	
<i>a</i>	2.3061038	Ω	33.75173	-0.70819001		-0.55534452	
<i>e</i>	0.0950869	<i>i</i>	2.90740	-0.32356750		-0.29352615	
<i>P</i>	3.50	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 05 03	809	0.2-	0.4-	1997 05 07	704	0.2+	0.4-	2000 02 04	120	0.6+	0.1+
1977 10 07	675	1.8+	0.7-	1997 05 07	704	0.1+	0.4-	2000 02 05	120	0.7-	0.4-
1977 10 11	675	1.1-	0.4+	1997 05 07	704	0.2-	0.6+	2000 02 06	120	1.4-	1.0-
1977 10 11	675	1.2-	0.1-	1997 05 07	704	0.4-	0.2-	2000 02 11	704	0.9+	0.5+
1977 10 12	675	1.1+	1.3-	1997 05 07	704	0.1-	0.1+	2000 02 11	704	0.3-	0.0
1977 10 12	675	0.1-	0.8-	1998 09 26	704	0.6+	0.9+	2000 02 11	704	0.1-	0.0
1977 10 16	675	0.2+	0.9-	1998 09 26	704	0.2+	0.6+	2000 02 11	704	0.1-	0.3+
1977 10 16	675	0.9+	1.0-	1998 09 26	704	0.0	1.8+	2000 02 11	704	0.3+	0.0
1977 10 17	675	0.8+	0.8-	1998 09 26	704	0.3-	0.0	2000 02 26	703	0.3-	0.0
1977 10 17	675	2.3+	1.1-	1998 09 26	704	(2.8+	0.4-)	2000 02 26	703	0.5-	0.4+
1977 10 21	675	0.2-	0.4-	1998 09 27	704	1.2-	1.5+	2000 02 26	703	0.1-	0.2-
1977 10 21	675	1.0-	0.5-	1998 09 27	704	0.8-	0.5-	2000 02 26	703	0.5-	0.2-
1997 04 06	704	0.8+	0.5-	1998 09 27	704	0.7-	0.1+	2000 02 28	704	0.4+	0.1-
1997 04 06	704	0.1-	1.1-	2000 01 30	704	0.4-	0.3-	2000 02 28	704	0.0	0.5+
1997 04 06	704	0.6-	0.4-	2000 01 30	704	0.4+	0.8-	2000 02 28	704	0.2-	0.3+
1997 04 06	704	0.1-	0.4-	2000 01 30	704	0.8+	0.2-	2000 02 28	704	0.4+	0.6+
1997 04 06	704	0.5-	0.8-	2000 02 03	704	0.0	0.0	2000 02 28	704	0.2-	0.7+
1997 04 06	704	(0.3+	2.3-)	2000 02 03	704	0.2+	0.1+	2000 03 04	704	0.2-	0.2+
1997 04 06	704	0.8-	0.7+	2000 02 03	704	0.2-	0.3+	2000 03 04	704	0.2+	0.4-
1997 04 06	704	0.2-	0.7+	2000 02 03	704	0.4-	0.4-	2000 03 04	704	0.8+	0.6+
1997 04 11	704	1.0+	0.6-	2000 02 03	704	0.2-	0.2-	2000 03 04	704	0.2+	0.1+
1997 04 11	704	0.2-	0.2-	2000 02 04	120	0.1+	0.6-	2000 03 04	704	0.1+	0.1-

Residuals in seconds of arc

1978 09 28	095	0.3+	0.9+	1998 12 08	704	0.2+	0.3-	2000 02 11	411	0.7+	1.3-
1978 10 04	095	1.9-	1.0+	1998 12 08	704	1.0+	0.0	2000 02 24	411	0.3-	1.1-
1983 01 15	095	(0.1-	3.7+)	1998 12 08	704	0.1+	0.5+	2000 02 24	411	0.7+	0.6-
1983 01 22	688	0.9+	1.2+	1998 12 08	704	0.4-	0.2+	2000 02 24	411	0.8+	1.6-
1983 01 22	688	0.1+	1.1+	1999 11 09	699	0.9+	1.5-	2000 02 25	703	0.1+	0.5+
1988 09 16	095	0.6-	1.3+	1999 11 09	699	1.7+	1.1-	2000 02 25	703	0.1-	0.6+
1988 09 16	095	0.7+	0.9+	1999 11 09	699	0.4-	0.8+	2000 02 25	703	0.2+	0.5+
1997 04 03	704	0.5+	0.8+	2000 01 12	327	0.0	0.1-	2000 02 25	703	0.2-	0.2+
1997 04 03	704	0.6+	0.1-	2000 01 12	327	0.1-	0.4-	2000 02 29	704	0.2+	0.0
1997 04 05	704	0.2+	1.4+	2000 01 12	327	0.1-	0.3-	2000 02 29	704	0.0	0.6+
1997 04 05	704	0.1+	1.3+	2000 01 17	327	0.1-	0.2-	2000 02 29	704	0.6-	0.4+
1997 04 06	704	0.4+	1.2+	2000 01 17	327	0.1-	0.3-	2000 02 29	704	0.3-	0.3+
1997 04 06	704	0.4+	0.2+	2000 01 17	327	0.1-	0.3-	2000 02 29	704	0.2-	0.6+
1997 04 07	704	0.6+	0.3+	2000 02 02	411	0.7-	0.1+	2000 03 05	704	0.1+	0.1+
1997 04 07	704	0.1+	0.7+	2000 02 02	411	0.2+	0.6-	2000 03 05	704	0.1-	0.3+
1998 08 20	699	0.2-	0.1+	2000 02 03	704	0.6+	0.3+	2000 03 05	704	0.1+	0.3+
1998 08 20	699	0.6-	0.7+	2000 02 03	704	0.5+	0.4+	2000 03 05	704	0.4-	0.4+
1998 08 20	699	0.0	0.8+	2000 02 03	704	0.3+	0.3+	2000 03 05	704	0.4-	0.7+
1998 09 24	699	0.0	0.8+	2000 02 03	704	0.4+	0.1+	2000 03 11	699	0.1-	0.1+
1998 09 24	699	0.1-	0.7+	2000 02 03	704	0.5+	0.1+	2000 03 11	699	0.0	0.1+
1998 09 24	699	0.0	0.4+	2000 02 03	411	1.0-	0.2-	2000 03 11	699	0.4-	0.7+
1998 10 17	699	0.7-	0.6+	2000 02 03	411	0.1-	0.0	2000 03 11	699	0.1-	0.3+
1998 10 17	699	0.6-	0.2+	2000 02 11	704	0.0	0.2+	2000 03 12	704	0.1+	0.3+
1998 10 17	699	0.6-	0.4+	2000 02 11	704	0.1-	0.6+	2000 03 12	704	0.2+	0.1-
1998 11 24	699	0.7-	0.3-	2000 02 11	704	0.2+	0.2+	2000 03 12	704	0.2-	0.2+
1998 11 24	699	0.5-	0.3+	2000 02 11	704	0.2+	0.4+	2000 03 12	704	0.3+	0.0
1998 11 24	699	0.5-	0.3-	2000 02 11	704	0.5+	0.6+	2000 03 12	704	0.1+	0.1-
1998 12 08	704	0.5+	0.2+	2000 02 11	411	0.2-	0.3+				

(14277)* 2000 CS₁₃ = 1993 RL₁₃ = 1996 GY₆

Discovered 2000 Feb. 2 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38727)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	2.95720	(2000.0)	P	Q
<i>n</i>	0.21026205	ω	303.73159	-0.66430923
<i>a</i>	2.8008861	Ω	187.91794	-0.74739958
<i>e</i>	0.0489751	i	+0.70624071	-0.62353915
<i>P</i>	4.69	<i>H</i>	+0.24478013	-0.22933119
			<i>G</i>	<i>U</i>
			0.15	1

Residuals in seconds of arc

1993 09 14	809	1.2+	0.5+	1999 12 31	699	1.0+	0.2-	2000 02 06	704	0.3+	0.1-
1993 09 14	809	0.5-	1.0+	2000 01 05	704	0.1+	1.0-	2000 02 08	704	0.2+	0.1+
1993 09 14	809	0.7-	0.9+	2000 01 05	704	0.5-	0.7-	2000 02 08	704	0.2+	0.4-
1993 09 19	809	0.9-	0.1+	2000 01 05	704	0.1-	0.4-	2000 02 08	704	0.2-	0.3-
1993 09 19	809	(2.3-	1.0-)	2000 01 05	704	0.1-	0.3-	2000 02 08	704	0.7+	0.6+
1993 09 19	809	0.9+	0.2-	2000 01 05	704	0.2-	0.0	2000 02 08	704	0.3+	0.3+
1996 04 12	691	0.5+	0.6+	2000 01 07	704	0.9-	1.5-	2000 02 08	704	0.4+	0.7+
1996 04 12	691	0.3+	0.5+	2000 01 07	704	0.4+	0.4-	2000 02 08	704	0.4-	0.5+
1996 04 12	691	0.3+	0.6+	2000 01 07	704	0.1+	0.4-	2000 02 08	704	0.1+	0.2+
1996 04 19	691	1.0-	0.5-	2000 01 07	704	0.4-	1.1-	2000 02 08	704	0.6-	0.0
1996 04 19	691	0.6-	0.1+	2000 01 07	704	0.6+	0.2-	2000 02 10	704	0.1-	0.3-
1996 04 19	691	0.5-	0.6-	2000 02 02	704	0.5+	0.3+	2000 02 10	704	0.3+	0.2-
1997 07 12	327	0.3+	0.6+	2000 02 02	704	0.5+	0.1+	2000 02 10	704	0.2+	0.7+
1997 07 12	327	0.3+	0.7+	2000 02 02	704	0.8-	0.3+	2000 02 10	704	0.5+	0.6+
1997 07 12	327	0.1+	0.5+	2000 02 02	704	0.3+	0.1-	2000 02 10	704	0.5+	0.5+
1998 10 17	699	0.7-	0.2+	2000 02 02	704	0.8-	1.2+	2000 02 27	703	0.2-	0.1+
1998 10 17	699	0.8-	0.4-	2000 02 04	704	0.5-	0.3+	2000 02 27	703	0.0	0.2+
1998 10 17	699	0.9-	0.5+	2000 02 04	704	0.1-	0.3-	2000 02 27	703	1.2-	0.2+
1998 11 10	704	0.9-	1.3+	2000 02 04	704	1.6-	0.0	2000 02 27	703	1.0+	1.0+
1998 11 10	704	1.1+	1.3-	2000 02 04	704	0.7-	0.3+	2000 03 05	704	0.6+	0.0
1998 11 10	704	0.3+	0.8-	2000 02 04	704	0.3-	1.2+	2000 03 05	704	0.0	0.1+
1998 11 10	704	0.3+	0.3-	2000 02 06	704	0.1-	0.1-	2000 03 05	704	0.1-	0.5-
1999 12 31	699	1.3+	0.1-	2000 02 06	704	0.4+	0.8+	2000 03 05	704	0.2+	0.9-
1999 12 31	699	0.6+	1.2+	2000 02 06	704	0.6+	0.5+	2000 03 05	704	0.1-	0.1+

(14278)* 2000 CV₂₉ = 3556 T-3 = 1998 SF₁₉

Discovered 2000 Feb. 2 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38728)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	15.31689	(2000.0)	P	Q
<i>n</i>	0.27681716	ω	344.13207	-0.63225702
<i>a</i>	2.3317074	Ω	145.07616	-0.77444430
<i>e</i>	0.1741914	i	+0.71495425	-0.59419019
<i>P</i>	3.56	<i>H</i>	+0.29848194	-0.21719586
			<i>G</i>	<i>U</i>
			0.15	2

Residuals in seconds of arc

1977 10 16	675	1.8+	1.1-	2000 02 04	704	0.2+	0.1-	2000 02 26	691	0.6-	0.7-
1977 10 16	675	0.6+	1.5-	2000 02 04	704	0.4-	0.4+	2000 02 29	704	0.6+	0.0
1977 10 17	675	0.0	0.6+	2000 02 04	704	0.3-	0.1-	2000 02 29	704	0.4+	0.1+
1977 10 17	675	1.8-	0.1+	2000 02 04	704	0.4+	0.7-	2000 02 29	704	0.4+	0.1-
1977 10 21	675	(4.2+	2.2-)	2000 02 04	704	0.0	0.6-	2000 02 29	704	0.3+	0.1-
1977 10 21	675	(4.5+	3.4-)	2000 02 06	704	0.1+	0.1+	2000 02 29	704	0.4+	0.3-
1995 12 22	327	0.3-	0.4+	2000 02 06	704	0.1+	0.1+	2000 03 02	691	0.2+	0.4-
1995 12 22	327	0.2-	0.3+	2000 02 06	704	0.0	0.0	2000 03 02	691	0.2+	0.4-
1995 12 22	327	0.1+	0.0	2000 02 06	704	0.1-	0.2-	2000 03 02	691	0.3+	0.3-
1996 01 12	327	0.3+	0.4+	2000 02 06	704	0.1+	0.0	2000 03 03	704	0.6+	0.6+
1996 01 12	327	0.0	0.0	2000 02 11	691	0.7-	0.0	2000 03 03	704	0.6+	0.2+
1996 01 12	327	0.1-	0.2+	2000 02 11	691	0.5-	0.0	2000 03 03	704	0.2+	0.2+
1998 09 19	691	0.2-	0.4+	2000 02 11	691	0.6-	0.1-	2000 03 03	704	0.1+	0.3+
1998 09 19	691	0.3-	0.2+	2000 02 11	704	0.6+	1.2+	2000 03 05	704	0.1-	0.6+
1998 09 19	691	0.1-	0.2+	2000 02 11	704	0.1-	0.3+	2000 03 05	704	0.1+	0.6+
1998 09 24	691	0.0	0.4+	2000 02 11	704	0.2-	0.3-	2000 03 05	704	0.0	0.5+
1998 09 24	691	0.1-	0.2+	2000 02 11	704	0.3-	0.2-	2000 03 05	704	0.3+	0.3+
1998 09 24	691	0.1-	0.4+	2000 02 11	704	0.3+	0.7-	2000 03 05	704	0.1+	0.4+
1999 12 05	703	0.7+	0.2-	2000 02 25	703	0.5-	0.2+	2000 03 11	704	0.7+	0.3-
1999 12 05	703	0.1+	0.3-	2000 02 25	703	0.1+	0.4-	2000 03 11	704	0.3-	0.1-
1999 12 05	703	0.8-	0.3+	2000 02 25	703	0.3-	0.2+	2000 03 11	704	0.5+	0.2+
1999 12 05	703	0.6-	0.7+	2000 02 25	703	0.5-	0.1+	2000 03 11	704	0.5-	1.7+
2000 02 02	704	0.6+	0.0	2000 02 26	691	0.2-	0.4-	2000 03 11	691	0.4-	0.2-
2000 02 02	704	0.1-	0.6+	2000 02 26	691	0.0	0.5-	2000 03 11	691	0.5-	0.2-
2000 02 02	704	0.2+	0.5+	2000 02 26	691	0.0	0.6-	2000 03 11	691	0.5-	0.1-
2000 02 02	704	0.4+	0.1+	2000 02 26	691	0.5-	0.7-				
2000 02 02	704	0.3+	0.0	2000 02 26	691	0.5-	0.7-				

(14279)* 2000 CD₆₅ = 1976 UE₃ = 1996 HQ₁₅ = 1998 XT₃₁

Discovered 2000 Feb. 3 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38730)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	134.18550	(2000.0)	P	Q
<i>n</i>	0.18170006	ω	320.58598	+0.99943895
<i>a</i>	3.0872088	Ω	37.72653	+0.02960299
<i>e</i>	0.1878289	i	1.46715	+0.90903194
<i>P</i>	5.42	<i>H</i>	-0.02656322	+0.41567367
			<i>G</i>	<i>U</i>
			0.15	1

Residuals in seconds of arc

1976 10 24	381	0.7-	0.6+	2000 01 04	704	0.8-	1.1-	2000 02 11	704	0.2-	0.1-
1976 10 24	381	0.5-	0.3+	2000 01 04	704	0.7-	0.6-	2000 02 11	704	0.6+	0.9+
1976 10 26	095	0.4+	1.2+	2000 01 04	704	0.2-	0.2-	2000 02 12	120	(2.3+	0.5+)
1996 04 18	809	0.1+	0.2-	2000 01 04	704	0.3-	0.2-	2000 02 12	120	0.2-	0.6-
1996 04 18	809	0.3-	0.8+	2000 01 30	703	0.2-	0.2-	2000 02 27	703	0.2-	0.4-
1996 04 18	809	0.1+	0.7-	2000 01 30	703	0.3-	1.3+	2000 02 27	703	0.2-	0.5+
1996 04 18	809	(6.7+	3.0+)	2000 01 30	703	0.3-	0.3-	2000 02 27	703	0.8+	1.1-
1996 04 18	809	(5.3+	2.5+)	2000 01 30	703	0.6-	0.1+	2000 02 27	703	0.6+	0.2+
1996 04 18	809	(5.4+	2.1+)	2000 02 03	704	0.2+	0.1-	2000 02 29	704	0.1-	0.2-
1996 04 20	809	(6.9+	2.8+)	2000 02 03	704	0.4+	0.1+	2000 02 29	704	0.2-	0.2-
1996 04 20	809	(6.3+	3.1+)	2000 02 03	704	0.6+	0.5+	2000 02 29	704	0.1+	0.4+
1996 04 20	809	(5.7+	2.6+)	2000 02 03	704	0.2+	0.9+	2000 02 29	704	0.1-	0.2+

2000 MAR. 20

M.P.C. 39131

1998 10 03	327	1.0−	0.1+	2000 02 03	704	0.0	0.4+	2000 02 29	704	0.0	0.0
1998 10 03	327	0.6−	0.1+	2000 02 07	691	0.2+	0.3−	2000 03 03	704	0.2+	0.0
1998 10 03	327	0.1−	0.2−	2000 02 07	691	0.4+	0.2−	2000 03 03	704	0.1−	0.6+
1998 12 14	704	0.0	1.4−	2000 02 07	691	0.3+	0.2−	2000 03 03	704	0.3−	0.3+
1998 12 14	704	1.0−	0.8+	2000 02 08	704	0.1−	1.0−	2000 03 03	704	0.0	0.0
1998 12 14	704	0.7+	0.0	2000 02 08	704	0.1+	0.1+	2000 03 03	704	0.4+	0.1+
1998 12 14	704	1.4+	0.9+	2000 02 08	704	1.0−	0.0	2000 03 11	704	0.6+	0.7−
1998 12 17	704	0.1−	0.4+	2000 02 08	704	0.2−	0.2+	2000 03 11	704	0.6+	0.9+
1998 12 17	704	0.8−	1.4−	2000 02 08	704	0.5+	0.9+	2000 03 11	704	0.0	0.0
1998 12 17	704	0.8+	0.8−	2000 02 11	704	0.5+	0.7−	2000 03 11	704	0.4+	1.0+
1998 12 17	704	0.5+	0.1+	2000 02 11	704	1.2−	0.8+	2000 03 11	704	0.4+	0.4−
1998 12 17	704	0.4+	0.8−	2000 02 11	704	0.2−	0.3+				

(14280)* 2000 CN₇₂ = 1989 YP₁ = 1996 JN₁₆

Discovered 2000 Feb. 6 by K. Korlević at Višnjan.

Id. S. Nakano (*MPC* 38731)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>	214.87219		(2000.0)	P		Q	
<i>n</i>	0.20374976	ω	175.19478	+0.49657219		+0.86685991	
<i>a</i>	2.8602543	Ω	124.57208	−0.79815557		+0.47611577	
<i>e</i>	0.0085056	<i>i</i>	3.08990	−0.34112132		+0.14787723	
<i>P</i>	4.84	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1989 12 30	413	1.7−	0.2+	1999 11 16	704	0.9−	0.7−	2000 02 25	703	0.1−	0.7+
1989 12 30	413	1.4+	0.7−	1999 11 16	704	0.7−	0.4−	2000 02 25	703	0.4+	0.5+
1989 12 31	413	0.2+	0.3−	2000 02 06	120	0.9−	0.3−	2000 02 25	703	0.6−	0.4+
1989 12 31	413	0.1−	0.3+	2000 02 06	120	0.7−	0.1+	2000 02 29	704	2.0−	0.5−
1996 05 13	691	0.9−	0.3−	2000 02 06	120	0.6−	0.0	2000 02 29	704	0.3+	0.2+
1996 05 13	691	0.6−	0.2−	2000 02 10	120	0.5−	0.3+	2000 02 29	704	0.2+	0.0
1996 05 13	691	0.6−	0.3−	2000 02 10	120	0.3−	0.3−	2000 02 29	704	0.3+	0.2+
1996 05 21	566	0.5+	0.9−	2000 02 10	888	0.2+	0.3−	2000 02 29	704	0.0	0.1+
1996 05 21	566	0.5+	0.7−	2000 02 10	888	0.1+	0.0	2000 03 03	704	0.1−	0.0
1996 05 21	566	0.6+	0.2−	2000 02 10	888	0.1+	0.1+	2000 03 03	704	0.2+	0.1+
1997 09 02	566	0.2−	0.3+	2000 02 10	120	0.4−	0.2−	2000 03 03	704	0.1−	0.6+
1997 09 02	566	0.4−	0.6+	2000 02 10	120	0.3+	0.3+	2000 03 03	704	0.1+	0.3+
1997 09 02	566	0.1+	0.3+	2000 02 11	704	0.4−	0.2+	2000 03 03	704	0.7+	0.6+
1998 08 31	704	0.9+	0.8−	2000 02 11	704	0.4−	0.5+	2000 03 05	704	0.7+	0.1+
1998 08 31	704	1.5−	0.3+	2000 02 11	704	0.4+	0.4+	2000 03 05	704	0.5+	0.1+
1998 08 31	704	0.5+	0.8+	2000 02 11	704	0.1+	0.0	2000 03 05	704	0.1+	0.3+
1998 08 31	704	0.0	0.7−	2000 02 11	704	0.1+	0.3+	2000 03 05	704	0.0	0.1−
1998 11 24	704	0.5−	0.0	2000 02 11	888	0.3+	0.2+	2000 03 05	704	0.2+	0.2−
1998 11 24	704	0.5+	0.7−	2000 02 11	888	0.2+	0.4−	2000 03 11	608	0.6+	0.3−
1998 11 24	704	0.4+	0.0	2000 02 11	888	0.2+	0.1+	2000 03 11	608	0.9+	0.4−
1998 11 24	704	0.4+	0.6−	2000 02 12	120	(2.5+	0.7−)	2000 03 11	608	0.6+	0.3−
1999 11 16	704	0.1+	1.1−	2000 02 13	120	0.4+	0.2−				
1999 11 16	704	0.1−	0.1−	2000 02 25	703	0.2+	0.6+				

(14281)* 2000 CR₉₂ = 1983 UU = 1992 OL₄ = 1995 DT₁₂ = 1998 XV₅₉

Discovered 2000 Feb. 6 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38731)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	185.49158		(2000.0)	P		Q	
<i>n</i>	0.20479563	ω	210.66023	+0.95284016		+0.30115580	
<i>a</i>	2.8505079	Ω	131.76416	−0.26726081		+0.89116062	
<i>e</i>	0.0867747	<i>i</i>	2.87620	−0.14376123		+0.33931981	
<i>P</i>	4.81	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1983 10 30	675	0.7+	2.0+	1998 12 22	704	0.2+	0.4−	2000 02 16	703	0.1+	0.1−
1983 11 04	675	0.6−	0.1+	1998 12 22	704	(2.2−	2.6+)	2000 02 16	703	0.1−	0.6+
1992 07 26	809	0.1−	0.2+	1998 12 22	704	1.6−	0.1+	2000 02 26	703	0.4+	0.4−
1992 07 26	809	0.6−	0.5−	1998 12 22	704	1.1−	1.9−	2000 02 26	703	0.4−	0.1−
1992 07 26	809	0.9−	1.0−	1999 01 23	704	(0.0	2.2−)	2000 02 26	703	0.3+	0.2+

1992 07 30	809	1.2+	1.5−	1999 01 23	704	1.4+	1.1+	2000 02 26	703	0.4−	0.3−
1992 07 30	809	0.6+	1.4−	1999 01 23	704	0.8+	0.7−	2000 02 29	704	0.0	0.3−
1992 07 30	809	0.4+	1.1−	1999 01 23	704	0.4+	0.7−	2000 02 29	704	0.1−	0.7−
1995 02 22	033	1.3−	1.4−	1999 12 09	703	1.2+	0.6+	2000 02 29	704	0.3+	0.5−
1995 02 23	033	0.5−	0.5−	1999 12 09	703	1.6−	1.0−	2000 02 29	704	0.5−	0.4−
1995 02 24	033	1.3−	0.5−	1999 12 09	703	1.7−	0.0	2000 03 03	704	0.2+	0.4+
1996 05 22	566	0.4+	0.6−	1999 12 09	703	0.0	0.8+	2000 03 03	704	0.4+	0.1+
1996 05 22	566	0.2−	0.7−	2000 02 06	704	0.2+	0.9−	2000 03 03	704	0.1+	0.0
1996 05 22	566	0.0	0.7−	2000 02 06	704	1.3−	0.7−	2000 03 03	704	0.7+	0.1+
1998 12 15	704	0.9−	0.1−	2000 02 06	704	0.2+	0.3+	2000 03 03	704	0.5+	0.2+
1998 12 15	704	0.6+	0.6−	2000 02 06	704	0.1−	0.2+	2000 03 11	704	0.4+	0.2+
1998 12 15	704	0.1+	0.1+	2000 02 06	704	0.5+	0.4+	2000 03 11	699	0.1+	0.4+
1998 12 15	704	0.4+	0.1+	2000 02 11	704	1.4+	0.2−	2000 03 11	704	0.4+	0.3+
1998 12 15	704	0.3+	0.3−	2000 02 11	704	0.5+	0.2−	2000 03 11	704	0.3+	0.2+
1998 12 16	704	0.2−	1.1−	2000 02 11	704	0.1+	0.2−	2000 03 11	699	0.6−	0.2+
1998 12 16	704	0.5−	0.7−	2000 02 11	704	0.0	0.4−	2000 03 11	704	0.3+	0.5+
1998 12 16	704	0.4+	0.0	2000 02 11	704	0.4+	0.8+	2000 03 11	699	0.4−	0.1+
1998 12 16	704	0.2+	0.3−	2000 02 16	703	0.3−	0.1+	2000 03 11	704	0.5+	0.4+
1998 12 16	704	0.3+	0.1+	2000 02 16	703	0.3−	0.1+	2000 03 11	699	0.6−	0.1+

(14282)* 2097 P-L

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	199.08555		(2000.0)	P		Q	
<i>n</i>	0.18622197	ω	131.74050	+0.83190619		+0.55386933	
<i>a</i>	3.0370278	Ω	194.73161	−0.54056279		+0.79498462	
<i>e</i>	0.0542556	<i>i</i>	7.69996	−0.12539523		+0.24744335	
<i>P</i>	5.29	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.3+	0.2+	1997 09 04	327	0.2+	0.6+	2000 02 02	704	0.1−	1.5+
1960 09 26	675	0.2+	1.5−	1997 10 28	704	1.8+	1.0−	2000 02 02	704	0.3−	1.2+
1960 09 26	675	(0.5+	2.7+)	1997 10 28	704	(2.3+	0.5−)	2000 02 08	704	0.5+	0.4+
1960 09 28	675	0.9+	0.3+	1997 10 28	704	1.4+	0.3−	2000 02 08	704	0.2+	0.7+
1960 10 17	675	0.0	0.8+	1997 10 28	704	(0.3+	3.2−)	2000 02 08	704	0.2+	0.8−
1960 10 17	675	0.6−	0.4−	1997 10 30	704	0.9−	0.5−	2000 02 08	704	0.3+	0.3−
1960 10 22	675	0.8−	0.5+	1997 10 30	704	0.7−	0.2−	2000 02 08	704	0.6−	0.6−
1960 10 25	675	1.2+	0.2−	1997 10 30	704	0.0	0.5−	2000 03 05	608	0.3−	0.2−
1960 10 26	675	0.2−	0.2+	1997 10 30	704	0.4−	0.5+	2000 03 05	608	0.4−	0.4−
1981 10 01	413	1.3−	0.6−	1997 10 30	704	(3.1−	1.2−)	2000 03 05	608	0.6−	0.4−
1981 10 01	413	0.3−	0.4−	1998 12 15	704	0.3−	0.9+	2000 03 08	704	0.4+	0.3−
1992 10 23	010	(2.2−	1.0−)	1998 12 15	704	1.2−	1.1−	2000 03 08	704	0.0	0.9−
1992 10 23	010	0.6−	0.1+	1998 12 15	704	0.3−	1.1−	2000 03 08	704	0.2−	0.5−
1995 03 28	691	0.0	1.3−	1998 12 15	704	0.0	0.0	2000 03 08	704	0.3−	0.0
1995 03 28	691	0.6−	0.3−	1998 12 15	704	0.8+	1.0+	2000 03 08	704	0.1−	0.3−
1995 03 28	691	0.4−	0.6−	2000 02 02	704	0.7+	0.9+	2000 03 10	608	0.3+	0.3−
1997 09 04	327	0.4+	0.0	2000 02 02	704	0.0	0.8+	2000 03 10	608	0.6+	0.5−
1997 09 04	327	0.4+	0.7+	2000 02 02	704	0.7+	0.4+	2000 03 10	608	0.4+	0.1+

(14283)* 2206 P-L = 1996 GB₁₉

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 27320)

1960 09 28	675	0.7+	1.9-	1998 10 29	704	0.4+	0.4-	2000 01 11	699	0.6-	0.9+
1960 10 22	675	0.0	0.2-	1998 10 29	704	0.1-	0.3+	2000 03 04	703	0.7-	0.0
1960 10 25	675	0.2+	0.2+	1998 10 29	704	0.4+	0.3+	2000 03 04	703	0.3+	0.0
1960 10 26	675	1.3-	0.6+	1998 11 10	704	0.3-	0.0	2000 03 04	703	0.1-	0.2-
1996 03 24	809	(0.4+	3.8+)	1998 11 10	704	1.3-	0.3-	2000 03 04	703	0.0	0.6-
1996 03 24	809	(0.1+	4.0+)	1998 11 10	704	0.1+	0.4+	2000 03 09	704	0.1-	0.3-
1996 03 24	809	(0.5-	3.5+)	1998 11 10	704	0.5+	0.9-	2000 03 09	704	0.1-	0.3-
1996 03 27	809	(0.7-	3.1+)	1998 11 10	704	0.4-	0.2+	2000 03 09	704	0.4+	0.8-
1996 03 27	809	(0.8+	2.3+)	1998 11 11	704	0.6-	1.2+	2000 03 09	704	0.3+	0.4-
1996 03 27	809	(0.1-	2.5+)	1998 11 11	704	0.0	0.2+	2000 03 09	704	1.0-	0.0
1996 04 15	809	0.5+	1.7+	1998 11 11	704	0.1+	0.0	2000 03 10	704	0.4-	0.9-
1996 04 15	809	0.5+	1.0+	1998 11 11	704	0.4+	0.7+	2000 03 10	704	0.2-	0.8-
1996 04 15	809	0.6+	1.4+	1998 11 11	704	0.0	0.8+	2000 03 10	704	0.4+	0.0
1996 04 17	809	(0.2+	2.2+)	1998 11 11	699	0.9-	0.5+	2000 03 10	704	0.5+	0.3-
1996 04 17	809	0.2+	1.2+	1998 11 11	699	0.0	0.5+	2000 03 10	704	0.4+	1.2+

(14284)* 2530 P-L = 1991 RS₂₁

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. E. Bowell (*MPC* 19874)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	103.74319		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.28495274	ω	35.48543	+0.52415021	-0.85102923
a	2.2871123	Ω	22.95445	+0.76126792	+0.45143326
e	0.1308060	i	4.68756	+0.38175609	+0.26824849
P	3.46	H	14.3	G 0.15	U 2

Residuals in seconds of arc

1960 09 24	675	0.7+	0.7-	1998 09 26	704	0.2+	0.0	1998 12 09	704	1.3+	0.3-
1960 09 26	675	0.6-	0.1+	1998 09 26	704	0.3+	0.1-	1999 01 10	699	0.2-	0.6+
1960 09 28	675	0.4-	0.7-	1998 09 26	704	0.5+	0.4+	1999 01 10	699	1.6-	0.5-
1960 09 29	675	0.3+	1.1+	1998 09 26	704	0.8+	0.8+	1999 01 10	699	0.1-	0.4+
1960 10 17	675	0.4-	0.1-	1998 09 26	704	0.9+	0.8+	2000 01 08	704	0.5-	1.7-
1960 10 22	675	0.1+	0.0	1998 09 27	704	0.0	0.1+	2000 01 08	704	0.9+	0.4-
1960 10 25	675	0.4+	0.1-	1998 09 27	704	0.1-	1.1+	2000 01 08	704	0.7+	1.1-
1960 10 26	675	0.1+	0.8+	1998 09 27	704	0.7+	0.5+	2000 01 08	704	0.3-	1.0-
1991 09 15	675	0.2+	0.2-	1998 09 27	704	0.2-	0.3+	2000 02 27	703	0.7-	0.1-
1991 09 15	675	0.2+	0.2+	1998 09 27	704	0.3-	0.5+	2000 02 27	703	0.5-	0.2-
1991 09 16	675	0.0	1.2-	1998 10 14	704	0.4+	1.1-	2000 02 27	703	0.2-	0.1-
1991 09 16	675	1.1-	1.0-	1998 10 14	704	1.2+	0.2-	2000 02 27	703	0.1-	0.0
1991 09 17	675	1.1-	0.4-	1998 10 14	704	0.3-	0.2-	2000 03 08	704	0.5+	0.7+
1991 09 17	675	0.5+	0.6-	1998 10 14	704	1.0+	0.9-	2000 03 08	704	0.8+	1.5+
1991 09 17	675	0.6+	0.0	1998 10 14	704	1.5+	1.4-	2000 03 08	704	0.1-	1.0+
1998 08 28	704	0.0	1.2+	1998 10 15	704	0.2+	1.7-	2000 03 08	704	0.4+	1.1+
1998 08 28	704	(0.7-	3.3+)	1998 10 15	704	0.1-	0.6-	2000 03 08	704	0.0	1.6+
1998 08 28	704	1.4-	0.0	1998 10 15	704	0.0	0.6-	2000 03 10	704	0.0	0.0
1998 08 28	704	(2.1-	0.7+)	1998 10 15	704	1.0-	0.1+	2000 03 10	704	0.1+	0.1+
1998 08 28	704	(3.0-	1.3+)	1998 10 15	704	0.1+	0.6-	2000 03 10	704	0.2+	0.6+
1998 09 14	704	0.9-	1.6+	1998 10 17	699	0.8-	0.4-	2000 03 10	704	0.1+	0.1+
1998 09 14	704	1.4-	1.3+	1998 10 17	699	0.5-	0.2-	2000 03 10	704	0.2+	0.9+
1998 09 14	704	1.0-	1.2+	1998 10 17	699	0.2-	0.3-	2000 03 11	704	0.5+	0.1+
1998 09 18	704	0.1+	0.8+	1998 11 10	699	0.6-	0.8+	2000 03 11	704	0.2+	0.3+
1998 09 18	704	0.6+	0.8+	1998 11 10	699	0.7-	0.6+	2000 03 11	704	0.2+	0.3+
1998 09 18	704	0.6+	0.6+	1998 11 10	699	0.8-	0.2+	2000 03 11	704	0.7+	0.6+
1998 09 18	704	0.5-	1.1+	1998 11 25	699	0.2-	0.3-	2000 03 11	704	1.0+	1.2+
1998 09 18	704	0.5-	0.4+	1998 11 25	699	0.5-	0.0	2000 03 14	703	0.2-	0.2-
1998 09 25	704	0.1-	1.2+	1998 11 25	699	0.7-	0.1+	2000 03 14	703	0.1-	0.2-
1998 09 25	704	0.2-	0.5+	1998 12 09	704	(2.5+	2.5-)	2000 03 14	703	1.5+	1.8+
1998 09 25	704	0.5-	1.3+	1998 12 09	704	0.9-	0.5+	2000 03 14	703	0.4-	0.3+
1998 09 25	704	0.3+	0.8+	1998 12 09	704	0.1+	0.3-				

(14285)* 2566 P-L = 1981 EF₄₁

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. T. Kobayashi (*MPC* 14626)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	78.49615		(2000.0)	P	Q
n	0.25853353	ω	238.78130	+0.35181902	-0.93604702
a	2.4403838	Ω	190.62568	+0.86998436	+0.32944774
e	0.1836896	i	1.94973	+0.34547155	+0.12361295
P	3.81	H	14.7	G 0.15	U 2

Residuals in seconds of arc

1960 09 24	675	0.2-	0.0	1998 09 14	704	0.8+	0.6+	2000 02 27	703	0.2-	0.4+
1960 09 26	675	0.2+	0.1-	1998 09 14	704	1.0+	0.7+	2000 02 27	703	0.9-	1.1-
1960 09 28	675	0.1+	0.1-	1998 09 14	704	1.0+	0.8+	2000 02 27	703	(2.3-	1.0+)
1960 09 29	675	0.8+	0.3+	1998 09 15	120	0.3-	0.3-	2000 02 29	704	0.5+	0.6+
1960 10 17	675	0.1+	1.3+	1998 09 16	120	0.6+	0.6-	2000 02 29	704	0.9+	0.3+
1960 10 22	675	0.1+	0.1+	1998 09 18	704	0.7-	0.4-	2000 02 29	704	0.6+	0.7+
1960 10 25	675	0.3-	0.9-	1998 09 18	704	0.3-	0.2-	2000 02 29	704	0.1+	0.4+
1960 10 26	675	0.9-	0.8-	1998 09 18	704	0.0	0.4+	2000 03 03	704	0.5+	0.9+
1981 03 02	413	2.0-	1.2-	1998 09 18	704	(0.7+	2.2+)	2000 03 03	704	0.2+	0.7+
1981 03 02	413	0.9+	1.8-	1998 09 18	704	0.3+	1.1+	2000 03 03	704	0.3+	0.5+
1981 03 06	413	1.7+	1.3-	1998 09 24	120	0.4+	0.5-	2000 03 03	704	0.3+	1.2+
1981 03 11	413	1.7-	0.2-	1998 09 24	120	0.3+	0.3-	2000 03 03	704	0.4+	0.8+
1981 03 15	413	0.3-	0.3-	1998 09 24	120	0.3+	0.7-	2000 03 08	704	0.3+	0.6+
1998 08 17	704	0.6+	0.2-	1998 09 25	704	1.9+	1.2+	2000 03 08	704	1.2+	0.8-
1998 08 17	704	(2.6-	0.8-)	1998 09 25	704	0.4-	1.3+	2000 03 08	704	0.7+	1.6+
1998 08 17	704	0.4-	1.1+	1998 09 25	704	0.5-	0.0	2000 03 08	704	0.1+	0.1+
1998 08 17	704	(5.2-	1.4-)	1998 09 25	704	0.7+	0.1-	2000 03 11	704	0.0	0.4+
1998 08 23	704	1.6-	0.2-	1998 09 25	704	0.6+	0.7+	2000 03 11	699	0.1+	0.1+
1998 08 23	704	1.3-	0.9+	1998 09 29	120	0.6-	0.2-	2000 03 11	704	0.5+	0.9+
1998 08 23	704	(0.9-	2.4-)	1998 09 29	120	0.2-	0.2+	2000 03 11	699	0.4-	0.1+
1998 08 23	704	0.7-	2.0+	1998 09 29	120	0.6-	0.1+	2000 03 11	704	0.3+	0.6+
1998 09 13	691	1.5-	0.5+	2000 02 08	704	0.2+	1.0+	2000 03 11	699	0.1+	1.1+
1998 09 13	691	1.4-	0.3+	2000 02 08	704	0.1+	0.4+	2000 03 11	704	0.4-	1.1+
1998 09 13	691	1.2-	0.3+	2000 02 08	704	0.7+	0.1-	2000 03 11	699	0.0	0.9+
1998 09 14	704	0.2-	0.5+	2000 02 27	703	1.0-	0.7+				

(14286)* 2577 P-L = 1990 RY₆

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 17835)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	233.39728		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.26140351	ω	293.60944	+0.21503126	+0.97660544
a	2.4224887	Ω	348.80746	-0.89253565	+0.19575655
e	0.1304742	i	0.54212	-0.39641100	+0.08900106
P	3.77	H	14.8	G 0.15	U 1

Residuals in seconds of arc

1960 09 24	675	0.2-	0.4-	1994 11 09	691	1.0-	0.6+	2000 02 27	703	1.5+	0.0
1960 09 26	675	0.1-	2.0-	1994 11 09	691	0.3-	0.0	2000 02 27	703	(0.2+	2.1+)
1960 09 28	675	1.2+	0.8+	1998 10 29	704	1.5+	1.5-	2000 02 28	691	0.3-	0.1-
1960 09 29	675	0.7+	0.8+	1998 10 29	704	1.3+	0.3-	2000 02 28	691	0.2-	0.0
1960 10 17	675	0.5-	0.5+	1998 10 29	704	0.0	0.1-	2000 02 28	691	0.1+	0.0
1960 10 17	675	0.4-	1.7-	1998 10 29	704	0.1+	0.0	2000 02 29	704	0.6-	0.2+
1960 10 22	675	0.2-	0.5-	1998 11 16	691	0.5-	0.4+	2000 02 29	704	0.3+	0.9+
1960 10 25	675	0.4+	0.5-	1998 11 16	691	0.5-	0.3+	2000 02 29	704	0.4-	1.7+
1960 10 26	675	0.1-	0.9+	1998 11 16	691	0.2-	0.3+	2000 02 29	704	0.0	0.6+
1990 08 16	809	1.1-	1.8+	1998 12 12	691	0.1+	0.1-	2000 02 29	704	0.8-	1.0+
1990 08 16	809	1.4-	0.1+	1998 12 12	691	0.7+	0.2-	2000 03 03	704	0.3+	0.3+
1990 08 16	809	0.9-	0.1+	1998 12 17	691	0.5-	0.0	2000 03 03	704	0.2-	0.4-
1990 08 20	809	1.4-	0.2+	1998 12 17	691	0.2-	0.0	2000 03 03	704	0.6+	1.2-
1990 08 20	809	1.8-	0.3+	1998 12 17	691	0.3-	0.3-	2000 03 03	704	0.4+	0.1-
1990 08 20	809	1.4-	1.3+	2000 01 30	703	(3.3-	2.6+)	2000 03 03	704	0.1+	1.3-
1990 08 26	809	0.2-	0.7-	2000 01 30	703	1.3+	1.1+	2000 03 05	704	0.6+	0.6+
1990 08 26	809	0.6-	0.4-	2000 01 30	703	1.6-	0.2-	2000 03 05	704	1.2+	0.2-
1990 08 26	809	0.8-	0.2-	2000 01 30	703	0.8+	1.0+	2000 03 05	704	1.4+	0.1+
1990 09 13	809	0.3+	1.0+	2000 02 05	691	0.2-	0.1-	2000 03 05	704	1.5+	0.4-

2000 MAR. 20

M.P.C. 39133

1990 09 13	809	0.7+	0.9+	2000 02 05	691	0.3-	0.1-	2000 03 09	704	0.2-	0.0
1990 09 13	809	1.3+	0.9+	2000 02 05	691	0.4-	0.1-	2000 03 09	704	0.4-	0.9+
1990 09 14	809	0.3+	1.0+	2000 02 11	704	0.0	0.5-	2000 03 09	704	0.3+	1.3+
1990 09 14	809	0.9+	1.0+	2000 02 11	704	1.2-	0.6+	2000 03 09	704	0.8+	0.5+
1990 09 14	809	1.3+	0.8+	2000 02 11	704	1.3-	0.4+	2000 03 11	691	0.1-	0.3-
1990 09 15	809	0.2+	0.0	2000 02 11	704	0.5-	0.3+	2000 03 11	691	0.2-	0.2-
1990 09 15	809	0.6+	0.0	2000 02 11	704	0.0	0.3-	2000 03 11	691	0.2-	0.1-
1990 09 15	809	1.2+	0.1+	2000 02 27	703	0.2+	0.4+				
1994 11 09	691	1.0-	0.5-	2000 02 27	703	0.3+	1.3+				

(14287)* 2777 P-L = 1989 GQ

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. S. Nakano (*MPC* 14627)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>		293.23307		(2000.0)			
<i>n</i>		0.26413666		ω		99.71239	
<i>a</i>		2.4057487		Ω		159.67327	
<i>e</i>		0.1687255		i		2.91925	
<i>P</i>		3.73		<i>H</i>		14.1	
				<i>G</i>		0.15	
				<i>U</i>		1	

Residuals in seconds of arc

1949 11 23	675	(2.8-	0.4-)	1993 07 24	801	0.4+	0.3-	2000 03 03	104	1.8-	1.8-
1949 11 23	675	(3.4-	1.0-)	1993 07 24	801	1.1+	1.4+	2000 03 03	104	1.3-	1.4-
1951 02 04	675	0.7-	0.5-	1997 12 05	910	1.7-	0.1-	2000 03 03	104	1.3-	2.0-
1960 09 24	675	0.3+	0.4-	1997 12 05	910	1.9-	0.4-	2000 03 08	704	0.5+	0.6+
1960 09 26	675	0.4+	0.2-	1997 12 05	910	0.5-	0.1-	2000 03 08	704	0.9+	1.4+
1960 09 28	675	0.6-	0.3-	1998 12 22	704	1.5-	0.1+	2000 03 08	704	0.2-	0.4+
1960 09 29	675	0.0	0.1+	1998 12 22	704	0.6-	1.0-	2000 03 08	704	1.3+	1.1+
1960 10 25	675	1.0+	0.2+	1998 12 22	704	0.2-	1.1+	2000 03 08	704	0.4+	1.1+
1960 10 26	675	0.1+	1.0+	1998 12 22	704	(2.9-	0.5-)	2000 03 10	704	0.9+	0.3+
1989 04 01	675	0.0	0.9+	2000 02 15	120	1.3+	0.9-	2000 03 10	704	1.0+	0.7+
1989 04 01	675	1.0-	0.4+	2000 02 15	120	0.0	0.7-	2000 03 10	704	0.7+	1.1+
1989 04 07	675	1.5-	0.8-	2000 02 15	120	(2.3+	0.1+)	2000 03 10	704	1.3+	1.2+
1989 04 07	675	0.4-	0.4-	2000 02 25	104	(0.6+	2.5-)	2000 03 10	704	0.9+	1.7+
1989 04 08	675	0.8-	1.4-	2000 02 25	104	0.4-	0.4-	2000 03 10	120	0.4-	0.9-
1989 04 08	675	2.1-	1.2-	2000 02 27	703	0.1-	0.1+	2000 03 11	120	1.9-	0.6-
1989 04 30	675	(0.3+	3.7-)	2000 02 27	703	0.2+	0.3+	2000 03 11	120	0.7-	1.7-
1989 04 30	675	(0.4+	2.3-)	2000 02 27	703	0.2-	0.2-	2000 03 11	704	0.0	0.2+
1989 05 02	675	(0.2-	2.9-)	2000 02 27	703	0.0	0.4+	2000 03 11	704	0.2-	0.1+
1989 05 02	675	0.6+	0.7-	2000 02 28	106	0.4+	0.0	2000 03 11	704	0.5-	0.2-
1990 10 12	413	0.8+	2.1-	2000 02 28	106	0.8+	0.1-	2000 03 11	704	0.4-	0.2-
1990 10 12	413	0.5+	0.3-	2000 02 28	106	0.1-	0.1+	2000 03 11	704	0.4-	0.2-
1992 02 04	675	1.6+	1.1-	2000 02 29	704	0.1+	0.9+	2000 03 14	703	0.3+	0.8+
1992 02 04	675	0.7+	0.4+	2000 02 29	704	1.0+	0.3-	2000 03 14	703	0.2-	0.2+
1993 07 22	801	0.8+	0.7-	2000 02 29	704	0.7+	0.2+	2000 03 14	703	0.6+	0.2+
1993 07 22	801	0.5+	0.5+	2000 02 29	704	0.2+	0.3-	2000 03 14	703	0.1-	0.4+

(14288)* 2796 P-L = 4346 T-3

Discovered 1960 Sept. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. T. Kobayashi (*MPC* 15902)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		96.21787		(2000.0)			
<i>n</i>		0.23265542		ω		247.35198	
<i>a</i>		2.6181464		Ω		141.38166	
<i>e</i>		0.2241764		i		3.27939	
<i>P</i>		4.24		<i>H</i>		16.0	
				<i>G</i>		0.15	
				<i>U</i>		2	

Residuals in seconds of arc

1960 09 26	675	0.7+	0.5+	1977 10 22	675	0.9+	1.9+	1998 09 18	704	0.4-	0.9+
1960 09 28	675	0.3-	1.5+	1996 02 14	691	0.5-	0.0	2000 02 05	695	0.2+	0.3+
1960 09 29	675	0.6-	1.6+	1996 02 14	691	1.4-	0.6-	2000 02 05	695	0.1+	0.2+
1977 10 12	675	0.1-	1.0-	1996 02 14	691	0.4-	0.5+	2000 02 11	691	0.1+	0.6-
1977 10 12	675	0.8-	1.4-	1998 09 14	704	0.4-	0.0	2000 02 11	691	0.1-	0.6-

1977 10 16	675	0.2+	0.6-	1998 09 14	704	1.0+	0.5-	2000 02 11	691	0.3-	0.4-
1977 10 16	675	0.6-	0.9-	1998 09 14	704	1.0-	0.8-	2000 02 26	691	0.3+	0.3-
1977 10 17	675	0.1-	0.4-	1998 09 14	704	0.8+	1.7-	2000 02 26	691	0.7+	0.4-
1977 10 17	675	0.0	0.8-	1998 09 18	704	0.5+	0.1+	2000 02 26	691	0.5+	0.1+
1977 10 21	675	0.2+	1.0-	1998 09 18	704	0.6+	0.8-	2000 03 11	691	0.2+	0.3+
1977 10 21	675	(2.7+	1.4-)	1998 09 18	704	1.8-	0.4-	2000 03 11	691	0.1-	0.2+
1977 10 22	675	0.5-	1.6+	1998 09 18	704	1.7+	1.4+	2000 03 11	691	0.4+	0.4+

(14289)* 4648 P-L = 1998 XL₁₃

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 33534)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		237.09938		(2000.0)			
<i>n</i>		0.26256738		ω		97.53406	
<i>a</i>		2.4153248		Ω		186.79084	
<i>e</i>		0.1760374		i		0.94880	
<i>P</i>		3.75		<i>H</i>		14.9	
				<i>G</i>		0.15	
				<i>U</i>		1	

Residuals in seconds of arc

1960 09 24	675	0.2-	0.6+	1998 11 18	704	0.7-	0.3+	2000 02 11	691	0.0	0.6-
1960 09 24	675	0.7-	0.2+	1998 11 18	704	0.2-	0.2-	2000 02 26	691	0.1-	1.0-
1960 09 25	675	0.3+	0.3+	1998 11 18	704	(4.2-	1.6+)	2000 02 26	691	0.2-	0.5-
1960 09 26	675	0.0	0.1+	1998 11 19	699	0.3-	0.2-	2000 02 26	691	0.5-	0.3-
1960 09 28	675	0.2+	0.4-	1998 11 19	699	0.9-	1.9+	2000 02 29	704	0.4+	0.9-
1960 10 17	675	0.4-	0.9-	1998 11 19	699	0.5-	0.9-	2000 02 29	704	0.2+	0.7-
1960 10 22	675	1.1+	0.6-	1998 11 23	691	0.5-	0.4-	2000 02 29	704	0.2+	0.3+
1960 10 24	675	0.5+	0.3-	1998 11 23	691	1.0-	0.8-	2000 02 29	704	0.3+	0.0
1960 10 25	675	0.1+	1.6-	1998 11 23	691	1.4-	1.1-	2000 02 29	704	0.2+	0.3-
1960 10 26	675	0.4-	0.7+	1998 12 15	910	0.4+	0.5+	2000 03 03	704	0.0	0.7+
1960 10 26	675	0.6+	0.6-	1998 12 15	910	0.5+	0.5+	2000 03 03	704	0.2-	0.5+
1994 10 08	691	0.3-	0.1+	1998 12 15	910	0.6+	0.7+	2000 03 03	704	0.3+	0.5+
1994 10 08	691	(1.6-	3.0-)	1998 12 16	910	0.5+	0.4+	2000 03 03	704	0.1-	0.5+
1994 10 08	691	(2.1+	1.1-)	1998 12 16	910	0.7+	0.4+	2000 03 03	704	0.3-	0.7+
1994 10 10	691	0.1+	0.7+	1998 12 16	910	0.6+	0.3+	2000 03 05	704	0.2-	1.1+
1994 10 10	691	(3.6-	4.1+)	2000 02 02	704	0.8+	0.4-	2000 03 05	704	0.4+	1.2+
1994 10 10	691	0.0	0.1-	2000 02 02	704	0.5+	0.1-	2000 03 05	704	0.1+	0.3-
1998 10 23	910	0.5+	0.0	2000 02 02	691	1.1-	0.5-	2000 03 05	704	0.7-	0.5+
1998 10 23	910	0.8+	0.2-	2000 02 02	704	0.2+	0.2-	2000 03 05	704	0.7-	0.4-
1998 10 23	910	0.9+	0.1+	2000 02 02	704	0.5+	0.4-	2000 03 09	704	0.5-	0.9+
1998 11 14	691	0.2-	0.4-	2000 02 02	691	0.8-	0.7-	2000 03 09	704	0.7+	0.1+
1998 11 14	691	0.2-	0.5-	2000 02 02	691	0.7-	0.8-	2000 03 09	704	1.1-	0.5-
1998 11 14	691	0.3-	0.2-	2000 02 11	691	0.1-	0.8-	2000 03 09	704	1.1+	0.6+
1998 11 18	704	0.5+	1.9+	2000 02 11	691	0.2-	0.7-	2000 03 09	704	1.0+	0.6+

1996 04 18	809	0.6+	0.3-	1998 12 12	691	0.7-	0.8-	2000 03 13	704	0.6-	0.2+
1997 09 07	910	0.5+	0.5+	1998 12 12	691	0.3-	0.4-	2000 03 13	704	1.1+	0.7+
1997 09 07	910	0.5+	0.5+	1998 12 22	691	0.4-	0.2-	2000 03 13	704	0.3+	0.5+
1997 09 07	910	0.6+	0.6+	1998 12 22	691	0.4+	0.2-				
1998 11 21	704	1.6+	0.5+	1998 12 22	691	0.0	0.0				

(14291)* 1104 T-1 = 1987 QO₇

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. D. W. E. Green (*MPC* 19319)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Green							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27273954	ω	73.40352	+0.39994818	-0.91619306		
<i>a</i>	2.3548901	Ω	352.86746	+0.74468860	+0.34082298		
<i>e</i>	0.1275696	<i>i</i>	11.67892	+0.53430360	+0.21078419		
<i>P</i>	3.61	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1971 03 24	675	0.6-	1.0-	1998 08 28	704	0.2-	1.1-	1998 10 18	704	0.7+	0.4+
1971 03 25	675	0.9-	0.3+	1998 08 28	704	0.1+	0.8+	1998 10 18	704	0.1+	0.3-
1971 03 25	675	1.0-	0.2+	1998 08 31	704	0.7+	1.4-	1998 10 18	704	0.1+	0.2+
1971 03 26	675	1.3+	0.1-	1998 08 31	704	0.4-	0.3-	1998 10 18	704	0.7-	0.7-
1971 03 27	675	0.2-	1.2-	1998 08 31	704	1.0+	0.8+	2000 02 10	704	1.4+	0.3+
1971 04 02	675	1.6-	0.8-	1998 08 31	704	0.2-	0.1-	2000 02 10	704	0.0	0.1+
1987 08 22	033	0.9+	0.2+	1998 08 31	704	1.3-	0.9-	2000 02 10	704	0.8+	0.0
1987 08 22	033	0.5+	0.8+	1998 10 02	704	0.0	0.2+	2000 03 04	703	0.0	0.1+
1987 08 23	033	1.3+	0.4+	1998 10 02	704	0.6+	0.3-	2000 03 04	703	0.3+	0.2-
1994 09 09	675	1.0-	1.7-	1998 10 02	704	0.2-	0.2-	2000 03 04	703	0.1-	0.4+
1994 09 09	675	0.6-	1.3+	1998 10 02	704	0.2+	0.0	2000 03 04	703	0.4+	0.6+
1998 08 28	704	0.2-	0.1+	1998 10 02	704	0.4-	0.4-	2000 03 09	704	0.0	0.1+
1998 08 28	704	0.2+	0.8+	1998 10 02	689	0.1-	0.4+	2000 03 09	704	0.4+	0.7+
1998 08 28	704	1.6-	0.1-	1998 10 18	704	0.1-	1.5+	2000 03 09	704	0.8+	0.9+

(14292)* 1148 T-1 = 1997 EM₅₅

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 30682)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30382270	ω	260.09145	-0.18850806	+0.98207141		
<i>a</i>	2.1914046	Ω	359.04204	-0.88450842	-0.17007888		
<i>e</i>	0.0971786	<i>i</i>	2.30923	-0.42674297	-0.08129524		
<i>P</i>	3.24	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1971 03 24	675	1.5+	1.1-	1998 09 26	704	1.6+	0.0	2000 02 29	704	0.0	0.2+
1971 03 25	675	0.1+	0.3-	1998 09 26	704	0.5+	1.4+	2000 02 29	704	0.1+	0.8+
1971 03 25	675	1.0-	0.8+	1998 09 26	704	1.3+	0.8+	2000 03 03	704	0.1-	0.3-
1971 03 26	675	0.5+	0.8-	1998 09 27	704	0.7-	0.5+	2000 03 03	704	0.1+	0.3+
1971 03 26	675	0.7+	0.2-	1998 09 27	704	0.8-	1.9+	2000 03 03	704	0.0	0.0
1971 03 27	675	2.2-	0.7-	1998 09 27	704	0.9-	0.3-	2000 03 03	704	0.0	0.2-
1971 03 27	675	0.5-	0.7+	1998 09 27	704	1.8-	0.9+	2000 03 03	704	0.1+	0.1+
1971 04 02	675	0.5+	0.7+	2000 02 02	703	1.1+	0.1+	2000 03 05	704	0.4+	1.1-
1997 03 08	809	0.4-	1.8+	2000 02 02	703	0.1+	0.3-	2000 03 05	704	0.0	0.3+
1997 03 08	809	0.1-	1.9+	2000 02 02	703	0.1-	0.1+	2000 03 05	704	0.8+	0.6-
1997 03 08	809	(0.2- 2.3+)		2000 02 02	703	0.5-	0.5-	2000 03 05	704	0.7+	0.1+
1997 03 09	809	(0.2+ 2.7+)		2000 02 04	704	0.2-	1.4+	2000 03 05	704	0.2+	0.2-
1997 03 09	809	(0.3- 2.6+)		2000 02 04	704	0.5-	0.0	2000 03 11	704	0.3-	0.4-
1997 03 09	809	(0.5- 2.1+)		2000 02 04	704	0.0	0.3-	2000 03 11	704	0.6-	0.6+
1997 03 10	809	0.1-	0.5+	2000 02 04	704	0.2-	0.6+	2000 03 11	704	0.4-	0.2+
1997 03 10	809	0.3+	0.5-	2000 02 04	704	0.7+	0.2+	2000 03 11	704	0.5-	0.7-
1997 03 10	809	0.6+	0.6-	2000 02 11	704	0.9+	1.4-	2000 03 11	704	0.8-	0.4+
1997 03 11	809	0.5+	0.7+	2000 02 11	704	0.9-	1.1-	2000 03 11	691	0.1-	0.2+
1997 03 11	809	0.5+	0.8+	2000 02 11	704	0.0	0.5-	2000 03 11	691	0.3-	0.1+
1997 03 11	809	0.7+	0.3-	2000 02 29	704	0.0	0.2+	2000 03 11	691	0.0	0.0

1998 09 26	704	1.4-	0.9-	2000 02 29	704	0.3-	0.4+
1998 09 26	704	1.1+	1.6-	2000 02 29	704	0.2-	0.2+

(14293)* 2307 T-1 = 1998 SV₁₃₃

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. A. Gnädig (*MPC* 33326)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23675162	ω	102.79428	-0.51901890	-0.85398395		
<i>a</i>	2.5878598	Ω	18.60903	+0.73318676	-0.46672980		
<i>e</i>	0.1058354	<i>i</i>	6.56432	+0.43938201	-0.22994500		
<i>P</i>	4.16	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1971 03 24	675	(0.9- 2.7-)	1998 09 26	704	1.3+	1.8-	2000 02 11	704	0.0	0.0	
1971 03 25	675	1.9- 0.5-	1998 09 26	704	0.3+	0.4-	2000 02 11	704	0.1+	0.2+	
1971 03 25	675	0.2+	0.6-	1998 09 26	704	0.7+	1.2+	2000 02 29	704	0.4-	0.5+
1971 03 26	675	1.2- 0.3+	1998 09 27	704	0.3-	0.2+	2000 02 29	704	0.0	0.5+	
1971 03 26	675	0.1- 1.9-	1998 09 27	704	0.1+	1.5+	2000 02 29	704	0.0	0.5-	
1971 03 26	675	0.3- 1.5-	1998 09 27	704	(0.3+ 3.4+)		2000 02 29	704	0.1+	0.5+	
1971 03 27	675	0.1- 0.8+	1998 09 27	704	1.5-	1.4+	2000 02 29	704	0.6+	0.5+	
1971 04 02	675	1.1+ 1.3+	1998 11 10	704	0.3-	0.2-	2000 03 02	703	0.3-	0.3+	
1971 04 16	675	1.6+ 2.1-	1998 11 10	704	1.1+	0.0	2000 03 02	703	0.5+	0.4+	
1971 04 16	675	0.4- 0.2-	1998 11 10	704	0.2-	1.5-	2000 03 02	703	0.7-	0.5-	
1971 05 13	675	0.2+ 0.7+	1998 11 10	704	1.8-	0.3+	2000 03 02	703	0.1-	0.3-	
1971 05 14	675	0.3- 0.4-	1998 11 11	704	1.2+	1.5-	2000 03 05	704	0.4+	0.4-	
1971 05 16	675	0.2- 2.4+	1998 11 11	704	0.4+	0.8-	2000 03 05	704	0.2+	0.0	
1996 03 22	691	0.2- 0.4-	1998 11 11	704	1.4+	0.8-	2000 03 05	704	0.5+	0.0	
1996 03 22	691	0.4- 0.5-	1998 11 11	704	0.2+	0.9+	2000 03 05	704	0.3-	0.3+	
1998 09 18	809	0.7+ 0.5+	2000 02 04	704	0.1-	0.1-	2000 03 05	704	0.4+	0.3-	
1998 09 18	809	0.7- 1.3-	2000 02 04	704	0.5+	0.3-	2000 03 12	704	0.0	0.7+	
1998 09 18	809	(2.6- 1.3-)	2000 02 04	704	0.2-	0.4-	2000 03 12	704	0.1+	0.1+	
1998 09 20	809	0.8+ 0.9+	2000 02 04	704	0.7-	0.6+	2000 03 12	704	0.2-	0.5+	
1998 09 20	809	1.5- 0.0	2000 02 04	704	0.1+	0.5+	2000 03 12	704	0.0	0.6+	
1998 09 20	809	0.7- 0.2-	2000 02 11	704	0.0	0.2-	2000 03 12	704	0.4+	0.8+	
1998 09 26	704	0.4- 0.2-	2000 02 11	704	0.4+	0.9-					
1998 09 26	704	0.5- 1.3+	2000 02 11	704	0.2+	0.1-					

(14294)* 3306 T-1 = 1994 SD₁₀

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 24236)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26759033	ω	136.17031	+0.55993340	+0.82848850		
<i>a</i>	2.3850040	Ω	167.87160	-0.77150656	+0.52533015		
<i>e</i>	0.2111214	<i>i</i>	2.46089	-0.30207981	+0.19399751		
<i>P</i>	3.68	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1971 03 24	675	0.6+	1.0-	1998 11 11	699	0.1-	1.5+	2000 02 06	704	1.3+	0.3+
1971 03 25	675	1.2-	1.6-	1998 11 11	699	1.4+	0.1-	2000 02 06	704	0.6+	1.1+
1971 03 26	675	0.5-	1.8-	1998 11 16	566	0.9-	0.5-	2000 02 08	704	(2.5+	2.3-)
1971 03 26	675	0.3+	0.3-	1998 11 16	566	0.9-	0.9-	2000 02 08	704	0.3-	0.9-
1971 03 27	675	(0.4-	3.1-)	1998 11 16	566	1.1-	1.0-	2000 02 08	704	1.6+	1.2-
1971 04 02	675	0.6-	0.7+	1998 11 18	704	0.4+	1.0+	2000 02 08	704	0.7+	0.1+
1994 09 28	691	0.3-	0.0	1998 11 18	704	0.4+	0.9-	2000 02 11	691	0.4-	0.5-
1994 09 28	691	0.0	0.2-	1998 11 18	704	1.2+	0.7-	2000 02 11	691	0.3-	0.4-
1994 09 28	691	0.0	0.1-	1998 11 18	704	0.5+	0.7-	2000 02 11	691	0.4-	0.3-
1994 10 01	675	0.5-	1.9+	1998 11 18	704	0.7+	1.0+	2000 02 26	691	0.1-	0.4-
1994 10 04	691	0.1-	0.2+	1998 11 21	704	1.3-	0.1+	2000 02 26	691	0.0	0.3-
1994 10 04	691	0.2-	0.0	1998 11 21	704	0.9+	0.7+	2000 02 26	691	0.1+	0.3-
1994 10 12	691	0.2-	0.7+	1998 11 21	704	0.6-	0.7-	2000 02 29	704	0.4+	0.3-
1994 10 12	691	0.2-	0.1+	1998 11 21	704	(2.1-	3.2+)	2000 02 29	704	0.9+	0.1-

1994 10 12	691	0.0	0.0	1998 11 23	699	0.7+	0.5-	2000 02 29	704	0.0	0.6-
1995 12 18	691	0.2-	0.2-	1998 11 23	699	1.2+	0.1+	2000 02 29	704	0.2+	0.4+
1995 12 18	691	0.2-	0.1+	1998 11 23	699	0.2+	1.4+	2000 03 03	704	0.6-	0.0
1995 12 18	691	0.1-	0.3+	1998 11 24	704	0.0	1.0-	2000 03 03	704	0.2+	0.7-
1995 12 28	691	0.2-	0.1+	1998 11 24	704	0.9-	0.8+	2000 03 03	704	0.8+	1.4+
1995 12 28	691	0.3-	0.1+	1998 11 24	704	1.7+	1.9-	2000 03 03	704	0.1-	0.5+
1995 12 28	691	0.3-	0.2+	1998 11 24	704	0.4-	0.7-	2000 03 03	704	0.3-	0.3+
1995 12 28	691	0.3-	0.2+	2000 02 02	691	0.4-	0.2-	2000 03 05	704	1.1-	0.7+
1995 12 28	691	0.5+	1.0+	2000 02 02	691	0.6-	0.3-	2000 03 05	704	0.7+	0.6+
1995 12 28	691	0.2-	0.2-	2000 02 02	691	0.6-	0.1-	2000 03 05	704	0.2-	1.3+
1998 10 29	704	0.2+	0.1+	2000 02 02	704	0.2-	1.4+	2000 03 05	704	1.0-	0.0
1998 10 29	704	(2.5-	1.5-)	2000 02 02	704	0.7+	0.2+	2000 03 09	704	0.2-	0.6+
1998 10 29	704	0.0	0.6-	2000 02 02	704	0.1-	0.4+	2000 03 09	704	0.2+	0.8+
1998 10 29	704	0.3-	1.1-	2000 02 02	704	0.1-	0.5+	2000 03 09	704	0.2-	0.8+
1998 10 29	704	1.3-	1.0-	2000 02 06	704	0.1+	0.8-	2000 03 09	704	0.5-	0.1+
1998 11 11	699	0.6+	0.2+	2000 02 06	704	(2.3+	1.5-)	2000 03 09	704	0.9+	0.6+

(14295)* 4161 T-1 = 1989 TC₁₇ = 1993 SW₁₄

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. E. Bowell (*MPC* 28880), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	214.07381		(2000.0)		P		Q			
n	0.23678896	ω	142.89099		+0.82630988		+0.56306430			
a	2.5875878	Ω	182.93463		-0.55829360		+0.81580925			
e	0.1432351	i	14.77939		-0.07429822		+0.13196157			
P	4.16	H	13.0	G	0.15	U	1			
Residuals in seconds of arc										
1971 03 24	675	(2.7- 0.7+)	1996 02 15	566	0.9-	0.4-	2000 02 08	704	0.1-	1.1+
1971 03 24	675	0.7- 0.5+	1996 02 15	566	0.0	0.0	2000 02 08	704	0.2-	0.3-
1971 03 25	675	(2.3- 2.6+)	1996 02 15	566	0.1+	0.1+	2000 02 08	704	0.2+	0.2+
1971 03 26	675	(0.3+ 2.7-)	1996 03 19	566	0.2-	0.7-	2000 02 28	106	0.2+	0.8+
1971 03 26	675	0.3- 1.2-	1996 03 19	566	0.2-	0.5-	2000 02 28	106	0.0	0.5-
1971 03 27	675	1.1+ 2.3-	1996 03 19	566	0.4-	0.7-	2000 02 28	106	0.2-	0.0
1971 04 02	675	0.7+ 0.0	1997 08 04	127	0.0	0.2+	2000 03 01	703	0.2+	0.3+
1971 04 16	675	0.7+ 1.6-	1997 08 04	127	0.1+	0.0	2000 03 01	703	0.2-	0.5+
1971 04 16	675	1.1- 1.8-	1997 08 05	127	0.3-	0.3+	2000 03 01	703	0.1+	0.6+
1971 05 13	675	0.6- 0.4-	1997 08 05	127	0.3-	0.3+	2000 03 01	703	0.1+	0.6+
1971 05 14	675	1.4- 0.3-	1997 08 06	127	0.0	0.4+	2000 03 08	704	0.8+	0.3+
1971 05 16	675	0.2+ 0.3-	1997 08 06	127	0.4-	0.2+	2000 03 08	704	0.8+	0.2-
1989 09 30	675	0.2- 0.3-	1998 12 19	704	1.0+	0.1+	2000 03 08	704	0.2+	0.7-
1989 09 30	675	0.0 0.6+	1998 12 19	704	0.4-	0.2+	2000 03 08	704	0.3+	0.3-
1989 10 09	809	0.1+ 1.0-	1998 12 19	704	0.3+	0.5-	2000 03 11	704	0.2+	0.4+
1989 10 09	809	0.3+ 1.0-	1998 12 19	704	0.7-	0.5-	2000 03 11	704	0.1+	0.3+
1989 10 09	809	0.5+ 1.0-	1998 12 30	611	0.6-	0.1+	2000 03 11	704	0.3+	0.6+
1989 10 10	809	(5.1- 22.1-)	1998 12 30	611	0.8-	0.4+	2000 03 11	704	0.3+	0.7+
1989 10 10	809	(5.3- 22.8-)	1998 12 30	611	0.0	0.4-	2000 03 11	704	0.3+	0.5+
1993 09 20	675	0.5+ 0.3-	2000 02 08	704	0.3-	0.5+				
1993 09 20	675	0.4+ 1.4-	2000 02 08	704	0.0	0.2-				

(14296)* 4298 T-1 = 1982 FW = 1990 OY₂

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 19327)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	239.37152		(2000.0)		P		Q				
<i>n</i>	0.26937415	ω	154.96832		+0.35231409		+0.93505398				
<i>a</i>	2.3744631	Ω	135.63190		−0.86784927		+0.34215419				
<i>e</i>	0.1639358	<i>i</i>	3.22637		−0.35030335		+0.09276082				
<i>P</i>	3.66	<i>H</i>	14.9		<i>G</i>	0.15	<i>U</i>	1			
Residuals in seconds of arc											
1971 03 24	675	0.5+	1.6−	1997 05 29	596	0.2+	0.2−	2000 02 29	704	1.1+	0.5+
1971 03 26	675	1.2−	1.4−	1997 05 29	596	0.4+	0.2−	2000 02 29	704	0.1−	0.0

1971 03 26	675	1.6-	2.0-	1997 05 29	596	1.6+	0.5-	2000 03 03	704	0.2-	0.4+
1971 03 27	675	1.9-	2.1-	1998 12 12	691	0.7+	0.2-	2000 03 03	704	0.0	0.3+
1971 04 02	675	1.4+	0.3-	1998 12 12	691	1.1+	0.3-	2000 03 03	704	0.4+	0.3+
1971 04 16	675	1.4+	1.3-	1998 12 22	691	0.1+	0.6-	2000 03 03	704	0.2+	0.3+
1971 04 16	675	(4.2+	0.7-)	1998 12 22	691	0.4+	0.8-	2000 03 03	704	0.5+	0.1+
1982 03 23	801	1.4-	1.5+	1998 12 22	691	0.6+	0.6-	2000 03 05	704	(0.4+	2.5-)
1990 07 30	372	(4.6-	1.1-)	1998 12 26	691	0.6+	0.7-	2000 03 05	704	1.2-	0.3-
1990 07 30	372	0.0	0.1-	1998 12 26	691	0.2+	1.2-	2000 03 05	704	0.1-	0.9+
1990 07 31	372	(1.5+	2.7+)	1998 12 26	691	0.2+	0.7-	2000 03 05	704	(1.4-	3.0+)
1990 07 31	372	(0.7+	3.6+)	2000 02 04	704	0.0	0.7+	2000 03 06	704	0.2+	0.5+
1990 08 15	372	0.8+	1.8-	2000 02 04	704	0.3-	0.1+	2000 03 06	704	1.1-	0.3+
1990 08 15	372	1.2-	0.1-	2000 02 04	704	0.7+	0.5-	2000 03 06	704	0.0	0.3+
1990 08 18	372	1.3-	0.2+	2000 02 11	704	(1.7-	2.8+)	2000 03 06	704	0.8-	0.1+
1990 08 18	372	(1.6+	3.0+)	2000 02 11	704	0.2-	0.3+	2000 03 11	704	0.2+	0.6-
1990 08 20	372	(3.5+	3.5+)	2000 02 11	704	0.8-	0.0	2000 03 11	704	0.0	0.1-
1993 03 19	809	0.0	0.0	2000 02 29	704	0.1-	0.3-	2000 03 11	704	0.1+	0.6+
1993 03 20	809	0.2+	0.2+	2000 02 29	704	0.3-	0.2+	2000 03 11	704	0.1+	0.7+
1993 03 24	809	0.4-	0.6-	2000 02 29	704	0.9+	0.7+	2000 03 11	704	0.0	0.6+

(14297)* 2124 T-2 = 1991 RS₁₄

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. E. Bowell (*MPC* 19690)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	105.12944		(2000.0)			P		Q			
<i>n</i>	0.27331175	ω	95.75163			+0.92624774		-0.37594720			
<i>a</i>	2.3516021	Ω	286.33360			+0.33372410		+0.85129409			
<i>e</i>	0.1629549	<i>i</i>	1.61207			+0.17519518		+0.36600829			
<i>P</i>	3.61	<i>H</i>	15.3			<i>G</i>	0.15	<i>U</i>	2		
Residuals in seconds of arc											
1973 09 20	675	0.9-	2.1+	1998 08 23	704	1.4-	1.0+	2000 03 04	704	0.5+	0.4+
1973 09 24	675	1.7-	0.9+	1998 08 23	704	(0.8-	3.2+)	2000 03 04	704	0.6+	0.5+
1973 09 24	675	1.1-	1.3+	1998 08 23	704	0.1-	1.0+	2000 03 04	704	0.2+	1.1+
1973 09 25	675	1.4-	0.9-	1998 08 27	699	1.0-	1.0+	2000 03 04	704	0.0	0.4+
1973 09 25	675	1.1-	1.0-	1998 08 27	699	0.5+	1.5+	2000 03 05	704	0.5+	0.5+
1973 09 29	675	0.4+	1.5+	1998 08 27	699	0.6+	0.8+	2000 03 05	704	0.7-	0.1+
1973 09 29	675	0.1+	1.0+	2000 02 04	725	0.8+	0.1-	2000 03 05	704	0.3+	0.2+
1973 09 30	675	0.1-	0.6-	2000 02 04	725	0.3+	0.8+	2000 03 05	704	0.5-	0.4+
1973 09 30	675	0.7+	0.6-	2000 02 05	725	0.0	0.1+	2000 03 05	704	0.5+	0.5+
1973 10 04	675	1.8+	1.9-	2000 02 05	725	1.2+	0.2+	2000 03 06	704	0.5-	0.2-
1973 10 04	675	1.7+	0.3-	2000 02 05	725	(3.4+	3.3-)	2000 03 06	704	0.4+	0.1-
1973 10 05	675	0.1+	0.2-	2000 02 08	691	0.1+	0.5-	2000 03 06	704	0.4-	0.2-
1973 10 05	675	1.1+	0.2-	2000 02 08	691	0.1+	0.6-	2000 03 06	704	0.1+	0.3+
1991 09 13	675	0.2+	0.1-	2000 02 08	691	0.1+	0.5-	2000 03 06	704	0.7+	0.3+
1991 09 13	675	0.3-	0.2+	2000 02 29	704	0.5+	0.9+	2000 03 09	691	0.3-	0.1-
1991 09 15	675	0.7+	0.5+	2000 02 29	704	0.7-	1.4+	2000 03 09	691	0.5-	0.1-
1991 09 15	675	1.3-	0.2-	2000 02 29	704	0.0	0.8+	2000 03 09	691	0.3-	0.4+
1991 09 15	675	0.7+	1.6-	2000 02 29	704	0.6-	0.1-				
1991 09 15	675	0.0	0.8+	2000 03 04	704	0.2-	0.2+				

1973 09 20	675	1.9–	1.4–	1993 08 20	809	0.1–	0.4–	2000 02 29	704	0.0	0.2+
1973 09 24	675	(3.7–	0.7+)	1993 08 20	809	0.7–	0.2–	2000 02 29	704	1.0+	0.2+
1973 09 24	675	(3.7–	0.1+)	1993 08 24	809	0.4+	0.1+	2000 02 29	704	0.3–	0.4–
1973 09 25	675	1.5–	1.4–	1993 08 24	809	0.1–	0.1–	2000 03 08	704	1.2+	0.0
1973 09 25	675	0.2–	1.2–	1993 08 24	809	0.2+	0.0	2000 03 08	704	1.1+	1.1+
1973 09 29	675	0.4+	2.0+	1993 09 19	010	1.7+	0.8+	2000 03 08	704	1.3+	1.4–
1973 09 29	675	0.6–	1.6+	1993 09 19	010	1.9+	1.4+	2000 03 08	704	0.4+	1.3+
1973 09 30	675	0.7+	0.0	1993 09 20	010	0.2+	0.1–	2000 03 08	704	0.4+	0.1+
1973 09 30	675	0.9+	1.1–	1993 09 20	010	0.1+	0.6–	2000 03 10	704	0.5–	0.1–
1973 10 04	675	1.4+	0.8–	1993 09 20	010	(0.8–	2.6+)	2000 03 10	704	0.1–	0.4+
1973 10 04	675	2.2+	0.6–	1996 03 21	566	1.1–	1.9–	2000 03 10	704	0.1–	0.7+
1973 10 05	675	0.2+	1.3–	1996 03 21	566	0.8–	1.7–	2000 03 10	704	0.1+	0.5+
1973 10 05	675	2.2+	0.9–	1996 03 21	566	0.3–	1.4–	2000 03 11	704	0.1+	0.3+
1989 09 29	675	1.0–	0.1+	2000 02 08	704	0.9+	0.5+	2000 03 11	704	0.4–	0.2+
1989 09 29	675	1.6–	1.3+	2000 02 08	704	0.6+	1.1–	2000 03 11	704	0.4+	0.6+
1992 03 25	691	1.0–	1.5–	2000 02 08	704	0.0	0.8–	2000 03 11	704	0.1–	0.6+
1992 03 25	691	1.0–	1.5–	2000 02 08	704	0.3–	1.7–	2000 03 11	704	0.1+	1.1+
1993 08 15	809	1.0–	0.2–	2000 02 11	704	0.8+	0.0	2000 03 14	703	0.3–	0.2+
1993 08 15	809	1.0–	0.0	2000 02 11	704	0.1+	0.3+	2000 03 14	703	0.8–	0.1+
1993 08 15	809	1.0–	0.2+	2000 02 11	704	0.8–	0.2+	2000 03 14	703	0.5–	0.4+
1993 08 18	010	(1.7–	3.3–)	2000 02 27	703	0.4–	0.4+	2000 03 14	703	0.9–	0.1–
1993 08 19	010	(0.7–	4.7–)	2000 02 27	703	1.2–	0.6+				
1993 08 19	010	(1.7–	3.7–)	2000 02 27	703	0.9+	0.5+				

(14299)* 3162 T-2

Discovered 1973 Sept. 30 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	133.58878		(2000.0)		P		Q
n	0.23929700	ω	215.32793		+0.90740217		-0.41781555
a	2.5694759	Ω	169.08629		+0.41912324		+0.89173647
e	0.1826511	i	13.84097		+0.03093560		+0.17388566
P	4.12	H	12.8	G	0.15	U	2

Residuals in seconds of arc

1973 09 19	675	0.4+	0.7–	1998 11 16	566	0.7–	0.2–	2000 03 03	704	0.1–	0.4+
1973 09 19	675	0.8+	0.0	1998 11 21	703	0.1+	0.3–	2000 03 05	608	0.2–	1.3–
1973 09 20	675	0.5+	0.0	1998 11 21	703	0.4–	0.3–	2000 03 05	608	0.1–	1.3–
1973 09 24	675	0.3+	1.2–	1998 11 21	703	0.2+	0.1–	2000 03 05	608	0.1–	1.2–
1973 09 24	675	0.3–	1.4–	1998 12 17	327	(1.8+	2.9–)	2000 03 08	704	0.3–	0.6–
1973 09 25	675	0.2+	1.4–	1998 12 17	327	0.5+	0.0	2000 03 08	704	0.7–	0.6–
1973 09 25	675	0.7+	1.1–	1998 12 17	327	0.4+	0.2+	2000 03 08	704	0.3+	0.8–
1973 09 29	675	1.2–	0.4+	1999 02 04	704	(2.4–	3.2+)	2000 03 08	704	0.3–	0.3+
1973 09 29	675	1.2–	0.8+	1999 02 04	704	0.8+	0.1–	2000 03 08	704	0.7–	0.3+
1973 09 30	675	0.4+	0.0	1999 02 04	704	(2.2–	1.6+)	2000 03 11	704	0.1–	0.3+
1973 09 30	675	0.3+	0.0	1999 02 04	704	0.7–	0.0	2000 03 11	699	1.0+	0.1–
1973 10 04	675	0.7–	2.3+	2000 02 08	704	0.1+	0.3–	2000 03 11	699	0.7–	1.3+
1973 10 04	675	0.0	1.6+	2000 02 08	704	0.3+	0.3+	2000 03 11	704	0.1+	0.3–
1981 07 26	413	0.1–	1.0+	2000 02 08	704	0.2+	0.4+	2000 03 11	704	0.1+	0.0
1981 07 26	413	0.3–	1.4+	2000 02 08	704	0.1–	0.6+	2000 03 11	699	0.1+	0.3+
1998 10 12	699	0.5+	0.3+	2000 02 08	704	0.0	0.3+	2000 03 11	699	0.1–	0.3+
1998 10 12	699	0.4+	0.6+	2000 02 27	703	0.2–	0.3+	2000 03 11	704	0.4+	0.1+
1998 10 12	699	0.2+	0.6+	2000 02 27	703	0.4+	0.8+	2000 03 11	699	0.3+	0.4+
1998 11 13	704	(3.4–	1.1+)	2000 02 27	703	0.1+	0.0	2000 03 11	699	0.4+	0.1+
1998 11 13	704	0.8+	0.8+	2000 02 27	703	0.3–	0.6+	2000 03 11	704	0.3+	0.0
1998 11 13	704	0.3–	0.5+	2000 03 03	704	0.2–	0.1–	2000 03 11	699	0.4+	0.5+
1998 11 13	704	0.7–	0.1–	2000 03 03	704	0.3–	0.0	2000 03 11	699	0.5+	0.4+
1998 11 16	566	0.5–	0.1–	2000 03 03	704	0.1+	0.4+				
1998 11 16	566	0.5–	0.0	2000 03 03	704	0.1+	0.6+				

(14300)* 3336 T-2 = 1980 PJ₄

Discovered 1973 Sept. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. E. Bowell (*MPC* 18134)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	106.42877		(2000.0)		P		Q
n	0.27415629	ω	231.05071		+0.87900157		-0.47567993
a	2.3467702	Ω	157.29529		+0.45961281		+0.82686998
e	0.2066308	i	4.89516		+0.12693426		+0.30002441
P	3.60	H	14.7	G	0.15	U	1

Residuals in seconds of arc

1973 09 19	675	0.2+	0.7–	1998 08 17	704	0.2+	0.9+	2000 02 11	704	0.1–	0.7+
1973 09 19	675	0.0	0.4–	1998 08 19	566	0.5–	0.5–	2000 02 11	704	0.4–	0.4+
1973 09 20	675	1.0+	0.2–	1998 08 19	566	0.2–	0.5–	2000 02 11	704	0.0	0.4+
1973 09 24	675	0.3+	0.3–	1998 08 19	566	0.7–	0.3–	2000 02 11	704	0.0	0.2+
1973 09 24	675	0.8+	0.6–	1998 08 23	704	0.3+	0.5+	2000 02 11	704	1.0–	0.4+
1973 09 25	675	1.2+	1.9–	1998 08 23	704	0.0	0.2–	2000 02 11	691	0.1–	0.6–
1973 09 25	675	0.6+	2.0–	1998 08 23	704	0.3+	0.8–	2000 02 11	691	0.0	0.6–
1980 08 04	675	1.3–	0.3+	1998 08 23	704	0.3+	0.4+	2000 02 11	691	0.3–	0.7–
1980 08 05	675	1.5–	1.2+	1998 08 23	704	0.3+	1.1+	2000 02 25	703	0.3–	0.4+
1991 09 10	033	1.0–	0.7+	2000 02 01	703	0.7+	0.3–	2000 02 25	703	0.5–	1.0+
1991 09 10	033	0.0	0.5+	2000 02 01	703	0.9–	0.1–	2000 02 25	703	0.6–	0.6+
1991 09 10	675	0.1+	1.0+	2000 02 01	703	0.3+	1.2+	2000 02 25	703	1.7–	0.0
1991 09 10	675	(2.6–	0.3+)	2000 02 01	703	0.1+	0.7+	2000 02 29	704	0.4+	0.3+
1991 09 13	033	0.9–	0.4+	2000 02 02	704	0.4+	0.1+	2000 02 29	704	0.3–	0.7+
1991 09 15	675	0.5+	0.6+	2000 02 02	704	0.4+	0.8+	2000 02 29	704	0.3–	0.2–
1991 09 15	675	(2.3–	0.7+)	2000 02 02	704	1.2+	0.4–	2000 02 29	704	0.6+	0.8+
1991 09 17	675	1.8–	0.6+	2000 02 02	704	0.6–	1.1–	2000 02 29	704	0.7–	0.4+
1991 09 17	675	1.2–	0.1+	2000 02 02	704	0.7+	0.9–	2000 03 03	704	0.4–	0.2+
1991 09 17	675	0.5+	0.8+	2000 02 06	704	0.8+	0.5+	2000 03 03	704	0.2+	0.1–
1991 09 17	675	0.6–	0.8+	2000 02 06	704	1.1+	0.8–	2000 03 03	704	0.1–	0.1–
1991 10 02	675	0.0	0.3+	2000 02 06	704	0.0	0.1+	2000 03 03	704	0.0	0.3–
1991 10 02	675	0.5–	0.5+	2000 02 07	691	0.0	0.7–	2000 03 03	704	0.0	0.1–
1991 10 07	675	0.9+	0.1+	2000 02 07	691	0.2+	0.7–	2000 03 11	704	0.2–	0.1–
1991 10 07	675	0.1–	0.6+	2000 02 07	691	0.1+	0.7–	2000 03 11	704	0.3+	0.0
1991 10 08	675	0.4–	0.5+	2000 02 08	704	0.1+	0.8+	2000 03 11	704	0.2+	0.2–
1998 08 17	704	0.1+	0.1–	2000 02 08	704	0.4+	0.4+	2000 03 11	704	0.8+	0.8+
1998 08 17	704	0.6+	0.3+	2000 02 08	704	0.0	0.2+	2000 03 11	704	0.0	0.2+
1998 08 17	704	0.3+	0.2+	2000 02 08	704	1.0+	0.4+				
1998 08 17	704	1.0+	0.3+	2000 02 08	704	0.3+	0.9+				

(14301)* 5205 T-2 = 1993 BF₁₃ = 1998 OH₈

Discovered 1973 Sept. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 32505), M. E. Sansaturio (*MPC* 34569)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	323.33937		(2000.0)		P		Q
n	0.27205792	ω	217.35183		-0.87671076		-0.47211642
a	2.3588218	Ω	294.23515		+0.46210662		-0.77349078
e	0.0342235	i	5.79750		+0.13355046		-0.42286889
P	3.62	H	14.2	G	0.15	U	2

Residuals in seconds of arc

1973 09 25	675	(5.5+ 3.8-)	1998 08 17	704	0.2- 0.5+	2000 01 04	704	0.3- 0.0
1973 09 25	675	(4.8+ 2.9-)	1998 08 17	704	0.2- 0.3-	2000 01 04	704	0.1+ 0.1-
1973 09 29	675	(2.9+ 2.9-)	1998 08 17	704	0.7+ 0.9-	2000 01 04	704	0.3- 0.1-
1973 09 29	675	(4.1+ 1.6-)	1998 08 23	704	0.0 0.3+	2000 01 25	704	0.4+ 0.0
1973 09 30	675	(3.5+ 2.5-)	1998 08 23	704	1.0+ 1.4-	2000 01 25	704	0.3- 0.1-
1973 09 30	675	(4.4+ 1.5-)	1998 08 23	704	1.2- 0.7+	2000 01 25	704	0.2+ 0.1-
1973 10 04	675	0.6+ 1.6-	1998 08 23	704	0.2+ 1.7-	2000 01 25	704	0.7+ 1.3-
1973 10 04	675	0.2+ 0.3+	1998 08 23	704	(2.8- 3.9-)	2000 01 25	704	0.1+ 0.5-
1973 10 05	675	0.3+ 0.7-	1999 12 15	704	0.2+ 0.8+	2000 01 30	704	0.2- 0.9+
1973 10 05	675	0.1- 0.0	1999 12 15	704	1.4+ 0.5-	2000 01 30	704	0.2+ 0.7+
1993 01 22	809	0.2+ 1.6-	1999 12 15	704	0.6- 0.4-	2000 01 30	704	0.0 0.4+
1993 01 22	809	0.1+ 1.6-	1999 12 15	704	0.1- 0.0	2000 01 30	704	0.0 0.7+
1993 01 22	809	0.2- 1.6-	1999 12 29	106	0.3- 0.3+	2000 01 30	704	0.0 0.4+
1993 01 28	809	0.1- 1.1-	1999 12 29	106	0.4+ 0.4+	2000 01 31	704	0.2- 0.9+
1993 01 28	809	1.5- 1.8-	1999 12 29	106	0.2+ 0.3-	2000 01 31	704	0.5+ 0.6+

1993 01 28	809	1.9−	1.2−	2000 01 01	106	0.0	0.2+	2000 01 31	704	0.3+	0.5+
1998 07 26	809	(2.8+	4.6+)	2000 01 01	106	0.5+	0.6+	2000 01 31	704	0.1+	1.1+
1998 07 26	809	(2.5+	3.3+)	2000 01 01	106	0.1−	0.2+	2000 03 04	704	0.0	0.9+
1998 07 26	809	(2.1+	4.1+)	2000 01 03	704	0.1−	0.8+	2000 03 04	704	0.9−	0.5+
1998 07 27	809	(1.6+	3.4+)	2000 01 03	704	0.6−	1.4+	2000 03 04	704	0.2−	0.2+
1998 07 27	809	(1.2+	3.6+)	2000 01 03	704	0.2+	1.0−	2000 03 04	704	0.3−	0.4+
1998 07 27	809	(1.4+	3.1+)	2000 01 03	704	0.3+	0.1−	2000 03 04	704	1.2−	0.1+
1998 08 17	704	0.8+	0.1−	2000 01 03	704	0.2+	1.0−				
1998 08 17	704	0.2−	0.4+	2000 01 04	704	0.5−	0.1−				

(14302)* 5482 T-2 = 1980 TZ₄

Discovered 1973 Sept. 30 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. T. Kobayashi (*MPC* 15259)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	231.12049		(2000.0)	Williams							
		<i>P</i>		<i>Q</i>							
<i>n</i>	0.28181070	ω	6.01511	+0.78196666	+0.61750834						
<i>a</i>	2.3040809	Ω	315.47563	−0.57681471	+0.66524051						
<i>e</i>	0.2000026	<i>i</i>	6.95594	−0.23624760	+0.41968860						
<i>P</i>	3.50	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2				

Residuals in seconds of arc

1973 09 29	675	0.0	0.3+	1998 12 14	704	0.2−	1.6−	1999 01 16	704	1.7+	0.4−
1973 09 29	675	0.2+	0.2+	1998 12 14	704	0.4−	1.2+	2000 02 10	704	0.4−	1.0−
1973 09 30	675	0.9+	0.1+	1998 12 14	704	0.5+	0.8+	2000 02 10	704	0.0	1.8−
1973 09 30	675	0.5+	1.0+	1998 12 14	704	0.5−	0.4+	2000 02 10	704	0.0	1.4−
1973 10 04	675	0.3−	0.1+	1998 12 17	704	0.8−	0.8−	2000 03 09	704	0.3−	0.4−
1973 10 04	675	1.4−	0.4−	1998 12 17	704	1.3−	0.7+	2000 03 09	704	0.7−	1.3+
1973 10 05	675	0.8−	0.2+	1998 12 17	704	1.2+	1.8−	2000 03 09	704	0.7−	0.6+
1973 10 05	675	0.4+	0.4−	1998 12 17	704	0.0	0.9+	2000 03 13	704	0.3+	0.6+
1980 10 07	675	0.5−	1.0+	1999 01 16	704	0.0	0.5+	2000 03 13	704	0.2−	0.2+
1980 10 08	675	1.9+	2.0−	1999 01 16	704	0.3−	1.0+	2000 03 13	704	0.1−	0.4−
1980 10 09	675	1.4−	0.6−	1999 01 16	704	0.5+	0.7+	2000 03 13	704	0.2+	0.3−
1980 10 10	675	1.6+	2.1−	1999 01 16	704	(2.1−	3.1+)	2000 03 13	704	0.1+	1.0−

(14303)* 1144 T-3 = 1992 RD₄

Discovered 1977 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 21127)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	101.84654		(2000.0)	Marsden							
		<i>P</i>		<i>Q</i>							
<i>n</i>	0.19219580	ω	76.46861	+0.59239113	−0.80347750						
<i>a</i>	2.9737659	Ω	336.89409	+0.66857236	+0.53122648						
<i>e</i>	0.0569556	<i>i</i>	8.66646	+0.44953725	+0.26874214						
<i>P</i>	5.13	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1				

Residuals in seconds of arc

1977 10 11	675	0.2−	2.0+	1998 11 16	704	1.7−	0.6−	2000 02 26	703	0.2+	0.7−
1977 10 11	675	0.1−	1.9+	1998 11 16	704	(0.8−	2.1+)	2000 02 26	703	0.1−	0.5+
1977 10 12	675	0.3−	1.5+	1998 12 14	704	0.7+	0.5−	2000 02 26	703	0.2−	0.5+
1977 10 12	675	0.3+	2.0+	1998 12 14	704	1.2+	0.1+	2000 02 29	704	0.0	0.0
1977 10 16	675	1.9−	0.9+	1998 12 14	704	0.1+	0.9+	2000 02 29	704	0.2−	0.1+
1977 10 16	675	0.3−	1.3+	1998 12 17	704	0.3+	0.5+	2000 02 29	704	0.1−	0.4+
1977 10 17	675	0.7−	1.0−	1998 12 17	704	0.9+	0.5−	2000 02 29	704	0.3−	0.4+
1977 10 17	675	0.7−	0.0	1998 12 17	704	(2.2−	1.5−)	2000 03 03	704	0.0	0.2+
1977 10 22	675	0.0	1.5−	1998 12 17	704	1.1+	1.8−	2000 03 03	704	0.3+	0.3+
1977 10 22	675	(2.2+	3.9−)	1998 12 17	704	0.3+	0.5−	2000 03 03	704	0.3−	0.4+
1992 09 02	809	(2.4+	0.9+)	2000 02 02	704	0.8+	0.9−	2000 03 03	704	0.1+	0.7+
1992 09 02	809	1.1+	0.5+	2000 02 02	704	0.2+	0.1+	2000 03 03	704	0.2+	1.4+
1992 09 02	809	1.3+	0.6+	2000 02 02	704	1.1−	0.1−	2000 03 04	704	0.3+	0.0
1992 09 03	809	0.9+	0.0	2000 02 02	704	0.1+	0.9−	2000 03 04	704	0.3−	0.4+
1992 09 22	809	0.5−	1.6−	2000 02 06	704	0.3+	0.4+	2000 03 04	704	0.1+	0.2+
1992 09 22	809	0.7−	1.6−	2000 02 06	704	0.4+	0.7+	2000 03 04	704	0.4−	0.4+
1992 09 22	809	0.7−	1.1−	2000 02 06	704	1.3−	0.9+	2000 03 04	704	0.4−	0.3+
1992 09 23	809	0.2−	0.0	2000 02 06	704	0.3+	0.9+	2000 03 05	704	0.0	0.3−

1992 09 23	809	0.5+	0.5+	2000 02 08	691	0.3−	0.5−	2000 03 05	704	0.1+	0.4−
1992 09 23	809	0.1+	0.5−	2000 02 08	691	0.5−	0.2−	2000 03 05	704	0.2+	0.1−
1998 11 14	704	(1.6−	2.8−)	2000 02 08	691	0.5−	0.5−	2000 03 05	704	0.7+	1.3−
1998 11 14	704	0.6−	0.5+	2000 02 11	704	0.5+	0.4+	2000 03 05	704	0.9+	0.6−
1998 11 14	704	0.9−	0.2−	2000 02 11	704	0.1+	0.0	2000 03 11	704	0.0	0.1+
1998 11 14	704	(3.1−	0.8−)	2000 02 11	704	0.7−	0.0	2000 03 11	704	0.6+	0.7−
1998 11 16	704	1.0−	1.0−	2000 02 11	704	0.1+	0.8+	2000 03 11	704	0.8+	0.9−
1998 11 16	704	(2.4−	0.7+)	2000 02 11	704	0.0	0.9+	2000 03 11	704	0.4−	0.7−
1998 11 16	704	0.1+	1.7−	2000 02 26	703	0.5+	1.1+	2000 03 11	704	0.9+	1.0−

(14304)* 3417 T-3 = 1987 AM = 1998 WN

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. A. Gnädig (*MPC* 33537)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	56.94854		(2000.0)	Williams							
		<i>P</i>		<i>Q</i>							
<i>n</i>	0.23949435	ω	106.47800	−0.64558255	−0.75442527						
<i>a</i>	2.5680642	Ω	24.96610	+0.54843405	−0.56606326						
<i>e</i>	0.1208122	<i>i</i>	16.31902	+0.53145391	−0.33228738						
<i>P</i>	4.12	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1				

Residuals in seconds of arc

1977 10 07	675	1.1−	1.2−	1998 11 14	704	1.0+	0.3−	1998 12 16	012	0.5−	0.4+
1977 10 11	675	2.2−	0.9+	1998 11 14	704	0.2+	0.7−	1998 12 16	012	0.6−	0.4−
1977 10 11	675	1.9−	0.6+	1998 11 16	704	0.6+	0.2+	1998 12 17	012	0.1+	0.5+
1977 10 12	675	2.1+	1.3−	1998 11 16	704	0.3+	1.0+	1998 12 17	012	0.1+	0.1+
1977 10 12	675	2.3+	1.7−	1998 11 16	704	0.3+	0.1+	1998 12 17	012	0.2−	0.5+
1977 10 16	675	1.3+	1.5−	1998 11 16	704	0.0	1.2−	1998 12 17	012	0.1−	0.3+
1977 10 16	675	0.3+	0.9−	1998 11 16	704	0.1+	0.6+	1998 12 17	012	0.0	0.2+
1977 10 17	675	0.4−	0.7+	1998 11 17	012	1.0+	0.4−	2000 02 10	704	0.8+	1.8−
1977 10 17	675	0.3−	0.1+	1998 11 17	012	0.3−	0.2−	2000 02 10	704	0.6+	1.4−
1977 10 21	675	0.2−	0.8+	1998 11 17	012	0.0	0.1−	2000 02 10	704	0.6+	1.9−
1977 10 21	675	0.4−	0.1+	1998 11 17	012	0.5+	0.4−	2000 02 10	704	0.8+	1.3−
1977 10 22	675	2.1+	0.6−	1998 11 17	012	0.4+	0.7−	2000 03 01	703	(1.7−	2.2−)
1977 10 22	675	1.9+	0.5+	1998 11 17	012	0.2−	0.6−	2000 03 01	703	1.4−	0.8−
1987 01 03	675	0.7+	0.8+	1998 11 17	012	0.1+	0.4−	2000 03 01	703	1.2−	1.0−
1987 01 03	675	0.4−	1.7+	1998 11 18	012	0.0	0.3−	2000 03 01	703	1.1−	0.6−
1998 08 31	704	0.4−	1.6−	1998 11 18	012	0.1−	0.3−	2000 03 10	704	0.0	0.1−
1998 08 31	704	(1.0−	4.3−)	1998 11 18	012	0.1+	0.3−	2000 03 10	704	0.2−	0.6−
1998 08 31	704	(2.1−	2.6−)	1998 11 22	012	0.7−	0.4+	2000 03 10	704	1.6−	0.8+
1998 08 31	704	(2.9−	3.6−)	1998 11 22	012	0.5−	0.3−	2000 03 10	704	0.7−	0.3−
1998 08 31	704	(4.8−	3.9−)	1998 11 22	012	0.5−	0.1−	2000 03 10	704	1.6−	0.5−
1998 11 14	704	0.3+	0.6−	1998 11 22	012	0.0	0.2−				
1998 11 14	704	0.2+	0.1+	1998 12 16	012	0.1−	0.2+				

(14305)* 3437 T-3 = 1993 QE₄

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 25437)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	260.44371		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.24274906	ω	272.24988	+0.27745621	+0.96067548		
a	2.5450580	Ω	13.87356	−0.86224962	+0.25403978		
e	0.1455466	i	2.62581	−0.42372591	+0.11210000		
P	4.06	H	14.3	G	0.15	U	1

1977 10 17	675	0.2−	0.7−	1998 12 16	704	(1.3−	2.8−)	2000 03 08	704	1.1−	1.5−
1977 10 21	675	0.4+	0.3+	1998 12 16	704	0.0	1.6+	2000 03 08	704	0.6−	0.1−
1977 10 21	675	2.0−	0.4−	1998 12 16	704	0.5+	1.3−	2000 03 08	704	0.1+	0.1−
1977 10 22	675	0.8+	0.1−	1998 12 16	704	1.3−	1.5−	2000 03 08	704	0.8+	0.8+
1977 10 22	675	1.0+	0.8−	1998 12 17	704	0.2+	1.5+	2000 03 11	704	0.6−	0.5−
1993 07 26	675	0.8+	0.4+	1998 12 17	704	0.9+	0.6+	2000 03 11	699	0.1+	0.4−
1993 07 26	675	0.6−	0.0	1998 12 17	704	1.0+	0.3+	2000 03 11	704	0.2−	0.1−
1993 08 15	809	1.2+	0.6+	1998 12 17	704	1.2−	0.5+	2000 03 11	704	0.1−	0.4−
1993 08 15	809	0.7+	0.5+	2000 02 11	120	0.5−	1.5−	2000 03 11	699	0.1−	0.3−
1993 08 15	809	0.1−	0.1−	2000 02 11	120	0.4+	1.0−	2000 03 11	704	0.6+	0.2+
1993 08 18	010	0.1−	0.7−	2000 02 11	120	0.0	1.1−	2000 03 11	699	0.0	0.2−
1993 08 19	010	(0.7+	2.5−)	2000 02 11	704	0.4−	0.1+	2000 03 11	704	0.4−	0.5−
1993 08 19	010	(0.0	2.5−)	2000 02 11	704	0.7+	0.4+	2000 03 11	699	0.2+	0.1+
1993 08 19	010	(0.2+	2.8−)	2000 02 11	704	1.1+	0.9+	2000 03 12	649	1.6−	0.4−
1993 08 20	809	(2.7+	1.7+)	2000 02 11	704	0.1−	0.4+	2000 03 12	649	0.9−	0.1−
1993 08 20	809	0.9+	1.7+	2000 02 11	704	0.9+	0.7+	2000 03 12	649	1.0−	0.0
1993 08 20	809	1.5+	1.5+	2000 02 29	704	0.5−	1.5+	2000 03 12	649	1.3−	0.3−
1993 08 24	809	0.3+	0.6−	2000 02 29	704	0.5+	0.2+				
1993 08 24	809	0.4−	1.3−	2000 02 29	704	1.0+	0.4+				

(14306)* 4327 T-3 = 1988 JT

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. S. Nakano (*MPC* 13304)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		336.16203		(2000.0)		P		Q	
<i>n</i>		0.23861476		ω		138.84006		−0.95915002	+0.24920055
<i>a</i>		2.5743713		Ω		56.07511		−0.28281496	−0.83318935
<i>e</i>		0.1107018		<i>i</i>		9.28672		−0.00685155	−0.49365433
<i>P</i>		4.13		<i>H</i>		14.0		<i>G</i>	0.15
								<i>U</i>	2

Residuals in seconds of arc

1977 10 11	675	2.1+	0.8−	1998 11 11	699	1.3+	0.3+	2000 02 03	704	0.5+	1.4−
1977 10 11	675	1.7+	0.5−	1998 11 11	699	0.5−	0.6+	2000 02 03	704	0.1+	0.9+
1977 10 12	675	1.1+	1.7−	1998 11 11	699	0.0	0.6−	2000 02 03	704	0.4−	0.9+
1977 10 12	675	(2.5+	2.7−)	1998 11 15	691	0.5−	0.4+	2000 02 03	704	1.0+	0.4+
1977 10 16	675	0.2−	0.5−	1998 11 15	691	0.4−	0.3+	2000 02 03	704	1.0−	0.0
1977 10 16	675	0.5−	1.2+	1998 11 15	691	0.6−	0.3+	2000 02 14	704	1.0+	0.2+
1977 10 17	675	0.4+	0.6−	1998 11 18	704	0.6+	0.4+	2000 02 14	704	0.8+	0.3+
1977 10 17	675	1.5−	1.0−	1998 11 18	704	0.9+	1.2−	2000 02 14	704	0.8+	0.6+
1977 10 21	675	0.4−	0.9−	1998 11 18	704	1.8+	1.2−	2000 02 14	704	0.3+	1.0+
1977 10 21	675	0.6−	0.1−	1998 11 18	704	1.4+	0.3−	2000 02 14	704	0.9−	0.1−
1977 10 22	675	0.2+	0.2−	1998 11 21	691	0.7−	0.3−	2000 02 27	106	0.1−	0.4−
1977 10 22	675	(0.4−	3.1+)	1998 11 21	691	0.7−	0.5+	2000 02 27	106	0.6+	0.2−
1988 05 12	033	0.4+	0.6−	1998 11 21	691	0.3−	0.7+	2000 02 27	106	0.4−	0.0
1988 05 12	033	0.0	0.5+	1998 11 24	699	1.0−	0.8+	2000 03 05	704	0.1−	0.1−
1988 05 13	033	0.2+	0.6+	1998 11 24	699	1.0−	1.3+	2000 03 05	704	0.6−	0.3−
1998 10 18	699	0.9+	1.4+	1998 11 24	699	0.7−	0.5+	2000 03 05	704	0.3−	0.1−
1998 10 18	699	1.0+	0.9−	1998 11 27	691	0.7−	0.4+	2000 03 05	704	0.4−	0.3−
1998 10 18	699	1.2+	1.0−	1998 11 27	691	0.7−	0.4+	2000 03 05	704	0.6−	0.2+
1998 10 28	120	0.1−	0.6+	1998 11 27	691	0.7−	0.3+	2000 03 12	704	0.4−	0.8−
1998 10 29	120	0.1+	0.6+	1999 01 19	910	0.2+	0.5−	2000 03 12	704	0.5−	0.9−
1998 10 30	120	1.3−	0.1+	1999 01 19	910	0.4+	0.7−	2000 03 12	704	0.6−	1.2−
1998 10 30	120	0.6−	0.2−	1999 01 19	910	0.2−	0.2−	2000 03 12	704	0.4−	1.2−

(14307)* 4336 T-3 = 1994 PZ₃₃

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 24579)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		320.67535		(2000.0)		P		Q	
<i>n</i>		0.28309264		ω		51.16113		−0.83669488	+0.54607419
<i>a</i>		2.2971199		Ω		161.81661		−0.53475933	−0.79813037
<i>e</i>		0.0479383		<i>i</i>		7.69212		−0.11821226	−0.25454056
<i>P</i>		3.48		<i>H</i>		14.9		<i>G</i>	0.15
								<i>U</i>	2

Residuals in seconds of arc

1977 10 07	675	(2.9+	2.5−)	1998 10 12	699	0.2+	0.2−	2000 02 27	703	0.0	0.5+
1977 10 11	675	(3.5+	2.1−)	1998 11 19	699	1.4+	0.0	2000 02 27	703	0.3+	0.5+
1977 10 12	675	(3.2+	3.3−)	1998 11 19	699	0.7−	0.5+	2000 02 27	703	0.4−	0.4+
1977 10 12	675	(3.9+	2.3−)	1998 11 19	699	0.5−	0.2+	2000 02 29	704	0.0	0.5+
1977 10 16	675	0.4+	0.5+	1998 12 11	699	0.8−	0.1+	2000 02 29	704	0.9+	0.2+
1977 10 16	675	0.8+	0.2−	1998 12 11	699	0.3−	0.4−	2000 02 29	704	0.1+	1.2+
1977 10 17	675	1.8−	0.0	1998 12 11	699	0.1−	0.3+	2000 02 29	704	0.7+	0.9+
1977 10 17	675	1.1−	0.6+	2000 02 08	704	0.7+	0.1−	2000 03 10	608	0.3−	1.1−
1977 10 21	675	0.3+	0.4+	2000 02 08	704	0.4+	0.2+	2000 03 10	608	0.7−	0.4−
1977 10 21	675	1.7+	1.7−	2000 02 08	704	0.3−	0.1+	2000 03 10	608	0.5−	0.4−
1977 10 22	675	(0.2−	2.7−)	2000 02 08	704	0.1+	0.2−	2000 03 11	699	0.2−	0.6+
1977 10 22	675	0.4−	1.0+	2000 02 08	704	0.2−	0.4+	2000 03 11	699	0.6−	0.6+
1994 08 10	809	(2.5+	4.0+)	2000 02 13	120	0.8−	0.7−	2000 03 11	699	0.1+	0.7+
1994 08 10	809	(2.3+	3.4+)	2000 02 13	120	0.2+	0.5−	2000 03 11	699	0.2−	0.3+
1994 08 10	809	(1.9+	3.2+)	2000 02 14	120	0.5+	1.2−	2000 03 12	704	0.5+	0.5+
1994 08 11	809	1.1−	0.3+	2000 02 14	120	1.5−	0.8−	2000 03 12	704	0.8+	0.5+
1994 08 11	809	0.5+	1.0+	2000 02 14	120	0.8−	0.7−	2000 03 12	704	0.1+	0.3+
1994 08 11	809	0.2+	0.4+	2000 02 14	120	0.1+	1.0−	2000 03 12	704	0.9+	0.0
1998 10 12	699	0.1+	0.7+	2000 02 14	120	(2.4−	0.6+)	2000 03 12	704	0.4+	0.1+
1998 10 12	699	0.2+	0.0	2000 02 27	703	0.0	0.7+				

(14308)* 5193 T-3 = 1980 DV

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. H. Oishi (*MPC* 16441)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		239.59348		(2000.0)		P		Q	
<i>n</i>		0.18955762		ω		83.59432		−0.56113536	+0.82121808
<i>a</i>		3.0012941		Ω		151.48540		−0.81897004	−0.53268599
<i>e</i>		0.2013358		<i>i</i>		12.53091		−0.12006325	−0.20456417
<i>P</i>		5.20		<i>H</i>		12.7		<i>G</i>	0.15
								<i>U</i>	2

Residuals in seconds of arc

1977 10 16	675	0.4+	1.3−	1980 02 20	095	(0.3−	4.1−)	1998 11 13	704	0.6−	1.6−
1977 10 16	675	0.2+	0.5−	1980 02 21	046	0.6+	0.8−	2000 01 07	704	0.0	0.2+
1977 10 17	675	0.9−	1.7−	1980 02 21	046	1.0−	1.0−	2000 01 07	704	0.5+	0.1+
1977 10 17	675	0.2−	1.6−	1980 02 22	046	0.9−	0.9−	2000 01 07	704	0.0	0.1+
1977 10 21	675	(2.9+	1.0+)	1980 02 22	046	0.2−	0.8+	2000 01 07	704	0.3+	0.5+
1977 10 21	675	0.6+	1.2+	1980 02 23	046	(3.0+	0.9−)	2000 01 07	704	0.1−	0.3−
1977 10 22	675	0.4−	2.2+	1980 02 23	046	0.7+	0.3+	2000 01 11	704	0.6−	0.6+
1977 10 22	675	0.5+	0.6+	1998 10 17	699	0.2−	0.2−	2000 01 11	704	0.3−	0.3−
1980 02 14	046	0.2−	0.4+	1998 10 17	699	0.4+	0.4+	2000 01 11	704	0.7−	0.1+
1980 02 14	046	0.4−	0.7+	1998 10 17	699	0.1−	0.6+	2000 01 11	704	0.2−	0.1−
1980 02 15	046	0.1+	1.0−	1998 11 13	704	1.4−	1.2+	2000 03 05	704	1.2−	1.5+
1980 02 15	046	(2.6−	4.4+)	1998 11 13	704	1.5+	0.3−	2000 03 05	704	0.7+	0.7−
1980 02 19	046	0.8+	1.1−	1998 11 13	704	1.3+	0.0	2000 03 05	704	0.1−	0.5+
1980 02 19	046	(3.7+	2.8−)	1998 11 13	704	0.3−	1.6−	2000 03 05	704	1.2+	1.0+

1973 SX₁ = 1997 UD₂₆

Id. A. Doppler

Residuals in seconds of arc

1973 09 19	675	1.1+	0.3+	1973 09 29	675	1.4+	1.0-	1973 10 05	675	0.8-	0.8+
1973 09 19	675	0.8-	0.2-	1973 09 29	675	0.1+	1.6+	1973 09 29	809	0.4-	0.7-
1973 09 20	675	0.5-	1.1+	1973 09 30	675	1.7+	0.9-	1973 09 29	809	0.7+	0.4-
1973 09 24	675	0.3-	0.4+	1973 09 30	675	1.5-	1.2+	1973 10 25	809	0.1-	0.5-
1973 09 24	675	0.5-	0.4+	1973 10 04	675	0.5-	1.9-	1973 10 25	809	0.8+	0.8+
1973 09 25	675	0.5+	1.4-	1973 10 04	675	0.3-	0.0	1973 10 27	809	0.6-	0.1-
1973 09 25	675	0.7-	0.3+	1973 10 05	675	1.1+	0.4-	1973 10 27	809	0.3-	0.5+

1973 UN₅ = 1999 RM₇₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	282.03080	(2000.0)	P	Q
<i>n</i>	0.26176167	ω	74.69161	-0.54061292
<i>a</i>	2.4202785	Ω	48.11350	-0.50333296
<i>e</i>	0.1569341	<i>i</i>	3.27148	+0.38442187
<i>P</i>	3.77	<i>H</i>	14.9	<i>U</i>
				6

Residuals in seconds of arc

1973 10 27	033	1.9-	0.4+	1999 09 07	704	0.8-	1.0+	1999 09 08	703	0.0	0.3+
1973 10 27	033	0.1-	1.0-	1999 09 07	704	0.1+	0.3+	1999 09 13	704	0.0	0.7-
1973 10 28	033	0.4+	0.5+	1999 09 07	704	0.2+	0.7+	1999 09 13	704	0.3+	0.0
1973 11 02	033	0.2-	0.6-	1999 09 08	703	0.2+	0.0	1999 09 13	704	0.6-	0.1-
1999 09 07	704	0.3+	0.2+	1999 09 08	703	1.1+	1.3-	1999 09 13	704	0.2+	0.7-
1999 09 07	704	0.3-	0.2+	1999 09 08	703	0.7-	0.0				

1977 ES₇ = 1991 SO₄ = 2000 AD₁₃₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	29.24874	(2000.0)	P	Q
<i>n</i>	0.17194776	ω	141.80411	-0.75207548
<i>a</i>	3.2028630	Ω	356.86225	+0.52098808
<i>e</i>	0.0752596	<i>i</i>	15.29629	+0.40367547
<i>P</i>	5.73	<i>H</i>	12.6	<i>U</i>
				1

Residuals in seconds of arc

1977 03 12	381	1.8-	0.8-	2000 01 04	704	0.1-	0.3-	2000 02 29	704	1.3+	0.1+
1977 03 12	381	1.4-	1.9-	2000 01 08	704	0.8-	0.9-	2000 02 29	704	(0.1-	2.5+)
1977 03 14	381	1.0-	1.7-	2000 01 08	704	0.7-	0.6+	2000 03 08	704	0.1+	0.3+
1977 03 14	381	0.4-	1.8-	2000 01 08	704	0.1-	0.6+	2000 03 08	704	0.8+	0.9+
1977 03 15	381	0.7-	2.1-	2000 01 08	704	0.6+	0.0	2000 03 08	704	0.5-	0.1+
1977 03 15	381	2.5-	1.3-	2000 02 06	704	1.1+	0.5+	2000 03 08	704	0.1+	0.9+
1991 09 16	675	0.1+	0.3+	2000 02 06	704	0.7+	0.6+	2000 03 08	704	0.5-	0.6+
1991 09 16	675	0.7-	0.0	2000 02 06	704	0.6+	0.4+	2000 03 11	699	0.2+	0.0
1998 11 16	704	0.1-	0.2+	2000 02 06	704	0.0	0.6+	2000 03 11	699	0.3+	0.2+
1998 11 16	704	0.4+	0.5-	2000 02 06	704	0.9+	1.2+	2000 03 11	699	0.5+	0.2+
1998 11 16	704	(2.3-	1.3+)	2000 02 11	704	0.6+	0.3+	2000 03 11	704	0.3+	0.2+
1998 11 16	704	(3.8-	1.6+)	2000 02 11	704	0.3+	0.2-	2000 03 11	699	0.3+	0.0
1998 12 12	704	0.1-	0.4+	2000 02 11	704	0.4+	0.7-	2000 03 11	704	0.3+	0.1+
1998 12 12	704	0.4+	0.5-	2000 02 11	704	0.7+	0.7-	2000 03 11	704	0.1+	0.2+
1998 12 12	704	0.9+	0.4-	2000 02 11	704	0.1-	0.5+	2000 03 11	704	0.2+	0.2+
1998 12 12	704	0.5-	0.0	2000 02 27	703	0.2+	0.4+	2000 03 11	704	0.2+	0.1+
1998 12 12	704	0.7-	0.4+	2000 02 27	703	0.2-	0.6+	2000 03 14	703	0.2-	0.1+
2000 01 04	704	0.1+	0.5+	2000 02 27	703	0.3+	0.2+	2000 03 14	703	0.2+	0.0
2000 01 04	704	0.3-	0.2-	2000 02 27	703	0.1+	0.4+	2000 03 14	703	0.0	0.4+
2000 01 04	704	0.9+	0.9+	2000 02 29	704	0.4+	0.5+	2000 03 14	703	0.2+	0.1-
2000 01 04	704	0.9-	1.0-	2000 02 29	704	0.1-	1.4+				

1978 SD₈ = 2000 EC₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	198.14088	(2000.0)	P	Q
<i>n</i>	0.29948466	ω	327.15856	+0.97740826
<i>a</i>	2.2125155	Ω	20.78344	-0.17441152
<i>e</i>	0.2117108	<i>i</i>	4.24682	-0.11938889
<i>P</i>	3.29	<i>H</i>	14.4	<i>U</i>
				3

Residuals in seconds of arc

1978 09 26	095	(2.5-	5.9+)	1998 12 17	704	0.8+	1.4-	2000 03 10	704	0.2+	0.5-
1978 10 02	095	2.3-	1.1+	1998 12 17	704	1.1-	1.0-	2000 03 11	704	0.4-	0.0
1978 10 08	095	(7.5-	4.7+)	2000 03 08	704	0.1+	0.8+	2000 03 11	704	0.4-	0.5-
1978 10 27	675	0.7-	0.8+	2000 03 08	704	0.3-	0.1+	2000 03 11	704	0.4-	0.2+
1978 10 28	675	0.3+	0.8+	2000 03 08	704	0.2-	0.8+	2000 03 11	704	0.1-	0.1+
1978 10 29	675	0.8-	0.4+	2000 03 08	704	1.0+	0.8+	2000 03 11	704	0.1-	0.1-
1978 11 01	049	1.4+	0.1-	2000 03 10	704	0.4+	0.4+	2000 03 11	704	0.2+	0.1-
1978 11 01	049	0.9+	0.6+	2000 03 10	704	0.0	0.2+	2000 03 11	704	0.4+	0.4-
1978 11 28	675	0.5-	0.2+	2000 03 10	704	0.4+	1.4+	2000 03 11	704	0.6+	0.1-
1978 11 29	675	0.1-	0.0	2000 03 10	704	0.7-	0.2-	2000 03 11	704	0.1-	0.1+
1998 12 17	704	0.5+	0.8+	2000 03 10	704	0.2+	0.4+	2000 03 11	704	0.6+	0.8+
1998 12 17	704	0.7-	0.8+	2000 03 10	704	0.0	0.1-				
1998 12 17	704	0.7+	0.7-	2000 03 10	704	1.0+	0.5+				

1978 XD₁ = 1998 RT₅₂ = 1999 XY₈₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	66.05264	(2000.0)	P	Q
<i>n</i>	0.19228840	ω	276.71555	+0.76023203
<i>a</i>	2.9728112	Ω	123.69407	+0.61528306
<i>e</i>	0.1091872	<i>i</i>	3.08491	+0.20850422
<i>P</i>	5.13	<i>H</i>	13.9	<i>U</i>
				3

Residuals in seconds of arc

1978 12 03	675	1.1+	0.1+	1998 09 17	699	1.3+	0.3-	1999 12 07	411	0.2-	0.5-
1978 12 03	675	0.5+	0.7+	1998 09 18	704	0.9-	0.3-	1999 12 08	704	0.3+	0.0
1978 12 05	675	1.6-	0.8-	1998 09 18	704	0.7-	0.1-	1999 12 08	704	0.2-	1.0+
1978 12 06	675	0.3+	0.7+	1998 09 18	704	0.8+	1.5-	1999 12 08	704	0.1-	0.9+
1978 12 06	675	0.5-	0.3+	1998 09 18	704	0.2-	1.2-	1999 12 08	704	1.1-	0.2+
1998 09 14	704	0.4-	1.9+	1998 09 18	704	0.6-	0.9-	1999 12 08	704	0.1+	1.0+
1998 09 14	704	0.2+	0.2+	1998 09 18	704	1.1-	1.1-	1999 12 09	411	1.1-	1.5-
1998 09 14	704	0.8-	0.7+	1998 09 18	704	1.0+	1.4-	1999 12 09	411	0.3-	0.6-
1998 09 14	704	0.6+	0.2-	1998 09 18	704	0.0	1.0-	2000 01 05	704	0.2-	0.1+
1998 09 14	704	0.3-	0.1+	1998 09 18	704	1.5-	0.0	2000 01 05	704	0.3+	0.1-
1998 09 14	704	1.7+	1.3+	1998 09 18	704	0.9-	0.2-	2000 01 05	704	0.1+	0.3-
1998 09 14	704	0.1+	1.3+	1999 12 07	704	1.3+	0.3-	2000 01 05	704	0.3-	1.4-
1998 09 14	704	0.9+	1.0+	1999 12 07	704	1.2+	0.4-	2000 01 05	704	0.2-	0.7-
1998 09 14	704	0.1+	1.0+	1999 12 07	704	0.2+	0.0	2000 01 26	106	0.0	0.3+
1998 09 14	704	0.3+	0.2-	1999 12 07	704	0.3-	0.3+	2000 01 26	106	1.0+	0.4+
1998 09 17	699	0.8+	0.5-	1999 12 07	704	0.3+	0.9+				
1998 09 17	699	0.0	0.7+	1999 12 07	411	1.1-	0.1+				

1979 MB₃ = 1987 HO

Id. T. Kobayashi (2000 observations), S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	305.35160	(2000.0)	P	Q
<i>n</i>	0.22689811	ω	126.86126	-0.39058968
<i>a</i>	2.6622497	Ω	118.75641	-0.90395423
<i>e</i>	0.1734299	<i>i</i>	14.46476	-0.17408749
<i>P</i>	4.34	<i>H</i>	13.2	<i>U</i>
				2

Residuals in seconds of arc

1979 06 23	413	1.2-	0.3-	2000 01 07	704	0.4+	0.1+	2000 03 02	411	1.1-	0.9-
1979 06 24	413	1.0-	0.1+	2000 01 07	704	1.1-	0.8-	2000 03 05	704	0.5+	0.2+
1979 06 25	413	0.6-	1.3+	2000 01 07	704	0.4-	0.2-	2000 03 05	704	0.9+	0.0
1979 06 29	413	1.2-	0.3+	2000 02 04	704	0.4+	0.4-	2000 03 05	704	0.6+	0.5-

1979 07 24	675	1.2+	0.9−	2000 02 04	704	0.5+	0.0	2000 03 05	704	0.3+	0.6−
1979 07 24	413	0.5+	0.4−	2000 02 04	704	0.0	0.2−	2000 03 15	704	0.0	0.4+
1979 07 25	675	2.0+	0.3−	2000 02 04	704	0.6−	0.4+	2000 03 15	704	0.3+	0.4+
1987 04 27	675	1.7−	0.3−	2000 02 04	704	1.4+	0.6+	2000 03 15	704	0.2+	0.3+
1987 04 27	675	1.8+	0.3−	2000 03 01	411	1.0−	0.1+	2000 03 15	704	0.3−	0.8+
2000 01 07	704	1.2−	0.2+	2000 03 01	411	(2.4−	0.4+)	2000 03 15	704	0.1+	0.4+
2000 01 07	704	0.0	0.5+	2000 03 02	411	0.5−	0.3−				

1979 MJ₃ = 1979 OY₁ = 2000 CF₁₀₂

Id. H. Oishi (d, *MPC* 11826), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	67.27334		(2000.0)	P	Q		
<i>n</i>	0.21830857	ω	261.33081	+0.24222153	−0.97018057		
<i>a</i>	2.7316320	Ω	174.62700	+0.92320170	+0.22766679		
<i>e</i>	0.0341389	<i>i</i>	5.42574	+0.29837451	+0.08317149		
<i>P</i>	4.51	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1979 06 24	413	1.0+	0.5−	2000 02 04	704	0.5−	0.7−	2000 02 27	703	1.0−	0.2−
1979 06 25	413	0.0	0.4+	2000 02 04	704	0.7−	0.1−	2000 02 27	703	0.1−	0.2+
1979 07 24	675	(0.5−	4.9+)	2000 02 04	704	0.3+	0.0	2000 02 27	703	0.0	0.5+
1979 07 24	413	0.9−	0.3+	2000 02 04	704	0.8+	0.4+	2000 03 05	704	0.4−	0.7−
1979 07 25	675	(1.6−	4.0+)	2000 02 04	704	0.1−	0.5+	2000 03 05	704	0.0	0.3+
2000 02 02	704	0.5+	0.8−	2000 02 12	704	0.5−	0.8+	2000 03 05	704	0.7+	0.0
2000 02 02	704	0.2−	0.1+	2000 02 12	704	(0.0	2.3+)	2000 03 05	704	0.3+	0.4−
2000 02 02	704	0.0	0.2−	2000 02 12	704	0.7+	0.5+	2000 03 05	704	0.7+	0.4−
2000 02 02	704	(2.3−	0.1−)	2000 02 27	703	0.6−	0.1+				

1979 MJ₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	331.02476		(2000.0)	P	Q		
<i>n</i>	0.23722614	ω	194.63369	+0.74776098	+0.63793116		
<i>a</i>	2.5844077	Ω	124.21767	−0.58461359	+0.76403048		
<i>e</i>	0.1872841	<i>i</i>	12.86483	−0.31477049	+0.09644306		
<i>P</i>	4.15	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1979 06 23	413	0.4+	0.8+	1979 08 23	675	1.9−	1.4−	1999 04 12	704	0.8+	0.8−
1979 06 24	413	0.2−	0.2−	1997 12 30	566	0.6+	0.1−	1999 04 12	704	0.2+	1.6+
1979 06 25	413	0.1−	0.0	1997 12 30	566	0.1+	0.3+	1999 04 12	704	0.8+	0.3+
1979 06 29	413	0.0	0.1+	1997 12 30	566	0.0	0.4+	1999 04 19	703	0.0	1.2−
1979 07 24	675	0.7−	1.4+	1998 01 28	675	1.2−	0.3+	1999 04 19	703	0.1+	0.1+
1979 07 24	413	0.5−	1.2−	1998 01 28	675	0.4+	0.4+	1999 04 19	703	0.9−	0.2−
1979 07 25	675	1.1+	1.8+	1999 04 12	704	1.0−	0.5+	1999 04 19	703	0.3+	0.2−
1979 07 27	675	1.6+	0.3−	1999 04 12	704	0.4−	0.4−				

1979 QD₃ = 1996 TS₆₂ = 1998 FS₃₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	338.34727		(2000.0)	P	Q		
<i>n</i>	0.29232932	ω	242.83345	+0.82956257	−0.55714306		
<i>a</i>	2.2484737	Ω	150.97891	+0.53586836	+0.77529334		
<i>e</i>	0.1319104	<i>i</i>	4.45112	+0.15707019	+0.29750940		
<i>P</i>	3.37	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1979 08 22	809	1.1+	0.3−	1996 10 07	809	(0.4+	2.4−)	1998 03 29	704	2.0−	0.2−
1979 08 22	809	0.1+	0.0	1998 03 20	704	0.2−	1.6−	1998 04 02	809	1.6+	1.7−
1979 08 22	809	0.3−	0.2+	1998 03 20	704	0.7−	0.4+	1998 04 02	809	(1.5+	3.1−)
1979 08 23	809	0.8+	0.3−	1998 03 20	704	0.9−	0.7+	1998 04 02	809	1.5+	1.4−
1979 08 23	809	0.6+	0.3−	1998 03 20	704	(3.2−	0.6+)	1998 04 03	809	0.9+	1.0−
1979 08 26	809	0.2−	0.0	1998 03 22	704	0.1+	1.8+	1998 04 03	809	1.1−	0.8−
1979 08 26	809	0.6−	0.9−	1998 03 22	704	0.6−	1.5+	1998 04 03	809	0.5+	0.6−
1979 08 26	809	0.7−	0.8−	1998 03 22	704	0.6+	0.0	1999 06 15	704	0.1+	0.4+
1996 09 14	566	0.0	0.1−	1998 03 22	704	(4.8−	0.2+)	1999 06 15	704	0.5+	1.0+

1996 09 14	566	0.0	0.4−	1998 03 26	704	1.1+	1.7−	1999 06 15	704	0.2+	1.1+
1996 09 14	566	0.2+	0.6−	1998 03 26	704	0.1−	1.2−	1999 06 15	704	0.3+	0.3−
1996 10 06	809	0.4+	1.8−	1998 03 26	704	1.6−	0.3−	1999 07 14	704	0.6+	0.5−
1996 10 06	809	0.9+	1.7−	1998 03 29	704	1.6−	0.9−	1999 07 14	704	0.6−	0.1−
1996 10 06	809	(0.6−	2.8−)	1998 03 29	704	0.5+	0.6−	1999 07 14	704	0.5−	0.0
1996 10 07	809	(0.4+	2.8−)	1998 03 29	704	1.1−	1.4+	1999 07 14	704	0.3−	0.8−
1996 10 07	809	(0.6−	3.1−)	1998 03 29	704	0.4+	1.5−	1999 07 14	704	0.1−	0.4+

1980 FE₂ = 1976 NC = 1987 SJ₂₅ = 2000 AY₁₆₀

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	209.86804		(2000.0)	P	Q		
<i>n</i>	0.19027115	ω	302.60961	+0.27795298	+0.95962231		
<i>a</i>	2.9937860	Ω	343.36374	−0.82300243	+0.21470068		
<i>e</i>	0.1678937	<i>i</i>	8.68084	−0.49538787	+0.18173781		
<i>P</i>	5.18	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 07 02	809	(3.5−	1.0−)	1997 09 02	566	0.3+	0.0	2000 01 03	704	0.9−	0.4+
1976 07 02	809	1.8−	1.8−	1997 09 02	566	0.1+	0.3+	2000 01 03	704	0.3−	0.2+
1980 03 16	809	0.0	0.0	1998 11 16	704	0.2+	0.4−	2000 01 03	704	0.3−	0.6+
1980 03 16	809	0.2+	0.5−	1998 11 16	704	1.7+	1.5+	2000 01 03	704	0.6+	0.2+
1980 03 16	809	0.3+	0.6−	1998 11 16	704	(0.6+	3.1+)	2000 01 04	704	0.4−	0.1−
1980 03 16	809	0.1+	0.8−	1998 11 16	704	0.2+	0.9+	2000 01 04	704	0.2+	0.3+
1980 03 17	809	0.1−	0.5−	1998 11 16	704	0.9−	1.0−	2000 01 04	704	(1.5−	2.5+)
1980 03 17	809	0.0	1.1−	1998 12 14	704	0.1+	0.3−	2000 01 04	704	0.9−	0.6+
1980 03 17	809	0.7+	0.4−	1998 12 14	704	0.8+	1.0−	2000 01 04	704	0.7−	0.6+
1980 03 17	809	0.6+	0.5−	1998 12 14	704	0.8+	1.7−	2000 02 11	704	0.1+	0.3+
1980 03 23	809	0.2+	0.1−	1998 12 14	704	0.4+	1.0−	2000 02 11	704	0.5+	0.2+
1980 03 23	808	0.3+	0.5−	1999 12 15	703	0.8−	1.0+	2000 02 11	704	0.3+	0.4−
1980 03 23	808	1.0−	0.7+	1999 12 15	703	0.0	0.2+	2000 02 11	704	0.0	0.5+
1987 09 23	095	0.8+	0.8+	1999 12 15	703	0.8−	0.3+				
1997 09 02	566	0.2+	0.1+	1999 12 15	703	0.4−	0.4+				

1981 EG₂₂ = 2000 EA₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	330.00479		(2000.0)	P	Q		
<i>n</i>	0.25980568	ω	226.23046	−0.81073471	+0.58456311		
<i>a</i>	2.4324110	Ω	349.40855	−0.47563045	−0.68915667		
<i>e</i>	0.1980323	<i>i</i>	9.88275	−0.34129886	−0.42819277		
<i>P</i>	3.79	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 02 09	413	0.0	0.2−	1981 03 16	413	0.8+	0.7+	2000 03 08	704	0.1+	0.8+
1981 02 13	413	0.4+	0.9−	1981 04 05	413	0.3−	0.2−	2000 03 08	704	0.5+	0.3+
1981 03 02	413	(3.6−	1.4+)	1981 04 06	413	1.8−	0.3+	2000 03 11	704	0.4−	0.1+
1981 03 02	413	1.7−	1.4−	1981 04 06	413	0.5−	0.1−	2000 03 11	704	0.0	0.4+
1981 03 03	413	0.9+	0.8+	1981 04 12	413	1.8−	0.2−	2000 03 11	704	0.0	0.2+
1981 03 07	413	(3.5−	1.0+)	1981 04 12	413	1.6+	0.6−	2000 03 11	704	0.0	0.3+
1981 03 07	413	0.3+	0.9+	1981 04 29	413	1.2+	0.1+	2000 03 11	704	0.5+	1.0+
1981 03 11	413	0.3+	0.8+	2000 03 08	704	0.1−	1.6−				
1981 03 16	413	0.1+	0.8−	2000 03 08	704	0.1−	0.7−				

1981 EY₂₂ = 2000 ED₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	279.80308		(2000.0)	P	Q		
<i>n</i>	0.31138246	ω	91.47849	−0.03454078	+0.99939726		
<i>a</i>	2.1557908	Ω	176.53635	−0.93827439	−0.03123129		
<i>e</i>	0.1374484	<i>i</i>	3.29518	−0.34416290	−0.01515689		
<i>P</i>	3.17	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 02 09	413	0.0	0.8−	1981 03 29	413	0.2−	0.9+	2000 02 27	703	(2.8+	2.2−)
1981 02 13	413	0.7−	0.4−	1981 04 07	413	1.3+	0.3−	2000 03 08	704	0.0	0.3−
1981 03 02	413	1.9−	2.1−	1981 04 07	413	(2.9+	2.0−)	2000 03 08	704	0.9+	1.1+

2000 MAR. 20

M.P.C. 39141

1981 03 02	413	(3.3−	0.6+)	1981 04 11	413	0.5+	1.7−	2000 03 08	704	0.6+	1.2+
1981 03 02	413	0.4+	1.3−	1981 04 11	413	2.2+	1.6−	2000 03 08	704	1.5+	1.5+
1981 03 03	413	1.2+	2.2−	1981 04 26	413	(3.1+	2.4−)	2000 03 08	704	(0.6−	2.3+)
1981 03 06	413	1.9−	1.7+	1981 05 02	413	0.4−	0.6−	2000 03 11	704	0.0	0.9+
1981 03 07	413	1.4−	0.4−	1988 11 14	704	0.6+	0.8−	2000 03 11	704	0.2+	0.8+
1981 03 07	413	2.0+	2.2−	1998 11 14	704	0.3−	1.2+	2000 03 11	704	0.7+	0.8+
1981 03 11	413	1.9−	0.2+	1998 11 14	704	0.1+	0.8−	2000 03 11	704	0.4+	0.2+
1981 03 11	413	0.1+	0.8−	1998 11 14	704	0.4+	0.6+	2000 03 11	704	0.0	0.3+
1981 03 11	413	2.2−	1.3+	1998 11 14	704	0.7−	0.4−	2000 03 14	703	0.3+	0.4+
1981 03 11	413	0.9+	0.6−	2000 02 27	703	0.9−	0.4+	2000 03 14	703	0.3+	0.8+
1981 03 16	413	0.8−	1.2−	2000 02 27	703	0.3+	0.9+	2000 03 14	703	0.2+	0.7+
1981 03 16	413	1.2−	0.0	2000 02 27	703	0.7+	1.3+	2000 03 14	703	0.9−	0.7+

1981 EO₂₃ = 1999 VZ₁₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	19.62111		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.29986955	ω	169.63436	+0.49467224	−0.86893168
a	2.2106219	Ω	250.71588	+0.79614417	+0.46047948
e	0.1063357	i	0.97338	+0.34850227	+0.18142872
P	3.29	H	15.9	G 0.15	U 4

Residuals in seconds of arc

1981 02 09	413	0.7−	1.0−	1999 11 04	704	0.6−	0.9+	1999 11 16	704	0.7+	0.3+
1981 02 13	413	0.4+	0.1+	1999 11 04	704	0.2−	0.5+	1999 11 16	704	0.0	0.1+
1981 03 03	413	1.8+	0.5+	1999 11 04	704	0.4−	0.7+	1999 11 16	704	0.7+	0.5−
1981 03 07	413	(3.3+	0.4−)	1999 11 04	704	0.1+	0.8+	1999 11 16	704	0.8+	0.1−
1981 03 11	413	0.8+	1.7−	1999 11 11	703	1.2−	0.2+	1999 12 04	703	0.4−	0.4+
1981 03 29	413	1.2−	0.4+	1999 11 11	703	0.1−	0.7+	1999 12 04	703	1.0−	0.8+
1981 04 08	413	1.2−	0.9+	1999 11 11	703	0.3−	0.7+	1999 12 04	703	0.9−	0.5−
1981 04 08	413	(9.1−	2.9+)	1999 11 11	703	0.2−	0.1−	1999 12 04	703	0.3−	0.5+
1981 04 11	413	0.0	0.1+	1999 11 12	699	0.4+	0.8+	1999 12 07	704	0.8+	0.2−
1981 04 30	413	0.6−	0.1−	1999 11 12	699	0.1−	0.5+	1999 12 07	704	0.7−	0.4+
1981 05 02	413	0.1+	0.2−	1999 11 12	699	1.1−	1.2+	1999 12 07	704	0.2+	1.0−
1999 10 06	704	1.2+	0.6−	1999 11 14	704	0.0	0.2−	1999 12 07	704	0.1−	0.2+
1999 10 06	704	0.6+	0.9−	1999 11 14	704	0.3+	0.4−	1999 12 07	704	0.7−	0.4−
1999 10 06	704	1.1+	1.9−	1999 11 14	704	0.2+	0.4−	2000 01 07	704	0.2+	0.5+
1999 10 06	704	0.4+	1.4−	1999 11 14	704	0.3+	0.6−	2000 01 07	704	0.9+	0.0
1999 10 06	704	0.4−	1.0−	1999 11 14	704	0.2−	0.8−	2000 01 07	704	0.2+	0.7−
1999 11 04	704	0.5−	0.5+	1999 11 16	704	0.5+	0.4+	2000 01 07	704	0.3+	1.4−

1981 EJ₂₄ = 2000 DJ₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	257.59713		(2000.0)	P	Q
n	0.25635915	ω	253.53555	-0.09569488	+0.99518743
a	2.4541635	Ω	11.03740	-0.86610976	-0.07280682
e	0.1072697	i	6.32229	-0.49060817	-0.06558319
P	3.84	H	14.7	G 0.15	U 5

Residuals in seconds of arc

1981 02 09	413	1.6−	0.4+	1981 04 30	413	(3.4−	0.2−)	2000 02 28	704	0.1−	0.1+
1981 02 13	413	1.0+	0.0	1981 05 02	413	1.6−	2.4+	2000 02 28	704	1.2−	0.1−
1981 03 07	413	1.5−	1.5+	1981 05 02	413	0.2+	0.1−	2000 02 28	704	0.3+	0.8+
1981 03 11	413	1.4−	0.1−	2000 02 03	704	0.7−	0.3−	2000 02 28	704	0.7−	0.5−
1981 03 11	413	0.8+	1.4−	2000 02 03	704	0.8−	0.1−	2000 02 29	704	0.7+	0.2+
1981 03 16	413	0.9+	1.4−	2000 02 03	704	0.1−	0.3−	2000 02 29	704	0.7−	0.3−
1981 03 16	413	(3.7+	0.6−)	2000 02 11	704	1.2+	1.5+	2000 02 29	704	0.1+	0.1+
1981 03 29	413	1.4+	0.1−	2000 02 11	704	0.5+	0.9−	2000 02 29	704	0.2+	0.8+
1981 03 29	413	0.3−	1.0+	2000 02 11	704	0.5+	0.4+	2000 02 29	704	0.0	0.2−
1981 04 26	413	1.8+	2.4−	2000 02 11	704	0.7+	1.0−				

1981 EW₃₄ = 2000 DG₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	32.32972		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.25887831	ω	131.84638	-0.56890428	-0.82224820
a	2.4382166	Ω	352.77449	$+0.71183638$	-0.48258533
e	0.1128805	i	7.30590	$+0.41186998$	-0.30169404
P	3.81	H	15.6	G 0.15	U 4

Residuals in seconds of arc

1981 02 02	413	0.2+	1.1−	1981 04 30	413	0.7+	1.0+	2000 03 03	704	0.2+	0.2−
1981 02 13	413	1.7−	0.8−	1981 05 02	413	0.5+	1.3−	2000 03 03	704	0.1+	0.0
1981 03 02	413	(4.2−	0.0)	2000 02 29	704	0.6+	0.6+	2000 03 03	704	0.2+	0.2−
1981 03 03	413	0.5+	0.5−	2000 02 29	704	0.6−	0.3−	2000 03 03	704	0.4+	0.3−
1981 03 07	413	1.3−	0.4+	2000 02 29	704	0.4+	0.5+	2000 03 11	699	0.2−	0.8+
1981 03 07	413	(2.9+	1.6−)	2000 02 29	704	0.1+	0.0	2000 03 11	699	0.1+	0.8+
1981 03 11	413	0.5−	1.4−	2000 02 29	704	0.1−	0.5+	2000 03 11	699	0.5+	0.6+
1981 03 16	413	0.4−	0.2−	2000 03 03	704	0.3+	0.4+	2000 03 11	699	0.2+	0.6+

1986 AB = 1991 CP₅ = 2000 AB₁₄₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	127.88395		(2000.0)	P	Q		
n	0.21781793	ω	54.74271	+0.97738433	-0.11244384		
a	2.7357325	Ω	310.99645	+0.00063404	+0.84847275		
e	0.2006735	i	13.72694	+0.21146979	+0.51715605		
P	4.52	H	12.4	G	0.15	U	3

Residuals in seconds of arc

1986 01 11	881	1.7+	1.0−	1999 11 04	703	0.2+	0.0	2000 02 02	704	0.3+	0.0
1986 01 11	881	1.3+	2.3−	1999 11 04	703	0.4+	0.5+	2000 02 02	704	0.1+	0.1+
1986 01 17	881	0.4+	1.6+	1999 11 04	703	0.8+	1.9+	2000 02 02	704	0.3+	0.0
1986 01 17	881	2.4−	0.1+	1999 11 04	703	0.3+	0.5+	2000 02 05	704	0.5−	0.0
1986 02 08	889	0.5−	1.9−	1999 12 05	704	0.9+	0.4+	2000 02 05	704	1.5−	1.4+
1986 02 08	889	0.8−	1.7−	1999 12 05	704	0.4+	0.2+	2000 02 05	704	0.2+	0.4+
1986 02 09	889	1.5−	0.6−	1999 12 05	704	0.8+	0.4+	2000 02 06	704	0.5+	0.7+
1986 02 09	889	1.8−	1.9−	1999 12 05	703	0.3−	0.9+	2000 02 06	704	0.3+	0.7+
1991 02 08	675	0.5−	1.1−	1999 12 05	704	1.1+	0.5+	2000 02 06	704	0.6+	0.6+
1991 02 08	675	0.0	1.2−	1999 12 05	703	0.6+	0.6+	2000 02 06	704	0.7+	0.4+
1995 03 23	033	0.0	0.3+	1999 12 05	704	0.4+	0.5−	2000 02 12	704	(4.8−	0.4−)
1995 03 23	033	0.3+	1.0+	1999 12 05	703	0.7+	0.4+	2000 02 12	704	1.0−	0.2−
1998 08 29	704	0.1+	0.1−	1999 12 05	703	0.1+	0.7+	2000 02 12	704	0.1+	0.5+
1998 08 29	704	0.0	0.5−	2000 01 05	704	0.1+	0.8−	2000 02 13	704	0.1+	0.5+
1998 08 29	704	0.1+	0.8−	2000 01 05	704	0.9+	1.4−	2000 02 13	704	1.1−	1.0+
1998 08 29	704	(3.0−	1.5−)	2000 01 05	704	0.7+	1.1−	2000 02 13	704	2.0+	1.0+
1998 08 29	704	0.0	0.5−	2000 01 05	704	0.4+	1.2−	2000 02 13	704	0.7+	0.1+
1998 12 24	699	0.0	0.5+	2000 01 05	704	0.4+	1.5−	2000 02 13	704	1.5−	0.6+
1998 12 24	699	0.1−	0.3+	2000 01 08	704	0.0	0.4−	2000 02 28	888	0.2−	0.3+
1998 12 24	699	0.0	0.6+	2000 01 08	704	0.2−	0.1−	2000 02 28	888	0.1−	0.2−
1999 01 08	704	0.1−	0.2+	2000 01 08	704	0.5−	1.0−	2000 02 28	888	0.1−	0.1+
1999 01 08	704	0.0	1.1+	2000 01 08	704	0.0	0.0	2000 03 06	704	0.8−	1.1−
1999 01 08	704	0.8−	0.6+	2000 01 08	704	0.2+	0.9−	2000 03 06	704	0.3−	0.4+
1999 01 08	704	0.4−	0.7+	2000 02 02	704	1.1−	0.8+	2000 03 06	704	0.9−	0.4+
1999 01 08	704	0.5+	0.1+	2000 02 02	704	0.3+	0.2+	2000 03 06	704	0.2−	0.4+

1986 QY₁ = 1981 VG₁ = 2000 DG₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	128.74596		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17784164	ω	201.85702	+0.99260148	−0.12121173
a	3.1317019	Ω	165.09981	+0.11507484	+0.92056978
e	0.1405092	i	1.57603	+0.03873084	+0.37129368
P	5.54	H	13.4	G 0.15	U 1

Residuals in seconds of arc

1981 11 03	033	0.3−	0.5+	1986 09 08	809	0.2+	0.4−	2000 03 03	704	0.1+	0.0
1981 11 03	033	0.2−	0.9+	1998 12 22	704	1.9−	0.2+	2000 03 03	704	0.1+	0.1−

1986 08 28	809	0.7−	0.1+	1998 12 22	704	1.0+	0.9−	2000 03 03	704	0.6+	0.6−
1986 08 28	809	0.2−	0.1+	1998 12 22	704	0.6+	0.1+	2000 03 04	691	0.1+	0.4−
1986 08 28	809	0.1+	0.2+	1998 12 22	704	0.3−	0.8−	2000 03 04	691	0.1−	0.1−
1986 08 30	809	0.2+	0.1−	1999 01 05	699	0.7+	1.2+	2000 03 04	691	0.1+	0.5−
1986 08 30	809	0.3+	0.2−	1999 01 05	699	0.1+	0.2−	2000 03 04	691	0.6−	0.0
1986 08 30	809	0.2+	0.4−	1999 01 05	699	0.1+	0.7−	2000 03 04	691	0.0	0.6−
1986 09 02	809	0.1−	0.3−	2000 02 26	691	0.1−	0.2−	2000 03 04	691	0.1+	0.1−
1986 09 02	809	0.2−	0.3−	2000 02 26	691	0.1−	0.6−	2000 03 05	704	0.8+	0.7+
1986 09 02	809	0.0	0.4−	2000 02 26	691	0.0	0.4−	2000 03 05	704	0.6+	0.3−
1986 09 03	809	0.8+	0.0	2000 02 27	703	0.1−	0.2−	2000 03 05	704	0.2+	0.2−
1986 09 03	809	0.7+	0.0	2000 02 27	703	0.3−	1.0+	2000 03 05	704	0.9+	0.3+
1986 09 03	809	0.7+	0.0	2000 02 27	703	0.1+	0.4+	2000 03 05	704	0.8+	1.1−
1986 09 05	809	0.0	0.2+	2000 02 27	703	0.5−	0.4+	2000 03 09	691	0.4+	0.4−
1986 09 05	809	0.2−	0.2+	2000 02 29	704	0.9+	0.3+	2000 03 09	691	0.4+	0.4−
1986 09 05	809	0.4−	0.1+	2000 02 29	704	0.3+	0.6−	2000 03 09	691	0.6+	0.4−
1986 09 06	809	0.3−	0.2−	2000 02 29	704	1.0−	1.0+	2000 03 11	704	0.0	0.7+
1986 09 06	809	0.1−	0.5−	2000 02 29	704	0.8−	0.7+	2000 03 11	704	0.1−	0.0
1986 09 06	809	0.1+	0.5−	2000 02 29	704	1.3−	0.5+	2000 03 11	704	0.0	1.0+
1986 09 07	809	0.4−	0.2−	2000 03 02	691	0.7−	1.0−	2000 03 11	704	0.2−	0.5+
1986 09 07	809	0.1+	0.3−	2000 03 02	691	0.4−	0.5−	2000 03 11	704	0.4−	0.9+
1986 09 07	809	0.3+	0.5−	2000 03 02	691	0.2−	0.4−	2000 03 12	691	0.7−	0.4−
1986 09 08	809	0.0	0.2−	2000 03 03	704	0.6+	0.9−	2000 03 12	691	0.8−	0.5−
1986 09 08	809	0.1+	0.5−	2000 03 03	704	0.2+	0.4−	2000 03 12	691	0.6−	0.5−

1987 DL₆ = 1999 VD₇₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	247.37621	(2000.0)	P	Q	
<i>n</i>	0.28267433	ω	186.60495	−0.99942114	−0.02857663
<i>a</i>	2.2993856	Ω	351.69011	+0.03399645	−0.85922123
<i>e</i>	0.1347121	<i>i</i>	7.33809	−0.00127324	−0.51080549
<i>P</i>	3.49	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1987 02 23	809	0.5−	1.1−	1987 03 04	809	0.5−	0.6+	1999 10 20	704	0.2+	0.0
1987 02 23	809	0.2−	1.3−	1987 03 05	809	0.4+	0.1+	1999 10 20	704	0.5+	0.4−
1987 02 23	809	0.1+	1.3−	1987 03 05	809	0.2+	0.2+	1999 10 20	704	0.2+	0.1−
1987 02 24	809	0.4−	0.6−	1987 03 05	809	0.3+	0.4+	1999 10 20	704	0.4+	0.8−
1987 02 24	809	0.2−	0.6−	1987 03 06	809	0.5+	0.7+	1999 10 20	704	1.1+	0.1−
1987 02 24	809	0.2+	0.6−	1987 03 06	809	0.0	0.7+	1999 11 04	703	0.3−	0.1+
1987 02 26	809	0.3−	0.0	1987 03 06	809	0.3+	0.8+	1999 11 04	703	1.4−	0.4+
1987 02 26	809	0.2−	0.0	1987 03 07	809	0.7+	0.9+	1999 11 04	704	0.1+	0.7+
1987 02 26	809	0.2+	0.1−	1987 03 07	809	1.1+	0.9+	1999 11 04	703	0.2−	0.7+
1987 02 27	809	0.0	0.1+	1987 03 07	809	0.9+	1.0+	1999 11 04	704	0.1+	0.7−
1987 02 27	809	0.2+	0.2+	1994 04 06	033	0.7−	0.6−	1999 11 04	703	1.1−	0.2−
1987 02 27	809	0.7+	0.0	1994 04 08	033	0.4−	0.0	1999 11 04	704	0.6−	0.0
1987 03 02	809	0.1−	0.2−	1994 04 08	033	0.0	1.1−	1999 11 04	704	0.3+	0.1+
1987 03 02	809	0.3−	0.1−	1999 09 05	703	1.5−	1.7+	1999 11 04	704	0.8−	0.9+
1987 03 02	809	0.1+	0.0	1999 09 05	703	0.1−	1.2+	1999 11 05	704	0.3−	0.1+
1987 03 03	809	0.8−	0.2−	1999 09 05	703	0.4+	1.9−	1999 11 05	704	0.2+	0.9−
1987 03 03	809	0.6−	0.2−	1999 09 05	703	0.2−	0.5−	1999 11 05	704	0.1−	0.4+
1987 03 03	809	0.0	0.2−	1999 10 03	704	0.1+	1.2+	1999 11 05	704	1.0+	0.7−
1987 03 04	809	0.8−	0.6+	1999 10 03	704	0.7+	0.4−	1999 11 05	704	0.6+	0.1−
1987 03 04	809	0.4−	0.6+	1999 10 03	704	0.4+	0.9−				

1988 CU = 2000 CJ₄₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	59.54907	(2000.0)	P	Q	
<i>n</i>	0.25485118	ω	336.10266	−0.46368912	−0.84386463
<i>a</i>	2.4638350	Ω	139.97707	+0.86541894	−0.49667270
<i>e</i>	0.2163436	<i>i</i>	24.82207	+0.18984850	+0.20299931
<i>P</i>	3.87	<i>H</i>	13.6	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1988 02 13	875	0.9−	0.3+	Y	1988 02 24	875	(3.8−	4.8−)	2000 02 06	704	0.4+	0.3+
1988 02 13	875	(1.7+	3.6+)	Y	1988 03 10	875	1.3+	0.4−	2000 02 06	704	0.2−	0.1+
1988 02 17	875	0.1+	0.4−		1988 03 10	875	0.3+	1.7+	2000 02 06	704	0.1+	0.2+
1988 02 19	675	0.7−	0.6−		2000 02 04	704	1.1+	0.3+	2000 02 08	704	0.2+	1.1+
1988 02 19	875	(2.6+	3.5+)		2000 02 04	704	0.1+	0.3+	2000 02 08	704	0.0	0.1+
1988 02 19	875	2.3+	1.2−		2000 02 04	704	0.2−	0.7+	2000 02 08	704	0.1+	0.9+
1988 02 21	675	1.3−	0.2+		2000 02 04	704	1.8−	0.4+	2000 03 14	703	0.9+	1.3−
1988 02 22	875	(0.2−	3.9+)		2000 02 04	704	0.0	0.8+	2000 03 14	703	0.4+	0.8−
1988 02 24	875	0.9−	0.0		2000 02 06	704	0.6−	0.7−	2000 03 14	703	0.1−	0.8−
1988 02 24	875	(1.6−	3.0−)		2000 02 06	704	0.9−	1.0+	2000 03 14	703	0.4−	1.2−

1988 RX₃ = 2000 DS₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	189.81657	(2000.0)	P	Q	
<i>n</i>	0.21181571	ω	164.93006	+0.88283585	+0.46933582
<i>a</i>	2.7871731	Ω	167.03332	−0.43880439	+0.83787197
<i>e</i>	0.0745154	<i>i</i>	4.60649	−0.16748604	+0.27873723
<i>P</i>	4.65	<i>H</i>	14.2	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1988 09 08	033	0.2+	0.8+	1998 12 15	704	0.6+	1.6−	2000 03 05	704	0.3+	1.5+
1988 09 09	033	0.4−	0.5+	2000 02 06	704	0.5+	0.0	2000 03 05	704	0.2+	0.4+
1988 09 09	033	1.1+	0.7+	2000 02 06	704	0.5−	0.2−	2000 03 05	704	0.4+	0.8+
1988 09 10	033	0.4+	0.8+	2000 02 06	704	0.2+	0.3−	2000 03 05	704	0.1−	0.1−
1988 09 10	033	0.5−	0.2+	2000 02 06	704	0.3−	0.3+	2000 03 09	704	0.1+	0.2−
1988 09 15	675	0.7+	0.0	2000 02 29	704	0.6+	1.1+	2000 03 09	704	0.1−	0.2−
1988 09 15	675	1.6−	0.0	2000 02 29	704	0.2+	0.8+	2000 03 09	704	0.1+	0.5−
1988 10 05	807	1.0+	0.8−	2000 02 29	704	0.6−	0.4+	2000 03 09	704	1.1+	0.7−
1988 10 08	807	0.7+	0.9−	2000 02 29	704	0.2−	0.9+	2000 03 11	704	0.2−	0.1−
1988 11 04	807	0.5−	0.4+	2000 03 03	704	0.0	0.4+	2000 03 11	699	0.1−	0.6−
1988 11 05	807	0.4−	0.7−	2000 03 03	704	0.4+	0.3+	2000 03 11	704	0.2−	0.2−
1988 11 06	807	1.0−	0.0	2000 03 03	704	0.1+	0.3+	2000 03 11	704	0.5+	0.8−
1988 11 07	807	0.3−	0.2−	2000 03 03	704	0.2+	0.1+	2000 03 11	699	0.2−	0.1+
1997 10 05	910	0.3−	0.7+	2000 03 03	704	0.3+	0.2+	2000 03 11	699	0.5+	0.5−
1997 10 05	910	0.2−	0.7+	2000 03 04	704	0.8+	0.1−	2000 03 11	699	0.4−	0.7−
1997 10 05	910	0.1−	0.6+	2000 03 04	704	0.3+	0.6+	2000 03 15	691	1.0−	0.7−
1998 12 15	704	1.2+	0.6−	2000 03 04	704	0.9+	0.2+	2000 03 15	691	1.2−	0.5−
1998 12 15	704	0.2−	0.4+	2000 03 04	704	0.8−	0.7+	2000 03 15	691	0.9−	0.4−
1998 12 15	704	1.5−	1.6+	2000 03 05	704	0.1+	0.5+				

1988 RO₁₂ = 2000 DV₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	15.52528	(2000.0)	P	Q	
<i>n</i>	0.12589144	ω	42.61206	−0.82762326	−0.56118654
<i>a</i>	3.9428045	Ω	103.24719	+0.51203093	−0.76250115
<i>e</i>	0.0256879	<i>i</i>	0.61568	+0.22992186	−0.32196532
<i>P</i>	7.83	<i>H</i>	12.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1988 09 14	807	0.0	0.2+	1998 01 17	910	0.3−	0.1+	2000 03 11	704	0.3+	0.1+
1988 09 15	807	0.1+	0.3−	2000 02 29	704	0.7−	0.3+	2000 03 11	704	0.3+	0.3−
1988 09 16	807	0.2+	0.2+	2000 02 29	704	0.1−	0.8−	2000 03 11	704	0.2+	0.5−
1988 10 04	807	0.1+	1.1+	2000 02 29	704	0.2+	0.3−	2000 03 11	699	0.2+	0.1+
1988 10 05	807	0.2−	0.4−	2000 02 29	704	0.4+	0.5−	2000 03 11	699	0.1+	0.2−
1988 10 08	807	0.0	0.2−	2000 03 03	704	0.0	0.1+	2000 03 11	699	0.3−	0.1−
1988 11 03	807	0.2+	0.2−	2000 03 03	704	0.3+	0.8+	2000 03 11	699	0.0	0.8+
1988 11 06	807	0.5−	1.1−	2000 03 03	704	0.5−	0.6+	2000 03 15	691	0.4+	1.0−
1988 11 08	807	0.2+	0.1+	2000 03 03	704	0.1−	0.1−	2000 03 15	691	0.8−	0.6−
1998 01 17	910	0.3+	0.1−	2000 03 03	704	0.0	0.7+	2000 03 15	691	0.8−	0.3+
1998 01 17	910	0.0	0.2+	2000 03 11	704	0.8+	0.3+				

2000 MAR. 20

M.P.C. 39143

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	115.79185		(2000.0)	P	Q
<i>n</i>	0.20191694	ω	213.17224	+0.57865670	-0.81551017
<i>a</i>	2.8775367	Ω	201.47688	+0.75407913	+0.53964840
<i>e</i>	0.0528533	<i>i</i>	1.56187	+0.31067844	+0.20909988
<i>P</i>	4.88	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1988 12 05	381	0.7-	0.9-	1998 12 22	704	0.1+	0.1-	2000 03 10	704	0.2+	0.2-
1988 12 06	381	0.5+	1.0-	1998 12 22	704	0.3+	0.5-	2000 03 10	704	0.7+	0.1-
1988 12 07	381	0.1+	0.1-	1998 12 22	704	0.1-	0.5+	2000 03 10	704	0.8+	1.3+
1988 12 08	381	0.6+	0.6-	2000 02 27	703	0.6-	0.6+	2000 03 10	704	0.6+	0.6+
1998 12 15	704	(2.3-	1.9+)	2000 02 27	703	1.4-	0.4-	2000 03 10	704	0.4+	0.6+
1998 12 15	704	0.1-	1.7+	2000 02 27	703	0.7-	0.1-	2000 03 11	704	0.9-	0.6-
1998 12 15	704	0.3-	0.1-	2000 02 27	703	1.0-	0.3+	2000 03 11	704	0.5-	0.3-
1998 12 15	704	0.6-	1.3-	2000 02 29	704	0.1-	0.6+	2000 03 11	704	0.0	1.6-
1998 12 16	704	0.2+	1.1-	2000 02 29	704	1.7+	0.1+	2000 03 11	704	0.6-	1.5-
1998 12 16	704	0.9+	0.5+	2000 02 29	704	1.0+	0.0	2000 03 11	704	(2.2-	1.5-)
1998 12 16	704	1.4-	1.0+	2000 02 29	704	1.3+	1.2+	2000 03 14	703	0.8-	0.3-
1998 12 16	704	1.1+	1.8+	2000 03 08	704	0.5-	1.8-	2000 03 14	703	0.4-	0.0
1998 12 16	704	0.9-	1.8+	2000 03 08	704	1.1-	0.7-	2000 03 14	703	0.3-	0.3+
1998 12 22	704	0.0	0.8-	2000 03 08	704	0.6+	0.3-	2000 03 14	703	0.3-	0.5+
1998 12 22	704	1.0+	1.1-	2000 03 08	704	1.4+	0.9+				

1989 AD₆ = 1982 UK₅ = 1995 FE₁ = 2000 CW₆₂

Id. M. E. Sansaturio, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	68.09720		(2000.0)	P	Q
<i>n</i>	0.18988206	ω	256.55753	+0.02092402	-0.99911110
<i>a</i>	2.9978744	Ω	192.41835	+0.97046056	+0.02909627
<i>e</i>	0.0871213	<i>i</i>	9.79780	+0.24035075	-0.03050279
<i>P</i>	5.19	<i>H</i>	13.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1982 10 20	033	0.4+	0.1-	1998 12 22	704	0.5+	0.3-	2000 02 08	704	0.5+	0.8-
1989 01 09	033	0.2+	0.9-	1998 12 22	704	0.0	0.4+	2000 02 08	704	0.7+	0.3+
1989 01 09	033	0.6-	0.2+	1998 12 22	704	(0.6+	2.4+)	2000 02 08	704	0.3+	0.2+
1989 01 11	033	0.4+	0.1+	2000 01 05	704	1.5-	1.2-	2000 02 08	704	1.1+	1.2+
1989 01 11	033	0.1+	0.2-	2000 01 05	704	1.7-	0.5-	2000 02 08	704	1.0+	1.1+
1989 02 03	033	0.1+	0.4+	2000 01 05	704	(3.1-	0.4-)	2000 03 08	704	0.7+	0.2+
1989 02 03	033	0.1-	0.3-	2000 02 02	704	0.9+	0.4+	2000 03 08	704	0.1-	0.3-
1995 03 28	399	1.7-	0.3-	2000 02 02	704	0.1+	0.1-	2000 03 08	704	0.0	0.8-
1995 03 28	399	(3.0-	0.0)	2000 02 02	704	0.6+	0.5-	2000 03 08	704	0.7+	0.3+
1998 11 13	704	0.3+	0.6-	2000 02 02	704	1.1+	1.0+	2000 03 08	704	0.5+	0.1+
1998 11 13	704	0.3-	0.4+	2000 02 02	704	0.2-	0.4-	2000 03 13	704	0.8+	0.1-
1998 11 13	704	0.5-	0.7+	2000 02 07	704	1.5-	0.5-	2000 03 13	704	0.0	0.4+
1998 11 13	704	1.4-	0.4+	2000 02 07	704	1.1-	0.3-	2000 03 13	704	0.4+	0.1+
1998 11 13	704	0.3+	0.8-	2000 02 07	704	1.2-	1.1-	2000 03 13	704	0.9+	0.4+
1998 12 22	704	(2.4+	0.5-)	2000 02 07	704	0.9-	0.4+	2000 03 13	704	0.2+	0.5+
1998 12 22	704	0.5+	0.7+	2000 02 07	704	1.0-	0.4+				

1989 CO₂ = 2000 EG₈₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	322.57535		(2000.0)	P	Q
<i>n</i>	0.18370720	ω	293.34185	-0.90793667	+0.37688188
<i>a</i>	3.0646809	Ω	269.21488	-0.28517643	-0.87610746
<i>e</i>	0.0718004	<i>i</i>	10.56497	-0.30712441	-0.30065889
<i>P</i>	5.37	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1989 02 04	809	1.6-	0.3-	2000 01 11	704	0.2-	0.8-	2000 03 09	704	0.2-	0.0
1989 02 04	809	1.2-	0.3-	2000 01 11	704	0.9-	0.2-	2000 03 09	704	0.1+	0.2-
1989 02 04	809	1.3-	0.3+	2000 01 11	704	1.3-	0.3-	2000 03 09	704	0.0	0.1-
1989 02 07	809	1.3+	0.6+	2000 02 07	703	0.3+	0.0	2000 03 09	704	0.1+	0.0
1989 02 07	809	0.3+	0.2+	2000 02 07	703	0.8+	0.4+	2000 03 09	704	0.5+	0.1-

1989 02 07	809	0.2+	0.7+	2000 02 07	703	0.6+	0.4+	2000 03 13	704	0.7-	0.2-
1989 03 02	809	0.3+	0.0	2000 02 07	703	0.5+	0.2+	2000 03 13	704	0.5-	0.2-
1989 03 02	809	0.4+	0.9-	2000 02 08	704	0.5+	0.5+	2000 03 13	704	0.1-	0.7-
1989 03 02	809	1.0+	1.3-	2000 02 08	704	0.5+	0.2+	2000 03 13	704	0.4-	0.7-
1989 03 03	809	0.5+	0.5+	2000 02 08	704	1.0+	0.3+	2000 03 13	704	1.0-	0.3-
1989 03 03	809	0.1+	0.7+	2000 02 08	704	1.4-	0.4+	2000 03 14	703	0.2-	0.2-
1989 03 03	809	0.1+	0.4-	2000 02 08	704	0.6+	0.2-	2000 03 14	703	0.4-	0.1-
1999 12 16	704	0.2+	0.0	2000 03 03	703	0.4+	0.3-	2000 03 14	703	0.2+	0.3+
1999 12 16	704	0.1-	0.3-	2000 03 03	703	0.2+	0.1+	2000 03 14	703	0.5+	0.2-
1999 12 16	704	0.2+	0.5-	2000 03 03	703	0.1+	0.2+				
1999 12 16	704	0.0	0.8+	2000 03 03	703	0.2-	2.0+				

1989 CH₅ = 2000 AF₂₄₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	45.68729		(2000.0)	P	Q
<i>n</i>	0.17355513	ω	280.00385	+0.47022723	-0.86050184
<i>a</i>	3.1830570	Ω	139.97230	+0.88084497	+0.44381815
<i>e</i>	0.1285944	<i>i</i>	17.74456	+0.05475849	+0.25012405
<i>P</i>	5.68	<i>H</i>	12.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1989 02 02	033	0.2+	0.2+	1989 02 10	033	0.1+	0.3+	2000 01 07	704	0.2-	0.2-
1989 02 04	033	0.7+	0.2+	1989 02 10	033	0.7+	0.5+	2000 01 11	704	0.3+	0.1-
1989 02 08	809	0.3-	0.6-	1989 02 12	809	0.2-	0.3+	2000 01 11	704	(0.8+	2.9-)
1989 02 08	809	0.0	0.6-	1989 02 12	809	0.1-	0.2+	2000 01 11	704	1.6-	0.1-
1989 02 08	809	0.0	0.4-	1989 02 12	809	0.5+	0.0	2000 01 11	704	0.2+	0.1-
1989 02 09	809	1.2-	0.2+	1989 03 10	033	0.5+	0.2-	2000 01 11	704	0.5+	0.5-
1989 02 09	809	1.0-	0.2+	1989 03 10	033	0.3+	0.1-	2000 02 04	704	0.4+	0.3+
1989 02 09	809	0.7-	0.2+	2000 01 07	704	0.2-	0.5+	2000 02 04	704	0.1-	0.4+
1989 02 10	809	0.2+	0.3-	2000 01 07	704	0.1-	0.2+	2000 02 04	704	0.7+	0.7-
1989 02 10	809	0.1+	0.0	2000 01 07	704	0.2+	0.3+				
1989 02 10	809	0.4+	0.1+	2000 01 07	704	0.1+	0.1-				

1989 CA₆ = 1999 XX₂₀₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	297.07463		(2000.0)	P	Q
<i>n</i>	0.17488974	ω	234.58228	-0.94027234	+0.29339095
<i>a</i>	3.1668427	Ω	321.62991	-0.14285910	-0.80042851
<i>e</i>	0.1060800	<i>i</i>	16.14948	-0.30899710	-0.52271976
<i>P</i>	5.64	<i>H</i>	13.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1989 02 02	033	0.0	0.4+	1998 11 16	704	1.8-	1.4+	1999 12 15	704	0.3-	1.3-
1989 02 04	033	0.1+	0.1-	1998 11 16	704	0.4-	0.8-	1999 12 15	704	0.2-	0.0
1989 02 10	033	0.4-	0.2-	1998 11 16	704	1.0+	1.1-	1999 12 15	704	0.2+	0.2-
1989 02 10	033	0.4+	0.0	1998 11 16	704	0.3+	0.9-	2000 01 02	704	0.3-	0.1-
1998 11 14	704	0.3+	0.4+	1998 11 16	704	0.7-	1.4+	2000 01 02	704	1.6+	0.3-
1998 11 14	704	1.4-	1.6-	1999 12 12	704	0.5-	0.0	2000 01 02	704	0.6-	0.8-
1998 11 14	704	0.8+	0.4+	1999 12 12	704	0.2-	0.2+	2000 01 02	704	0.3-	0.6+
1998 11 14	704	1.0+	0.1+	1999 12 12	704	0.1-	0.4+				
1998 11 14	704	0.9+	0.8+	1999 12 12	704	0.6+	1.3+				

1989 ST₁₀ = 1981 TX₂ = 1981 UQ₁₉ = 1988 GM₂ = 2000 CF₆₃

Id. M. E. Sansaturio, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	230.29246		(2000.0)	P	Q
<i>n</i>	0.24173870	ω	134.91444	+0.65541847	+0.75518430
<i>a</i>	2.5521445	Ω	175.98931	-0.72994309	+0.63714995
<i>e</i>	0.2047221	<i>i</i>	9.13473	-0.19393225	+0.15406691
<i>P</i>	4.08	<i>H</i>	12.8	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1981 10 06	095	2.1−	0.4−	1999 01 18	704	1.7−	1.2−	2000 02 27	703	0.4−	0.3+
1981 10 26	095	(0.5−	2.8+)	1999 01 18	704	0.7−	1.5+	2000 02 27	703	0.0	0.3+
1988 04 14	054	0.6−	0.6−	1999 01 18	704	1.1−	1.6−	2000 02 27	703	0.1−	0.3+
1989 09 28	809	0.0	1.1+	1999 01 20	704	(2.5−	0.1+)	2000 02 29	704	0.1−	0.4+
1989 09 28	809	0.3+	0.9+	1999 01 20	704	1.7+	0.4+	2000 02 29	704	0.0	0.2+
1989 09 28	809	0.6+	0.6+	1999 01 20	704	0.8+	0.9+	2000 02 29	704	0.2−	0.2+
1989 09 29	809	0.1−	1.9+	1999 01 20	704	0.6+	0.9−	2000 02 29	704	0.2−	0.4+
1989 09 29	809	0.0	1.8+	1999 11 08	703	0.1−	0.6+	2000 02 29	704	0.2−	0.1+
1989 09 29	809	0.4+	1.6+	1999 11 08	703	0.7−	0.2+	2000 03 03	704	0.1−	0.7+
1989 09 29	675	0.1−	0.3+	1999 11 08	703	0.7+	0.6+	2000 03 03	704	0.1+	0.6+
1989 09 29	675	0.2−	0.7+	1999 11 08	703	1.0+	0.1+	2000 03 03	704	0.2+	0.5+
1989 10 03	808	(1.4−	3.1−)	1999 12 16	704	0.6−	0.0	2000 03 03	704	0.1+	0.8+
1989 10 03	808	0.5+	1.3+	1999 12 16	704	0.3+	1.8−	2000 03 03	704	0.4+	0.9+
1996 02 24	566	0.3+	0.0	1999 12 16	704	0.3+	0.8−	2000 03 08	704	0.6+	0.0
1996 02 24	566	0.1−	0.4−	1999 12 16	704	0.0	1.7−	2000 03 08	704	0.0	0.3−
1996 02 24	566	0.5−	0.0	2000 01 05	704	0.5−	0.1−	2000 03 08	704	0.7−	0.1+
1996 02 25	413	(4.0−	0.8+)	2000 01 05	704	0.9−	0.3+	2000 03 08	704	0.1−	0.0
1996 02 25	413	0.1−	0.1+	2000 01 05	704	0.5−	0.3−	2000 03 08	704	0.2+	0.0
1996 03 18	566	0.4+	0.2+	2000 01 05	704	0.5−	0.1−	2000 03 09	704	0.3+	0.2+
1996 03 18	566	0.8+	0.1+	2000 02 02	704	0.3+	0.5+	2000 03 09	704	0.2+	0.1+
1996 03 18	566	0.2+	0.0	2000 02 02	704	0.6+	0.8+	2000 03 09	704	0.3+	0.0
1997 08 30	566	0.5−	0.2−	2000 02 02	704	0.4+	1.2+	2000 03 09	704	0.2+	0.1+
1997 08 30	566	0.4−	0.1−	2000 02 02	704	0.2+	0.9+	2000 03 09	704	0.6+	0.2−
1997 08 30	566	0.7−	0.3−	2000 02 02	704	0.2−	1.2+	2000 03 11	704	0.0	0.3+
1997 10 29	566	0.0	0.1−	2000 02 07	704	0.9−	0.4−	2000 03 11	704	0.1+	0.6+
1997 10 29	566	0.1−	0.1−	2000 02 07	704	0.8+	0.8−	2000 03 11	704	0.1−	0.6+
1997 10 29	566	0.0	0.1−	2000 02 07	704	0.2−	0.7−	2000 03 11	704	0.1+	0.1−
1998 12 15	704	0.2−	0.1+	2000 02 07	704	0.5−	1.7−	2000 03 11	704	0.2−	0.9+
1998 12 15	704	1.3−	1.7−	2000 02 07	704	0.8+	1.1−	2000 03 11	699	0.3−	0.5+
1998 12 15	704	0.4−	0.5−	2000 02 08	704	0.0	0.7+	2000 03 11	699	0.0	0.3+
1998 12 15	704	0.6+	0.4−	2000 02 08	704	0.2+	0.1+	2000 03 11	699	0.4−	0.5+
1998 12 15	704	0.8+	0.7−	2000 02 08	704	0.1+	0.1−	2000 03 11	699	0.2−	0.2+
1998 12 22	704	1.4−	0.5+	2000 02 08	704	0.3+	0.1−	2000 03 12	704	0.1+	0.5+
1998 12 22	704	0.9+	0.1−	2000 02 08	704	0.3−	0.8−	2000 03 12	704	0.5+	0.4+
1998 12 22	704	1.0−	0.8+	2000 02 16	703	0.1+	0.2+	2000 03 12	704	0.3+	1.3+
1998 12 22	704	1.3+	1.2−	2000 02 16	703	0.2+	0.3+	2000 03 12	704	0.6+	0.8+
1998 12 22	704	0.5−	0.1−	2000 02 16	703	0.1+	0.1+	2000 03 12	704	0.4+	0.7+
1999 01 18	704	1.3+	1.9+	2000 02 16	703	0.2+	0.2+				
1999 01 18	704	(2.0+	0.3+)	2000 02 27	703	0.2+	0.3+				

1989 TQ = 1992 NE

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	93.65320		(2000.0)	P	Q
n	0.29742052	ω	61.20529	+0.54890218	+0.83147108
a	2.2227405	Ω	242.33705	−0.79671568	+0.48936107
e	0.2140417	i	5.55937	−0.25288440	+0.26302392
P	3.31	H	14.0	G 0.15	U 1

Residuals in seconds of arc

1989 10 07	403	1.8−	0.6+	1999 09 08	704	0.1+	0.4−	1999 11 05	704	(0.7+	2.0−)
1989 10 07	403	0.1−	0.5−	Y 1999 09 08	704	1.6−	0.5−	1999 11 16	704	0.4+	1.1+
1989 10 08	403	0.6−	0.7−	Y 1999 09 18	704	0.0	0.1−	1999 11 16	704	1.4+	0.2+
1989 10 08	403	1.1+	0.2−	1999 09 18	704	0.1+	0.1+	1999 11 16	704	1.1+	0.2+
1989 10 10	413	1.0+	1.1+	1999 09 18	704	0.1+	0.1+	1999 11 16	704	1.1+	0.2−
1989 10 10	413	0.3+	0.3−	1999 09 18	704	0.0	0.1+	1999 11 16	704	0.1+	1.1−
1992 07 02	675	0.3+	1.1−	1999 09 18	704	0.2−	0.1+	1999 11 27	699	0.6−	0.1+
1992 07 02	675	(0.5+	2.4−)	1999 10 01	703	0.3−	0.0	1999 11 27	699	0.3−	0.3+
1992 07 05	675	0.3+	1.3−	1999 10 01	703	0.0	0.2−	1999 11 27	699	0.5−	1.1+
1992 07 05	675	0.3−	0.4−	1999 10 01	703	0.2−	0.1−	1999 12 05	704	0.3+	0.5−
1998 02 24	566	0.9−	1.6−	1999 10 01	703	0.2−	0.1+	1999 12 05	704	0.4+	0.7−
1998 02 24	566	0.7−	1.7−	1999 10 03	704	0.2−	0.1+	1999 12 05	704	0.3+	0.4−
1998 02 24	566	0.6−	1.3−	1999 10 03	704	0.7−	0.4+	1999 12 05	704	0.5+	0.1+
1999 07 23	704	1.0−	0.2−	1999 10 03	704	0.8−	0.4+	1999 12 05	704	1.3+	0.2+
1999 07 23	704	0.6−	0.1−	1999 10 03	704	0.8−	0.1+	1999 12 13	699	0.3−	0.0
1999 07 23	704	0.5−	0.1+	1999 10 20	704	(2.5−	0.5−)	1999 12 13	699	0.2−	0.0

1999 07 23	704	0.4−	0.3−	1999 10 20	704	0.5−	0.2−	1999 12 13	699	0.4−	0.3−
1999 09 05	703	0.0	0.1−	1999 10 20	704	0.2+	0.0	2000 01 07	704	0.7−	0.6+
1999 09 05	703	0.0	0.3+	1999 10 20	704	0.0	0.0	2000 01 07	704	0.3−	0.1−
1999 09 05	703	0.3−	0.1+	1999 10 20	704	0.0	0.0	2000 01 07	704	0.0	0.2−
1999 09 05	703	0.4−	0.4+	1999 11 05	704	1.2+	0.4−	2000 01 07	704	1.2−	0.3+
1999 09 08	704	1.3+	0.3−	1999 11 05	704	0.8+	0.9−	2000 01 07	704	0.2+	0.1−
1999 09 08	704	0.4+	0.1−	1999 11 05	704	1.0+	1.0−				
1999 09 08	704	0.5+	0.6−	1999 11 05	704	1.2+	1.5−				

1989 TV₅ = 2000 EV₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	150.38207		(2000.0)	P	Q
n	0.22741795	ω	185.80316	+0.99991832	−0.00388242
a	2.6581912	Ω	174.37599	+0.00715081	+0.95960941
e	0.3141775	i	7.13754	−0.01059291	+0.28130890
P	4.33	H	14.9	G 0.15	U 5

Residuals in seconds of arc

1989 10 02	807	0.5+	0.6−	1998 12 15	704	(0.9+	2.2+)	2000 03 03	704	1.0+	0.4+
1989 10 06	807	0.5+	0.3−	1998 12 15	704	1.6+	0.6−	2000 03 03	704	0.9+	0.4+
1989 10 07	809	0.4−	0.2+	1998 12 15	704	(2.4+	0.3−)	2000 03 03	704	0.6+	0.8−
1989 10 07	809	0.1+	0.1+	1998 12 15	704	(3.6−	0.3+)	2000 03 03	691	0.1−	0.1−
1989 10 07	809	0.2−	0.6+	1998 12 22	704	0.6−	0.1−	2000 03 03	691	0.2−	0.3−
1989 10 08	809	0.1−	0.3−	1998 12 22	704	(2.6+	0.4+)	2000 03 03	691	0.0	0.2−
1989 10 08	809	0.3−	0.0	1998 12 22	704	1.0−	0.3+	2000 03 04	691	0.9−	0.2−
1989 10 08	809	0.1+	0.4−	1998 12 22	704	(0.1−	2.1−)	2000 03 04	691	1.0−	0.1−
1998 12 15	704	0.1−	0.9+	2000 03 03	704	0.0	0.5−	2000 03 04	691	0.7−	0.1+

1989 UM₄ = 1976 UH₃ = 1998 QT₉₈ = 2000 AT₂₀₃

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	117.84582		(2000.0)	P	Q
n	0.22567408	ω	184.35805	+0.72845619	−0.67048090
a	2.6718676	Ω	218.98605	+0.63512819	+0.73793902
e	0.1637008	i	12.92649	+0.25683411	+0.07682034
P	4.37	H	12.1	G	0.15
				U	2

Residuals in seconds of arc

1976 10 24	381	0.9+	2.1+	1998 08 31	704	0.5+	0.7−	2000 01 10	704	0.4+	0.3+
1976 10 24	381	0.5−	0.0	1998 08 31	704	0.8−	1.0−	2000 01 10	704	0.8+	0.3+
1976 10 26	095	(2.2+	5.6+)	1998 08 31	704	0.7+	1.1−	2000 01 11	704	0.2−	0.5+
1989 10 22	046	1.5−	0.9+	1998 08 31	704	1.2+	1.3−	2000 01 11	704	0.4−	0.3−
1989 10 22	046	1.6−	1.2+	1998 11 10	704	0.4−	0.1+	2000 01 11	704	0.2+	0.1+
1989 10 23	046	0.7−	0.3+	1998 11 10	704	0.8+	0.9−	2000 01 11	704	0.1−	0.5−
1989 10 23	046	2.1−	0.6−	1998 11 10	704	0.2−	0.1−	2000 01 11	704	0.1+	0.3−
1989 10 24	046	0.3+	1.0+	1998 11 10	704	0.4−	0.3+	2000 02 10	704	0.1+	1.0+
1989 10 24	046	0.6+	1.7+	1998 11 10	704	0.5−	0.1+	2000 02 10	704	0.3+	0.6+
1989 10 28	046	0.4+	1.7+	1998 11 23	699	0.0	0.2−	2000 02 10	704	1.4−	0.1+
1989 10 28	046	0.7+	1.2+	1998 11 23	699	0.2+	0.0	2000 03 09	704	0.3+	0.1+
1992 05 02	809	(3.0+	1.0+)	1998 11 23	699	0.2+	0.3+	2000 03 09	704	0.1−	0.5+
1992 05 02	809	1.6+	1.3−	1999 02 04	704	0.8+	0.8−	2000 03 09	704	0.0	0.3+
1992 05 02	809	(0.9+	2.9−)	1999 02 04	704	(1.4−	2.9−)	2000 03 09	704	0.1+	0.7+
1998 08 28	704	0.9−	0.6−	1999 02 04	704	1.1−	0.7−	2000 03 09	704	0.0	0.7+
1998 08 28	704	0.8+	0.1−	1999 02 04	704	1.0−	1.2−	2000 03 13	704	0.2−	0.4+
1998 08 28	704	1.1+	0.6−	1999 02 04	704	0.1+	1.0−	2000 03 13	704	0.1−	0.4+
1998 08 28	704	0.0	0.2−	2000 01 10	704	0.4−	0.7+	2000 03 13	704	0.2−	0.4+
1998 08 28	704	0.1−	0.3+	2000 01 10	704	0.3−	0.5−	2000 03 13	704	0.1+	0.5+
1998 08 31	704	1.1+	1.1−	2000 01 10	704	0.5+	1.0+	2000 03 13	704	0.4+	0.6+

2000 MAR. 20

M.P.C. 39145

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	216.71363		(2000.0)	P	Q
<i>n</i>	0.22996656	ω	255.27473	+0.31826644	+0.90205436
<i>a</i>	2.6385152	Ω	37.67140	-0.57626526	+0.42829191
<i>e</i>	0.2413330	<i>i</i>	28.49447	-0.75274486	+0.05351598
<i>P</i>	4.29	<i>H</i>	12.6	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1955 10 24	675	1.6-	0.8+	1994 12 04	675	1.5-	0.4-	1999 12 13	704	0.9+	0.3+
1955 10 24	675	1.4+	0.3-	1994 12 04	675	1.0+	1.7-	1999 12 13	704	0.0	0.0
1980 10 09	413	0.3-	1.2+	1998 08 31	704	0.3-	1.3-	1999 12 13	704	0.6+	0.5+
1980 10 09	413	0.9-	0.9-	1998 08 31	704	0.8-	0.2-	1999 12 13	704	0.6+	0.5+
1989 10 06	807	1.7-	0.5+	1998 08 31	704	0.3-	0.2-	1999 12 13	704	0.7+	0.0
1989 10 30	807	0.7+	0.2-	1998 08 31	704	0.4+	0.2+	2000 01 08	699	0.6-	0.5-
1989 11 01	807	0.7+	0.1-	1998 11 16	704	0.4-	0.5-	2000 01 08	699	0.5+	0.2-
1989 11 01	807	0.9+	0.1-	1998 11 16	704	0.2-	0.3+	2000 01 08	699	0.4-	0.2+
1989 11 24	675	1.8+	0.4+	1998 11 16	704	0.4-	0.2+				
1989 11 24	675	0.5-	0.8+	1998 11 16	704	0.1+	0.9+				

1989 UN₇ = 1996 FU₂₂ = 1996 FO₂₃ = 1998 YP₂₅ = 1998 YM₃₀
= 2000 EU₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	160.42724		(2000.0)	P	Q
<i>n</i>	0.22739014	ω	302.39401	+0.95561109	-0.29310211
<i>a</i>	2.6584080	Ω	74.66471	+0.27968412	+0.87043025
<i>e</i>	0.0819097	<i>i</i>	1.78123	+0.09265112	+0.39552792
<i>P</i>	4.33	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1989 10 23	033	0.8+	1.2+	1998 12 16	704	(0.5+	2.1-)	2000 03 03	691	0.2-	0.9-
1989 10 23	033	0.1+	0.6+	1998 12 16	704	0.1+	0.9+	2000 03 10	704	0.1-	0.4+
1989 10 25	033	1.1-	0.4+	1998 12 17	704	0.8-	0.4+	2000 03 10	704	0.6+	0.0
1989 10 25	033	0.6+	0.9+	1998 12 17	704	0.3-	0.5-	2000 03 10	704	1.3+	0.3-
1989 10 27	033	1.2-	0.2-	1998 12 17	704	0.4-	0.8-	2000 03 11	704	0.1-	0.2+
1996 03 24	809	(0.1+	2.8+)	1998 12 17	704	0.3-	1.2-	2000 03 11	704	0.6-	0.3-
1996 03 24	809	0.8-	1.6+	1998 12 19	704	(0.6-	2.9+)	2000 03 11	704	0.4+	0.6+
1996 03 24	809	(0.2+	2.2+)	1998 12 19	704	(0.3-	2.4+)	2000 03 11	704	0.2-	0.7+
1996 03 27	809	0.8+	0.9+	2000 03 02	691	0.3-	0.8-	2000 03 11	704	0.9-	0.9+
1996 03 27	809	0.7+	0.5+	2000 03 02	691	0.4-	0.8-	2000 03 11	704	0.1-	0.2+
1996 03 27	809	(2.3+	0.3-)	2000 03 02	691	0.2-	1.0-	2000 03 11	704	0.3+	0.5+
1998 12 16	704	0.6+	0.8+	2000 03 03	691	0.4-	0.8-	2000 03 11	704	1.1+	0.6+
1998 12 16	704	0.9+	0.2-	2000 03 03	691	0.5-	0.8-	2000 03 11	704	0.6+	1.0+

1989 XR₁ = 2000 DR₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	114.32914		(2000.0)	P	Q
<i>n</i>	0.21766830	ω	266.57311	+0.93195464	-0.33851559
<i>a</i>	2.7369861	Ω	113.17979	+0.36255823	+0.86663911
<i>e</i>	0.2151375	<i>i</i>	8.12197	+0.00347595	+0.36652945
<i>P</i>	4.53	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1989 11 06	809	0.7-	0.4-	1998 11 13	704	0.7+	0.2+	2000 02 29	704	0.2-	0.6+
1989 11 06	809	1.1-	1.1-	1998 11 13	704	1.9-	1.7+	2000 03 04	704	0.7-	0.3-
1989 11 06	809	1.1-	0.4-	1998 11 13	704	0.7-	1.2+	2000 03 04	704	0.1+	0.6-
1989 12 02	809	0.7+	0.6-	2000 02 11	704	0.3-	0.6-	2000 03 04	704	0.2-	0.1+
1989 12 02	809	1.2+	0.3-	2000 02 11	704	0.3+	0.2-	2000 03 04	704	0.1-	0.3+
1989 12 02	809	0.6+	1.3-	2000 02 11	704	0.8+	0.9+	2000 03 05	704	1.1+	0.4+
1989 12 03	809	0.9+	0.6+	2000 02 11	704	0.4-	0.4-	2000 03 05	704	1.3+	0.1+
1989 12 03	809	1.1+	0.3+	2000 02 29	704	0.0	1.1-	2000 03 05	704	1.9-	0.1-
1989 12 03	809	0.2+	0.1-	2000 02 29	704	0.3-	0.6+	2000 03 05	704	0.3+	0.2-
1998 11 13	704	0.6+	0.5+	2000 02 29	704	0.2+	0.5+				
1998 11 13	704	(1.1-	2.5+)	2000 02 29	704	0.0	0.9+				

1989 YB₅ = 1999 XF₁₅₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	176.10042		(2000.0)	P	Q
<i>n</i>	0.17411525	ω	161.84647	-0.73550390	+0.63026599
<i>a</i>	3.1762268	Ω	59.83275	-0.65179020	-0.55806428
<i>e</i>	0.1107853	<i>i</i>	16.71056	-0.18494200	-0.53974905
<i>P</i>	5.66	<i>H</i>	11.8	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1989 12 28	511	0.1-	0.2-	1999 09 21	699	1.0+	0.1+	1999 12 09	699	0.2-	0.1-
1989 12 28	511	0.4+	0.1-	1999 10 02	704	0.4+	0.7+	1999 12 09	699	0.6-	0.5+
1989 12 29	511	1.7+	0.8-	1999 10 02	704	0.3-	0.6+	1999 12 09	699	0.2-	0.4+
1989 12 29	511	2.0-	0.9+	1999 10 02	704	0.5-	0.8+	1999 12 13	699	0.3-	0.1-
1989 12 30	511	1.5+	0.1+	1999 10 02	704	0.4-	0.3+	1999 12 13	699	0.2-	0.4+
1989 12 30	511	0.4+	0.1+	1999 10 02	704	0.1-	0.3-	1999 12 13	699	0.4+	0.8+
1990 01 01	511	0.4-	0.8-	1999 10 05	703	0.1+	0.1+	1999 12 13	699	0.1-	0.0
1990 01 01	511	1.3-	0.4+	1999 10 05	703	0.2+	0.4+	1999 12 13	699	0.7-	0.1+
1990 01 03	511	(0.9-	4.1+)	1999 10 05	703	0.5+	0.6+	1999 12 13	699	0.3-	0.2+
1990 01 03	511	(1.9+	3.1+)	1999 10 05	703	0.1-	0.3+	1999 12 14	699	0.4-	1.2+
1993 09 20	675	0.6+	0.8-	1999 11 07	704	0.4+	1.0-	1999 12 14	699	0.9-	0.5+
1993 09 20	675	0.4+	0.9-	1999 11 07	704	0.6+	0.0	1999 12 14	699	0.2-	0.8+
1999 09 14	704	0.4-	0.2+	1999 11 07	704	0.5+	0.3-	2000 01 09	704	0.4+	0.8-
1999 09 14	704	0.4-	0.2-	1999 11 07	704	0.4+	0.2-	2000 01 09	704	0.8+	0.4-
1999 09 14	704	0.0	0.0	1999 11 07	704	1.1+	0.3-	2000 01 09	704	0.4+	0.2-
1999 09 14	704	0.0	0.7-	1999 12 02	704	0.2-	1.4-	2000 01 09	704	0.4+	0.8-
1999 09 14	704	0.7-	0.6-	1999 12 02	704	0.5-	1.3-	2000 01 09	704	0.5+	0.5-
1999 09 21	699	0.5+	1.5+	1999 12 02	704	0.0	0.2-				
1999 09 21	699	1.3-	0.4+	1999 12 02	704	0.8-	0.4-				

1990 QQ₆ = 1990 RD₇ = 2000 BS₂₆Id. B. G. Marsden (d, *MPC* 18084), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	243.50862		(2000.0)	P	Q
<i>n</i>	0.26357029	ω	174.02139	+0.08446753	+0.99588905
<i>a</i>	2.4091938	Ω	100.82075	-0.91557759	+0.09052685
<i>e</i>	0.1727834	<i>i</i>	1.90868	-0.39317034	+0.00314350
<i>P</i>	3.74	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1990 08 16	809	0.3+	1.4-	1990 09 14	809	0.8-	1.1+	2000 02 03	704	0.6-	1.4-
1990 08 16	809	1.2+	0.8-	2000 01 07	704	0.5-	0.5+	2000 02 10	704	0.2-	0.4+
1990 08 16	809	1.4-	1.5-	2000 01 07	704	1.2-	1.0-	2000 02 10	704	0.2-	0.6+
1990 08 20	809	1.1+	0.8-	2000 01 07	704	0.7+	0.5-	2000 02 10	704	0.5+	0.2-
1990 08 20	809	0.1-	1.2-	2000 01 30	704	0.3-	0.0	2000 02 10	704	0.6+	0.3+
1990 08 20	809	0.5-	1.2-	2000 01 30	704	0.8-	0.2+	2000 02 11	704	0.5-	0.8-
1990 08 26	809	1.3+	1.2+	2000 01 30	703	0.2-	0.6+	2000 02 11	704	0.1+	0.5-
1990 08 26	809	1.3+	0.6-	2000 01 30	704	0.9-	0.0	2000 02 11	704	0.5-	0.7+
1990 08 26	809	0.5+	0.9-	2000 01 30	703	1.0+	1.4-	2000 02 11	704	0.4-	0.1+
1990 09 13	809	0.7-	0.6+	2000 01 30	703	0.7+	0.8-	2000 02 11	704	0.2-	0.5+
1990 09 13	809	0.1-	0.6+	2000 01 30	703	1.3+	0.8+	2000 03 05	704	0.1-	1.1+
1990 09 13	809	0.4+	0.6+	2000 02 03	704	0.4-	0.1-	2000 03 05	704	0.0	1.4+
1990 09 14	809	1.2-	1.4+	2000 02 03	704	0.6+	0.8-	2000 03 05	704	0.6+	0.1+
1990 09 14	809	0.8-	1.3+	2000 02 03	704	0.1-	0.4-	2000 03 05	704	0.5+	1.4-

1990 RB₇ = 1990 QH₆ = 2000 AL₇₅Id. S. Nakano (d, *MPC* 17943), A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	80.76827		(2000.0)	P	Q
<i>n</i>	0.23585107	ω	212.44315	+0.99597552	-0.07967893
<i>a</i>	2.5944431	Ω	152.03968	+0.08871956	+0.94143226
<i>e</i>	0.1708049	<i>i</i>	5.02123	-0.01271221	+0.32765312
<i>P</i>	4.18	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1990 08 16	809	0.6+	0.1-	1990 09 13	809	0.7+	0.5+	1999 12 14	704	0.4-	0.7+
1990 08 16	809	0.8+	0.4-	1990 09 14	809	0.5-	0.3+	1999 12 14	704	0.8+	0.1-
1990 08 16	809	0.0	0.1+	1990 09 14	809	0.3-	0.2+	1999 12 14	704	1.3-	0.7-
1990 08 20	809	0.3+	0.1-	1990 09 14	809	0.3+	0.0	1999 12 14	704	0.4-	1.0+
1990 08 20	809	1.0+	0.9+	1990 09 15	809	0.3-	1.3-	2000 01 05	704	0.7+	0.2-
1990 08 20	809	1.1-	0.1-	1990 09 15	809	0.3+	1.0-	2000 01 05	704	0.3+	0.0
1990 08 26	809	1.4-	0.5+	1990 09 15	809	0.8+	1.1-	2000 01 05	704	0.2-	1.5-
1990 08 26	809	1.0-	0.6+	1999 12 06	704	0.4-	0.1+	2000 01 06	704	0.2-	0.5+
1990 08 26	809	(2.3-	0.4+)	1999 12 06	704	0.1-	0.1-	2000 01 06	704	0.1+	0.1+
1990 09 13	809	0.4-	0.5+	1999 12 06	704	0.5+	0.8-	2000 01 06	704	0.0	0.7+
1990 09 13	809	0.2+	0.7+	1999 12 06	704	0.0	0.0	2000 01 06	704	0.6+	0.6+

1990 RN₉

Id. A. Gnädig (1976, 1986 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
47.69182				72.78341		+0.93819039	
<i>n</i>		ω		+0.30950557			
2.6474815				304.98258		+0.19903622	
<i>a</i>		Ω		+0.84865484			
0.2502828				10.90035		+0.28316669	
<i>e</i>		<i>i</i>		+0.42894204			
<i>P</i>		4.31		<i>H</i>		13.5	
				<i>G</i>		0.15	
				<i>U</i>		1	

Residuals in seconds of arc

1976 06 24	413	0.1+	1.2+	1999 06 22	703	1.0-	0.7+	1999 12 12	704	0.0	0.4-
1976 06 24	413	0.0	1.4-	1999 06 22	703	0.1-	0.6+	1999 12 12	704	0.0	0.4-
1986 11 28	675	0.2+	1.8-	1999 06 22	703	(2.2-	0.9+)	1999 12 12	704	0.4-	0.1+
1986 11 28	675	0.3+	0.8+	1999 09 03	704	0.2+	0.4+	1999 12 12	704	0.1-	0.3+
1990 08 23	675	0.4-	1.2+	1999 09 03	704	0.5+	0.3+	1999 12 12	704	0.2-	0.7+
1990 08 23	675	0.1+	0.1+	1999 09 03	704	0.5+	0.9+	2000 01 02	704	0.5-	0.2-
1990 08 26	095	1.6+	1.3+	1999 09 27	704	0.5+	0.7-	2000 01 02	704	0.6-	0.4-
1990 08 26	095	(2.7-	6.9+)	1999 09 27	704	0.4-	0.3-	2000 01 02	704	0.4-	0.4-
1990 08 30	095	(0.6-	3.1+)	1999 09 27	704	(2.2+	1.6-)	2000 01 02	704	0.4-	0.5-
1990 08 30	095	(0.3+	2.3+)	1999 09 27	704	0.3+	0.4-	2000 01 02	704	0.2-	0.7-
1990 09 14	675	0.3-	1.0-	1999 09 27	704	1.0+	0.1-	2000 01 11	699	0.1-	0.7+
1990 09 14	675	0.0	1.0-	1999 11 01	704	0.0	0.3+	2000 01 11	699	0.2-	0.8+
1990 09 15	095	(0.6-	2.5+)	1999 11 01	704	0.0	0.2+	2000 01 11	699	0.8-	0.0
1990 09 18	675	0.3+	0.9-	1999 11 01	704	0.1+	0.1+	2000 01 31	704	0.2+	0.1+
1990 09 18	675	0.5+	1.2-	1999 11 01	704	0.2+	0.1+	2000 01 31	704	0.3+	0.2-
1990 09 23	095	1.8-	0.8+	1999 11 01	704	0.5+	0.4+	2000 01 31	704	0.7+	0.4+

1990 SO₆ = 2000 ET

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
246.14723				194.43273		+0.34001446	
<i>n</i>		ω		+0.93865927			
2.3962963				95.47029		-0.85698833	
<i>a</i>		Ω		+0.33445675			
0.2153262				3.31277		-0.38724820	
<i>e</i>		<i>i</i>		+0.08400862			
<i>P</i>		3.71		<i>H</i>		15.2	
				<i>G</i>		0.15	
				<i>U</i>		5	

Residuals in seconds of arc

1990 09 15	809	0.7+	0.2+	2000 02 25	703	1.5-	0.2+	2000 03 09	715	0.3-	0.2-
1990 09 15	809	1.0+	0.3+	2000 03 04	715	0.1-	0.9+	2000 03 09	715	0.2-	0.3+
1990 09 15	809	0.1+	0.5+	2000 03 04	715	0.4-	0.1-	2000 03 11	699	0.1-	0.1+
1990 09 22	809	0.6+	0.5-	2000 03 04	715	0.3+	0.0	2000 03 11	699	0.6-	0.6+
1990 09 22	809	1.5-	1.5-	2000 03 05	715	1.0-	0.0	2000 03 11	699	0.7-	0.7+
1990 09 22	809	(2.4-	1.5-)	2000 03 05	715	0.5+	0.8-	2000 03 11	699	0.2-	0.4+
1990 09 25	809	1.3+	1.2+	2000 03 05	704	0.1-	0.1-	2000 03 12	704	1.0+	0.1+
1990 09 25	809	0.6+	0.2+	2000 03 05	704	0.2+	0.4-	2000 03 12	704	0.5+	0.4+
1990 09 25	809	0.5-	0.7+	2000 03 05	704	0.6+	0.2-	2000 03 12	704	0.4+	0.6-
2000 02 25	703	0.1+	0.6+	2000 03 05	704	0.9+	0.5-	2000 03 12	704	0.1+	0.2-
2000 02 25	703	0.8+	0.2-	2000 03 05	704	0.2+	1.4-				
2000 02 25	703	0.1-	0.2+	2000 03 09	715	(1.1+	2.5+)				

1990 TJ₄ = 2000 DO₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
232.83277				88.06631		+0.58356728	
<i>n</i>		ω		+0.81183470			
2.4316058				217.65710		-0.75706832	
<i>a</i>		Ω		+0.53528058			
0.1781407				1.81315		-0.29376316	
<i>e</i>		<i>i</i>		+0.23323618			
<i>P</i>		3.79		<i>H</i>		14.3	
				<i>G</i>		0.15	
				<i>U</i>		6	

Residuals in seconds of arc

1990 10 11	033	0.5-	0.1+	2000 03 03	704	0.1+	0.1-	2000 03 10	691	0.3-	1.0-
1990 10 12	033	1.1+	0.1-	2000 03 03	704	0.3-	0.3-	2000 03 10	608	0.3-	0.5+
1990 10 12	033	0.3-	0.1-	2000 03 03	704	0.1+	0.5-	2000 03 10	608	0.1-	0.4-
1990 10 13	033	0.2+	0.2-	2000 03 03	704	0.1+	0.6-	2000 03 10	608	0.1+	0.7-
1990 10 14	033	0.6-	0.2-	2000 03 03	704	0.6+	1.4+	2000 03 11	704	0.2-	0.6-
1990 10 18	033	0.2+	0.4+	2000 03 08	704	0.5-	0.5+	2000 03 11	704	0.1+	0.3+
2000 02 29	704	0.6+	0.5+	2000 03 08	704	0.4-	0.2+	2000 03 11	704	0.2+	0.2-
2000 02 29	704	0.6+	0.6+	2000 03 08	704	0.5+	1.5+	2000 03 11	704	0.2+	0.3-
2000 02 29	704	0.0	0.5+	2000 03 10	691	0.5-	1.0-	2000 03 11	704	0.0	0.2+
2000 02 29	704	0.4-	0.5+	2000 03 10	691	0.3-	1.0-				

1990 TN₉ = 2000 AM₁₉₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
40.99026				202.04742		+0.58359835	
<i>n</i>		ω		-0.80521728			
2.6477601				212.52261		+0.77116708	
<i>a</i>		Ω		+0.59009506			
0.2069157				11.26907		+0.25439005	
<i>e</i>		<i>i</i>		+0.05842046			
<i>P</i>		4.31		<i>H</i>		15.2	
				<i>G</i>		0.15	
				<i>U</i>		5	

Residuals in seconds of arc

1990 10 10	033	0.3-	0.6+	1999 12 05	704	0.0	0.3+	2000 01 08	704	1.7-	0.1+
1990 10 11	033	0.2-	0.6-	1999 12 05	704	0.6+	0.1-	2000 01 08	704	0.2+	0.5-
1990 10 11	033	0.7+	0.1+	1999 12 05	704	0.4+	0.8+	2000 01 11	704	0.1+	0.0
1990 10 12	033	0.4-	0.4+	2000 01 08	704	0.1-	0.3-	2000 01 11	704	0.1+	0.8+
1990 10 13	033	0.4+	0.9-	2000 01 08	704	0.1-	1.3-	2000 01 11	704	0.3+	0.7+
1990 10 14	033	0.2-	0.3+	2000 01 08	704	0.1-	0.3-	2000 01 11	704	0.3+	0.1-

2000 MAR. 20

M.P.C. 39147

Residuals in seconds of arc

1990 10 16	809	(2.7+ 0.2-)	1998 07 21	704	1.7+ 0.1-	1999 12 04	699	0.5- 0.7+
1990 10 16	809	0.5+ 0.8-	1999 10 03	703	0.6- 0.5-	1999 12 05	704	0.8+ 0.3+
1990 10 16	809	0.9+ 1.4-	1999 10 03	703	0.6- 0.0	1999 12 05	704	0.4+ 0.5+
1990 10 19	809	0.3+ 1.2-	1999 10 03	703	0.4- 0.1-	1999 12 05	704	0.2- 0.8-
1990 10 19	809	0.1- 1.1-	1999 10 03	703	0.0 0.3-	1999 12 05	704	0.4- 0.1-
1990 10 19	809	0.4- 0.3-	1999 10 30	703	0.7- 0.0	1999 12 05	704	0.5- 0.9+
1990 10 24	809	0.1- 0.5+	1999 10 30	703	0.8- 0.1+	1999 12 14	704	1.0+ 0.6+
1990 10 24	809	0.3+ 0.5+	1999 10 30	703	0.0 0.1+	1999 12 14	704	0.3+ 1.6+
1990 10 24	809	0.3+ 0.1-	1999 10 30	703	0.2- 0.1-	1999 12 14	704	1.2- 0.1-
1992 01 03	033	0.6+ 0.9+	1999 11 05	704	0.9+ 0.1-	1999 12 14	704	(2.1- 1.7+)
1992 01 03	033	0.1- 0.8+	1999 11 05	704	1.1+ 0.2-	2000 01 06	699	0.3- 0.1-
1998 06 26	704	0.7+ 0.3+	1999 11 05	704	0.9+ 0.2-	2000 01 06	699	0.1+ 0.3+
1998 06 26	704	0.4- 0.7+	1999 11 05	704	0.7+ 0.4-	2000 01 06	699	0.3+ 1.0-
1998 06 26	704	0.9- 0.5+	1999 11 05	704	0.7+ 0.3+	2000 01 07	704	0.7- 0.7-
1998 06 26	704	0.5- 0.4-	1999 11 14	699	0.6- 0.8+	2000 01 07	704	0.9- 0.7-
1998 06 26	704	(5.4- 3.0+)	1999 11 14	699	0.0 0.8+	2000 01 07	704	1.3- 0.7+
1998 07 21	704	0.5- 0.1+	1999 11 14	699	0.0 1.9+	2000 01 07	704	0.4- 0.3-
1998 07 21	704	0.5+ 0.0	1999 12 04	699	0.1- 0.6+			
1998 07 21	704	0.7- 1.5+	1999 12 04	699	0.0 0.5+			

1990 WN₄ = 1999 XW₁₇₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
75.52793		(2000.0)			
<i>n</i>	0.22943764	ω	318.80322	+0.72716466	-0.62719288
<i>a</i>	2.6425686	Ω	82.29587	+0.68016847	+0.60336760
<i>e</i>	0.0991769	<i>i</i>	16.35434	+0.09274916	+0.49252068
<i>P</i>	4.30	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1990 11 16	809	1.3+ 1.2-	1997 07 01	910	0.9+ 1.4-	1999 12 15	704	0.1- 0.2-
1990 11 17	809	1.6+ 0.8-	1999 12 08	703	0.2+ 0.5+	1999 12 15	704	0.2- 0.5-
1990 11 21	809	0.1- 0.2+	1999 12 08	703	0.0 0.5+	2000 01 05	699	0.1+ 0.1+
1990 11 21	809	0.0 0.2-	1999 12 08	703	0.1+ 0.1+	2000 01 05	699	1.2+ 0.3+
1990 11 21	809	0.7- 0.6-	1999 12 08	703	0.7- 1.0+	2000 01 05	699	0.2+ 0.3+
1990 11 22	809	0.2- 0.4+	1999 12 10	704	0.7+ 0.2-	2000 01 29	704	0.2- 0.5-
1990 11 22	809	0.4- 0.3+	1999 12 10	704	0.0 0.5+	2000 01 29	704	0.1+ 0.1+
1990 11 22	809	0.5- 0.3-	1999 12 10	704	0.1+ 0.4-	2000 01 29	704	0.7- 0.3+
1997 06 08	809	1.2- 0.8+	1999 12 10	704	0.6- 0.5-	2000 01 29	704	1.1- 1.1-
1997 06 08	809	1.7- 0.2-	1999 12 10	704	0.1+ 0.5-	2000 01 29	704	0.4+ 0.6+
1997 06 08	809	0.8- 0.7+	1999 12 15	704	0.0 0.2+	2000 02 26	704	0.9+ 0.4+
1997 07 01	910	0.9+ 1.2-	1999 12 15	704	0.3- 0.0	2000 02 26	704	0.7+ 0.3-
1997 07 01	910	1.0+ 1.4-	1999 12 15	704	0.1+ 0.3-	2000 02 26	704	0.8- 0.5-

1990 XV = 1981 UU₁₂ = 2000 CJ₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
105.48117		(2000.0)			
<i>n</i>	0.23200756	ω	102.16862	+0.77706704	-0.60159450
<i>a</i>	2.6230181	Ω	295.10510	+0.46814671	+0.74895603
<i>e</i>	0.1870724	<i>i</i>	11.79304	+0.42072019	+0.27775695
<i>P</i>	4.25	<i>H</i>	13.3	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1981 10 23	095	0.3- 0.6+	2000 01 05	704	0.2- 1.4-	2000 03 04	703	0.4+ 0.0
1990 12 15	400	(2.9+ 2.2+)	2000 02 07	703	1.0- 0.6+	2000 03 04	703	0.5- 0.1+
1990 12 15	400	(4.1+ 1.7+)	2000 02 07	703	0.1- 0.1-	2000 03 09	704	0.3+ 0.3+
1990 12 16	400	1.5+ 1.5+	2000 02 07	703	0.7- 0.7-	2000 03 09	704	0.1+ 0.4+
1990 12 16	400	(2.7+ 2.8+)	2000 02 07	703	0.0 0.2-	2000 03 09	704	0.2+ 0.7+
1991 01 05	399	(3.0- 0.5-)	2000 02 07	704	1.0- 0.9-	2000 03 09	704	0.2+ 0.5+
1991 01 05	399	(4.2- 0.5-)	2000 02 07	704	0.4- 0.2-	2000 03 09	704	0.4- 0.2+
1991 01 05	399	0.5- 0.2-	2000 02 07	704	0.9- 0.6-	2000 03 12	704	0.0 0.4+
1991 01 13	071	(2.8- 0.5-)	2000 02 07	704	0.9- 1.0-	2000 03 12	704	0.2+ 0.8+
1991 01 13	071	0.7- 0.3-	2000 02 07	704	1.1- 0.1+	2000 03 12	704	0.7+ 0.5+
1998 10 02	699	0.5+ 0.5+	2000 02 08	704	0.7+ 0.2+	2000 03 12	704	1.0+ 0.5+
1998 10 02	699	0.4+ 0.4+	2000 02 08	704	0.0 0.2-	2000 03 12	704	0.4+ 1.1+

1998 10 02	699	0.5+ 0.3+	2000 02 08	704	0.5+ 0.1+	2000 03 13	704	0.0 0.0
1998 12 09	704	0.3- 1.2+	2000 02 08	704	0.5- 0.3-	2000 03 13	704	0.2- 0.0
1998 12 09	704	0.6- 0.1-	2000 02 08	704	0.2+ 0.1-	2000 03 13	704	0.3+ 0.1+
1998 12 09	704	0.7- 1.2-	2000 03 03	703	0.6+ 0.3+	2000 03 13	704	0.4+ 0.0
1998 12 09	704	0.6- 0.3-	2000 03 03	703	0.2+ 0.4+	2000 03 14	703	0.4+ 0.1+
1998 12 09	704	0.4+ 1.3-	2000 03 03	703	0.2+ 0.0	2000 03 14	703	0.3+ 0.0
2000 01 05	704	0.3- 1.1-	2000 03 03	703	0.3+ 0.2+	2000 03 14	703	0.2+ 0.2-
2000 01 05	704	0.4- 0.5-	2000 03 04	703	0.1+ 0.1+	2000 03 14	703	0.7+ 0.2-
2000 01 05	704	0.3- 0.6-	2000 03 04	703	0.2+ 0.0			

1991 PX₄ = 2000 CN₂₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
231.31595		(2000.0)			
<i>n</i>	0.18024018	ω	116.75595	+0.14326620	+0.98965089
<i>a</i>	3.1038566	Ω	161.47558	-0.91685215	+0.13580716
<i>e</i>	0.1470286	<i>i</i>	1.46422	-0.37263513	+0.04634140
<i>P</i>	5.47	<i>H</i>	13.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1991 08 03	809	0.1+ 1.9+	2000 01 07	704	(1.3- 2.4-)	2000 02 06	704	0.3- 0.0
1991 08 03	809	0.3+ 0.6+	2000 01 30	703	1.3+ 0.2+	2000 02 06	704	0.0 0.3+
1991 08 03	809	1.2+ 1.1+	2000 01 30	703	0.3- 0.5+	2000 02 08	704	0.2+ 0.0
1991 08 04	809	0.3- 0.9+	2000 01 30	703	0.3- 0.2+	2000 02 08	704	0.3+ 0.2+
1991 08 05	809	(3.6+ 2.0+)	2000 01 30	703	0.4+ 0.0	2000 02 08	704	0.1+ 1.7+
1991 08 05	809	(2.7+ 2.0+)	2000 02 02	704	0.4- 0.2-	2000 02 11	704	0.5+ 0.5+
1991 08 05	809	(3.2+ 2.6+)	2000 02 02	704	0.1- 0.4+	2000 02 11	704	0.0 0.0
1991 09 04	809	0.4+ 0.7+	2000 02 02	704	0.2- 0.0	2000 02 11	704	0.0 0.4+
1991 09 04	809	0.1- 0.7+	2000 02 02	704	0.6- 0.3+	2000 02 11	704	0.8+ 0.1-
1991 09 04	809	0.0 0.3+	2000 02 02	704	0.4- 0.3+	2000 02 11	704	0.4+ 0.4-
1991 09 05	809	1.2- 0.0	2000 02 03	704	0.2+ 0.1-	2000 02 11	704	1.2- 0.3+
1991 09 05	809	1.2- 0.5-	2000 02 03	704	0.3- 0.4+	2000 02 11	704	0.2+ 0.5-
1991 09 05	809	1.0- 0.1-	2000 02 03	704	0.3+ 0.3+	2000 02 11	704	0.6- 0.8+
1991 09 06	809	(8.1+ 3.9+)	2000 02 03	704	0.2- 0.9+	2000 02 11	704	0.3- 0.3-
1991 09 06	809	(4.5+ 2.9+)	2000 02 03	704	0.3+ 0.3+	2000 03 05	704	0.3- 0.1-
1991 09 06	809	(0.6- 2.2+)	2000 02 05	704	0.3- 0.2-	2000 03 05	704	0.2- 0.1+
1991 09 07	809	(2.5- 0.8-)	2000 02 05	704	0.7- 0.6+	2000 03 05	704	0.4+ 0.7-
1991 09 07	809	(3.2- 0.2+)	2000 02 05	704	0.3- 0.2+	2000 03 05	704	0.6+ 0.8-
2000 01 07	704	0.2- 1.4-	2000 02 06	704	1.9+ 1.9+	2000 03 05	704	0.8+ 1.1+
2000 01 07	704	0.0 1.9-	2000 02 06	704	0.4+ 0.5+			

1991 PS₁₄ = 2000 DO₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
207.09932		(2000.0)			
<i>n</i>	0.29579884	ω	319.71313	+0.70037450	+0.71374394
<i>a</i>	2.2308570	Ω	354.73115	-0.63461429	+0.61836274
<i>e</i>	0.1966922	<i>i</i>	4.19642	-0.32671129	+0.32893330
<i>P</i>	3.33	<i>H</i>	15.3	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1991 08 06	675	0.9- 0.8-	1998 11 15	699	0.1+ 0.0	2000 03 04	704	0.3- 0.0
1991 08 06	675	0.1+ 0.9-	1998 11 15	699	0.6+ 0.6-	2000 03 04	704	0.4- 0.5-
1991 08 10	675	0.7+ 0.1+	2000 02 28	704	0.6+ 0.1+	2000 03 04	704	0.4+ 0.7-
1991 08 10	675	0.3+ 0.4-	2000 02 28	704	0.8- 0.6+	2000 03 04	704	1.2- 0.8-
1991 08 14	809	(2.3+ 0.7+)	2000 02 28	704	0.1- 0.5-	2000 03 04	704	0.7+ 0.6-
1991 08 14	809	1.3+ 0.1-	2000 02 28	704	0.3+ 0.2-	2000 03 05	704	0.3- 0.2+
1991 08 14	809	1.0+ 0.7+	2000 03 03	704	0.0 0.7-	2000 03 05	704	1.4- 0.9+
1991 09 06	809	0.5+ 0.2-	2000 03 03	704	0.3+ 0.3-	2000 03 05	704	0.9+ 0.4+
1991 09 06	809	0.8- 0.4-	2000 03 03	704	1.2- 0.5-	2000 03 05	704	1.0+ 0.2-
1991 09 06	809	1.5- 0.1-	2000 03 03	704	0.2+ 0.2-			
1998 11 15	699	0.5- 0.2-	2000 03 03	704	0.1- 0.2-			

1991 RM₁ = 2000 DK

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	212.90298		(2000.0)	P		Q	
<i>n</i>	0.17274481	ω	259.52179	+0.37259514	+0.88493484		
<i>a</i>	3.1930033	Ω	36.63847	-0.55612587	+0.45395209		
<i>e</i>	0.2173885	<i>i</i>	27.91677	-0.74289762	+0.10400884		
<i>P</i>	5.71	<i>H</i>	11.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 09 05	413	0.5-	0.5-	1998 11 16	704	1.1-	0.7-	1999 12 30	704	0.7+	0.8-
1991 09 05	413	0.4+	0.3+	1998 12 12	704	1.3-	1.3+	1999 12 30	704	0.3-	1.1-
1991 09 07	413	1.2-	0.8+	1998 12 12	704	0.2+	0.2+	1999 12 30	704	0.0	0.9-
1991 09 15	413	0.3+	0.5+	1998 12 12	704	0.7+	0.5+	2000 02 16	704	0.0	0.2-
1991 10 02	413	0.5-	0.5+	1998 12 12	704	0.2+	0.5+	2000 02 16	704	0.1-	0.2+
1991 10 05	413	0.1+	0.5-	1998 12 12	704	0.2-	1.2+	2000 02 16	704	0.3+	0.6+
1997 12 28	566	0.1+	0.3-	1999 01 09	704	0.5-	0.2-	2000 02 16	704	0.3+	0.6+
1997 12 28	566	0.0	0.2-	1999 01 09	704	0.6+	0.4-	2000 02 16	704	0.2-	0.9+
1997 12 28	566	0.1-	0.1+	1999 01 09	704	1.8+	0.9-	2000 02 25	704	0.0	0.5+
1998 11 16	704	0.4+	0.1-	1999 01 09	704	1.3-	1.1+	2000 02 25	704	0.2-	0.4+
1998 11 16	704	0.5+	0.2-	1999 01 09	704	0.3-	1.6-	2000 02 25	704	0.1+	0.4+
1998 11 16	704	1.1+	1.8-	1999 12 30	704	0.3-	1.1+	2000 02 25	704	0.4-	0.7+
1998 11 16	704	0.6+	0.1+	1999 12 30	704	0.7+	0.2-	2000 02 25	704	0.2-	0.0

1991 RT₆ = 2000 AK₆₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	262.13864		(2000.0)	P		Q	
<i>n</i>	0.17458194	ω	283.18524	-0.39607953	+0.89222262		
<i>a</i>	3.1705638	Ω	321.11028	-0.65004419	-0.43932316		
<i>e</i>	0.0843369	<i>i</i>	20.21424	-0.64850872	-0.10456551		
<i>P</i>	5.65	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 08 09	675	0.5+	0.4-	2000 01 06	699	0.8+	0.5+	2000 02 11	704	0.2-	0.6-
1991 08 09	675	0.3+	0.7-	2000 01 06	699	0.9+	0.4-	2000 02 26	703	0.6-	0.3-
1991 09 03	413	0.2+	0.1+	2000 01 30	704	0.0	0.1+	2000 02 26	703	0.2-	0.7-
1991 09 03	413	0.1+	0.0	2000 01 30	704	0.1-	0.6-	2000 02 26	703	0.1+	0.3-
1991 09 04	413	0.8-	0.5+	2000 01 30	704	0.4+	0.4-	2000 02 26	703	0.5-	0.4-
2000 01 04	704	0.5-	0.4+	2000 01 30	704	0.2-	0.0	2000 03 04	704	0.8+	0.1-
2000 01 04	704	0.4-	0.1+	2000 01 30	704	0.1+	0.2-	2000 03 04	704	0.2+	0.2-
2000 01 04	704	0.2-	0.4+	2000 02 03	704	0.3-	0.0	2000 03 04	704	0.1-	0.2+
2000 01 04	704	0.2+	0.0	2000 02 03	704	0.3-	0.2+	2000 03 04	704	0.4+	0.6+
2000 01 04	704	0.1+	0.0	2000 02 03	704	0.1-	0.3+	2000 03 04	704	0.6-	0.5+
2000 01 06	704	0.4-	0.2-	2000 02 03	704	0.1-	0.4+	2000 03 09	704	0.0	0.0
2000 01 06	704	0.3-	0.1-	2000 02 03	704	0.2-	0.4+	2000 03 09	704	0.2+	0.5+
2000 01 06	704	0.1+	0.4-	2000 02 11	704	0.5-	0.2+	2000 03 09	704	0.1+	0.3-
2000 01 06	699	0.8+	0.6+	2000 02 11	704	0.1-	0.1-	2000 03 09	704	0.6+	0.1-
2000 01 06	704	0.0	0.4+	2000 02 11	704	0.3+	0.7-	2000 03 09	704	0.1+	0.4+
2000 01 06	704	0.2-	0.1-	2000 02 11	704	0.2-	0.4-				

1991 RF₁₆ = 1997 AD₂₁ = 1998 DF₃₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	353.66391		(2000.0)	P		Q	
<i>n</i>	0.23083062	ω	290.88590	+0.99229658	+0.10645080		
<i>a</i>	2.6319266	Ω	63.04967	-0.06952612	+0.90189117		
<i>e</i>	0.1347956	<i>i</i>	4.07660	-0.10253590	+0.41864132		
<i>P</i>	4.27	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 09 14	675	0.9+	1.1-	1997 01 16	557	0.0	0.1+	1998 04 19	704	0.7-	1.2+
1991 09 14	675	0.2-	0.5-	1997 01 16	557	0.0	0.7+	1998 04 19	704	0.0	0.6-
1991 09 15	675	1.4+	1.0-	1998 02 28	809	0.9-	0.8-	1998 04 19	704	0.4+	0.2+
1991 09 15	675	0.2+	0.5-	1998 02 28	809	(1.7+	2.4-)	1998 04 19	704	1.2+	1.3-
1991 09 16	675	0.5-	0.5-	1998 03 02	809	0.9-	0.9-	1998 04 19	704	(4.0-	1.5-)

1991 09 16	675	0.1+	0.6-	1998 03 02	809	0.3-	1.5-	1999 06 15	704	0.6-	0.1+
1991 09 17	675	0.5+	0.5-	1998 03 24	704	0.7-	0.9-	1999 06 15	704	0.1+	0.1-
1991 09 17	675	0.0	0.2-	1998 03 24	704	0.1-	0.3-	1999 06 15	704	0.2+	0.8+
1997 01 15	557	0.2-	0.2+	1998 03 24	704	0.6+	0.0	1999 06 15	704	0.3+	0.5+
1997 01 15	557	0.0	0.4-	1998 03 24	704	0.7-	0.4-				
1997 01 15	557	0.1-	0.6+	1998 03 24	704	0.6-	0.8-				

1991 SJ = 2000 CB₉₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	329.66056		(2000.0)	P		Q	
<i>n</i>	0.30279538	ω	83.18067	-0.73080163	+0.68006323		
<i>a</i>	2.1963585	Ω	139.64320	-0.65658906	-0.67686259		
<i>e</i>	0.1168971	<i>i</i>	5.19896	-0.18660059	-0.28172868		
<i>P</i>	3.26	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 09 15	675	0.6+	0.2+	1998 12 11	699	0.2+	0.8+	2000 03 08	704	0.4-	0.4+
1991 09 15	675	0.4-	0.5-	1998 12 11	699	0.9+	0.4-	2000 03 08	704	0.3+	0.2+
1991 09 16	675	0.1-	1.1-	1998 12 11	699	0.9-	1.0-	2000 03 08	704	0.2+	1.8+
1991 09 16	675	1.8-	1.2-	2000 02 08	704	0.1-	0.0	2000 03 10	691	0.7-	1.1-
1991 09 17	675	0.9+	0.6+	2000 02 08	704	0.4-	0.3-	2000 03 10	691	0.3-	0.2-
1991 09 17	675	1.3+	0.7-	2000 02 08	704	0.3+	0.3+	2000 03 10	691	0.1-	0.2-
1991 09 29	413	0.4+	1.6+	2000 02 11	704	0.2-	0.4-	2000 03 11	691	0.1+	0.4-
1991 09 30	413	0.7-	0.4+	2000 02 11	704	0.1+	0.2+	2000 03 11	691	0.1-	0.4-
1998 10 19	809	(2.3-	3.9-)	2000 02 11	704	0.1-	0.1+	2000 03 11	691	0.0	0.4-
1998 10 19	809	(2.4-	5.0-)	2000 03 08	704	0.6+	0.6-				
1998 10 19	809	(2.3-	4.0-)	2000 03 08	704	0.5+	0.3+				

1991 SW = 2000 EF₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	207.75834		(2000.0)	P		Q	
<i>n</i>	0.17475941	ω	198.96510	+0.69009922	+0.70399881		
<i>a</i>	3.1684170	Ω	115.07753	-0.63774766	+0.70114633		
<i>e</i>	0.0804710	<i>i</i>	10.67496	-0.34211253	+0.11304642		
<i>P</i>	5.64	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 09 14	675	(1.3+	2.4+)	1998 12 22	704	1.9-	0.6-	2000 03 05	704	0.2+	0.4-
1991 09 14	675	(2.5+	0.8+)	2000 02 03	704	0.1-	0.3+	2000 03 05	704	0.3+	0.3+
1991 09 30	413	0.4+	0.4+	2000 02 03	704	0.2+	0.2+	2000 03 05	704	1.2-	0.1-
1991 10 01	413	0.1+	0.5+	2000 02 03	704	0.7+	0.9+	2000 03 05	704	0.2+	0.5+
1991 10 02	413	0.4+	0.4+	2000 02 03	704	1.1+	0.7+	2000 03 12	704	0.7+	0.4-
1991 10 05	413	0.5-	0.8+	2000 02 03	704	0.1+	0.5+	2000 03 12	704	0.1-	0.2-
1991 10 09	413	0.7-	1.2-	2000 02 06	703	0.6+	0.1-	2000 03 12	704	0.2+	0.0
1991 10 12	413	0.2-	0.6+	2000 02 06	703	0.8-	0.0	2000 03 12	704	0.3+	0.5-
1998 12 22	704	1.8+	0.5+	2000 02 06	703	0.6-	0.8+	2000 03 12	704	0.2-	0.7-
1998 12 22	704	0.0	1.8-	2000 02 06	703	1.0-	0.3-				
1998 12 22	704	0.2+	1.3+	2000 03 05	704	0.3-	0.4+				

1991 TB = 1976 JR₉ = 2000 DY₉₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	99.26981		(2000.0)	P		Q	
<i>n</i>	0.27927347	ω	9.18921	+0.79611907	-0.60167494		
<i>a</i>	2.3180151	Ω	28.11706	+0.54612465	+0.66833541		
<i>e</i>	0.1906615	<i>i</i>	7.88673	+0.26065744	+0.43739575		
<i>P</i>	3.53	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1976 05 02	809	0.2-	0.5-	2000 02 29	704	0.2-	0.9+	2000 03 09	704	0.7+	0.2-
1991 08 06	675	1.0+	1.1+	2000 02 29	704	0.2-	0.1+	2000 03 09	704	1.2+	0.6-
1991 08 06	675	0.9-	0.2+	2000 02 29	704	0.3-	0.1+	2000 03 09	704	0.8+	0.5-
1991 09 16	675	0.2+	1.1-	2000 02 29	704	0.4-	0.3-	2000 03 11	699	0.3+	0.0
1991 09 16	675	1.1-	0.2-	2000 02 29	704	0.1-	0.1+	2000 03 11	699	0.5-	0.4-
1991 09 30	413	0.7+	0.4-	2000 03 04	688	0.0	0.1-	2000 03 11	699	0.1+	0.3+
1991 10 01	413	0.4+	0.0	2000 03 04	688	0.1-	0.2-	2000 03 11	699	0.4-	0.5+

2000 MAR. 20

1991 10 02	413	0.2+	0.1−	2000 03 05	704	0.1+	0.1+	2000 03 12	704	0.2−	0.0
1991 10 05	413	0.4−	0.1+	2000 03 05	704	0.3−	0.2+	2000 03 12	704	0.1−	0.1+
2000 02 03	704	0.1+	0.4−	2000 03 05	704	0.2−	0.2+	2000 03 12	704	0.2−	0.4+
2000 02 03	704	0.1+	0.1+	2000 03 05	704	0.5−	0.4−	2000 03 12	704	0.0	0.2+
2000 02 03	704	0.2−	0.0	2000 03 05	704	0.3−	0.2−	2000 03 12	704	0.0	0.1+
2000 02 03	704	0.2−	0.0	2000 03 09	704	0.5+	0.1−				
2000 02 03	704	0.3−	0.4−	2000 03 09	704	0.6+	0.1+				

1991 TJ = 2000 EP₈₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	148.19008		(2000.0)		P		Q
<i>n</i>	0.27954672	ω	273.73534	+0.99059417			+0.11272057
<i>a</i>	2.3165043	Ω	79.80399	−0.07144748			+0.90958007
<i>e</i>	0.2420283	<i>i</i>	4.52049	−0.11669811			+0.39994771
<i>P</i>	3.53	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 09 12	675	0.4+	0.4−	1998 09 27	699	0.3−	0.4+	2000 02 29	704	0.2−	0.2−
1991 09 12	675	0.7−	0.6+	1999 01 07	704	1.5−	0.7−	2000 02 29	704	0.1−	0.3−
1991 09 12	675	0.1+	0.3−	1999 01 07	704	1.9+	0.2−	2000 02 29	704	0.3−	0.6−
1991 09 12	675	1.2+	1.0−	1999 01 07	704	0.5+	0.3+	2000 03 09	704	0.4−	1.2+
1991 09 14	675	0.8+	0.5+	1999 01 07	704	0.9−	0.8+	2000 03 09	704	0.9+	0.0
1991 09 14	675	0.9−	0.1−	2000 02 03	704	1.3−	0.7−	2000 03 09	704	0.8+	0.1+
1991 09 15	675	0.3+	1.1−	2000 02 03	704	0.0	0.2−	2000 03 09	704	1.7+	0.7+
1991 09 15	675	0.4+	1.2−	2000 02 03	704	0.1−	0.1−	2000 03 12	704	0.0	1.1+
1991 10 01	413	0.4+	1.1+	2000 02 03	704	0.6−	0.2−	2000 03 12	704	1.5−	0.7+
1991 10 02	413	0.2−	0.8+	2000 02 03	704	0.3−	0.0	2000 03 12	704	0.3−	0.7−
1991 10 05	413	0.7−	0.6−	2000 02 11	704	0.5−	0.2+	2000 03 12	704	0.2−	0.6−
1991 10 15	413	0.3−	0.2+	2000 02 11	704	0.9+	0.3−	2000 03 12	704	0.4−	0.2+
1998 09 27	699	0.2−	0.4+	2000 02 11	704	0.8+	0.3−				
1998 09 27	699	0.0	0.6+	2000 02 11	704	1.0+	0.3−				

1991 TB₅ = 1998 FR₁₂₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	20.92353		(2000.0)		P		Q
<i>n</i>	0.22661866	ω	313.92658	+0.81425210			+0.57898814
<i>a</i>	2.6644379	Ω	10.92374	−0.44851451			+0.67341831
<i>e</i>	0.1783514	<i>i</i>	12.81325	−0.36854883			+0.45965260
<i>P</i>	4.35	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1991 10 05	033	0.5−	0.0	1998 03 22	704	0.3−	0.2−	1998 04 02	809	1.5+	1.1−
1991 10 06	033	0.2+	0.2+	1998 03 22	704	1.0−	1.7+	1998 04 03	809	1.2+	0.1+
1991 10 06	033	0.2+	0.3+	1998 03 22	704	0.5+	0.6+	1998 04 03	809	1.7+	0.4+
1991 10 09	033	0.7−	0.1+	1998 03 29	704	0.1−	0.2+	1998 04 03	809	1.7+	0.7+
1991 10 09	033	0.0	0.1−	1998 03 29	704	0.7−	0.2−	1998 04 19	704	0.3+	1.1−
1991 10 10	033	0.8+	0.5−	1998 03 29	704	(2.4−	0.6+)	1998 04 19	704	0.9+	0.2−
1998 03 20	704	1.0−	0.3−	1998 03 29	704	0.6+	0.8+	1998 04 19	704	1.0−	1.1+
1998 03 20	704	1.0−	0.2−	1998 03 29	704	(5.5−	0.0)	1998 04 19	704	1.9−	0.1+
1998 03 20	704	0.6+	1.7−	1998 04 02	809	(2.4+	0.9−)	1998 04 19	704	1.0−	0.8−
1998 03 20	704	0.9−	0.1+	1998 04 02	809	(2.6+	1.2−)				

1991 TT₆ = 1999 UC₃₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	251.85132		(2000.0)		P		Q
<i>n</i>	0.24609132	ω	296.75497	−0.94346401			−0.32761653
<i>a</i>	2.5219619	Ω	224.17073	+0.32399264			−0.87929108
<i>e</i>	0.0935053	<i>i</i>	4.15025	+0.07003166			−0.34570884
<i>P</i>	4.01	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1991 10 02	033	1.2+	0.2+	1999 09 30	703	1.5−	0.1+	1999 10 29	703	1.4−	1.1+
1991 10 02	033	0.4−	0.3−	1999 09 30	703	0.4−	0.2−	1999 11 03	703	(2.4−	0.1−)

M.P.C. 39149

1991 10 03	033	0.6−	1.7−	1999 09 30	703	1.6+	0.4−	1999 11 03	703	1.8+	0.3−
1991 10 04	033	0.1−	0.4−	1999 09 30	703	0.3−	0.4−	1999 11 03	703	0.4−	0.2−
1991 10 09	033	0.1+	0.2−	1999 10 04	704	0.5+	0.5+	1999 11 03	703	0.1−	0.7+
1991 10 09	033	0.3+	0.3+	1999 10 04	704	1.6+	0.3−	1999 11 14	704	0.4+	0.2−
1999 09 18	703	0.7+	0.5+	1999 10 04	704	0.3−	0.2−	1999 11 14	704	0.1−	0.6+
1999 09 18	703	0.1−	0.0	1999 10 29	703	1.0−	0.6−	1999 11 14	704	0.5+	0.2+
1999 09 18	703	0.9−	0.6+	1999 10 29	703	0.1−	0.0	1999 11 14	704	0.4−	0.7−
1999 09 18	703	0.6−	0.7+	1999 10 29	703	0.2+	0.7+	1999 11 14	704	0.4−	0.3−

1991 VG₁ = 2000 EV₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	81.87274		(2000.0)		P		Q
<i>n</i>	0.26780370	ω	32.71333	+0.45492092			−0.88897478
<i>a</i>	2.3837370	Ω	30.32246	+0.79299623			+0.37749082
<i>e</i>	0.2717237	<i>i</i>	5.98466	+0.40522086			+0.25927693
<i>P</i>	3.68	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 10 17	675	0.1−	1.7+	1991 11 26	400	0.3−	0.9−	2000 02 27	703	0.3+	1.0+
1991 11 01	675	0.1−	0.0	1991 11 26	400	0.2−	1.6−	2000 02 27	703	0.0	0.2−
1991 11 01	675	1.1+	0.1+	1991 12 04	399	0.9−	0.1−	2000 03 08	704	0.3+	0.2+
1991 11 03	675	0.5+	0.3+	1991 12 04	399	0.7+	0.4+	2000 03 08	704	1.3+	0.4+
1991 11 03	675	0.1+	0.0	1991 12 07	675	1.6+	0.6−	2000 03 08	704	0.5−	0.2+
1991 11 04	399	1.3−	0.5+	1991 12 07	675	1.8+	1.3+	2000 03 08	704	1.7+	0.2+
1991 11 04	399	(3.0−	0.3+)	1998 09 24	699	0.0	0.9+	2000 03 12	704	0.4+	0.1+
1991 11 05	399	0.9−	0.3−	1998 09 24	699	0.1+	0.1+	2000 03 12	704	0.1+	0.0
1991 11 05	399	1.3−	0.3+	1998 09 24	699	0.3−	0.3−	2000 03 12	704	0.1+	0.1−
1991 11 11	399	0.5−	0.1−	2000 02 27	703	0.9−	0.2+	2000 03 12	704	0.5−	0.2+
1991 11 11	399	(2.3−	0.0)	2000 02 27	703	1.3−	0.2−				

1991 VC₉ = 2000 AX₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	279.22368		(2000.0)		P		Q
<i>n</i>	0.26046022	ω	116.95828	−0.93549739			+0.34809842
<i>a</i>	2.4283342	Ω	83.46404	−0.34194257			−0.84872759
<i>e</i>	0.1158675	<i>i</i>	3.49690	−0.08899388			−0.39810674
<i>P</i>	3.78	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1991 11 04	691	0.2+	0.1+	1991 11 08	691	0.3−	0.1−	2000 01 03	704	0.9+	0.4+
1991 11 04	691	0.3+	0.3−	1991 11 08	691	0.3−	0.1+	2000 01 04	704	1.2−	0.0
1991 11 04	691	0.4+	0.3−	1991 11 08	691	0.3+	0.0	2000 01 04	704	0.1+	0.1−
1991 11 05	691	0.0	0.0	1991 11 08	691	0.1−	0.1−	2000 01 04	704	0.4+	0.8−
1991 11 05	691	0.0	0.0	2000 01 03	704	1.0−	0.2−	2000 01 04	704	0.2+	0.5+
1991 11 05	691	0.0	0.1+	2000 01 03	704	0.4+	0.3−	2000 01 04	704	0.6−	1.1−
1991 11 08	691	0.2−	0.4+	2000 01 03	704	0.4+	0.7+	2000 01 04	704	0.2+	0.4+
1991 11 08	691	0.4−	0.0	2000 01 03	704	0.1−	0.1+	2000 01 04	704	0.1+	0.5+

1991 VH₉ = 1991 VU₁₂ = 2000 DH₇₅Id. S. Nakaon (d, *MPC* 20484), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	280.29017		(2000.0)		P		Q
<i>n</i>	0.29128330	ω	77.04541	+0.01503517			+0.99973033
<i>a</i>	2.2538534	Ω	193.85265	−0.94364880			+0.00833498
<i>e</i>	0.1850006	<i>i</i>	4.23902	−0.33060685			+0.02167474
<i>P</i>	3.38	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1991 11 04	691	0.5−	0.2−	1991 11 08	691	0.3+	0.4+	2000 03 03	704	0.4+	0.1+
1991 11 04	691	0.1+	0.5−	2000 02 27	703	0.6+	0.2−	2000 03 08	704	0.1+	0.1−
1991 11 04	691	0.6−	0.4−	2000 02 27	703	0.3+	0.2+	2000 03 08	704	0.3−	0.9−
1991 11 05	691	0.0	0.1−	2000 02 27	703	0.3+	0.7+	2000 03 08	704	0.3+	0.6+
1991 11 05	691	0.1−	0.1−	2000 02 27	703	1.0−	1.0+	2000 03 11	704	0.1+	0.1−
1991 11 05	691	0.1−	0.2+	2000 02 29	704	0.0	0.1−	2000 03 11	704	0.0	0.2+
1991 11 08	691	0.0	0.2+	2000 02 29	704	0.5−	1.2−	2000 03 11	704	0.3−	0.0

M.P.C. 39150

2000 MAR. 20

1991 11 08	691	0.2+	0.1+	2000 02 29	704	0.0	0.3−	2000 03 11	704	0.2−	0.3+
1991 11 08	691	0.4+	0.1+	2000 02 29	704	0.0	0.5−	2000 03 11	704	0.4−	0.0
1991 11 08	691	0.3−	0.2+	2000 03 03	704	0.3+	0.1+				
1991 11 08	691	0.6+	0.2+	2000 03 03	704	0.3+	0.1+				

1991 XE = 2000 BP₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	199.84621		(2000.0)	P		Q	
<i>n</i>	0.39912899	ω	269.68257	+0.87719854		+0.19023466	
<i>a</i>	1.8269523	Ω	79.31719	+0.02144933		+0.90171335	
<i>e</i>	0.1081097	<i>i</i>	26.65440	−0.47964847		+0.38823165	
<i>P</i>	2.47	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 12 07	675	1.6−	0.5−	2000 01 28	704	0.3+	0.9−	2000 02 26	703	0.8−	0.4+
1991 12 07	675	0.5−	0.5−	2000 01 28	704	0.8−	0.5−	2000 02 26	703	0.8+	0.2−
1991 12 08	675	0.2+	0.1−	2000 01 28	704	1.1+	0.2−	2000 02 26	703	0.1+	1.2−
1991 12 08	675	0.4+	0.7+	2000 01 29	704	1.3+	1.4+	2000 03 04	704	0.4−	0.3+
1991 12 08	675	0.1−	0.3+	2000 01 29	704	1.3+	0.2+	2000 03 04	704	0.6−	0.4+
1992 01 09	675	1.8+	0.4−	2000 01 29	704	0.5+	0.2+	2000 03 04	704	0.3−	0.7+
1992 01 09	675	0.5+	0.1+	2000 01 29	704	0.2+	0.0	2000 03 04	704	0.5−	0.4+
1996 11 07	327	0.2−	0.5+	2000 01 29	704	0.1−	0.4−	2000 03 04	704	0.2−	1.0+
1996 11 07	327	0.4−	0.5+	2000 02 03	704	0.0	0.2−	2000 03 18	704	0.0	0.2−
1996 11 07	327	0.0	0.2+	2000 02 03	704	0.0	0.1+	2000 03 18	704	0.6+	0.2+
2000 01 06	704	0.6−	1.0−	2000 02 03	704	0.7+	0.4+	2000 03 18	704	0.5−	0.5−
2000 01 06	704	0.4−	1.6−	2000 02 03	704	0.1+	0.8+	2000 03 18	704	0.1−	0.2−
2000 01 06	704	0.1−	0.1−	2000 02 03	704	0.8+	0.8+	2000 03 18	704	0.4−	0.2+
2000 01 28	704	0.3−	0.2−	2000 02 26	703	0.2−	0.5−				

1991 XF = 2000 EQ₉₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	64.47394		(2000.0)	P		Q	
<i>n</i>	0.26470567	ω	18.85194	+0.04854726		−0.99342422	
<i>a</i>	2.4022999	Ω	68.47285	+0.90147757		−0.00112239	
<i>e</i>	0.2245091	<i>i</i>	6.39975	+0.43009459		+0.11448604	
<i>P</i>	3.72	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 12 04	399	0.2+	0.1−	2000 01 08	704	0.4+	0.5−	2000 03 12	703	0.4+	0.8−
1991 12 04	399	0.1+	0.2−	2000 01 08	704	0.4−	0.3+	2000 03 12	704	0.8−	0.9+
1991 12 05	399	1.2−	0.6−	2000 01 08	704	0.5+	0.3−	2000 03 12	704	0.5−	0.0
1991 12 05	399	(2.4−	0.8+)	2000 01 08	704	0.8+	0.7+	2000 03 12	704	0.2+	0.4+
1991 12 14	399	0.1+	0.7−	2000 03 12	703	0.1−	0.1−	2000 03 12	704	0.6+	0.1+
1991 12 14	399	(3.0+	1.2−)	2000 03 12	703	0.5−	0.1+	2000 03 13	704	0.2+	0.1−
1992 01 03	033	0.6+	0.7+	2000 03 12	703	0.5−	0.1+	2000 03 13	704	0.2+	0.5+
1992 01 03	033	0.2+	1.4+	2000 03 12	703	0.4+	0.3−	2000 03 13	704	0.5+	0.2+
1998 09 17	699	(1.4+	3.4+)	2000 03 12	703	0.3+	0.1−	2000 03 13	704	0.4−	0.7+
1998 09 17	699	(1.0+	3.7+)	2000 03 12	703	0.3−	0.7−	2000 03 13	704	0.6+	0.2+
1998 09 17	699	0.6−	1.7+	2000 03 12	703	0.7−	0.1+				

1992 AC₁ = 1986 RK₈ = 1999 VO₁₄₃

Id. M. E. Sansaturio, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	1.01439		(2000.0)	P		Q	
<i>n</i>	0.23302840	ω	156.47507	+0.35265120		−0.91393876	
<i>a</i>	2.6153520	Ω	272.37592	+0.82345362		+0.40506235	
<i>e</i>	0.2710471	<i>i</i>	11.59858	+0.44447864		−0.02530708	
<i>P</i>	4.23	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1986 09 08	095	0.2+	0.3−	1999 08 11	704	0.1+	0.3+	1999 11 03	704	0.3+	0.3−
1992 01 10	402	0.4+	1.4+	1999 09 08	704	0.1+	0.3−	1999 11 03	704	0.5+	0.8−
1992 01 10	402	1.3+	0.3−	1999 09 08	704	0.2−	0.3−	1999 11 03	704	0.6+	0.9−
1992 01 11	402	1.1+	0.0	1999 09 08	704	0.0	0.2−	1999 11 03	704	0.8+	0.7−

1992 01 11	402	0.9+	0.4+	1999 09 08	704	0.1−	0.3−	1999 11 03	704	0.9+	1.0−
1992 01 26	402	0.8−	1.5−	1999 09 08	704	0.5−	0.2+	1999 11 09	703	0.1−	0.1+
1992 01 26	402	1.8−	0.4+	1999 09 13	703	0.0	0.1+	1999 11 09	703	0.1+	0.6+
1992 02 05	402	0.1+	0.4−	1999 09 13	703	0.3+	0.5+	1999 11 09	703	0.5−	0.4+
1992 02 05	402	(0.1+	2.3+)	1999 09 13	703	0.4−	0.2+	1999 11 09	703	0.5−	0.2+
1992 02 09	402	1.4−	0.1−	1999 09 13	703	0.7−	0.3+	1999 11 14	703	0.1+	0.3+
1992 02 09	402	0.0	0.6−	1999 10 05	704	0.3+	0.5−	1999 11 14	703	0.2−	0.0
1999 07 22	704	0.4−	0.2−	1999 10 05	704	0.2+	0.5−	1999 11 14	703	0.1+	0.2+
1999 07 22	704	0.2−	0.0	1999 10 05	704	0.4+	0.3−	1999 11 14	703	0.2−	0.3+
1999 07 22	704	0.3−	0.0	1999 10 05	704	0.3+	0.6−	1999 12 08	704	0.1−	0.3+
1999 07 22	704	0.5−	0.5−	1999 10 05	704	0.3+	0.6−	1999 12 08	704	0.0	0.3+
1999 07 22	704	0.1−	0.5+	1999 10 31	703	0.2−	0.3+	1999 12 08	704	0.1−	1.4+
1999 08 11	704	0.3+	0.3+	1999 10 31	703	0.0	0.5+	1999 12 08	704	0.4−	0.0
1999 08 11	704	0.2−	0.2+	1999 10 31	703	0.2+	0.4+	1999 12 08	704	0.2−	0.3+
1999 08 11	704	0.2−	0.2+	1999 10 31	703	0.1−	0.2+				

1992 DB₈ = 2000 EB₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	272.81275		(2000.0)	P		Q	
<i>n</i>	0.24564873	ω	118.06773	−0.22339042		+0.97193729	
<i>a</i>	2.5249903	Ω	138.80925	−0.92898318		−0.18939870	
<i>e</i>	0.0780943	<i>i</i>	6.42714	−0.29510503		−0.13952075	
<i>P</i>	4.01	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1992 02 29	809	1.7−	0.1+	2000 02 26	703	0.7−	1.5−	2000 03 08	704	0.2−	0.4+
1992 03 03	809	0.5+	0.3−	2000 02 26	703	0.8−	0.2+	2000 03 08	704	0.2−	0.4+
1992 03 07	809	1.0+	0.2−	2000 03 01	012	0.2−	0.2−	2000 03 08	704	0.2+	0.0
2000 02 04	704	0.5−	0.0	2000 03 01	012	0.8−	0.3−	2000 03 09	704	0.1−	0.1−
2000 02 04	704	0.9−	0.7−	2000 03 01	012	0.5−	0.1−	2000 03 09	704	0.6+	0.4+
2000 02 04	704	0.5+	0.4+	2000 03 01	012	0.4−	0.2−	2000 03 09	704	0.1−	0.7+
2000 02 04	704	0.2−	0.4−	2000 03 01	012	0.3−	0.2−	2000 03 09	704	0.4+	0.1−
2000 02 04	704	0.6−	0.6+	2000 03 05	704	0.5+	0.3+	2000 03 12	704	0.0	0.4+
2000 02 11	704	1.0+	1.9+	2000 03 05	704	1.4+	0.2−	2000 03 12	704	0.0	0.1+
2000 02 11	704	0.1+	0.2−	2000 03 05	704	0.4+	0.4+	2000 03 12	704	0.1+	0.2+
2000 02 11	704	1.5+	0.0	2000 03 05	704	0.0	0.7−	2000 03 12	704	0.3−	0.2−
2000 02 11	704	2.0+	1.0−	2000 03 05	704	0.5−	0.7−	2000 03 12	704	0.1+	1.0+
2000 02 26	703	1.5−	0.8+	2000 03 08	704	0.2−	0.6−				
2000 02 26	703	0.1+	0.3−	2000 03 08	704	0.3+	0.2−				

1992 EZ₁₀ = 2000 DS₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	3.91216		(2000.0)	P		Q	
<i>n</i>	0.12512082	ω	357.75028	−0.95728779		−0.28864807	
<i>a</i>	3.9589772	Ω	165.43907	+0.26631058		−0.90285651	
<i>e</i>	0.1352353	<i>i</i>	3.83247	+0.11260001		−0.31864151	
<i>P</i>	7.88	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 03 06	809	0.4−	0.1+	2000 02 29	704	0.3+	0.0	2000 03 11	704	0.2−	0.1−
1992 03 08	809	0.4+	0.2+	2000 02 29	704	0.3+	0.1−	2000 03 11	699	0.9−	0.3−
1992 03 09	809	0.1−	0.2+	2000 02 29	704	0.3−	0.3−	2000 03 11	704	0.0	0.0
1992 04 06	809	0.0	1.0−	2000 02 29	704	0.1−	0.7−	2000 03 11	699	0.7−	0.1−
2000 02 11	704	0.2−	0.1+	2000 02 29	704	1.0+	1.0−	2000 03 11	704	0.1−	0.2+
2000 02 11	704	0.1+	1.2+	2000 03 03	704	0.3−	0.2−	2000 03 11	699	0.8−	0.2−
2000 02 11	704	0.5−	1.1+	2000 03 03	704	0.2+	0.2−	2000 03 12	704	0.2+	0.3−
2000 02 11	704	0.2+	1.6+	2000 03 03	704	0.3+	0.1−	2000 03 12	704	0.2+	0.3+
2000 02 11	704	0.7+	0.2−	2000 03 03	704	0.2+	0.1−	2000 03 12	704	0.7+	1.2+
2000 02 16	703	0.5+	0.7−	2000 03 03	704	0.2+	0.3+	2000 03 12	704	0.6+	1.0+
2000 02 16	703	1.6−	0.7−	2000 03 11	704	0.3+	0.2+	2000 03 12	704	0.5+	0.8+
2000 02 16	703	0.8−	0.9−	2000 03 11	699	0.7−	0.1+				
2000 02 16	703	1.0+	0.9−	2000 03 11	704	0.1−	0.4−				

2000 MAR. 20

M.P.C. 39151

1992 EZ₁₃ = 2000 DX₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5									
<i>M</i>	29.72429		(2000.0)		P		Q	Williams	
<i>n</i>	0.12420919	<i>ω</i>	307.29144		−0.64939261		−0.76040459		
<i>a</i>	3.9783247	<i>Ω</i>	183.24386		+0.73694969		−0.62648883		
<i>e</i>	0.0997676	<i>i</i>	8.74976		+0.18760169		−0.17116252		
<i>P</i>	7.94	<i>H</i>	13.1	<i>G</i>	0.15		<i>U</i>	5	
Residuals in seconds of arc									
1992 03 02	809	0.5−	0.9+	2000 02 29	704	0.2−	0.8−	2000 03 03	704 0.1+ 0.7+
1992 03 05	809	0.4+	0.5−	2000 02 29	704	0.4−	0.6+	2000 03 11	704 0.7+ 0.1−
1992 03 09	809	0.0	0.5−	2000 03 03	704	0.1−	0.1−	2000 03 11	704 0.3+ 0.5−
1992 04 07	809	0.1+	0.1+	2000 03 03	704	0.2−	0.0	2000 03 11	704 0.4− 0.0
2000 02 29	704	0.4+	1.0−	2000 03 03	704	0.3+	0.5+	2000 03 11	704 0.1+ 0.2+
2000 02 29	704	0.3−	0.4+	2000 03 03	704	0.9+	0.0	2000 03 11	704 1.1− 0.2+

1992 EJ₁₄ = 2000 DR₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5									
<i>M</i>	209.20354		(2000.0)		P		Q	Williams	
<i>n</i>	0.24586235	<i>ω</i>	12.74356		+0.69740194		+0.71525384		
<i>a</i>	2.5235274	<i>Ω</i>	301.49651		−0.66210444		+0.61887528		
<i>e</i>	0.0578184	<i>i</i>	3.03825		−0.27431414		+0.32466187		
<i>P</i>	4.01	<i>H</i>	14.2	<i>G</i>	0.15		<i>U</i>	6	
Residuals in seconds of arc									
1992 03 02	809	0.5−	0.2+	2000 02 29	704	0.6−	0.2+	2000 03 11	704 0.1+ 0.0
1992 03 05	809	0.6+	0.2−	2000 02 29	704	0.2−	0.1+	2000 03 11	704 0.0 0.1+
1992 03 09	809	0.2−	0.2−	2000 02 29	704	0.5−	0.0	2000 03 11	704 0.7+ 0.0
2000 02 06	704	0.1−	0.2−	2000 03 03	704	0.2+	0.1+	2000 03 11	704 0.3+ 0.1+
2000 02 06	704	0.1−	0.1+	2000 03 03	704	0.1−	0.1−	2000 03 11	704 0.0 0.6−
2000 02 06	704	0.3−	0.1+	2000 03 03	704	0.1+	0.1+		
2000 02 29	704	0.9+	0.7+	2000 03 03	704	0.3−	0.4−		

1992 FL₃ = 1998 KW₂₃ = 1999 RK₁₄₀

Id. A. Doppler									
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5									
<i>M</i>	89.40964		(2000.0)		P		Q	Williams	
<i>n</i>	0.17828103	<i>ω</i>	110.25265		−0.10153245		+0.99466911		
<i>a</i>	3.1265541	<i>Ω</i>	153.89999		−0.92734086		−0.08807278		
<i>e</i>	0.1124239	<i>i</i>	2.34676		−0.36018065		−0.05363338		
<i>P</i>	5.53	<i>H</i>	14.1	<i>G</i>	0.15		<i>U</i>	1	
Residuals in seconds of arc									
1992 03 26	691	0.5+	0.7−	1998 05 24	704	1.4−	1.3+	1999 09 07	704 0.3− 0.1−
1992 03 26	691	0.2+	0.9−	1998 05 24	704	1.9+	0.8−	1999 09 09	704 0.2− 0.3−
1992 03 26	691	0.4+	0.5−	1998 05 24	704	0.5+	0.1+	1999 09 09	704 1.1+ 0.1−
1992 03 30	033	0.5−	0.2+	1998 05 28	699	0.5+	0.2+	1999 09 09	704 0.3− 0.8+
1992 03 31	033	1.2−	0.4+	1998 05 28	699	0.6+	0.6+	1999 09 13	704 0.5− 0.2+
1997 02 06	566	0.5−	0.1−	1998 05 28	699	0.2+	0.5−	1999 09 13	704 0.2− 0.5−
1997 02 06	566	0.6−	0.2−	1999 08 22	703	0.2−	0.1+	1999 09 13	704 1.4+ 0.0
1997 02 06	566	0.8+	0.4−	1999 08 22	703	0.9+	0.6−	1999 09 13	704 0.3− 0.1+
1998 05 22	704	0.1−	1.4+	1999 08 22	703	1.0+	0.6+	1999 09 13	704 0.1+ 0.2−
1998 05 22	704	0.5−	0.6+	1999 08 22	703	0.1−	0.2+	1999 09 30	704 0.1− 0.5−
1998 05 22	704	1.2+	0.5−	1999 09 07	704	0.6−	0.6−	1999 09 30	704 0.6− 0.8−
1998 05 22	704	0.9−	0.6−	1999 09 07	704	0.3−	0.2+	1999 09 30	704 0.1+ 0.1−
1998 05 24	704	0.5−	0.4−	1999 09 07	704	0.7−	0.0	1999 09 30	704 0.6+ 0.6−
1998 05 24	704	1.2−	0.9−	1999 09 07	704	0.1+	0.7+	1999 09 30	704 0.3− 0.8−

1992 GA₅ = 2000 EW₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5									
<i>M</i>	262.66574		(2000.0)		P		Q	Williams	
<i>n</i>	0.23163361	<i>ω</i>	236.67324		+0.28283681		+0.95773554		
<i>a</i>	2.6258404	<i>Ω</i>	49.84614		−0.85566146		+0.27662484		
<i>e</i>	0.2996670	<i>i</i>	3.93133		−0.43341297		+0.07887547		
<i>P</i>	4.26	<i>H</i>	14.6	<i>G</i>	0.15		<i>U</i>	3	
Residuals in seconds of arc									
1992 04 04	809	(0.0	2.4−)	1997 10 30	704	1.2+	0.6−	2000 03 02	703 1.3− 0.0
1992 04 04	809	1.3−	1.8−	1997 10 30	704	(2.3−	0.6−)	2000 03 02	703 1.6+ 0.4−
1992 04 04	809	1.0−	1.9−	1997 11 03	704	0.8−	1.7−	2000 03 04	704 0.8+ 0.2−
1992 04 06	809	0.4+	1.1−	1997 11 03	704	0.6+	0.8+	2000 03 04	704 1.0+ 0.9−
1992 04 06	809	0.0	1.6−	1997 11 03	704	0.1+	0.8+	2000 03 04	704 0.8+ 0.6−
1992 04 06	809	(0.8−	2.7−)	1997 11 03	704	1.0−	1.5+	2000 03 04	704 1.1− 1.1−
1992 04 25	809	1.7−	1.6+	2000 02 04	704	0.9+	1.2+	2000 03 04	704 1.3+ 0.7−
1992 04 25	809	1.2−	1.8+	2000 02 04	704	0.7+	0.2+	2000 03 05	704 0.2+ 0.6−
1992 04 25	809	(1.1−	2.0+)	2000 02 04	704	1.1+	1.6+	2000 03 05	704 0.3+ 0.0
1992 05 02	809	1.9+	0.5+	2000 02 04	704	(2.2+	0.2−)	2000 03 05	704 0.5− 0.4+
1992 05 02	809	(2.3+	0.3+)	2000 02 11	704	0.0	1.5−	2000 03 05	704 0.7+ 0.2+
1992 05 02	809	(2.7+	0.5+)	2000 02 11	704	0.3−	0.2+	2000 03 05	704 0.3− 0.7−
1992 05 03	809	0.8+	1.2+	2000 02 11	704	0.1+	0.3−	2000 03 11	699 0.8− 0.1−
1992 05 03	809	1.1+	1.1+	2000 02 11	704	0.9−	1.3+	2000 03 11	699 0.1− 1.3+
1992 05 03	809	1.4+	1.1+	2000 02 11	704	0.0	1.3+	2000 03 11	699 0.3− 1.1+
1997 10 29	566	0.2−	0.4+	2000 02 25	703	0.4+	0.5+	2000 03 11	699 (2.1− 0.2+)
1997 10 29	566	0.5−	0.3+	2000 02 25	703	0.2+	0.0	2000 03 12	704 0.6− 0.3−
1997 10 29	566	0.1−	0.2+	2000 02 25	703	0.4−	1.0−	2000 03 12	704 0.4− 0.0
1997 10 30	704	0.8−	0.0	2000 02 25	703	0.8−	0.7−	2000 03 12	704 0.7− 0.2+
1997 10 30	704	0.6+	0.1+	2000 03 02	703	(0.4+	2.3+)	2000 03 12	704 0.3+ 0.4+
1997 10 30	704	0.4−	0.5+	2000 03 02	703	1.1−	1.0+		

1992 OH₂ = 1978 CL = 1978 EK₁ = 1999 VY₈₇

Id. A. Doppler, G. V. Williams (d)									
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5									
<i>M</i>	138.16766		(2000.0)		P		Q	Williams	
<i>n</i>	0.16931311	<i>ω</i>	147.61222		+0.25956033		+0.92754885		
<i>a</i>	3.2360035	<i>Ω</i>	135.72704		−0.94764471		+0.29825171		
<i>e</i>	0.0418554	<i>i</i>	22.65196		−0.18600524		−0.22516448		
<i>P</i>	5.82	<i>H</i>	11.8	<i>G</i>	0.15		<i>U</i>	2	
Residuals in seconds of arc									
1978 02 02	675	0.2+	0.1−	1998 08 23	704	0.7−	0.4+	1999 11 08	704 0.2− 0.3+
1978 03 05	095	0.5−	0.8+	1998 08 23	704	0.0	1.3+	1999 11 10	704 0.2− 0.0
1992 07 24	809	0.6+	0.5+	1998 08 23	704	0.2+	0.2+	1999 11 10	704 0.1+ 0.2+
1992 07 24	809	0.2+	0.2−	1998 09 17	699	0.2+	0.1−	1999 11 10	704 0.1+ 0.3−
1992 07 24	809	0.8−	0.4−	1998 09 17	699	0.4+	0.4−	1999 11 10	704 0.1− 0.1−
1992 07 26	809	0.2−	1.0−	1998 09 17	699	0.2+	0.2−	1999 11 10	704 0.1+ 0.3−
1992 07 26	809	0.7+	0.7−	1998 12 08	704	0.3+	0.8+	1999 12 01	704 1.3+ 0.4−
1992 07 26	809	0.3+	1.0−	1998 12 08	704	(1.1+	2.4−)	1999 12 01	704 0.2+ 0.3−
1992 07 30	809	0.3+	0.1−	1998 12 08	704	1.3−	1.2−	1999 12 01	704 1.2+ 0.7−
1992 07 30	809	0.3−	0.2+	1998 12 08	704	(1.0−	3.5−)	1999 12 18	704 1.0+ 0.1+
1992 07 30	809	0.4−	0.3+	1999 09 14	704	0.4−	0.7−	1999 12 18	704 0.1− 1.3+
1998 07 04	699	0.3−	0.9+	1999 09 14	704	0.0	0.6−	1999 12 18	704 0.7+ 1.2+
1998 07 04	699	0.3+	0.8+	1999 09 14	704	0.1+	0.1−	2000 01 10	704 0.2− 0.2+
1998 07 04	699	0.3−	0.2+	1999 09 14	704	0.1−	0.5−	2000 01 10	704 0.2− 1.0+
1998 07 31	699	0.0	0.2+	1999 09 14	704	0.7−	1.1−	2000 01 10	704 0.4− 0.3+
1998 07 31	699	0.1−	1.2+	1999 11 08	704	0.3−	0.4−	2000 01 10	704 0.5+ 0.7+
1998 07 31	699	0.2−	0.0	1999 11 08	704	1.1−	0.1−	2000 01 10	704 0.6− 0.5+
1998 08 23	704	0.5+	0.0	1999 11 08	704	0.4−	0.1−		
1998 08 23	704	0.1−	0.3−	1999 11 08	704	0.2+	0.3−		

1992 PO = 2000 AB₁₆₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	88.69040		(2000.0)	P	Q
<i>n</i>	0.17546500	ω	63.18371	+0.96061495	-0.23533266
<i>a</i>	3.1599173	Ω	310.04491	+0.13151899	+0.85348803
<i>e</i>	0.2280379	<i>i</i>	11.12987	+0.24478902	+0.46494808
<i>P</i>	5.62	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1992 07 26	809	0.4+	0.2-	1992 08 09	010	1.6-	0.7+	2000 01 29	691	0.2-	1.0-
1992 07 26	809	1.2+	0.5+	1992 08 09	010	0.8-	0.3+	2000 01 29	691	0.2-	0.3-
1992 07 26	809	0.6+	0.8-	2000 01 04	704	0.5-	0.3-	2000 02 07	691	0.5-	0.2-
1992 07 26	809	1.6+	0.2-	2000 01 04	704	0.0	0.1+	2000 02 07	691	0.5-	0.1-
1992 07 26	809	0.1+	1.2+	2000 01 04	704	0.4+	0.3+	2000 02 07	691	0.3-	0.1+
1992 07 26	809	0.2+	0.2+	2000 01 04	704	1.6+	0.2+	2000 02 11	704	0.3-	1.4+
1992 07 30	809	(2.9+	3.0-)	2000 01 06	704	0.4-	0.5-	2000 02 11	704	0.7-	0.1-
1992 07 30	809	(3.4+	2.5-)	2000 01 06	704	0.8-	0.5+	2000 02 11	704	0.8+	0.4-
1992 07 30	809	(5.1+	2.7-)	2000 01 06	704	0.2+	0.8-	2000 02 11	704	0.9+	0.4+
1992 08 08	010	0.6-	1.0-	2000 01 27	049	0.5+	0.2-	2000 02 14	691	0.4-	0.0
1992 08 08	010	0.8-	0.8-	2000 01 28	049	0.6+	0.5+	2000 02 14	691	0.4-	0.1+
1992 08 08	010	(2.5-	1.6-)	2000 01 28	049	0.4+	0.2+	2000 02 14	691	0.1-	0.0
1992 08 09	010	(2.5-	0.4-)	2000 01 29	691	0.3-	0.3-				

1992 RR₃ = 1999 XH₁₈₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	44.17633		(2000.0)	P	Q
<i>n</i>	0.29785858	ω	70.78803	+0.69200037	-0.72041275
<i>a</i>	2.2205606	Ω	335.23091	+0.61389554	+0.62098541
<i>e</i>	0.1411248	<i>i</i>	6.34071	+0.37982595	+0.30884071
<i>P</i>	3.31	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1992 09 02	809	(3.4+	0.7+)	1999 12 12	704	(0.1+	2.3-)	2000 01 02	704	0.3-	0.1-
1992 09 02	809	(3.2+	0.6+)	1999 12 12	704	1.0-	0.4-	2000 01 02	704	0.2-	0.4-
1992 09 02	809	(2.6+	0.1+)	1999 12 15	704	0.2+	0.7+	2000 01 29	704	0.0	0.7+
1992 09 03	809	0.3+	0.2-	1999 12 15	704	0.1+	0.2-	2000 01 29	704	0.8-	0.7+
1992 09 22	809	0.1-	0.1+	1999 12 15	704	0.1+	1.0+	2000 01 29	704	1.2+	0.3-
1992 09 22	809	0.6-	0.3-	1999 12 15	704	0.3+	0.5-	2000 01 29	704	0.7-	0.1-
1992 09 22	809	0.7-	0.1-	1999 12 15	704	0.6+	0.6+	2000 01 30	704	0.2+	1.4+
1992 09 23	809	1.1+	0.5-	1999 12 15	704	0.9+	0.3-	2000 01 30	704	0.1+	1.1-
1992 09 23	809	0.3+	0.0	1999 12 15	704	0.9+	0.8-	2000 01 30	704	0.1+	0.1+
1992 09 23	809	0.4-	1.1+	2000 01 02	704	0.5+	0.0	2000 01 30	704	0.4+	0.5+
1999 12 12	704	0.2+	0.0	2000 01 02	704	1.7-	0.0	2000 01 30	704	0.2+	1.4-
1999 12 12	704	0.5-	0.2+	2000 01 02	704	0.8-	0.4-				

1992 RW₃ = 2000 DG₁₀₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	179.39082		(2000.0)	P	Q
<i>n</i>	0.19792313	ω	65.33313	+0.96767694	+0.25184032
<i>a</i>	2.9161174	Ω	280.07820	-0.23600244	+0.88564712
<i>e</i>	0.0767692	<i>i</i>	0.77598	-0.08890553	+0.39013540
<i>P</i>	4.98	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1992 09 02	809	0.9+	0.9+	2000 02 25	691	0.4-	0.3-	2000 03 11	704	(0.0	2.2+)
1992 09 02	809	0.6+	0.7+	2000 02 25	691	0.3-	0.6-	2000 03 11	699	0.0	0.3-
1992 09 02	809	1.4-	0.4-	2000 02 25	691	0.3-	0.5-	2000 03 11	699	0.5+	0.4+
1992 09 03	809	0.5-	0.7-	2000 02 29	704	0.9+	0.9+	2000 03 11	699	0.0	0.6+
1992 09 22	809	0.8+	0.0	2000 02 29	704	0.5+	0.4+	2000 03 11	699	0.3+	0.4-
1992 09 22	809	0.8-	0.2-	2000 02 29	704	0.1+	0.3-	2000 03 12	691	0.3-	0.2-
1992 09 22	809	1.4-	0.3+	2000 03 05	704	0.2+	0.1+	2000 03 12	691	0.2-	0.1-
1992 09 23	809	0.9+	0.3-	2000 03 05	704	0.1-	0.2-	2000 03 12	691	0.2-	0.1-
1992 09 23	809	1.0+	0.7-	2000 03 05	704	0.4-	0.3+	2000 03 14	691	0.1-	0.1+
1992 09 23	809	0.8+	0.1+	2000 03 11	704	0.3+	0.3+	2000 03 14	691	0.2-	0.1-
1992 10 04	691	0.6-	0.4+	2000 03 11	704	0.2-	0.6+	2000 03 14	691	0.2-	0.2-

1992 10 04	691	0.6-	0.2+	2000 03 11	704	0.2+	0.8+
1992 10 04	691	0.3-	0.5+	2000 03 11	704	0.4+	0.0

1992 SL₁₇ = 2000 BB₂₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	139.88217		(2000.0)	P	Q
<i>n</i>	0.31411131	ω	188.02333	+0.98588043	+0.16733485
<i>a</i>	2.1432870	Ω	162.34009	-0.15247012	+0.91244436
<i>e</i>	0.1445362	<i>i</i>	1.17706	-0.06922897	+0.37342246
<i>P</i>	3.14	<i>H</i>	16.4	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1992 09 21	033	0.3-	0.5-	2000 01 26	691	0.4-	0.2-	2000 02 03	704	0.3+	1.4+
1992 09 22	033	0.3-	0.3+	2000 01 26	691	0.6-	0.3-	2000 02 03	704	1.3+	1.0+
1992 09 24	033	0.6+	0.3-	2000 01 26	691	0.5-	0.4-	2000 02 03	704	0.8+	1.1+
1992 09 24	033	0.2+	0.5+	2000 02 01	691	0.5-	0.8-	2000 02 26	695	0.0	0.2-
1992 09 26	033	0.0	0.2-	2000 02 01	691	0.6-	0.6-	2000 02 26	695	0.2-	0.0
1992 09 27	033	0.1-	0.3+	2000 02 01	691	0.3-	0.5-				
1992 09 28	033	0.1-	0.1+	2000 02 03	704	0.6+	0.5-				

1992 SS₁₇ = 2000 ER₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	107.09503		(2000.0)	P	Q
<i>n</i>	0.19575670	ω	242.70392	+0.35486932	-0.93490986
<i>a</i>	2.9375930	Ω	186.51336	+0.86790844	+0.33077031
<i>e</i>	0.0285339	<i>i</i>	1.69903	+0.34756682	+0.12858674
<i>P</i>	5.03	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1992 09 21	033	0.5+	0.0	2000 03 08	704	1.4-	0.5-	2000 03 10	704	0.7+	0.5+
1992 09 22	033	0.3-	0.8-	2000 03 08	704	1.7-	1.3-	2000 03 11	704	0.2+	0.5-
1992 09 24	033	0.4+	0.8+	2000 03 08	704	0.3-	0.5+	2000 03 11	704	0.4+	0.2-
1992 09 24	033	0.0	0.3+	2000 03 08	704	0.1-	0.4+	2000 03 11	704	0.8+	0.0
1992 09 26	033	0.2+	0.3-	2000 03 10	704	0.0	0.1-	2000 03 11	704	0.1+	0.5+
1992 09 27	033	0.0	0.2-	2000 03 10	704	0.2-	0.3+	2000 03 11	704	1.3+	0.3+
1992 09 28	033	0.9-	0.5+	2000 03 10	704	0.0	0.3+				
2000 03 08	704	(3.3-	0.4+)	2000 03 10	704	0.3+	0.3+				

1992 TG₁ = 1985 TP₂ = 1998 HA₁₈ = 1999 XU₁₂₁ = 2000 AX₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	101.99126		(2000.0)	P	Q
<i>n</i>	0.28635122	ω	326.34819	+0.68223713	+0.73070982
<i>a</i>	2.2796597	Ω	346.61264	-0.64496096	+0.58549913
<i>e</i>	0.1890731	<i>i</i>	6.15197	-0.34435136	+0.35107539
<i>P</i>	3.44	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1985 10 14	010	0.6-	0.9+	1998 04 18	704	0.6+	0.1+	1999 12 13	703	0.1-	0.2-
1985 10 15	010	(6.4-	1.3-)	1998 04 19	704	0.4+	0.1+	1999 12 13	703	0.2-	1.0-
1992 09 26	402	0.2-	0.8-	1998 04 19	704	0.1+	0.5+	2000 01 03	704	1.5-	1.0-
1992 09 26	402	1.4+	1.0+	1998 04 19	704	0.3+	0.3-	2000 01 03	704	0.5-	0.8+
1992 09 27	402	0.6-	0.8-	1998 04 19	704	0.2+	0.3+	2000 01 03	704	0.0	0.8-
1992 09 27	402	0.3-	0.4+	1999 12 07	703	0.2+	0.2+	2000 01 03	704	1.0-	0.2+
1992 10 02	402	(4.1-	1.0-)	1999 12 07	703	0.1-	0.6+	2000 01 04	704	0.1-	0.0
1992 10 02	402	0.0	0.0	1999 12 07	703	0.5+	0.1-	2000 01 04	704	0.2+	0.2-
1998 04 18	704	0.8+	1.3-	1999 12 07	703	0.2+	0.5+	2000 01 04	704	0.6+	0.1-
1998 04 18	704	1.5-	1.4+	1999 12 13	703	0.1+	0.6+	2000 01 04	704	0.1+	0.5-
1998 04 18	704	0.4-	0.3+	1999 12 13	703	0.1+	0.2+	2000 01 04	704	1.1+	1.0+

1992 WK₂ = 2000 AD₂₄₆

Id. A. Doppler

2000 MAR. 20

M.P.C. 39153

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	321.69455		(2000.0)		P		Q				
<i>n</i>	0.27532804	ω	227.19245		-0.47303123		-0.87999666				
<i>a</i>	2.3401072	Ω	251.08541		+0.82102364		-0.42258294				
<i>e</i>	0.1079697	<i>i</i>	2.60406		+0.31962734		-0.21686294				
<i>P</i>	3.58	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5				
Residuals in seconds of arc											
1992 11 18	399	0.5+	1.0+	1992 11 28	675	1.0+	0.0	1999 11 16	704	0.3+	0.3-
1992 11 18	399	(2.7+	1.8+)	1992 11 28	675	0.2-	0.5-	1999 11 16	704	0.3+	0.1+
1992 11 21	399	0.1+	0.5+	1999 11 14	704	0.2-	0.4+	1999 11 16	704	0.2+	0.2-
1992 11 21	399	(2.1-	0.1-)	1999 11 14	704	0.2-	0.3+	2000 01 04	704	0.5-	0.3+
1992 11 24	691	0.3-	0.2-	1999 11 14	704	0.7-	0.2-	2000 01 04	704	0.3+	0.1-
1992 11 24	691	0.4-	0.2-	1999 11 14	704	0.4-	0.1-	2000 01 04	704	0.0	0.2+
1992 11 24	691	0.3-	0.2-	1999 11 14	704	0.4-	0.1-	2000 01 04	704	0.5+	0.1+
1992 11 25	675	0.4-	0.4-	1999 11 16	704	0.7+	0.4+	2000 01 04	704	0.3-	0.4-
1992 11 25	675	(1.0+	2.5-)	1999 11 16	704	0.6+	0.4-				

1992 YT₃ = 2000 AV₄₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	8.30074		(2000.0)	P			Q				
<i>n</i>	0.26522839	ω	305.81564	+0.42534373			−0.90172194				
<i>a</i>	2.3991425	Ω	118.83624	+0.85622400			+0.37325204				
<i>e</i>	0.1915058	<i>i</i>	5.06458	+0.29319476			+0.21812946				
<i>P</i>	3.72	<i>H</i>	15.1	<i>G</i>	0.15		<i>U</i>	3			
Residuals in seconds of arc											
1992 12 24	691	0.1+	0.3+	1999 11 02	703	0.3−	0.5+	2000 01 07	704	0.2+	1.1−
1992 12 24	691	0.2−	0.3+	1999 11 02	703	0.0	0.5+	2000 01 07	704	0.5−	0.0
1992 12 24	691	0.1+	0.4+	1999 12 02	699	0.3−	0.7+	2000 01 07	704	0.4−	0.9+
1992 12 25	691	0.3−	0.0	1999 12 02	699	0.6−	0.7−	2000 01 07	704	1.7−	0.2−
1992 12 25	691	0.2−	0.1+	1999 12 02	699	0.6−	0.3−	2000 01 07	704	0.7−	0.1−
1992 12 25	691	0.4−	0.3−	1999 12 03	704	0.3−	0.7−	2000 01 08	704	0.6−	0.9+
1993 01 26	691	0.4+	0.2+	1999 12 03	704	0.2+	0.1+	2000 01 08	704	1.8+	0.5+
1993 01 26	691	0.2+	0.2+	1999 12 03	704	0.4−	0.0	2000 01 08	704	0.5−	0.1−
1993 01 26	691	0.2+	0.2+	1999 12 03	704	1.0+	0.4+	2000 01 08	704	0.2+	0.7−
1999 10 04	703	0.2−	0.4+	1999 12 03	704	0.5+	0.1−	2000 02 09	413	0.0	0.0
1999 10 04	703	0.3+	0.1−	2000 01 05	704	1.9+	0.3−	2000 02 09	413	0.0	0.1+
1999 10 04	703	0.2−	0.4+	2000 01 05	704	0.7+	1.3−	2000 02 26	413	0.4−	0.3+
1999 10 04	703	0.2+	0.2+	2000 01 05	704	0.3+	1.1−	2000 02 26	413	0.1+	0.1−
1999 11 02	703	0.6−	0.5+	2000 01 05	704	0.6+	0.1+				
1999 11 02	703	0.6−	0.2+	2000 01 05	704	1.6+	0.9−				

1993 BZ₂ = 1999 RM₁₄₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	345.81636		(2000.0)		P		Q				
<i>n</i>	0.25429180	ω	115.19077		+0.44919691		-0.88336665				
<i>a</i>	2.4674468	Ω	307.45668		+0.74704536		+0.45346890				
<i>e</i>	0.1897431	<i>i</i>	9.69909		+0.49004629		+0.11844539				
<i>P</i>	3.88	<i>H</i>	15.4		<i>G</i>	0.15	<i>U</i>	5			
Residuals in seconds of arc											
1993 01 25	372	(0.9-	2.3+)	1999 09 05	703	1.3-	0.1-	1999 09 11	704	0.7+	0.3-
1993 01 25	372	(2.6-	1.8-)	1999 09 05	703	(2.5-	0.2-)	1999 09 11	704	0.6+	0.0
1993 01 26	372	2.0-	1.7-	1999 09 08	704	0.8+	0.1-	1999 09 11	704	0.9+	0.8-
1993 01 28	809	1.2+	0.9+	1999 09 08	704	0.1-	0.3-	1999 09 11	704	0.7-	0.3+
1993 01 28	809	0.1-	0.7+	1999 09 08	704	0.2+	0.1+	1999 09 11	704	1.5+	1.3-
1993 01 28	809	0.7+	0.5-	1999 09 08	704	0.4+	0.4-	1999 09 30	703	0.0	0.2+
1993 01 30	372	0.1+	0.6+	1999 09 09	704	0.2+	0.2-	1999 09 30	703	0.2-	0.2+
1993 01 30	372	(6.2+	0.0)	1999 09 09	704	0.1-	0.4+	1999 09 30	703	0.7-	0.1-
1999 09 05	703	0.3+	0.4-	1999 09 09	704	0.2-	0.0	1999 09 30	703	0.2-	0.1-
1999 09 05	703	1.5-	1.1+	1999 09 09	704	0.8-	1.9+				

1993 FG₁ = 1998 SJ₃₃ = 2000 FB

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	31.30165		(2000.0)	P		Q					
n	0.28130982	ω	303.47946	-0.59859875	-0.80069271						
a	2.3068151	Ω	183.57456	+0.80104834	-0.59837082						
e	0.2031514	i	22.53018	-0.00104319	-0.02904374						
P	3.50	H	14.1	G	0.15	U	4				
Residuals in seconds of arc											
1993 03 15	400	0.0	1.2-	1993 04 16	413	(0.9-	4.5+)	2000 03 17	120	0.4-	0.5-
1993 03 15	400	(3.2-	2.9-)	1998 09 25	704	0.0	0.2+	2000 03 17	120	0.7-	0.6+
1993 03 19	809	0.1-	0.5-	1998 09 25	704	0.4-	1.0-	2000 03 17	120	0.1+	0.3-
1993 03 19	675	1.1+	0.6+	1998 09 25	704	0.1+	1.0-	2000 03 17	120	0.3-	0.5+
1993 03 19	675	0.4-	0.8-	1998 09 25	704	0.9+	0.6-	2000 03 17	120	0.5+	0.5+
1993 03 20	809	0.4-	0.3-	1998 09 25	704	1.7+	0.3-	2000 03 17	120	0.3-	0.5+
1993 03 20	400	(4.8+	9.5-)	1998 09 27	704	1.2-	0.4+	2000 03 17	120	0.2+	0.7+
1993 03 20	400	0.9+	1.8-	1998 09 27	704	0.1-	0.8+	2000 03 17	120	1.0-	1.0+
1993 03 21	675	0.7-	0.3-	1998 09 27	704	0.1+	1.0+	2000 03 18	120	0.3+	0.4+
1993 03 24	809	0.8-	0.9+	1998 09 27	704	0.4+	1.1+	2000 03 18	120	(3.3+	1.1+)
1993 03 25	400	1.1-	0.0	1998 09 27	704	1.4-	0.4+	2000 03 18	120	1.6+	0.4+
1993 03 25	400	1.7+	0.5-	2000 03 17	120	1.1-	0.4+	2000 03 18	120	1.9+	1.0+
1993 03 29	400	(2.9-	4.4+)	2000 03 17	120	0.0	0.4-	2000 03 18	120	(1.6+	2.9+)
1993 03 29	400	(2.8-	3.5-)	2000 03 17	120	0.7-	0.1+				

1993 FR₄ = 2000 CY₈₇ = 2000 DX₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	270.74046		(2000.0)			P			Q		
<i>n</i>	0.27352787	ω	114.37462			-0.04688719			+0.99857376		
<i>a</i>	2.3503633	Ω	152.90054			-0.93558492			-0.03494456		
<i>e</i>	0.2072080	<i>i</i>	3.21340			-0.34997493			-0.04036491		
<i>P</i>	3.60	<i>H</i>	14.8			<i>G</i>	0.15		<i>U</i>	4	
Residuals in seconds of arc											
1993 03 17	809	0.8-	0.8+	2000 02 04	704	0.1+	0.4-	2000 02 29	704	0.3+	0.1-
1993 03 18	809	0.4-	0.6-	2000 02 04	704	(2.2+	0.0)	2000 03 03	704	0.3+	0.1+
1993 03 23	809	0.4-	0.7-	2000 02 25	703	1.4-	0.3-	2000 03 03	704	0.1+	0.2-
1993 04 16	413	1.7+	0.2+	2000 02 25	703	0.1-	0.3+	2000 03 03	704	0.5+	0.1-
1998 11 24	704	0.8+	0.1+	2000 02 25	703	0.4-	0.0	2000 03 03	704	0.3+	0.1+
1998 11 24	704	0.6+	0.4-	2000 02 25	703	0.2-	0.3+	2000 03 03	704	0.3+	0.4-
1998 11 24	704	0.6-	0.9-	2000 02 29	704	0.3+	0.4+	2000 03 05	704	1.2-	0.2-
1998 11 24	704	0.7-	1.0+	2000 02 29	704	0.0	0.3+	2000 03 05	704	0.1-	0.8-
1998 11 24	704	(5.0-	0.8+)	2000 02 29	704	0.3+	0.1+	2000 03 05	704	0.1+	0.5+
2000 02 04	704	0.6+	0.8+	2000 02 29	704	0.4+	0.1+	2000 03 05	704	0.0	0.4-

1993 FS₄

Id. A. Gnädig (1989, 1995 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	47.35139		(2000.0)		P		Q				
n	0.17967614	ω	126.83937		-0.44836596		+0.89306497				
a	3.1103489	Ω	116.48151		-0.83283732		-0.40217807				
e	0.1367530	i	2.39832		-0.32457661		-0.20171208				
P	5.49	H	14.2	G	0.15	U	1				
Residuals in seconds of arc											
1989 09 24	413	0.1+	1.2+	1999 05 10	704	0.1-	1.0-	1999 05 18	704	0.2+	0.6-
1989 09 24	413	0.2-	1.0-	1999 05 10	704	(2.8+	1.6+)	1999 05 18	704	0.1-	1.2+
1993 03 17	809	0.4+	0.2-	1999 05 10	704	1.2-	0.6+	1999 06 06	703	0.2-	0.8+
1993 03 18	809	0.3-	0.1+	1999 05 10	704	1.3+	0.9-	1999 06 06	703	0.1-	0.1+
1993 03 23	809	0.3-	0.7+	1999 05 10	704	0.6+	1.0+	1999 06 06	703	0.8+	0.5+
1993 04 16	413	0.4+	0.1-	1999 05 18	704	0.0	0.6-	1999 06 06	703	0.2-	0.6-
1995 09 24	675	1.1-	1.0+	1999 05 18	704	0.6-	1.0-				
1995 09 24	675	1.0+	0.7-	1999 05 18	704	0.3-	0.6+				

1993 FO₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	140.48812		(2000.0)	P		Q	
<i>n</i>	0.17595173	ω	296.60649	-0.38592271	-0.92231100		
<i>a</i>	3.1540872	Ω	175.93234	+0.91472806	-0.38540223		
<i>e</i>	0.1857166	<i>i</i>	16.50434	+0.11973402	-0.02841735		
<i>P</i>	5.60	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1993 03 17	809	0.0	0.1+	1999 04 12	704	0.7-	1.6-
1993 03 18	809	0.3+	0.3+	1999 04 12	704	0.5-	0.6-
1993 03 23	809	0.3+	0.1+	1999 04 12	704	0.5+	0.9-
1993 03 23	691	0.1+	0.0	1999 04 12	704	0.4+	0.8+
1993 03 23	691	0.5+	0.4-	1999 04 12	704	(1.7- 2.3+)	1999 05 18 703 0.4- 1.6-
1993 03 23	691	0.0	0.4-	1999 04 16	703	(3.0- 0.4-)	1999 05 18 703 0.8+ 0.6-
1993 04 16	413	1.3-	0.3+	1999 04 16	703	0.3-	0.2+

1993 FR₁₀ = 2000 DQ₁₄

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	240.49130		(2000.0)	P		Q	
<i>n</i>	0.27224092	ω	255.52155	+0.29498895	+0.95394890		
<i>a</i>	2.3577646	Ω	31.79907	-0.83205268	+0.28446769		
<i>e</i>	0.1133897	<i>i</i>	5.92929	-0.46975511	+0.09518210		
<i>P</i>	3.62	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1993 03 17	809	1.0-	0.3-	1998 11 18	704	1.8-	0.3-
1993 03 18	809	0.7-	1.0-	1998 12 16	699	0.8-	0.7+
1993 03 23	809	0.9-	0.6-	1998 12 16	699	0.2-	1.1+
1993 03 23	691	0.9-	0.9-	1998 12 16	699	0.3-	0.3-
1993 03 23	691	0.7-	1.0-	2000 02 04	704	0.0	0.2-
1993 03 23	691	0.5-	1.1-	2000 02 04	704	0.2+	0.0
1993 04 16	413	1.2+	1.8-	2000 02 04	704	0.2-	1.0-
1998 10 19	699	0.6-	0.6-	2000 02 04	704	1.1-	0.3+
1998 10 19	699	0.2-	0.8+	2000 02 04	704	0.3+	0.7-
1998 10 19	699	0.4+	0.6-	2000 02 11	704	0.0	0.3+
1998 11 10	699	1.2+	0.8-	2000 02 11	704	0.0	0.5+
1998 11 10	704	0.9+	0.1-	2000 02 11	704	0.0	0.2+
1998 11 10	704	0.9+	1.5-	2000 02 11	704	0.1+	0.4-
1998 11 10	704	0.1+	0.3+	2000 02 11	704	0.1-	0.1+
1998 11 10	699	0.2+	0.1-	2000 02 25	703	0.2+	0.0
1998 11 10	704	(3.1- 0.8-)	2000 02 25	703	0.0	0.3-	2000 03 12 704 0.4+ 0.0
1998 11 10	699	1.6+	0.5-	2000 02 25	703	0.3+	0.9+
1998 11 18	704	0.2-	0.2-	2000 02 25	703	0.0	0.3+
1998 11 18	704	0.6+	1.1-	2000 02 29	704	0.4+	1.4+
1998 11 18	704	0.8-	0.3-	2000 02 29	704	0.3-	0.2+

1993 FO₁₄ = 2000 DS₉₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	326.88722		(2000.0)	P		Q	
<i>n</i>	0.27641284	ω	132.31301	-0.92360621	+0.37649833		
<i>a</i>	2.3339806	Ω	69.91943	-0.37041604	-0.82808674		
<i>e</i>	0.1645650	<i>i</i>	4.40365	-0.09870928	-0.41535691		
<i>P</i>	3.57	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1993 03 17	809	0.5-	1.2-	2000 02 06	703	0.0	0.7+
1993 03 18	809	0.1-	0.7-	2000 02 06	703	0.8-	0.3-
1993 03 23	809	0.0	0.1+	2000 02 29	704	0.0	1.0-
1993 04 16	413	0.3-	0.0	2000 02 29	704	0.7-	0.6-
1998 10 22	910	0.0	0.1-	2000 02 29	704	0.5-	0.3+
1998 10 23	910	0.2+	0.4-	2000 02 29	704	0.1-	0.2-
1998 10 23	910	0.2+	0.2-	2000 02 29	704	1.0-	0.6+
2000 02 01	703	0.5-	1.0-	2000 03 05	704	0.2-	0.4+
				2000 03 09	704	1.2+	0.2-
				2000 03 09	704	0.6+	0.0
				2000 03 09	704	0.7+	1.2+
				2000 03 09	704	0.5+	0.2+
				2000 03 11	699	0.3-	0.8-
				2000 03 11	699	1.1-	0.5+
				2000 03 11	699	0.0	0.5+
				2000 03 11	699	0.0	0.3+

2000 02 01	703	0.1+	0.0	2000 03 05	704	1.6+	0.0	2000 03 12	704	1.7+	0.1+
2000 02 01	703	0.0	0.2-	2000 03 05	704	0.4-	1.0+	2000 03 12	704	0.2-	0.3+
2000 02 01	703	0.1+	0.3-	2000 03 05	704	0.8-	0.8-	2000 03 12	704	0.2+	0.2-
2000 02 06	703	0.3+	0.8+	2000 03 05	704	0.1+	0.2+	2000 03 12	704	0.0	0.2-
2000 02 06	703	0.9-	0.1+	2000 03 09	704	1.1+	0.1+				

1993 FK₁₅ = 2000 EB₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	0.78852		(2000.0)	P		Q	
<i>n</i>	0.28517579	ω	74.61172	-0.98955440	+0.12033663		
<i>a</i>	2.2859196	Ω	112.24758	-0.14123456	-0.91962825		
<i>e</i>	0.0897251	<i>i</i>	4.91999	+0.02889431	-0.37390237		
<i>P</i>	3.46	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1993 03 17	809	0.4-	0.8+	2000 03 08	704	0.4+	0.9+
1993 03 18	809	0.1-	0.6-	2000 03 10	691	0.3-	0.6-
1993 03 23	809	1.0+	0.0	2000 03 10	691	0.3-	0.6-
1993 04 16	413	0.0	1.5+	2000 03 10	691	0.3-	0.7-
2000 03 08	704	0.6+	0.3-	2000 03 11	691	1.1-	0.9-
2000 03 08	704	0.3+	0.4-	2000 03 11	691	0.3-	0.4-
				2000 03 12	704	0.5+	0.2+
				2000 03 11	691	0.3-	0.6-
				2000 03 12	704	0.4-	0.3+
				2000 03 12	704	0.1+	0.2+
				2000 03 12	704	0.1-	0.2+
				2000 03 12	704	0.5+	0.2+

1993 FK₂₀

Id. A. Gnädig (1990, 1991, 1995 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	320.05246		(2000.0)	P		Q	
<i>n</i>	0.16963105	ω	118.82277	+0.63406195	+0.77119809		
<i>a</i>	3.2319588	Ω	191.08567	-0.77148375	+0.62588115		
<i>e</i>	0.1583988	<i>i</i>	17.16197	-0.05270927	+0.11630257		
<i>P</i>	5.81	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1990 10 26	675	0.1-	0.5-	1993 03 24	809	0.8+	1.1+
1990 10 26	675	(2.0+ 2.6+)	1993 04 17	413	0.8-	0.1-	1999 04 07 704 0.2- 0.5-
1990 12 10	675	1.1-	0.0	1995 09 24	675	0.7-	0.1+
1990 12 10	675	(2.1- 0.3+)	1995 09 24	675	0.8+	0.8+	1999 04 07 699 0.4+ 1.7-
1991 02 08	675	0.4+	0.0	1999 03 23	703	0.0	0.0
1991 02 08	675	0.8+	0.6-	1999 03 23	703	0.5-	0.3+
1993 02 24	413	0.9-	0.5+	1999 03 23	703	0.4+	0.1-
1993 02 24	413	1.0-	0.4+	1999 03 23	703	0.9+	0.5+
1993 03 19	809	1.0+	1.0+	1999 04 07	704	1.3-	0.3-
1993 03 20	809	1.2+	0.9+	1999 04 07	704	1.9-	0.2-
				1999 04 16	704	1.7+	0.5+

1993 FU₂₂ = 2000 DO₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	300.82272		(2000.0)	P		Q	
<i>n</i>	0.27511628	ω	276.29615	-0.50355311	+0.86381377		
<i>a</i>	2.3413079	Ω	323.45411	-0.78157977	-0.46341110		
<i>e</i>	0.1818398	<i>i</i>	1.55180	-0.36819469	-0.19767631		
<i>P</i>	3.58	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1993 03 21	809	0.8-	1.2-	2000 02 29	704	0.0	0.1-
1993 03 22	809	0.1-	0.5-	2000 02 29	704	0.0	0.2+
1993 03 26	809	(3.0- 1.0+)	2000 02 29	704	0.1-	0.0	2000 03 05 704 0.1- 0.1+
1993 03 27	809	0.8-	0.9-	2000 02 29	704	0.2+	0.2+
1993 04 16	413	(2.0+ 4.2+)	2000 03 03	704	0.1+	0.1-	2000 03 05 704 0.8+ 0.6-
1993 04 18	413	1.4+	1.8+	2000 03 03	704	0.2+	0.6+
2000 02 27	739	0.4-	0.2-	2000 03 03	704	0.5+	0.7+
2000 02 27	739	0.1+	1.2-	2000 03 03	704	0.4+	0.7+
2000 02 27	739	0.5+	0.1+	2000 03 03	704	0.6+	0.6+
2000 02 28	739	1.6-	0.9-	2000 03 04	704	0.2+	0.3+
2000 02 28	739	0.8+	0.1-	2000 03 04	704	0.4-	0.2+
2000 02 28	739	0.3-	0.3-	2000 03 04	704	0.1-	0.0
				2000 03 11	704	0.3-	0.2+
				2000 03 11	704	0.0	0.4+
				2000 03 11	704	0.1+	0.0
				2000 03 11	704	0.5-	0.2-

2000 MAR. 20

M.P.C. 39155

1993 FX₂₂ = 2000 DN₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27611946	ω	296.23690	-0.55913842	+0.82878815		
<i>a</i>	2.3356335	Ω	299.74993	-0.75142925	-0.51769946		
<i>e</i>	0.1782650	<i>i</i>	1.43759	-0.35031173	-0.21236165		
<i>P</i>	3.57	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 21	809	0.7-	0.1-	2000 02 29	704	0.2+	0.6+	2000 03 10	691	0.0	0.8-
1993 03 22	809	0.6+	0.2-	2000 02 29	704	0.0	0.5+	2000 03 10	691	0.2-	0.7-
1993 03 26	809	0.5-	0.5+	2000 02 29	704	0.5+	0.3-	2000 03 10	691	0.0	0.8-
1993 03 27	809	1.0+	0.2+	2000 02 29	704	0.5-	0.2+	2000 03 11	704	0.3-	0.3+
1993 04 16	413	0.3-	0.2-	2000 03 03	704	0.1-	0.1-	2000 03 11	704	0.3-	0.0
1993 04 18	413	(4.6+	3.8+)	2000 03 03	704	0.0	0.3+	2000 03 11	704	0.1-	0.2-
2000 02 27	849	(2.0-	0.8+)	2000 03 03	704	0.6+	0.3+	2000 03 11	704	0.1+	0.1+
2000 02 27	849	0.9+	0.5-	2000 03 03	704	0.3+	0.6+	2000 03 11	704	0.5-	0.3-
2000 02 27	849	0.2-	0.9-	2000 03 03	704	0.2+	0.7+	2000 03 11	699	0.0	0.0
2000 02 27	849	1.3+	1.4-	2000 03 08	704	0.8-	0.2+	2000 03 11	699	0.1+	0.1+
2000 02 28	849	(3.8+	1.4+)	2000 03 08	704	0.0	0.7+	2000 03 11	699	0.1+	0.0
2000 02 28	849	1.1-	0.3-	2000 03 08	704	0.8+	0.6-	2000 03 11	699	0.2-	0.2+
2000 02 28	849	1.0-	1.0+	2000 03 08	704	0.0	0.6-				
2000 02 28	849	0.6-	1.6+	2000 03 08	704	0.9+	0.3-				

1993 FZ₂₂ = 1997 QE₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29135062	ω	45.75273	+0.63295858	+0.77384213		
<i>a</i>	2.2535061	Ω	263.53020	-0.71675079	+0.57448186		
<i>e</i>	0.1879061	<i>i</i>	1.32988	-0.29262903	+0.26671886		
<i>P</i>	3.38	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 03 21	809	1.0-	0.5+	1997 08 09	910	0.3+	0.3-	1997 08 29	620	0.8-	0.1-
1993 03 22	809	0.3+	0.2-	1997 08 09	910	0.1-	0.3+	1997 09 03	620	0.0	0.8+
1993 03 26	809	0.1-	0.1-	1997 08 09	910	0.1+	0.2-	1997 09 03	620	0.4+	0.3+
1993 03 27	809	0.8+	0.0	1997 08 29	620	0.6+	0.2-	1997 09 04	620	0.3-	0.1+
1993 04 18	413	(7.5+	7.4+)	1997 08 29	620	0.2-	0.6-				

1993 FD₂₄ = 2000 CO₁₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26842831	ω	342.34400	-0.94727843	+0.32004632		
<i>a</i>	2.3800377	Ω	216.33310	-0.29076962	-0.87871605		
<i>e</i>	0.1477056	<i>i</i>	1.47925	-0.13459793	-0.35415881		
<i>P</i>	3.67	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1993 03 21	809	0.0	0.2-	2000 02 02	704	0.9-	0.6-	2000 02 05	704	0.4-	0.4+
1993 03 22	809	0.2+	0.5+	2000 02 02	704	0.0	0.5-	2000 02 05	704	0.0	0.2+
1993 03 26	809	0.2-	0.1-	2000 02 02	704	0.4+	0.2-	2000 02 05	704	0.5-	0.1-
1993 03 27	809	0.1+	0.1-	2000 02 02	704	0.9+	0.0	2000 02 05	704	0.0	0.1+
2000 01 30	703	0.2+	0.3-	2000 02 03	704	0.1-	0.2+	2000 02 06	704	0.2-	0.3-
2000 01 30	703	0.3+	1.0+	2000 02 03	704	0.6+	0.1-	2000 02 06	704	0.2-	0.6-
2000 01 30	703	0.6-	1.4+	2000 02 03	704	0.6+	0.3+	2000 02 06	704	0.1+	0.2-
2000 01 30	703	0.9-	0.7-	2000 02 03	704	0.6+	0.3+	2000 02 06	704	0.4-	0.9-
2000 02 02	704	0.1+	0.2-	2000 02 03	704	1.0+	0.3+	2000 02 06	704	0.4-	0.6+

1993 FQ₂₆ = 2000 ED₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28082482	ω	297.07177	-0.36374213	+0.93113548		
<i>a</i>	2.3094703	Ω	311.57320	-0.84182925	-0.34056809		
<i>e</i>	0.1609680	<i>i</i>	1.99520	-0.39876707	-0.13038442		
<i>P</i>	3.51	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 21	809	0.0	0.5-	2000 03 09	704	0.2+	0.0	2000 03 10	704	0.6-	0.5-
1993 03 22	809	0.4+	0.5-	2000 03 09	704	0.0	0.1-	2000 03 11	704	0.2-	0.1+
1993 03 26	809	0.9-	0.0	2000 03 09	704	0.2+	0.4+	2000 03 11	704	0.2+	0.4+
1993 04 18	413	0.2+	0.4+	2000 03 09	704	0.7+	0.7+	2000 03 11	704	0.0	0.2+
2000 03 03	703	1.1-	0.5+	2000 03 10	704	0.1+	0.0	2000 03 11	704	0.2+	0.0
2000 03 03	703	0.3+	0.2+	2000 03 10	704	0.2+	0.5-	2000 03 11	704	0.2-	0.4+
2000 03 03	703	0.3+	0.5-	2000 03 10	704	0.1-	0.6-				
2000 03 03	703	0.2+	0.1-	2000 03 10	704	0.1-	0.1-				

1993 FM₃₂ = 2000 DR₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26393295	ω	346.97624	+0.50385873	+0.86089360		
<i>a</i>	2.4069864	Ω	313.22810	-0.78356540	+0.42112210		
<i>e</i>	0.1657296	<i>i</i>	5.56270	-0.36352667	+0.28551426		
<i>P</i>	3.73	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 03 21	809	1.6-	0.9+	2000 02 04	704	0.8+	0.5-	2000 03 04	704	0.2+	0.4-
1993 03 22	809	1.6+	0.3-	2000 02 04	704	0.5+	0.2+	2000 03 04	704	1.5-	0.6-
1993 03 26	809	1.1+	0.3+	2000 02 04	704	0.1+	0.0	2000 03 04	704	0.7-	0.2+
1993 04 17	413	0.7-	0.1+	2000 02 04	704	0.4+	1.7+	2000 03 04	704	0.5-	0.5-
1998 11 14	704	0.1-	1.3+	2000 02 29	704	0.1+	0.0	2000 03 04	704	1.1+	0.8-
1998 11 14	704	0.3-	0.2-	2000 02 29	704	0.2+	0.1+	2000 03 05	704	0.3+	0.8-
1998 11 14	704	0.4+	0.9-	2000 02 29	704	0.1-	0.4+	2000 03 05	704	1.1-	0.0
1998 11 14	704	0.1-	0.3+	2000 02 29	704	0.7-	0.1-	2000 03 05	704	0.6+	0.6-
1998 11 14	704	(4.4-	1.4+)	2000 02 29	704	0.3-	0.6+	2000 03 05	704	0.2+	0.3+

1993 FE₃₃ = 2000 EL₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27642911	ω	111.21380	-0.47356488	+0.88009771		
<i>a</i>	2.3338890	Ω	130.47381	-0.82380286	-0.42890272		
<i>e</i>	0.1769276	<i>i</i>	2.57092	-0.31158490	-0.20364300		
<i>P</i>	3.57	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 19	809	0.4+	0.5-	2000 03 04	704	0.0	0.1+	2000 03 11	699	0.4-	0.4-
1993 03 20	809	0.5-	0.4+	2000 03 04	704	0.1+	1.4+	2000 03 11	704	0.3+	1.0-
1993 03 24	809	0.3-	0.1+	2000 03 04	704	0.9-	0.4+	2000 03 11	699	0.5-	0.3-
1993 04 18	413	0.5+	0.3+	2000 03 04	704	0.1+	0.7-	2000 03 11	704	0.5-	0.5-
2000 03 03	704	0.3+	0.1-	2000 03 04	704	0.3+	1.0+	2000 03 11	704	0.5+	1.1-
2000 03 03	704	0.2+	0.4+	2000 03 04	704	0.5-	0.2+	2000 03 11	699	0.4-	0.5+
2000 03 03	704	0.1+	0.6+	2000 03 04	704	0.7+	0.6+	2000 03 11	704	0.9-	1.3-
2000 03 03	704	0.1+	0.1-	2000 03 04	704	0.4+	0.0	2000 03 11	699	0.3-	0.3+
2000 03 03	704	0.3+	0.5+	2000 03 11	704	1.0+	0.6-				

1993 FR₄₅ = 1999 RB₁₄₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	330.98988	(2000.0)	P		Q	
<i>n</i>	0.23881503	ω	254.43927	+0.25399325	-0.96719452	
<i>a</i>	2.5729318	Ω	180.88860	+0.96220315	+0.25317118	
<i>e</i>	0.2133868	<i>i</i>	17.68209	+0.09824732	+0.02095500	
<i>P</i>	4.13	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1993 03 19	809	1.2-	1.3+	1999 09 09	704	0.0	1.1-	1999 09 14	704	0.6+	0.2+
1993 03 20	809	1.1+	1.0-	1999 09 09	704	0.1-	0.4-	1999 09 14	704	0.0	0.9+
1993 03 24	809	0.1+	0.4-	1999 09 09	704	0.2-	0.1+	1999 10 02	703	0.1+	0.3-
1999 09 05	703	0.8-	0.0	1999 09 09	704	0.9+	1.0-	1999 10 02	703	0.1+	0.5+
1999 09 05	703	0.5-	0.8+	1999 09 14	704	0.0	0.0	1999 10 02	703	1.2-	0.1-
1999 09 05	703	0.6+	0.0	1999 09 14	704	0.5+	0.4+	1999 10 02	703	0.5+	0.0
1999 09 05	703	0.0	0.7+	1999 09 14	704	0.5-	0.6-				

1993 FQ₄₈ = 2000 ES₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	284.84180	(2000.0)	P		Q	
<i>n</i>	0.28416941	ω	272.88212	+0.10323828	+0.99464831	
<i>a</i>	2.2913134	Ω	3.05254	-0.87948840	+0.09319706	
<i>e</i>	0.1552667	<i>i</i>	4.38785	-0.46458801	+0.04459875	
<i>P</i>	3.47	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1993 03 19	809	0.3-	0.2-	1993 04 18	691	0.2+	0.1-	2000 03 10	704	0.7+	0.1+
1993 03 20	809	0.6-	0.5+	2000 03 09	704	0.8-	0.5+	2000 03 10	704	0.0	0.4+
1993 03 24	809	1.0+	0.3-	2000 03 09	704	0.1+	0.9+	2000 03 10	704	0.2-	0.5-
1993 04 17	413	0.7-	0.7+	2000 03 09	704	0.2+	0.3+	2000 03 10	704	0.4-	1.2-
1993 04 18	691	0.2+	0.1-	2000 03 09	704	0.3+	0.2-	2000 03 10	704	0.1-	0.3-
1993 04 18	691	0.2+	0.4-	2000 03 09	704	0.2+	0.0				

1993 FF₅₀ = 2000 EZ₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	261.65355	(2000.0)	P		Q	
<i>n</i>	0.28115045	ω	319.72935	+0.46948812	+0.88284263	
<i>a</i>	2.3076868	Ω	338.26211	-0.80076539	+0.41953021	
<i>e</i>	0.2117520	<i>i</i>	2.01625	-0.37196194	+0.21114757	
<i>P</i>	3.51	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 6	

Residuals in seconds of arc

1993 03 19	809	0.5-	0.3-	2000 03 10	704	0.7+	0.1-	2000 03 11	704	0.1-	0.2-
1993 03 20	809	0.1-	0.1-	2000 03 10	704	0.0	0.5+	2000 03 11	704	0.1+	0.0
1993 03 24	809	0.5+	0.0	2000 03 10	704	0.6-	0.4-	2000 03 11	704	0.4+	0.6+
1993 04 17	413	0.0	0.1+	2000 03 10	704	0.4-	0.2+	2000 03 11	704	0.3+	0.4-
2000 03 10	704	0.2-	0.2+	2000 03 11	704	0.1+	0.0				

1993 FQ₈₀ = 1999 VL₁₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	66.09952	(2000.0)	P		Q	
<i>n</i>	0.22334870	ω	284.39301	+0.95319944	+0.27546507	
<i>a</i>	2.6903809	Ω	59.75109	-0.19040815	+0.86710791	
<i>e</i>	0.2622274	<i>i</i>	8.29446	-0.23485223	+0.41502152	
<i>P</i>	4.41	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 6	

Residuals in seconds of arc

1993 03 17	809	(4.5-	0.8-)	1993 03 19	691	0.1+	0.3+	1999 11 09	691	0.2+	0.1-
1993 03 18	809	0.9-	0.2+	1993 03 23	809	(0.6+	2.6+)	1999 11 12	691	0.3+	0.2+
1993 03 19	691	0.3+	0.1+	1999 11 09	691	0.2-	0.0	1999 11 12	691	0.0	0.1-
1993 03 19	691	0.5+	0.5-	1999 11 09	691	0.2-	0.0	1999 11 12	691	0.1-	0.1-

1993 FK₈₂ = 1998 HH₈₄ = 1999 RX₁₅₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	56.79633	(2000.0)	P		Q	
<i>n</i>	0.20996255	ω	124.29295	+0.71206821	+0.70145088	
<i>a</i>	2.8035490	Ω	191.27132	-0.68442826	+0.68382042	
<i>e</i>	0.1426378	<i>i</i>	8.95443	-0.15657848	+0.20088876	
<i>P</i>	4.69	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1993 03 19	809	0.3+	0.1-	1998 04 21	704	(0.8-	2.9-)	1999 09 07	704	0.2+	0.3-
1993 03 20	809	(1.8+	2.7+)	1998 04 22	704	1.5-	0.9+	1999 09 09	704	0.1-	0.1+
1993 03 24	809	(0.2+	2.1+)	1998 04 22	704	0.0	0.7+	1999 09 09	704	0.4+	0.3+
1993 03 26	691	0.7+	0.3+	1998 04 22	704	1.3+	0.3-	1999 09 09	704	0.0	0.1+
1993 03 26	691	0.3-	0.0	1999 09 05	703	0.7+	0.3+	1999 09 09	704	0.4-	0.8+
1993 03 26	691	0.1+	0.3+	1999 09 05	703	0.1-	0.4+	1999 09 09	704	0.1-	0.0
1993 03 28	691	(0.3-	3.3-)	1999 09 05	703	0.3+	0.9+	1999 09 14	704	0.1+	0.7+
1993 03 28	691	(1.0+	3.9-)	1999 09 05	703	1.7-	0.2+	1999 09 14	704	0.2+	1.0-
1993 03 28	691	1.0-	1.1-	1999 09 07	704	0.2-	0.9-	1999 09 14	704	0.0	0.9-
1998 04 21	704	1.3+	0.9-	1999 09 07	704	0.2-	0.3-	1999 09 14	704	0.1+	0.1+
1998 04 21	704	(0.6-	2.5+)	1999 09 07	704	0.0	0.3-	1999 09 14	704	0.6+	0.8-
1998 04 21	704	1.1-	0.1-	1999 09 07	704	0.3+	0.3+				

1993 HE₁ = 2000 EZ₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	337.08794	(2000.0)	P		Q	
<i>n</i>	0.28374535	ω	203.21860	-0.61459197	+0.78632367	
<i>a</i>	2.2935958	Ω	28.97691	-0.70181966	-0.50856493	
<i>e</i>	0.2215560	<i>i</i>	7.47470	-0.36017479	-0.35079454	
<i>P</i>	3.47	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1993 03 24	675	0.2+	0.8+	2000 03 01	703	0.2-	0.1-	2000 03 04	703	0.2+	0.6+
1993 03 24	675	1.0-	1.0-	2000 03 01	703	0.6-	0.8+	2000 03 10	704	0.1+	0.0
1993 04 16	400	0.2+	0.3+	2000 03 01	703	0.0	0.1+	2000 03 10	704	0.3-	0.1+
1993 04 16	400	1.8+	0.9-	2000 03 01	703	0.2+	0.2-	2000 03 10	704	0.0	0.3+
1993 04 20	400	0.5-	0.7-	2000 03 03	703	0.8+	0.4+	2000 03 10	704	0.0	0.8+
1993 04 20	400	1.1-	1.1-	2000 03 03	703	0.1+	0.1-	2000 03 14	704	0.2+	0.3+
1993 04 29	400	(3.6-	2.9-)	2000 03 03	703	0.2+	0.0	2000 03 14	704	0.1+	0.0
1993 04 29	400	(4.0+	1.2-)	2000 03 03	703	0.1-	0.1-	2000 03 14	704	0.2+	0.2+
1993 05 13	361	0.8+	1.3+	2000 03 04	703	0.2+	0.6-	2000 03 14	704	0.5-	0.2-
1993 05 14	361	0.4-	0.7+	2000 03 04	703	0.0	0.3-	2000 03 14	704	0.6+	0.4-
1993 05 14	361	0.8-	0.6-	2000 03 04	703	0.2-	0.2+				

1993 HT₂ = 2000 CO₄₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	43.28748	(2000.0)	P		Q	
<i>n</i>	0.26590190	ω	287.03457	+0.06817312	-0.99689215	
<i>a</i>	2.3950895	Ω	158.93694	+0.95203811	+0.05317318	
<i>e</i>	0.1624581	<i>i</i>	6.30632	+0.29828824	+0.05812616	
<i>P</i>	3.71	<i>H</i>	16.4	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1993 04 19	691	0.5-	0.5+	1993 04 22	691	0.0	0.2-	2000 02 06	704	0.3-	0.6-
1993 04 19	691	0.4-	0.3-	2000 02 02	704	0.8-	0.3-	2000 02 06	704	0.9+	0.6+
1993 04 19	691	0.1-	0.7-	2000 02 02	704	0.0	0.0	2000 02 06	704	0.2-	0.2-
1993 04 21	691	0.2+	1.3+	2000 02 02	704	0.6+	0.5+	2000 02 08	704	0.6+	0.4+
1993 04 21	691	0.1-	0.1+	2000 02 02	704	1.2+	0.4-	2000 02 08	704	1.1+	0.6+
1993 04 21	691	0.2+	0.4+	2000 02 02	704	0.4-	0.3-	2000 02 08	704	1.1-	0.5-
1993 04 22	691	0.1+	0.5-	2000 02 06	704	1.0-	0.5+	2000 02 08	704	0.0	1.1-
1993 04 22	691	0.7+	0.5-	2000 02 06	704	0.6-	1.0+				

2000 MAR. 20

M.P.C. 39157

1993 OK₇ = 1981 UD₃ = 2000 DE₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	144.84261		(2000.0)	P		Q	
<i>n</i>	0.23186441	ω	33.27158	+0.99582541		−0.09039227	
<i>a</i>	2.6240976	Ω	331.90637	+0.07676094		+0.90453123	
<i>e</i>	0.1114265	<i>i</i>	1.54400	+0.04939150		+0.41671633	
<i>P</i>	4.25	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 10 30	381	0.6+	0.8−	1999 01 19	910	1.0−	0.3−	2000 03 03	704	0.0	0.0
1981 10 30	381	0.0	1.2−	1999 01 19	910	0.6−	0.1−	2000 03 03	704	0.4+	0.4+
1993 07 13	809	1.8+	0.2−	2000 02 05	695	0.2−	0.0	2000 03 03	704	0.3+	0.1+
1993 07 13	809	0.3+	0.1−	2000 02 05	695	0.1−	0.0	2000 03 03	704	0.1+	0.4+
1993 07 13	809	0.0	0.2+	2000 02 11	704	0.4+	0.9−	2000 03 11	704	0.1+	0.9−
1993 07 20	809	0.2−	0.2−	2000 02 11	704	1.1+	0.6−	2000 03 11	704	0.1+	1.4−
1993 07 20	809	0.2−	0.6−	2000 02 11	704	0.1+	0.1+	2000 03 11	704	1.0−	0.7−
1993 07 20	809	1.2−	0.5−	2000 02 25	703	0.4−	0.8+	2000 03 11	704	0.4−	0.5−
1993 07 24	809	0.2−	0.4−	2000 02 25	703	0.7−	0.3+	2000 03 11	699	0.5−	0.3+
1998 11 10	699	0.6+	0.3−	2000 02 25	703	0.4+	0.5−	2000 03 11	699	0.6+	1.3−
1998 11 10	699	0.2+	0.9−	2000 02 25	703	0.5−	0.7+	2000 03 11	704	0.3−	0.4−
1998 11 10	699	0.0	0.8+	2000 02 29	704	0.5+	0.4+	2000 03 11	699	0.1+	0.1−
1998 11 11	704	0.2+	0.1+	2000 02 29	704	0.0	0.2+	2000 03 11	699	0.5+	0.3+
1998 11 11	704	0.1−	0.4−	2000 02 29	704	0.8−	0.2+	2000 03 11	699	0.2−	0.4+
1998 11 11	704	0.4+	0.2+	2000 02 29	704	0.2−	0.2+	2000 03 11	699	0.8+	0.3+
1998 11 11	704	0.1+	1.5+	2000 02 29	704	0.3−	0.0	2000 03 11	699	0.5−	0.1+
1999 01 19	910	0.8−	0.2−	2000 03 03	704	0.3+	0.1−	2000 03 11	699	0.1−	0.0

1993 OJ₈ = 2000 EV₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	289.09140		(2000.0)	P		Q	
<i>n</i>	0.26043065	ω	36.63071	−0.06258961		+0.99787254	
<i>a</i>	2.4285180	Ω	229.78829	−0.92126048		−0.06479686	
<i>e</i>	0.1678755	<i>i</i>	1.36911	−0.38387714		−0.00719414	
<i>P</i>	3.78	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 06 21	691	0.2−	0.1+	1993 07 23	809	(1.4−	2.1−)	2000 03 08	704	0.0	0.2−
1993 06 21	691	0.0	0.2+	1993 07 23	809	(1.3−	2.5−)	2000 03 08	704	0.3+	0.1−
1993 06 21	691	0.2+	0.6+	1993 07 24	809	0.3+	0.5+	2000 03 10	704	0.2−	0.3−
1993 07 12	809	0.4−	0.8−	1993 07 26	809	0.5+	1.1+	2000 03 10	704	0.2−	0.1−
1993 07 12	809	0.5−	0.7−	1993 07 26	809	0.3−	0.4+	2000 03 10	704	0.1−	0.0
1993 07 12	809	1.7−	1.5−	1993 07 26	809	0.5−	0.7+	2000 03 10	704	0.1−	0.3−
1993 07 19	809	0.9+	0.5−	1998 12 15	704	0.5+	0.3+	2000 03 10	704	0.4−	0.0
1993 07 19	809	0.9+	0.7−	1998 12 15	704	1.0−	0.7+	2000 03 11	704	0.2−	0.0
1993 07 19	809	1.0+	0.1−	1998 12 15	704	0.6+	1.8−	2000 03 11	704	0.0	0.0
1993 07 20	809	(2.0+	2.7+)	1998 12 15	704	(5.5−	0.4−)	2000 03 11	704	0.2−	0.3+
1993 07 20	809	(1.6+	2.4+)	2000 03 08	704	0.1−	0.3−	2000 03 11	704	0.2+	0.0
1993 07 20	809	(1.6+	2.5+)	2000 03 08	704	0.1+	0.0	2000 03 11	704	0.7+	0.8+
1993 07 23	809	(0.9−	2.5−)	2000 03 08	704	0.0	0.0				

1993 PY₃ = 2000 CY₃₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	224.45982		(2000.0)	P		Q	
<i>n</i>	0.23841677	ω	142.45102	+0.51148628		+0.85481755	
<i>a</i>	2.5757963	Ω	157.89298	−0.83398381		+0.51838858	
<i>e</i>	0.1626716	<i>i</i>	13.45570	−0.20700915		+0.02366935	
<i>P</i>	4.13	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 08 14	010	0.2−	0.3−	2000 02 02	703	0.3−	0.1+	2000 02 29	704	0.2−	0.2+
1993 08 14	010	0.7−	1.1−	2000 02 02	703	0.1−	0.5+	2000 02 29	704	0.2−	0.1+
1993 08 14	010	0.2+	1.3−	2000 02 02	703	0.1+	0.2−	2000 02 29	704	0.0	0.2+
1993 08 15	010	0.2+	0.5−	2000 02 02	704	0.2+	0.3−	2000 02 29	704	0.5−	0.4+
1993 08 18	010	1.0+	0.7+	2000 02 02	704	0.3+	0.3+	2000 03 03	704	0.1−	0.0

1993 08 18	010	0.3+	0.2+	2000 02 02	704	0.3+	0.7−	2000 03 03	704	0.6+	0.4−
1993 08 18	010	0.5−	0.3−	2000 02 05	704	0.4+	0.0	2000 03 03	704	0.3+	0.2−
1996 03 26	566	0.2−	0.2−	2000 02 05	704	0.2+	0.9−	2000 03 03	704	0.5+	0.4−
1996 03 26	566	0.1+	0.6−	2000 02 05	704	0.0	0.6−	2000 03 03	704	0.3+	0.6−
1996 03 26	566	0.1−	0.1−	2000 02 06	704	0.2+	0.2−	2000 03 04	704	0.0	0.1−
1998 11 19	699	0.7+	1.4+	2000 02 06	704	0.1−	0.1+	2000 03 04	704	0.3+	0.4−
1998 11 19	699	0.8−	0.4+	2000 02 06	704	0.2+	0.3+	2000 03 04	704	0.3+	0.1+
1998 11 19	699	0.4+	0.3−	2000 02 06	704	0.2+	0.3+	2000 03 04	704	0.1+	0.2+
1998 12 17	699	0.3+	0.3−	2000 02 06	704	0.0	0.3+	2000 03 04	704	0.5+	0.4+
1998 12 17	699	0.0	0.3−	2000 02 12	704	0.2−	0.1+	2000 03 05	704	0.5+	0.1−
1998 12 17	699	0.1−	0.1+	2000 02 12	704	0.3−	0.5−	2000 03 05	704	0.2+	0.1+
1998 12 19	704	1.8+	0.8+	2000 02 12	704	0.1−	0.1+	2000 03 05	704	0.3+	0.1+
1998 12 19	704	1.5−	1.0−	2000 02 12	704	0.7−	0.5+	2000 03 05	704	0.3+	0.2−
1998 12 19	704	0.6+	1.7−	2000 02 12	704	0.3−	0.3+	2000 03 05	704	0.2+	0.4−
1998 12 19	704	0.5−	0.1+	2000 02 13	704	0.4−	0.5−	2000 03 06	704	0.2−	0.2−
1998 12 19	704	0.8−	0.1−	2000 02 13	704	0.5−	0.1+	2000 03 06	704	0.2+	0.3−
1999 12 05	703	0.2+	0.4−	2000 02 13	704	0.1−	0.2−	2000 03 06	704	0.3−	0.0
1999 12 05	703	1.3+	0.4+	2000 02 13	704	0.8+	0.5+	2000 03 06	704	1.0−	0.7+
1999 12 05	703	0.2−	0.5+	2000 02 13	704	0.3+	0.4+	2000 03 11	704	0.2−	0.1+
1999 12 05	703	0.4+	0.2−	2000 02 25	703	0.4−	0.4+	2000 03 11	704	0.0	0.3−
2000 01 08	704	0.8−	1.0−	2000 02 25	703	0.1+	0.0	2000 03 11	704	0.1−	0.0
2000 01 08	704	1.1−	0.5−	2000 02 25	703	0.1−	0.0	2000 03 11	704	0.1+	0.2−
2000 01 08	704	1.3−	0.7+	2000 02 25	703	0.3+	0.1−	2000 03 11	704	0.0	0.2−
2000 02 02	703	0.3−	0.3−	2000 02 29	704	0.3−	0.0				

1993 QU = 2000 DJ₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	183.08833		(2000.0)	P		Q	
<i>n</i>	0.22960894	ω	355.19101	+0.94952725		+0.30416617	
<i>a</i>	2.6412541	Ω	346.33271	−0.27589216		+0.69345354	
<i>e</i>	0.2669090	<i>i</i>	18.93868	−0.14926993		+0.65315016	
<i>P</i>	4.29	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 08 14	675	0.0	0.6−	1993 09 15	675	0.3+	0.6+	2000 03 03	704	0.1−	0.0
1993 08 14	675	0.3−	0.1−	1993 09 18	010	0.1−	0.1+	2000 03 03	704	0.8−	0.4+
1993 08 19	675	0.7+	0.5−	1993 09 18	010	0.0	0.5−	2000 03 03	704	1.1−	0.0
1993 08 19	675	0.4+	0.5+	1993 09 18	010	0.7+	0.7+	2000 03 03	704	0.1−	0.1−
1993 08 21	675	0.7−	0.3+	2000 02 29	704	0.4+	0.1+	2000 03 11	704	0.6+	0.2+
1993 08 21	675	0.9+	1.3+	2000 02 29	704	0.4+	0.6+	2000 03 11	704	0.3−	0.1+
1993 09 12	675	1.6−	0.3−	2000 02 29	704	0.6−	0.1+	2000 03 11	704	0.7+	0.2+
1993 09 12	675	1.2−	0.7−	2000 02 29	704	1.1+	0.3−	2000 03 11	704	1.8+	0.6+
1993 09 15	675	0.4−	0.4+	2000 03 03	704	0.3−	0.2+				

1993 RL₇ = 1999 VG₅₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	135.20222		(2000.0)	P		Q	
<i>n</i>	0.17739155	ω	109.10839	−0.02080731		+0.99976354	
<i>a</i>	3.1369970	Ω	159.69623	−0.92399123		−0.01681596	
<i>e</i>	0.1596437	<i>i</i>	1.04329	−0.38184718		−0.01378716	
<i>P</i>	5.56	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 09 15	809	0.6−	0.5+	1993 09 22	675	0.2−	0.6−	1999 11 09	704	0.1+	0.5−
1993 09 15	809	0.6+	0.8+	1997 04 01	809	0.5−	0.7+	1999 11 09	704	0.2−	0.9−
1993 09 15	809	(2.9+	0.5+)	1997 04 01	809	0.5+	0.1−	1999 11 09	704	0.2−	0.5−
1993 09 17	809	1.2−	0.4−	1997 04 01	809	0.2+	0.2−	1999 11 12	704	0.2−	1.3−
1993 09 17	809	(2.8−	0.2+)	1999 11 04	704	0.1−	0.7+	1999 11 12	704	0.5−	0.0
1993 09 17	809	(2.9−	1.2−)	1999 11 04	704	0.2−	0.0	1999 11 12	704	0.6+	0.5+
1993 09 18	809	1.5+	0.7+	1999 11 04	704	0.8+	0.4+	1999 11 12	704	0.3−	0.1+
1993 09 18	809	0.1+	0.1+	1999 11 04	704	0.4+	1.3+				
1993 09 18	809	0.4−	1.0−	1999 11 09	704	0.5−	0.4+				

1993 SA₁₄ = 2000 DO₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.36801495	ω	63.36682	+0.45146768	−0.89228658		
<i>a</i>	1.9285271	Ω	359.78282	+0.65289945	+0.33131126		
<i>e</i>	0.1044947	<i>i</i>	19.49387	+0.60819343	+0.30668798		
<i>P</i>	2.68	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 16	809	(1.0+ 3.5−)	2000 01 07	704	0.1−	0.1−	2000 03 02	703	0.3−	0.1+
1993 09 16	809	(0.8+ 3.1−)	2000 01 07	704	0.5−	0.6−	2000 03 02	703	0.0	0.4+
1993 09 16	809	(1.3+ 3.5−)	2000 01 07	704	0.2−	0.5−	2000 03 02	703	0.1−	0.1+
1993 09 17	809	(1.2+ 2.5+)	2000 01 07	704	0.1+	0.0	2000 03 02	703	0.2−	0.0
1993 09 17	809	(1.2+ 2.8+)	2000 02 04	704	0.0	0.2−	2000 03 11	699	0.4−	0.1+
1993 09 17	809	(0.2− 2.3+)	2000 02 04	704	0.1+	0.7+	2000 03 11	699	0.3−	0.3+
1993 09 18	809	0.8−	2000 02 04	704	0.1+	0.9+	2000 03 11	699	0.4−	0.1+
1993 09 18	809	(1.5− 2.8−)	2000 02 04	704	0.0	0.3+	2000 03 11	699	0.2−	0.1−
1993 09 18	809	(1.3− 3.7−)	2000 02 29	704	0.9+	0.6−	2000 03 12	704	0.3−	0.1−
1993 09 18	675	0.5+ 0.3−	2000 02 29	704	0.3+	0.2−	2000 03 12	704	0.4−	0.1−
1993 09 22	675	0.5+ 0.4−	2000 02 29	704	1.3+ 0.0		2000 03 12	704	0.4−	0.5−
1993 09 22	675	0.7− 0.2+	2000 02 29	704	1.1+ 0.6+		2000 03 12	704	0.4−	0.6−
1993 09 23	809	(1.0+ 2.4+)	2000 03 01	704	0.4−	0.0	2000 03 12	704	0.1−	0.8−
1993 09 23	809	0.7+ 0.8+	2000 03 01	704	0.2+	0.0				
1993 09 23	809	0.2+ 0.7+	2000 03 01	704	0.3−	0.0				

1993 TM₄ = 1999 VR₁₅₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.16705226	ω	292.71064	−0.93234642	−0.32422330		
<i>a</i>	3.2651350	Ω	228.77308	+0.35667101	−0.89731802		
<i>e</i>	0.0113601	<i>i</i>	12.28504	−0.05929536	−0.29949896		
<i>P</i>	5.90	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 10 08	691	0.5+ 0.1+	1999 10 29	703	1.3−	0.6+	1999 11 16	704	1.0+	0.0
1993 10 08	691	0.1−	1999 11 04	704	0.2−	0.6+	1999 11 16	704	0.1+	0.8−
1993 10 08	691	0.1+ 0.1−	1999 11 04	704	0.1−	0.2+	1999 11 16	704	0.4+	0.8−
1993 10 20	691	0.5+ 1.0−	1999 11 04	704	0.4−	0.2+	1999 11 16	704	0.9+	0.9+
1993 10 20	691	0.5+ 0.6−	1999 11 04	704	0.3−	0.1−	1999 12 04	703	0.7−	0.3−
1993 10 20	691	0.0	1999 11 04	704	0.3−	0.4+	1999 12 04	699	0.4+	0.1−
1993 11 06	691	0.5−	1999 11 14	704	0.3−	0.1+	1999 12 04	703	1.1−	0.3+
1993 11 06	691	0.8−	1999 11 14	704	0.1+	0.1+	1999 12 04	703	0.1+	0.6+
1993 11 06	691	0.3−	1999 11 14	704	0.4+	0.1−	1999 12 04	699	1.6−	0.3−
1998 08 27	704	0.6−	1999 11 14	704	0.5+	0.1+	1999 12 04	703	0.5−	0.8−
1998 08 27	704	0.5+ 1.6+	1999 11 15	704	0.2+	0.0	1999 12 04	699	0.3−	0.9+
1998 08 27	704	0.9−	1999 11 15	704	0.0	0.3+	1999 12 07	704	0.4+	0.9−
1998 08 27	704	1.0+ 1.3−	1999 11 15	704	0.2+	0.6−	1999 12 07	704	0.1−	0.1−
1999 10 29	703	0.4+ 0.3+	1999 11 15	704	0.2+	0.1+	1999 12 07	704	0.3−	1.1−
1999 10 29	703	0.7+ 0.1+	1999 11 15	704	0.1+	0.2−				
1999 10 29	703	0.2+ 0.2+	1999 11 16	704	0.9+	0.8+				

1993 TS₇ = 2000 EY₇₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21568466	ω	347.37854	+0.94788056	+0.31850541		
<i>a</i>	2.7537417	Ω	354.02711	−0.28452801	+0.83374719		
<i>e</i>	0.1181645	<i>i</i>	4.82960	−0.14340942	+0.45102099		
<i>P</i>	4.57	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 10 09	691	0.0	1993 10 16	691	0.0	0.4+	2000 03 12	691	0.9+	0.0
1993 10 09	691	0.0	1993 10 16	691	0.1+	0.4+	2000 03 12	691	0.6−	0.4−
1993 10 09	691	0.0	1993 10 16	691	0.0	0.2−	2000 03 12	691	0.5−	0.0
1993 10 12	691	0.3+ 0.1−	2000 03 10	691	0.2+	0.2−	2000 03 14	691	0.5−	0.3+

1993 10 12	691	0.1−	0.2−	2000 03 10	691	0.3+	0.2−	2000 03 14	691	0.3−	0.1+
1993 10 12	691	0.4−	0.0	2000 03 10	691	0.8+	0.5+	2000 03 14	691	0.3−	0.1−

1993 TB₁₆ = 1999 VU₈₈ = 1999 XM₁₀₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17182232	ω	290.33832	+0.81858147	+0.57385676		
<i>a</i>	3.2044216	Ω	34.65518	−0.50942349	+0.74523030		
<i>e</i>	0.1654056	<i>i</i>	2.49507	−0.26535275	+0.33958830		
<i>P</i>	5.74	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 10 09	809	0.5+ 0.6+	1999 11 04	704	0.3+	1.0−	1999 11 16	704	0.3+	0.1−
1993 10 09	809	0.8+ 1.5+	1999 11 09	704	0.6−	0.2+	1999 11 16	704	1.0−	0.9−
1993 10 09	809	0.1+ 0.1+	1999 11 09	704	0.2−	0.5+	1999 11 17	691	0.4+	0.1+
1993 10 11	809	0.1−	1999 11 09	704	0.6−	0.6+	1999 11 17	691	0.4+	0.1+
1993 10 11	809	0.9−	1999 11 09	704	0.9−	0.4+	1999 11 17	691	0.4+	0.2+
1993 10 11	809	1.4−	1999 11 14	704	0.1+	0.1−	1999 12 04	703	1.2−	1.0−
1993 10 20	809	0.5+ 0.5+	1999 11 14	704	0.3+	0.3+	1999 12 04	703	0.1−	0.5+
1993 10 20	809	0.6+ 0.4+	1999 11 14	704	0.0	0.0	1999 12 04	703	0.6−	1.6+
1993 10 20	809	0.3−	1999 11 14	704	1.5+	0.6−	1999 12 04	703	0.1−	0.2+
1999 11 04	704	1.0−	1999 11 14	704	0.4−	0.9−	1999 12 12	703	0.3+	0.7−
1999 11 04	704	0.8+ 0.6−	1999 11 16	704	1.1+	0.1−	1999 12 12	703	0.8+	1.9+
1999 11 04	704	0.8+ 0.5+	1999 11 16	704	0.1−	0.8−	1999 12 12	703	0.3+	0.4−
1999 11 04	704	0.5+ 0.8−	1999 11 16	704	0.1+	0.3−	1999 12 12	703	1.9−	0.1+

1993 TV₁₇ = 1999 XD₁₈₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17749750	ω	19.68474	+0.61592376	−0.78132626		
<i>a</i>	3.1357485	Ω	32.52949	+0.69534597	+0.47900213		
<i>e</i>	0.2196204	<i>i</i>	10.80773	+0.37031324	+0.40010778		
<i>P</i>	5.55	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 21	675	1.9−	0.7+	1993 10 20	809	1.5+	0.3+	1999 12 15	704	0.5+	0.2+
1993 09 21	675	(3.0− 1.4+)		1993 10 20	809	0.9+	0.5+	1999 12 15	704	1.3+	0.4−
1993 09 23	675	1.9−	0.1+	1993 10 20	809	0.8+	1.0+	1999 12 15	704	0.5−	0.5−
1993 10 09	809	0.3+ 0.1+		1999 12 12	704	0.0	0.3+	1999 12 15	704	0.1+	0.5−
1993 10 09	809	0.4+ 0.1−		1999 12 12	704	0.5−	0.5+	2000 01 02	704	1.0+	0.9+
1993 10 09	809	0.2−	0.8−	1999 12 12	704	0.5−	0.3+	2000 01 02	704	0.1−	0.6+
1993 10 11	809	1.1+ 1.0−		1999 12 12	704	0.6−	0.1+	2000 01 02	704	0.5−	0.2+
1993 10 11	809	0.1−	0.4−	1999 12 12	704	0.9−	0.8+	2000 01 02	704	0.8+	0.3−
1993 10 11	809	0.9−	0.5−	1999 12 15	704	1.2+	0.1−	2000 01 02	704	1.2−	1.9−

1993 TG₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17242522	ω	259.31712	+0.09130523	−0.99579317		
<i>a</i>	3.1969477	Ω	185.46182	+0.94236102	+0.08890084		
<i>e</i>	0.1524895	<i>i</i>	4.64118	+0.32189915	+0.02219466		
<i>P</i>	5.72	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 10 09	809	0.5+ 0.1+	1999 11 01	703	0.7+	0.1−	1999 11 15	704	0.4−	0.1+
1993 10 09	809	1.1+ 0.2+	1999 11 01	703	0.9+	0.2−	1999 11 15	704	0.1−	0.3−
1993 10 09	809	0.6+ 0.2+	1999 11 04	704	0.0	0.2−	1999 11 15	704	0.3−	0.9−
1993 10 11	809	0.3−	1999 11 04	704	0.7−	0.2+	1999 12 02	699	0.2+	0.1−
1993 10 11	809	1.0−	1999 11 04	704	0.1−	0.3+	1999 12 02	699	0.6+	0.7+
1993 10 11	809	0.8−	1999 11 04	704	0.7+	0.4−	1999 12 02	699	0.0	1.0−
1993 10 20	809	(3.1− 1.0−)	1999 11 04	704	0.6−	0.8+	1999 12 04	703	0.0	0.1+
1993 10 20	809	(3.2− 1.3−)	1999 11 12	699	0.8−	0.9+	1999 12 04	703	0.5−	0

2000 MAR. 20

M.P.C. 39159

1999 11 01 703 0.0 0.2- 1999 11 12 699 0.0 0.1- 1999 12 04 703 0.1+ 0.7-
1999 11 01 703 0.4+ 0.1- 1999 11 15 704 0.1+ 0.2-

1993 TO₁₉ = 1999 XF₁₅₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	69.76656	<i>ω</i>	300.20001	+0.95742813	+0.28455689		
<i>a</i>	3.1454187	<i>Ω</i>	43.31937	-0.23449702	+0.86478106		
<i>e</i>	0.3063489	<i>i</i>	4.05941	-0.16835240	+0.41374037		
<i>P</i>	5.58	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 10 09	809	(2.9+ 0.3+)	1993 10 20	809	0.7- 0.1+	1993 12 07	704	0.0 1.3+
1993 10 09	809	1.9+ 0.3+	1993 10 20	809	(2.1- 0.5+)	1993 12 07	704	0.1+ 1.1+
1993 10 09	809	1.4+ 0.4+	1999 11 14	704	0.3- 0.6-	1993 12 07	704	0.2- 1.0+
1993 10 11	809	0.0 0.0	1999 11 14	704	0.3+ 1.0-	1993 12 07	704	0.9+ 0.6+
1993 10 11	809	0.7- 0.4-	1999 11 14	704	0.2- 0.5-	1993 12 14	704	0.2- 0.7-
1993 10 11	809	1.2- 0.2-	1999 11 14	704	0.3- 0.2-	1993 12 14	704	0.3- 0.3-
1993 10 20	809	0.9- 0.1-	1999 11 14	704	0.6+ 0.1-	1993 12 14	704	0.5- 1.0-

1993 TH₂₈ = 2000 EO₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	145.85039	<i>ω</i>	198.61188	+0.90502907	-0.42488635		
<i>a</i>	2.7354980	<i>Ω</i>	186.63467	+0.40880479	+0.88176678		
<i>e</i>	0.1919028	<i>i</i>	9.89222	+0.11747777	+0.20483880		
<i>P</i>	4.52	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 10 09	809	0.7- 0.4-	1993 10 20	809	0.1- 0.8-	2000 03 10	704	1.5- 0.3-
1993 10 09	809	0.3- 0.4-	1993 10 20	809	0.1+ 0.1+	2000 03 11	704	0.3+ 0.4+
1993 10 09	809	1.1- 1.1-	1993 10 20	809	0.7- 0.1-	2000 03 11	704	0.6+ 0.3+
1993 10 11	809	1.0+ 0.8+	2000 03 10	704	0.3+ 0.7-	2000 03 11	704	0.3+ 1.1+
1993 10 11	809	1.2+ 1.1+	2000 03 10	704	0.2+ 0.1+			
1993 10 11	809	0.6+ 0.8+	2000 03 10	704	0.2- 0.9-			

1993 TF₃₀ = 1999 XY₁₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	76.72769	<i>ω</i>	315.60680	+0.96995391	+0.14710835		
<i>a</i>	3.1311294	<i>Ω</i>	37.25019	+0.00188726	+0.79190579		
<i>e</i>	0.1369280	<i>i</i>	18.67087	-0.24328142	+0.59265872		
<i>P</i>	5.54	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 10 09	809	0.6+ 0.5+	1993 10 21	809	0.3- 0.0	1999 12 12	704	1.0+ 0.5+
1993 10 09	809	0.4+ 0.7+	1993 10 21	809	0.5+ 0.0	1999 12 15	704	0.2- 0.4-
1993 10 09	809	0.3+ 0.9+	1993 10 21	809	0.3- 0.2+	1999 12 15	704	0.2- 0.3+
1993 10 11	809	0.0 0.9-	1999 12 12	704	0.5- 0.7-	1999 12 15	704	0.5+ 0.8+
1993 10 11	809	0.6- 0.5-	1999 12 12	704	0.1+ 0.1+			
1993 10 11	809	0.6- 0.8-	1999 12 12	704	0.7- 0.7-			

1993 TX₃₃ = 1998 RM₂₅ = 1999 XP₂₁₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	328.86450	<i>ω</i>	302.43147	-0.48525055	-0.87430067		
<i>a</i>	3.1734707	<i>Ω</i>	176.53726	+0.85220386	-0.47582646		
<i>e</i>	0.1248675	<i>i</i>	10.89138	+0.19565401	-0.09585150		
<i>P</i>	5.65	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 10 09	809	(2.1+ 3.1-)	1998 09 14	704	(3.0- 1.8+)	1999 12 05	704	0.3+ 0.2+
1993 10 09	809	(0.8+ 3.9-)	1998 09 18	704	0.0 1.3-	1999 12 05	704	0.2- 0.9+
1993 10 09	809	(0.7+ 2.5-)	1998 09 18	704	1.6- 0.6+	1999 12 05	704	0.2+ 0.3-
1993 10 11	809	(4.6+ 0.1+)	1998 09 18	704	1.4+ 1.0-	1999 12 05	704	0.6- 0.4+
1993 10 11	809	(3.7+ 0.1+)	1998 09 18	704	0.4- 0.4-	1999 12 05	704	0.2- 0.5+
1993 10 11	809	(4.0+ 0.7+)	1999 11 01	703	0.1- 0.1-	1999 12 14	704	0.9+ 0.1+
1993 10 21	809	0.6+ 0.5+	1999 11 01	703	1.1- 0.2-	1999 12 14	704	0.4- 0.4+
1993 10 21	809	0.6+ 0.2-	1999 11 01	703	0.0 0.2+	1999 12 14	704	0.0 0.6-
1993 10 21	809	1.1- 0.6-	1999 11 01	703	0.9- 0.2+	1999 12 14	704	0.4- 0.3+
1998 08 17	704	0.4- 1.6+	1999 11 05	704	0.0 0.2+	1999 12 14	704	0.4+ 1.3+
1998 08 17	704	1.3+ 1.0-	1999 11 05	704	0.6+ 0.1-	1999 12 15	704	0.5- 0.5-
1998 08 17	704	(2.7+ 1.5+)	1999 11 05	704	0.1+ 0.3-	1999 12 15	704	1.2- 0.6-
1998 08 17	704	0.2+ 0.1-	1999 11 05	704	0.1- 0.7+	1999 12 15	704	0.5+ 1.0-
1998 08 17	704	(4.5- 1.4-)	1999 11 05	704	1.2+ 0.1+	1999 12 15	704	0.4- 0.1-
1998 09 14	704	0.6+ 1.1+	1999 12 04	699	1.2+ 1.6-	1999 12 15	704	0.2- 0.3-
1998 09 14	704	(2.4+ 0.6+)	1999 12 04	699	0.3+ 0.1-			
1998 09 14	704	1.0- 0.5+	1999 12 04	699	0.3+ 0.7+			

1993 VT₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	231.99148	<i>ω</i>	294.97746	+0.82599676	-0.41161909		
<i>a</i>	2.4258769	<i>Ω</i>	91.39444	+0.54487693	+0.75802475		
<i>e</i>	0.2958189	<i>i</i>	22.65679	-0.14435540	+0.50593301		
<i>P</i>	3.78	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1953 01 10	675	0.8+ 0.7-	1991 02 09	675	0.3+ 0.8+	1994 03 20	413	0.4- 0.1+
1953 01 10	675	0.7- 0.1+	1993 11 07	413	0.4+ 0.4-	1994 03 20	413	0.2- 0.3+
1953 03 14	675	0.9- 0.5-	1993 11 07	413	0.3+ 0.4-	1994 03 20	413	0.2- 0.1-
1953 03 14	675	0.7+ 0.0	1993 11 11	413	1.4- 0.3+			
1991 02 09	675	0.1+ 0.0	1993 12 11	413	1.0+ 0.8+			

1993 VG₄ = 1998 UR₃₆ = 2000 AY₁₁₀

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	173.91083	<i>ω</i>	53.35704	+0.48227188	+0.86378401		
<i>a</i>	3.0164622	<i>Ω</i>	246.09372	-0.84604038	+0.41605656		
<i>e</i>	0.0914047	<i>i</i>	9.18410	-0.22722130	+0.28420789		
<i>P</i>	5.24	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 11 11	399	1.1- 1.6+	1998 10 29	704	0.5- 0.3-	2000 01 05	704	0.1+ 0.8+
1993 11 11	399	1.5- 1.7+	1998 10 29	704	0.3+ 0.7+	2000 01 05	704	0.8+ 1.1+
1993 11 16	399	1.3+ 0.7-	1998 10 29	704	1.0+ 0.6-	2000 01 07	704	0.6- 0.6-
1993 11 16	399	1.0+ 1.2-	1999 12 14	704	0.2+ 0.4-	2000 01 07	704	0.7- 0.0
1993 11 22	399	0.9+ 1.2+	1999 12 14	704	0.1- 0.3-	2000 01 07	704	0.5- 0.9-
1993 11 22	399	0.8- 0.6-	1999 12 14	704	0.2- 0.3-	2000 01 07	704	0.3- 0.7-
1998 10 28	704	0.4- 0.5+	1999 12 14	704	0.1+ 0.6-	2000 01 07	704	0.3- 0.3-
1998 10 28	704	0.2- 0.8-	1999 12 14	704	0.1- 0.6-	2000 02 02	704	1.7+ 1.4-
1998 10 28	704	0.2- 0.5-	2000 01 05	704	0.2- 0.4+	2000 02 02	704	0.8+ 1.1+
1998 10 28	704	0.1- 0.1-	2000 01 05	704	0.5- 0.3+	2000 02 02	704	0.2- 1.1+
1998 10 29	704	0.4+ 0.2-	2000 01 05	704	0.1- 0.6+			

1993 XW = 2000 DU₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	86.34963	<i>ω</i>	313.30178	+0.70190636	-0.59516379		
<i>a</i>	3.1495003	<i>Ω</i>	87.23355	+0.71226662	+0.58799083		
<i>e</i>	0.1011230	<i>i</i>	23.06319	-0.00192964	+0.54776531		
<i>P</i>	5.59	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 12 11	411	0.5+	1.1-	1999 02 04	704	(2.2-	0.3-)	2000 02 15	704	0.3+	0.0
1993 12 11	411	0.7+	0.6-	1999 02 04	704	1.1+	0.5-	2000 02 15	704	0.6+	0.3+
1993 12 12	411	0.4+	0.6-	1999 02 04	704	0.0	1.4+	2000 02 15	704	0.2+	0.8+
1993 12 12	411	0.4+	0.4+	1999 02 04	704	0.7-	0.9-	2000 02 26	704	0.6+	0.0
1993 12 12	411	1.5+	0.3+	1999 02 04	704	(5.0-	1.4-)	2000 02 26	704	0.2-	1.0-
1993 12 21	411	0.8-	0.7-	1999 02 04	699	0.1+	0.1+	2000 02 26	704	0.5-	0.8-
1993 12 21	411	1.4-	0.1-	1999 02 04	699	0.1+	0.9+	2000 02 28	704	0.6+	0.1-
1993 12 21	411	1.4-	0.7+	1999 02 04	699	0.5-	0.0	2000 02 28	704	0.6+	0.0
1993 12 23	411	0.1+	0.6-	1999 11 09	703	0.2+	0.2+	2000 02 28	704	0.1-	0.2+
1993 12 23	411	0.1+	0.8-	1999 11 09	703	0.5+	1.2+	2000 02 28	704	0.1-	0.1+
1993 12 23	411	0.1+	0.1+	1999 11 09	703	0.1-	0.2+	2000 02 28	704	0.1+	0.0
1994 01 02	411	0.5+	0.0	1999 11 09	703	0.4-	0.1-	2000 02 28	704	0.2-	0.2+
1994 01 02	411	0.7+	0.1-	1999 12 12	703	0.1+	1.2+	2000 02 28	704	0.0	0.7+
1994 01 02	411	0.2-	0.4-	1999 12 12	703	0.4-	0.3-	2000 02 28	704	0.6-	0.4+
1998 11 13	704	0.6+	0.3-	1999 12 12	703	0.7+	0.3+	2000 02 28	704	0.5-	0.2+
1998 11 13	704	0.1+	0.1-	1999 12 12	703	0.2+	0.2+	2000 02 28	704	0.7-	0.3+
1998 11 13	704	0.0	0.2+	2000 01 02	704	0.4-	0.1-	2000 02 29	704	0.1-	0.0
1998 11 13	704	0.7-	0.0	2000 01 02	704	0.3-	0.2-	2000 02 29	704	0.7+	0.1-
1998 11 13	704	1.2-	0.1-	2000 01 02	704	0.2-	0.3-	2000 02 29	704	0.0	0.1+
1998 11 21	703	0.2-	0.8+	2000 01 02	704	0.4-	0.3-	2000 02 29	704	0.4-	0.5+
1998 11 21	703	0.0	0.1+	2000 01 02	704	0.1+	0.2+				
1998 11 21	703	0.5+	0.5+	2000 02 15	704	0.3+	0.3-				

1994 AQ₅ = 2000 EB₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	320.55426		(2000.0)		P		Q
<i>n</i>	0.18402875	ω	203.55168	-0.77202313		+0.63558054	
<i>a</i>	3.0611100	Ω	15.91357	-0.58068316		-0.70262133	
<i>e</i>	0.1020532	<i>i</i>	0.87826	-0.25843249		-0.31993851	
<i>P</i>	5.36	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1994 01 05	691	1.0-	0.2+	2000 02 27	703	0.3-	0.0	2000 03 11	699	0.5-	0.6+
1994 01 05	691	0.2-	0.0	2000 02 27	703	0.2-	0.1-	2000 03 11	699	0.2-	0.4+
1994 01 05	691	0.1-	0.1-	2000 02 27	703	0.8-	1.9-	2000 03 11	704	0.9+	0.1+
1994 01 06	691	0.5+	0.3-	2000 03 05	120	(1.7+	2.5-)	2000 03 11	699	0.5-	0.4+
1994 01 06	691	0.6-	0.4-	2000 03 05	120	0.3+	0.8-	2000 03 11	704	0.5+	0.7-
1994 01 06	691	0.1+	0.3+	2000 03 05	120	(3.0+	0.4-)	2000 03 11	704	0.6+	1.2+
1994 01 17	691	0.8+	0.2+	2000 03 05	120	0.2+	1.6-	2000 03 11	704	0.5+	0.4+
1994 01 17	691	0.0	0.1+	2000 03 06	120	0.5-	0.2+	2000 03 11	704	1.2+	0.5+
1994 01 17	691	0.6+	0.2+	2000 03 06	120	(2.1-	0.1+)				
2000 02 27	703	1.1-	0.2-	2000 03 11	699	0.4-	1.1+				

1994 CT₁₃ = 1999 VH₉₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	357.66863		(2000.0)		P		Q
<i>n</i>	0.28738135	ω	42.33884	+0.42828456		-0.90249375	
<i>a</i>	2.2742087	Ω	22.41908	+0.79376413		+0.35162255	
<i>e</i>	0.0803228	<i>i</i>	6.86376	+0.43186901		+0.24872999	
<i>P</i>	3.43	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 02 08	809	1.0+	0.7+	1999 10 30	703	0.5+	0.9+	1999 11 09	704	0.3+	0.3+
1994 02 08	809	0.0	0.6+	1999 10 30	703	0.2+	0.1+	1999 11 09	704	0.2+	0.1+
1994 02 08	809	0.2-	0.4+	1999 10 30	703	0.5-	0.1-	1999 11 09	704	0.0	0.5+
1994 02 10	809	0.6-	0.6+	1999 11 03	049	0.5+	0.3-	1999 11 12	704	1.0+	0.5+
1994 02 10	809	0.0	0.8-	1999 11 03	049	0.5+	0.1+	1999 11 12	704	1.1+	0.9-
1994 02 10	809	0.0	1.0-	1999 11 03	049	0.7+	0.5-	1999 11 12	704	0.4+	0.2-
1994 02 13	809	(2.2+	3.0+)	1999 11 07	704	0.2-	0.0	1999 12 07	704	1.6-	0.4-
1994 02 13	809	(3.7+	1.8+)	1999 11 07	704	0.7+	0.3-	1999 12 07	704	0.2-	0.5+
1994 02 13	809	(3.4+	1.6+)	1999 11 07	704	1.0-	0.0	1999 12 07	704	0.5-	0.5+
1999 09 05	699	1.1-	0.0	1999 11 07	704	0.2-	0.2+	1999 12 07	704	0.4+	0.3+
1999 09 05	699	0.0	0.6+	1999 11 07	704	0.6-	1.4-	1999 12 07	704	0.8+	0.4+

1999 09 05	699	1.3-	0.2+	1999 11 09	704	0.4+	0.1-
1999 10 30	703	1.0-	0.2-	1999 11 09	704	0.1+	0.1+

1994 PP₁₀ = 2000 DP₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	269.46773		(2000.0)		P		Q
<i>n</i>	0.28611733	ω	104.51635	-0.04702943		+0.99871046	
<i>a</i>	2.2809019	Ω	162.75379	-0.93951118		-0.03772353	
<i>e</i>	0.1281482	<i>i</i>	3.69798	-0.33927419		-0.03397577	
<i>P</i>	3.44	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 08 10	809	0.1+	0.6-	1994 09 04	809	0.6+	0.4+	2000 03 03	704	0.4+	0.1+
1994 08 10	809	0.4-	0.9-	1994 09 04	809	0.0	0.2+	2000 03 03	704	0.3-	0.0
1994 08 10	809	1.3-	1.0-	2000 02 27	691	0.3+	0.9-	2000 03 03	704	0.3-	0.6-
1994 08 11	809	0.3+	0.5-	2000 02 27	691	0.4+	0.7-	2000 03 11	704	0.7-	0.7+
1994 08 11	809	0.3+	0.5+	2000 02 27	691	0.4+	0.8-	2000 03 11	704	0.7-	0.5+
1994 08 11	809	0.1+	0.7+	2000 02 29	704	0.1-	0.3+	2000 03 11	704	0.5-	0.8+
1994 09 03	809	0.4-	0.9+	2000 02 29	704	0.3+	0.5-	2000 03 11	704	0.3-	1.0+
1994 09 03	809	0.4-	0.2+	2000 02 29	704	1.0+	0.1-	2000 03 11	704	0.0	0.7+
1994 09 03	809	0.3-	0.1-	2000 03 03	704	0.1+	0.2+				
1994 09 04	809	1.2+	0.7+	2000 03 03	704	0.2+	0.5-				

1994 PO₁₂ = 1951 RS = 1987 SZ₂₄ = 2000 DX₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	222.25789		(2000.0)		P		Q
<i>n</i>	0.27480462	ω	334.82836	+0.39395237		+0.91845269	
<i>a</i>	2.3430777	Ω	318.34742	-0.83404478		+0.34108040	
<i>e</i>	0.1774722	<i>i</i>	3.04475	-0.38622640		+0.20027186	
<i>P</i>	3.59	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1951 09 04	024	0.9-	1.1-	1998 11 11	704	1.1-	0.4+	2000 02 28	691	0.7-	0.3-
1951 09 05	024	2.3+	1.1-	1998 11 11	704	0.2-	1.5-	2000 02 28	691	0.6-	0.3-
1987 09 23	095	1.7-	1.4-	1998 11 20	699	0.6+	0.1-	2000 02 29	704	0.7+	0.3+
1994 08 10	809	0.0	0.7+	1998 11 20	699	0.1-	0.0	2000 02 29	704	0.2+	0.3+
1994 08 10	809	1.0-	0.3-	1998 11 20	699	0.1-	0.1+	2000 02 29	704	0.8+	0.8+
1994 08 10	809	1.4-	0.0	1999 01 13	725	1.0+	0.0	2000 02 29	704	0.9+	0.9+
1994 08 11	809	0.5+	0.2-	1999 01 13	725	(2.1+	0.2-)	2000 02 29	704	1.0+	0.8+
1994 08 11	809	0.4-	0.6+	1999 01 13	725	1.2+	0.6+	2000 03 03	704	0.3-	0.4+
1994 08 11	809	0.0	0.2+	2000 01 07	704	0.2+	0.7-	2000 03 03	704	0.2-	0.8+
1994 09 03	809	0.3+	1.5+	2000 01 07	704	0.2-	0.9-	2000 03 03	704	0.3-	0.5+
1994 09 03	809	0.1-	1.6+	2000 01 07	704	1.1+	1.1-	2000 03 03	704	0.1+	0.7+
1994 09 03	809	0.6+	1.1+	2000 01 07	704	0.1+	0.6-	2000 03 03	704	0.0	0.9+
1994 09 04	809	(1.7+	3.4+)	2000 02 04	704	0.8+	1.4+	2000 03 05	704	1.0+	0.3+
1994 09 04	809	(1.2+	3.7+)	2000 02 04	704	0.3+	0.5+	2000 03 05	704	0.2-	0.4+
1994 09 04	809	(1.4+	3.6+)	2000 02 04	704	0.2+	1.5-	2000 03 05	704	0.0	1.0+
1998 10 19	699	0.8+	0.0	2000 02 04	704	0.3-	2.0-	2000 03 05	704	0.7-	0.8-
1998 10 19	699	0.4-	1.0+	2000 02 11	704	1.1-	1.3+	2000 03 11	691	0.4-	0.5-
1998 10 19	699	0.5+	0.8+	2000 02 11	704	0.3+	0.4+	2000 03 11	691	0.4-	0.3-
1998 11 11	704	1.5+	0.9-	2000 02 11	704	0.2-	0.4+	2000 03 11	691	0.6-	0.5-
1998 11 11	704	1.0-	0.4+	2000 02 11	704	0.3-	0.6+				
1998 11 11	704	0.9-	0.6+	2000 02 28	691	0.6-	0.0				

1994 PX₁₂ = 1998 OJ₈ = 2000 CG₆₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	93.89976		(2000.0)		P		Q
n	0.24110880	ω	179.62731	+0.94609265		-0.32374642	
a	2.5565876	Ω	199.27123	+0.29709164		+0.87950573	
e	0.1665152	i	1.70966	+0.12901651		+0.34879497	
P	4.09	H	15.4	G	0.15	U	4

2000 MAR. 20

M.P.C. 39161

Residuals in seconds of arc

1994 08 10	809	1.1+	0.2-	1994 09 04	809	1.6-	1.1-	1998 08 17	704	1.8-	0.3+
1994 08 10	809	0.1+	0.4+	1994 09 04	809	1.8-	1.4-	1998 08 17	704	0.3-	1.1-
1994 08 10	809	0.7-	0.3+	1998 07 26	809	1.2-	1.2-	1998 08 17	704	(0.4+	2.1-)
1994 08 11	809	(0.1-	2.3+)	1998 07 26	809	(0.8-	2.1-)	2000 02 03	704	1.2-	0.4+
1994 08 11	809	0.6-	1.7+	1998 07 26	809	1.2-	1.1-	2000 02 03	704	0.3+	0.8-
1994 08 11	809	0.1-	1.4+	1998 07 27	809	1.6+	1.7+	2000 02 03	704	0.0	0.5-
1994 09 03	809	1.0+	0.6-	1998 07 27	809	1.5+	1.9+	2000 02 08	704	0.3-	1.3+
1994 09 03	809	1.1+	0.7+	1998 07 27	809	(1.0+	2.2+)	2000 02 08	704	0.9+	0.8+
1994 09 03	809	1.1+	0.2+	1998 08 17	704	0.4-	1.0-	2000 02 08	704	0.6+	0.2+
1994 09 04	809	0.2+	0.4-	1998 08 17	704	1.7+	0.9+				

1994 PG₁₅ = 2000 AK₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	114.56199		(2000.0)	P	Q	Doppler	
<i>n</i>	0.23382981	ω	159.87950	+0.87692763	+0.48056098		
<i>a</i>	2.6093728	Ω	171.38634	-0.44768683	+0.82254779		
<i>e</i>	0.1261921	<i>i</i>	2.94154	-0.17485547	+0.30409911		
<i>P</i>	4.22	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 08 10	809	1.5+	0.9+	1994 09 03	809	(3.8-	3.6-)	2000 01 05	704	0.1-	0.2+
1994 08 10	809	0.8+	0.2-	1994 09 03	809	(3.6-	3.1-)	2000 01 06	704	0.8-	0.1+
1994 08 10	809	0.4+	0.4-	1994 09 04	809	0.9+	0.8+	2000 01 06	704	0.6+	0.0
1994 08 11	809	0.9-	0.2-	1994 09 04	809	0.0	0.4-	2000 01 06	704	0.4+	0.3+
1994 08 11	809	2.0-	0.1-	1994 09 04	809	0.7-	0.3-	2000 01 06	704	0.3-	0.3-
1994 08 11	809	(2.9-	1.2-)	2000 01 05	704	0.6-	0.3+	2000 01 06	704	0.0	0.4-
1994 09 03	809	(4.5-	2.3-)	2000 01 05	704	0.8+	0.3-				

1994 PM₁₅ = 2000 AB₂₂₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	112.66943		(2000.0)	P	Q	Williams	
<i>n</i>	0.23964733	ω	21.67882	+0.98841677	+0.14864046		
<i>a</i>	2.5669711	Ω	329.72288	-0.14663711	+0.88335247		
<i>e</i>	0.2301541	<i>i</i>	3.48316	-0.03911326	+0.44451594		
<i>P</i>	4.11	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 08 10	809	0.5+	0.0	1994 09 04	809	1.1+	0.2+	2000 01 08	691	0.1+	0.5+
1994 08 10	809	0.3+	0.1+	1994 09 04	809	0.7+	0.2-	2000 01 13	691	0.2+	0.0
1994 08 10	809	0.6-	0.6+	1994 09 04	809	0.3-	0.7-	2000 01 13	691	0.4+	0.2+
1994 08 11	809	0.4+	0.4-	1998 08 17	704	0.2-	0.3+	2000 01 13	691	0.3+	0.3+
1994 08 11	809	0.5-	0.6-	1998 08 17	704	1.0-	0.3+	2000 01 26	691	0.1-	0.2-
1994 08 11	809	0.9-	0.1-	1998 08 17	704	0.7+	1.7+	2000 01 26	691	0.2-	0.1-
1994 09 03	809	0.1+	0.1-	1998 08 17	704	0.1-	0.6-	2000 01 26	691	0.2-	0.2-
1994 09 03	809	0.5-	0.1+	2000 01 08	691	0.1-	0.2+				
1994 09 03	809	0.0	0.2+	2000 01 08	691	0.2-	0.4+				

1994 PJ₁₆ = 1999 VQ₁₁₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	51.46637		(2000.0)	P	Q	Williams	
<i>n</i>	0.21496160	ω	44.66707	+0.98726109	-0.15643345		
<i>a</i>	2.7599134	Ω	324.30301	+0.12847951	-0.89151770		
<i>e</i>	0.2043032	<i>i</i>	2.85405	+0.09385386	+0.42511737		
<i>P</i>	4.59	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 08 10	809	0.0	0.6-	1999 11 03	704	0.5+	1.1-	1999 11 16	704	0.3-	0.8-
1994 08 10	809	0.5-	0.6-	1999 11 03	704	0.5+	0.3+	1999 11 16	704	0.0	0.6-
1994 08 10	809	0.2-	0.5-	1999 11 03	704	0.4+	0.2+	1999 11 16	704	0.2+	0.0
1994 08 11	809	1.0+	0.7+	1999 11 03	704	0.7+	0.2+	1999 11 16	704	0.8+	0.1-
1994 08 11	809	0.8+	0.2+	1999 11 04	703	0.2-	0.2-	1999 12 05	703	0.2+	1.0+
1994 08 11	809	0.3-	0.2-	1999 11 04	703	0.5-	0.1+	1999 12 05	703	1.3-	0.8+

1994 09 03	809	0.1+	0.2+	1999 11 04	703	0.1+	1.0-	1999 12 05	703	1.5-	0.7-
1994 09 03	809	0.2-	0.2-	1999 11 04	703	0.1-	1.1-	1999 12 05	703	1.0-	1.0+
1994 09 03	809	0.7-	0.2+	1999 11 09	703	1.4-	0.6+	1999 12 08	704	0.5-	0.1+
1994 09 04	809	1.2+	0.9+	1999 11 09	703	0.2+	0.2-	1999 12 08	704	0.6+	0.7+
1994 09 04	809	0.3-	0.2+	1999 11 09	703	0.1-	0.5-	1999 12 08	704	0.5+	0.5+
1994 09 04	809	1.0-	0.2+	1999 11 09	703	0.1-	0.1-	1999 12 08	704	0.7+	0.7+
1999 11 03	704	0.2-	0.5-	1999 11 16	704	0.4+	0.6-	1999 12 08	704	1.2+	1.0+

1994 PU₁₆ = 2000 CD₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	227.56361		(2000.0)	P	Q	Williams	
<i>n</i>	0.27718751	ω	336.31444	+0.47217109	+0.88032204		
<i>a</i>	2.3296300	Ω	321.81674	-0.79649747	+0.40385566		
<i>e</i>	0.1319403	<i>i</i>	4.23862	-0.37768538	+0.24886483		
<i>P</i>	3.56	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 08 10	809	0.5-	0.2+	1998 11 11	704	1.1-	0.1+	2000 03 03	704	0.2+	0.7-
1994 08 10	809	0.9-	0.2-	2000 02 01	703	0.8-	0.2+	2000 03 03	704	0.0	0.4-
1994 08 10	809	0.7-	0.1+	2000 02 01	703	1.3-	0.0	2000 03 03	704	0.2+	0.4-
1994 08 11	809	1.6+	1.3-	2000 02 01	703	1.0+	0.3+	2000 03 03	704	0.6+	0.5-
1994 08 11	809	0.6+	0.5-	2000 02 01	703	0.1-	0.2-	2000 03 03	704	1.4-	1.3-
1994 08 11	809	0.3+	1.2-	2000 02 02	704	0.2-	1.6+	2000 03 05	704	0.3+	0.6-
1994 09 03	809	0.1+	0.7+	2000 02 02	704	0.8+	0.1-	2000 03 05	704	0.5+	0.1+
1994 09 03	809	0.2-	1.3+	2000 02 02	704	0.0	0.0	2000 03 05	704	1.0-	0.7-
1994 09 03	809	0.5-	1.1+	2000 02 02	704	0.4-	1.0-	2000 03 05	704	0.2+	1.5+
1994 09 04	809	(0.4+	2.7+)	2000 02 06	704	0.5+	0.8-	2000 03 05	704	0.1-	0.0
1994 09 04	809	(0.2-	2.2+)	2000 02 06	704	0.8+	0.1+	2000 03 11	704	0.2+	0.6-
1994 09 04	809	(0.9-	2.5+)	2000 02 06	704	0.6+	0.6+	2000 03 11	704	0.4+	0.1-
1994 09 05	809	(4.0-	2.5-)	2000 02 08	704	0.9-	0.2+	2000 03 11	704	0.6+	0.4-
1994 09 05	809	(5.0-	2.7-)	2000 02 08	704	0.5+	0.0	2000 03 11	704	0.3+	0.8-
1994 09 05	809	(4.8-	2.6-)	2000 02 08	704	(2.1+	1.3+)	2000 03 11	699	1.1-	0.6+
1994 09 06	809	(2.7-	4.1-)	2000 02 08	704	0.6+	0.8+	2000 03 11	704	0.3+	0.4-
1994 09 06	809	(4.8-	3.9-)	2000 02 29	704	0.2+	0.4+	2000 03 11	699	1.1-	0.9+
1994 09 06	809	(4.7-	3.4-)	2000 02 29	704	0.4+	0.1+	2000 03 11	699	(2.7-	0.7+)
1998 11 11	704	1.1+	1.0-	2000 02 29	704	0.2+	0.1+	2000 03 11	699	1.6-	0.8+
1998 11 11	704	0.2+	0.2+	2000 02 29	704	0.2+	0.6+				
1998 11 11	704	(0.1+	2.6-)	2000 02 29	704	0.6+	0.3+				

1994 PA₁₇ = 2000 EQ₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	173.68497		(2000.0)	P	Q	Williams	
<i>n</i>	0.26820665	ω	71.85761	+0.97067553	+0.23855560		
<i>a</i>	2.3813488	Ω	274.33297	-0.23027286	+0.88726742		
<i>e</i>	0.2058999	<i>i</i>	1.70503	-0.06901764	+0.39477558		
<i>P</i>	3.67	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1994 08 10	809	0.2-	1.0-	1994 09 05	809	0.1-	0.4+	1998 11 24	704	0.4+	0.7-
1994 08 10	809	0.4-	1.1-	1994 09 05	809	0.2-	0.4-	2000 03 03	704	0.4-	0.3+
1994 08 10	809	1.1-	0.1-	1994 09 06	809	1.2+	0.4+	2000 03 03	704	0.1-	0.4+
1994 08 11	809	0.9+	0.1+	1994 09 06	809	0.1+	0.1-	2000 03 03	704	0.2-	0.8+
1994 08 11	809	1.0+	0.0	1994 09 06	809	0.3+	0.2+	2000 03 03	704	0.3+	0.3+
1994 08 11	809	0.4+	0.1+	1997 05 01	704	0.8-	0.5-	2000 03 03	704	0.3-	0.5+
1994 08 12	809	0.7-	0.5+	1997 05 01	704	0.5+	0.4-	2000 03 04	704	1.2-	0.0
1994 08 12	809	0.7-	0.7+	1997 05 01	704	0.4-	0.4-	2000 03 04	704	0.1-	0.5-
1994 08 12	809	(2.2-	1.5+)	1997 05 01	704	0.1+	1.0-	2000 03 04	704	1.0+	0.1+
1994 08 13	809	0.4-	0.0	1998 11 24	704	1.6+	0.2-	2000 03 05	704	0.9+	0.4-
1994 08 13	809	0.5-	0.2+	1998 11 24	704	0.3-	0.5-	2000 03 05	704	0.1+	0.7+
1994 08 13	809	0.5-	0.2+	1998 11 24	704	0.6-	0.1-	2000 03 05	704	1.0+	0.1+
1994 09 05	809	0.2+	1.0+	1998 11 24	704	0.7-	0.2-	2000 03 05	704	0.3-	0.0

1994 PN₁₉ = 2000 BN₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	273.91686		(2000.0)			$\mathbf{P}$		$\mathbf{Q}$			
n	0.28584628	ω	304.32241			-0.13036846		+0.99117563			
a	2.2823436	Ω	318.16613			-0.89743368		-0.12824976			
e	0.1552598	i	2.06025			-0.42144615		-0.03350933			
P	3.45	H	15.3			G	0.15	U	5		
Residuals in seconds of arc											
1994 08 12	809	1.0-	0.9-	1994 09 06	809	0.4-	0.8+	2000 02 29	704	0.9+	0.9-
1994 08 12	809	0.8-	1.6-	1994 09 06	809	0.0	0.4-	2000 02 29	704	0.9+	0.2+
1994 08 12	809	(2.1-	1.9-)	2000 01 30	691	0.4-	0.0	2000 02 29	704	0.3+	0.7-
1994 08 13	809	(1.4+	2.2+)	2000 01 30	691	0.6-	0.1-	2000 03 03	704	0.6+	0.4+
1994 08 13	809	0.9+	2.0+	2000 01 30	691	0.8-	0.2+	2000 03 03	704	0.1+	0.1+
1994 08 13	809	(0.2+	3.0+)	2000 02 01	691	0.7-	0.1-	2000 03 03	704	0.4+	0.0
1994 09 04	809	1.5-	1.1-	2000 02 01	691	0.6-	0.3-	2000 03 03	704	0.1+	0.5+
1994 09 04	809	(3.2-	1.2-)	2000 02 01	691	0.4-	0.0	2000 03 03	704	0.6+	0.2+
1994 09 04	809	(4.1-	1.2-)	2000 02 06	704	0.6+	0.7+	2000 03 11	704	1.5-	1.2+
1994 09 05	809	1.1+	0.8+	2000 02 06	704	1.1+	0.4+	2000 03 11	704	1.7-	0.3+
1994 09 05	809	0.9+	0.5+	2000 02 06	704	(0.7+	2.2+)	2000 03 11	704	0.2+	0.4-
1994 09 05	809	0.0	0.1+	2000 02 29	704	0.6+	0.6-	2000 03 11	704	0.3-	0.1-
1994 09 06	809	0.5+	0.2+	2000 02 29	704	0.6+	0.4-				

1994 RD₃ = 2000 DD₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	156.70748		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$				
n	0.26697790	ω	27.36643		+0.99842668		+0.02012429				
a	2.3886500	Ω	331.33471		-0.04295620		+0.87443556				
e	0.1265209	i	6.26377		+0.03604070		+0.48472412				
P	3.69	H	15.1		G	0.15	U		4		
Residuals in seconds of arc											
1994 08 10	809	0.3+	1.0+	1994 09 02	691	0.7-	0.4-	1998 11 14	704	1.0+	0.3-
1994 08 10	809	0.3+	0.9+	1994 09 02	691	0.7-	0.6-	1998 11 14	704	0.5+	0.3+
1994 08 10	809	0.4-	0.8+	1994 09 02	691	0.7-	0.4-	1998 11 14	704	0.3-	0.8-
1994 08 11	809	1.3+	0.2-	1994 09 03	809	1.0-	0.9+	1998 11 14	704	1.4-	1.1+
1994 08 11	809	0.8+	0.5-	1994 09 03	809	1.5-	0.1+	2000 02 29	704	0.2+	0.3-
1994 08 11	809	0.6+	0.4+	1994 09 03	809	0.3-	0.1+	2000 02 29	704	0.5+	0.6+
1994 08 12	809	0.1-	0.1+	1994 09 04	809	0.6+	1.5+	2000 02 29	704	0.1+	0.5+
1994 08 12	809	0.2+	0.6-	1994 09 04	809	0.9+	1.5+	2000 03 03	704	0.6+	0.7+
1994 08 12	809	0.2+	1.0-	1994 09 04	809	0.3+	1.6+	2000 03 03	704	0.5+	0.7+
1994 08 13	809	(2.9+	2.3+)	1994 09 09	691	0.8-	0.7-	2000 03 03	704	0.5-	0.4+
1994 08 13	809	(3.5+	2.2+)	1994 09 09	691	0.6-	0.6-	2000 03 03	704	0.1-	0.7+
1994 08 13	809	(2.4+	2.0+)	1994 09 09	691	0.5-	0.6-	2000 03 03	704	0.7+	0.5-

1994 SL₇ = 2000 DA₁₀₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	194.33112		(2000.0)			$\mathbf{P}$		$\mathbf{Q}$			
n	0.26515759	ω	312.31792			+0.83160109		+0.55461406			
a	2.3995695	Ω	14.07850			-0.46796701		+0.72791388			
e	0.1544889	i	6.85463			-0.29907607		+0.40316824			
P	3.72	H	14.4			G	0.15	U	3		
Residuals in seconds of arc											
1994 09 28	691	0.1-	0.0	2000 02 11	704	1.5-	0.6+	2000 03 05	704	0.3-	0.2-
1994 09 28	691	0.2-	0.2-	2000 02 11	704	0.7-	0.1+	2000 03 05	704	0.0	0.7-
1994 09 28	691	0.2-	0.0	2000 02 11	704	0.6-	0.2+	2000 03 05	704	0.1-	0.1+
1994 09 29	691	0.0	0.0	2000 02 25	703	0.4+	0.8+	2000 03 11	699	0.1-	0.5-
1994 09 29	691	0.0	0.0	2000 02 25	703	0.1+	0.1-	2000 03 11	699	0.6+	0.5+
1994 09 29	691	0.0	0.1-	2000 02 25	703	0.2+	0.1+	2000 03 11	699	0.2+	0.0
1994 10 04	691	0.0	0.1+	2000 02 25	703	1.2-	1.5+	2000 03 11	699	0.6+	0.3-
1994 10 04	691	0.2-	0.2+	2000 02 29	704	0.6+	0.6-	2000 03 12	704	0.3+	0.1+
1994 10 04	691	0.0	0.0	2000 02 29	704	0.4+	0.3-	2000 03 12	704	0.5+	0.5+
1994 10 11	691	0.0	0.4+	2000 02 29	704	0.2+	0.2-	2000 03 12	704	0.3-	0.2+
1994 10 11	691	0.1+	0.5+	2000 02 29	704	0.7+	0.2+	2000 03 12	704	0.1+	0.7

1998 11 11	704	0.5+	0.7−	2000 02 29	704	0.1−	0.0	2000 03 12	704	0.1+	0.2−
1998 11 11	704	1.3+	0.7−	2000 03 05	704	0.1−	0.3−				
1998 11 11	704	1.5−	0.8+	2000 03 05	704	0.4+	0.1−				

1994 TP₅ = 2000 CM₁₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	289.97875		(2000.0)			P		Q				
n	0.25793112	ω	59.39711			-0.76096015		+0.64857873				
a	2.4441821	Ω	161.02061			-0.61162709		-0.70843437				
e	0.1274494	i	2.97687			-0.21645310		-0.27832782				
P	3.82	H	15.0			G	0.15	U		4		
Residuals in seconds of arc												
1994 10 04	691 0.0	0.1-	2000 01 30	703	0.4-	0.6+	2000 02 06	704	0.1-	0.0		
1994 10 04	691 0.1+	0.2-	2000 01 30	703	0.4-	0.3-	2000 02 06	704	0.2-	0.2+		
1994 10 04	691 0.4-	0.1+	2000 01 30	703	0.2-	1.0+	2000 02 10	704	0.5-	1.1+		
1994 10 06	691 0.5+	0.2-	2000 02 02	704	0.1-	0.0	2000 02 10	704	0.4-	0.1+		
1994 10 06	691 0.5+	0.2+	2000 02 02	704	0.5+	0.4-	2000 02 10	704	0.9-	1.1-		
1994 10 06	691 0.6+	0.5-	2000 02 02	704	0.1-	0.3+	2000 02 10	704	0.7+	0.3-		
1994 10 12	691 0.6-	0.1-	2000 02 02	704	0.5-	0.1-	2000 02 11	704	0.1+	0.2+		
1994 10 12	691 0.5-	1.0+	2000 02 02	704	0.0	0.1-	2000 02 11	704	0.3+	0.6+		
1994 10 12	691 0.4-	0.0	2000 02 03	704	0.4-	0.1+	2000 02 11	704	1.1+	0.1-		
2000 01 05	704 0.3+	0.2+	2000 02 03	704	0.2+	0.3+	2000 02 11	704	1.0+	0.4+		
2000 01 05	704 0.5+	0.3-	2000 02 03	704	0.2+	0.1-	2000 02 11	704	(2.9+ 0.6+)			
2000 01 05	704 0.8-	0.1-	2000 02 03	704	0.8-	0.3-	2000 03 04	691	0.1-	0.2-		
2000 01 05	704 0.3-	0.2-	2000 02 03	704	0.2-	0.7-	2000 03 04	691	0.0	0.4-		
2000 01 05	704 0.3+	0.7-	2000 02 05	704	0.2+	0.2+	2000 03 04	691	0.0	0.5-		
2000 01 07	704 1.0+	1.0+	2000 02 05	704	0.2-	0.1-	2000 03 10	691	0.1+	0.0		
2000 01 07	704 0.5+	0.3+	2000 02 05	704	0.2+	0.7-	2000 03 10	691	0.0	0.0		
2000 01 07	704 0.1+	0.7-	2000 02 05	704	0.2-	1.2-	2000 03 10	691	0.1+	0.6+		
2000 01 07	704 0.7-	1.7-	2000 02 06	704	0.0	1.7+						
2000 01 30	703 0.2-	1.1+	2000 02 06	704	0.5+	0.1+						

$$1994 \text{ TM}_{16} = 2000 \text{ EQ}_6$$

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	156.60554		(2000.0)			P		Q		
n	0.26054400	ω	326.20464			+0.96095038		-0.27538682		
a	2.4278135	Ω	49.80431			+0.26109889		+0.86984578		
e	0.1993826	i	2.03605			+0.09166103		+0.40930481		
P	3.78	H	15.9			G	0.15	U		4
Residuals in seconds of arc										
1994 10 05	033 0.0	0.5-	1994 10 28	033	0.7+	0.2+	2000 03 02	691	0.5+	0.3+
1994 10 06	033 0.7-	0.2-	1994 10 28	033	0.2-	0.3-	2000 03 02	691	0.4+	0.4-
1994 10 07	033 0.2-	0.3+	1994 10 29	691	0.1-	0.1+	2000 03 02	691	0.4-	0.2+
1994 10 07	691 0.1-	0.3-	1994 10 29	691	0.2+	0.1-	2000 03 03	691	0.3-	0.2-
1994 10 07	691 1.3+	1.3+	1994 10 29	691	0.2-	0.2-	2000 03 03	691	0.3-	0.2+
1994 10 07	691 0.3-	0.4-	1994 11 01	033	0.5-	0.2+	2000 03 03	691	0.0	0.2-
1994 10 10	033 0.0	0.3-	1994 11 01	033	0.0	0.2+				

1994 UC₈ = 2000 CH₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	279.71877		(2000.0)			P		Q		
n	0.28064037	ω	263.17069			+0.09721721		+0.99498829		
a	2.3104822	Ω	12.48083			-0.86505053		+0.09609674		
e	0.2299809	i	6.21344			-0.49217517		+0.02763538		
P	3.51	H	14.8			G	0.15	U	2	
Residuals in seconds of arc										
1994 10 28	691	0.0	0.4+	2000 01 08	704	0.9-	1.4-	2000 02 26	703	(2.1+ 1.1+)
1994 10 28	691	0.1+	0.6+	2000 01 08	704	0.1-	0.6-	2000 03 02	703	0.3+ 0.5+
1994 10 28	691	0.3+	0.4+	2000 01 08	704	0.8-	0.5-	2000 03 02	703	0.1- 1.1+
1994 11 05	691	0.9-	0.8+	2000 01 08	704	0.1-	0.4-	2000 03 02	703	0.7- 0.5+
1994 11 05	691	0.2-	0.9+	2000 02 06	704	0.8+	0.4+	2000 03 02	703	0.1- 0.4+

2000 MAR. 20

M.P.C. 39163

1994 11 05	691	0.4−	0.9+	2000 02 06	704	0.7+	0.9+	2000 03 03	620	0.6+	0.5+
1994 11 10	691	0.5−	0.1+	2000 02 06	704	0.1−	1.1+	2000 03 03	620	0.6−	0.6+
1994 11 10	691	0.5−	0.0	2000 02 06	704	0.2+	0.7+	2000 03 04	620	1.7−	0.7+
1994 11 10	691	0.1−	0.3+	2000 02 11	704	0.9+	0.7+	2000 03 09	620	0.9−	0.3+
1997 08 01	566	0.1−	0.6+	2000 02 11	704	0.6−	0.6−	2000 03 09	620	0.4−	0.0
1997 08 01	566	0.1−	0.7+	2000 02 11	704	0.2−	0.0	2000 03 09	620	0.9+	0.1−
1997 08 01	566	0.2−	0.6+	2000 02 11	704	1.1+	1.2−	2000 03 12	704	0.8+	0.5−
1998 12 17	704	1.3+	0.2+	2000 02 11	704	0.2−	0.2+	2000 03 12	704	0.1−	1.1+
1998 12 17	704	1.3−	0.1+	2000 02 26	703	0.2+	0.0	2000 03 12	704	0.6+	1.0+
1998 12 17	704	0.4+	1.5−	2000 02 26	703	0.9+	1.3−	2000 03 12	704	0.1+	0.2+
1998 12 17	704	(2.3−	2.5−)	2000 02 26	703	1.6+	0.8−				

1994 VM₆ = 1971 QQ₁ = 1971 SE₄ = 2000 AH₁₁₈

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.21713248	<i>ω</i>	142.69490	+0.91910831	−0.37844947		
<i>a</i>	2.7414870	<i>Ω</i>	239.88654	+0.32400945	+0.88428551		
<i>e</i>	0.2491169	<i>i</i>	7.28010	+0.22418249	+0.27352355		
<i>P</i>	4.54	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1971 08 30	095	(6.1−	5.2+)	1998 07 15	699	0.3+	0.2+	2000 01 07	704	0.0	0.2+
1971 09 26	095	(10.2−	3.6−)	1998 07 15	699	0.2+	0.6+	2000 01 07	704	0.1−	0.1+
1991 02 08	675	1.5−	1.2−	1998 07 15	699	0.3+	0.7+	2000 02 02	703	0.3+	0.3+
1991 02 08	675	0.6−	0.1−	1998 08 24	704	0.6−	0.2+	2000 02 02	703	0.0	0.6+
1994 11 04	400	1.1+	0.2−	1998 08 24	704	0.5−	1.1−	2000 02 02	703	1.6−	1.0−
1994 11 04	400	0.3+	0.1+	1998 08 24	704	1.4−	0.4−	2000 02 02	703	(2.6+ 1.8−)	
1994 11 05	675	0.2+	0.5−	1998 08 24	704	0.4−	1.1+	2000 02 04	704	0.1−	1.0+
1994 11 05	675	0.0	0.4−	1998 08 24	704	0.3−	1.0+	2000 02 04	704	0.3+	0.6+
1994 11 06	400	1.3−	1.1−	2000 01 05	704	0.2−	0.3+	2000 02 04	704	1.0+	0.3−
1994 11 06	400	1.3+	0.2+	2000 01 05	704	0.2+	0.3−	2000 02 04	704	0.5+	1.2+
1994 11 29	400	0.7−	0.4+	2000 01 05	704	0.1−	0.2−	2000 02 04	704	0.4+	0.0
1994 11 29	400	0.3+	1.1+	2000 01 05	704	0.2−	0.1+	2000 02 12	704	0.9+	0.3−
1997 05 07	704	0.4+	0.2−	2000 01 05	704	0.5−	0.3−	2000 02 12	704	0.3+	0.9+
1997 05 07	704	1.2+	0.4−	2000 01 07	704	0.1+	0.4+	2000 02 12	704	0.2+	0.5+
1997 05 07	704	0.4+	0.4+	2000 01 07	704	0.5−	0.0	2000 02 12	704	0.5+	0.0
1997 05 07	704	0.0	0.4−	2000 01 07	704	0.5−	0.2+	2000 02 12	704	0.1+	0.5+

1994 WB = 1986 TM₁₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23928402	<i>ω</i>	313.63267	+0.96955930	+0.20530321		
<i>a</i>	2.5695688	<i>Ω</i>	35.15262	−0.09693106	+0.82225659		
<i>e</i>	0.2076343	<i>i</i>	13.40065	−0.22485357	+0.53079628		
<i>P</i>	4.12	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1986 10 05	095	0.8+	0.5−	1994 12 01	817	0.9−	0.8+	1999 12 12	704	0.4−	0.0
1994 11 23	817	0.1+	0.0	1994 12 01	817	0.1+	0.8+	1999 12 12	704	0.1+	0.1−
1994 11 23	817	0.4+	0.0	1994 12 01	817	0.8−	0.2+	1999 12 12	704	0.1−	0.3−
1994 11 23	817	0.7+	0.5+	1994 12 09	817	0.2+	0.6+	1999 12 12	704	0.1+	0.2+
1994 11 24	817	0.3−	0.5−	1994 12 09	817	0.7+	1.0−	1999 12 30	704	0.3+	0.1−
1994 11 24	817	0.4−	0.6−	1994 12 09	817	0.9+	0.5−	1999 12 30	704	0.7+	0.1−
1994 11 24	817	0.7−	0.3+	1994 12 26	817	0.3+	0.9−	1999 12 30	704	0.2−	0.1+
1994 11 24	817	0.6−	0.0	1994 12 26	817	0.2−	1.0+	1999 12 30	704	0.5+	0.8+
1994 11 24	817	0.4−	0.2−	1994 12 26	817	0.8−	0.8−	2000 01 11	699	0.2+	0.3−
1994 11 25	817	0.2−	0.4−	1994 12 26	817	(2.8−	0.4+)	2000 01 11	699	0.4+	0.4+
1994 11 25	817	0.1+	0.8−	1995 01 05	817	1.1+	0.8−	2000 01 11	699	0.3+	0.5−
1994 11 26	817	0.0	0.0	1995 01 05	817	0.7+	1.6−	2000 01 27	704	0.1+	0.3+
1994 11 26	817	0.5−	0.9+	1995 01 06	817	0.3+	0.3−	2000 01 27	704	0.7−	0.4+
1994 11 26	817	0.1−	0.1−	1998 12 08	704	0.5−	0.6+	2000 01 27	704	0.5−	0.2+
1994 11 26	817	0.1+	0.2+	1998 12 08	704	0.5−	0.4+	2000 02 26	704	0.2+	0.6+
1994 11 27	817	0.1+	0.2+	1998 12 08	704	0.8+	0.1+	2000 02 26	704	0.3−	0.2−
1994 11 27	817	1.0−	0.0	1998 12 08	704	0.1−	1.7+	2000 02 26	704	0.1+	0.1−

1994 11 27	817	0.1−	0.4+	1998 12 08	704	0.5+	0.1+	2000 02 26	704	0.1+	0.4+
1994 12 01	817	0.2+	0.6+	1999 12 12	704	0.4−	0.0	2000 02 26	704	0.9−	0.5−

1994 WJ₃ = 1999 XT₁₈₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.21832512	<i>ω</i>	335.13965	+0.51479938	−0.82070817		
<i>a</i>	2.7314939	<i>Ω</i>	82.98881	+0.82240488	+0.39110712		
<i>e</i>	0.2005580	<i>i</i>	14.45959	+0.24214009	+0.41650128		
<i>P</i>	4.51	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 11 27	675	1.2+	0.1+	1999 12 10	704	0.7+	0.8−	2000 01 29	704	0.5+	0.3−
1994 11 28	399	0.4−	0.4−	1999 12 10	704	0.4−	0.3−	2000 01 29	704	0.5+	0.7−
1994 11 28	399	0.1+	1.1+	1999 12 15	704	0.1+	0.3−	2000 01 29	704	0.9+	0.4−
1994 11 29	399	0.9+	0.3−	1999 12 15	704	0.1−	0.4−	2000 02 27	704	0.3−	0.0
1994 11 29	399	0.6−	0.6−	1999 12 15	704	0.3+	0.2−	2000 02 27	704	0.2+	0.9+
1994 12 10	399	0.2−	0.2+	1999 12 15	704	0.2+	0.3+	2000 02 27	704	0.3+	0.6+
1994 12 10	399	1.1−	0.5+	2000 01 03	704	0.3−	0.4−	2000 02 27	704	0.3−	0.9+
1999 12 09	703	0.0	0.3+	2000 01 03	704	0.2−	0.3−	2000 02 27	704	0.1−	0.7+
1999 12 09	703	0.2+	0.5+	2000 01 03	704	0.2−	0.8−	2000 03 11	703	0.2−	0.7+
1999 12 09	703	0.3−	1.0+	2000 01 03	704	0.1+	0.4−	2000 03 11	703	0.0	0.2+
1999 12 09	703	0.2−	0.4+	2000 01 03	704	0.5−	0.0	2000 03 11	703	1.3−	0.0
1999 12 10	704	0.0	0.3−	2000 01 29	704	0.0	0.1−	2000 03 11	703	1.0−	0.4−
1999 12 10	704	0.3+	0.4−	2000 01 29	704	0.4+	0.1+				

1994 YK₁ = 2000 CF₂₈

Id. T. Kobayashi, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.21598419	<i>ω</i>	62.33615	+0.98927170	−0.11700785		
<i>a</i>	2.7511953	<i>Ω</i>	304.25899	+0.06552232	+0.89051931		
<i>e</i>	0.1614154	<i>i</i>	6.07495	+0.13056928	+0.43964136		
<i>P</i>	4.56	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 12 31	411	1.3−	0.4−	1998 12 17	699	0.5−	0.3+	2000 02 27	703	0.2−	0.2+
1994 12 31	411	0.2−	0.5+	1998 12 17	699	0.2−	0.8+	2000 02 27	703	0.0	0.0
1995 01 01	411	0.4−	0.5+	1998 12 17	699	0.5−	0.3+	2000 02 29	704	0.1+	0.3−
1995 01 01	411	0.1−	0.4+	2000 02 02	704	0.0	0.2+	2000 02 29	704	0.1−	0.3+
1995 01 05	411	0.1+	0.1+	2000 02 02	704	0.1−	0.5+	2000 02 29	704	0.3+	0.4−
1995 01 05	411	1.0+	1.5−	2000 02 02	704	0.1−	0.2+	2000 02 29	704	0.2+	0.2+
1995 01 07	411	0.3−	0.5+	2000 02 02	704	0.3+	0.4+	2000 02 29	704	0.5+	0.0
1995 01 07	411	0.0	1.8−	2000 02 02	704	0.2+	0.2+	2000 03 03	704	0.3+	0.4+
1995 01 19	411	0.2+	0.6+	2000 02 04	704	0.0	0.8−	2000 03 03	704	0.1+	0.3+
1995 01 19	411	0.4+	1.1−	2000 02 04	704	0.8+	0.3+	2000 03 03	704	0.2−	0.4+
1998 11 14	704	1.1+	0.9+	2000 02 04	704	0.2+	0.3+	2000 03 03	704	0.5−	0.8+
1998 11 14	704	1.2+	0.0	2000 02 04	704	1.0+	0.2+	2000 03 03	704	0.1−	0.8+
1998 11 14	704	(3.5+ 1.4+)		2000 02 04	704	0.4+	0.5+	2000 03 05	704	0.6−	0.3−
1998 11 14	704	0.2+	1.5+	2000 02 10	704	0.2−	0.1−	2000 03 05	704	0.2+	0.1+
1998 11 16	704	0.1+	0.8+	2000 02 10	704	0.1+	0.5−	2000 03 05	704	0.0	0.2−
1998 11 16	704	0.2−	0.0	2000 02 10	704	0.1−	0.2−	2000 03 05	704	0.0	0.1−
1998 11 16	704	0.5−	0.6−	2000 02 10	704	1.0−	0.3−	2000 03 05	704	0.1+	0.1−
1998 11 16	704	0.1−	1.5−	2000 02 27	703	0.5−	1.0−				
1998 11 16	704	1.2−	1.2−	2000 02 27	703	0.2−	0.1−				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	309.30033	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.20384640	ω	279.35346	−0.91515647	+0.34990139	
<i>a</i>	2.8593502	Ω	281.33318	−0.24024447	−0.87214206	
<i>e</i>	0.0832016	<i>i</i>	11.77824	−0.32368383	−0.34196089	
<i>P</i>	4.84	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1995 01 29	905	0.7+	0.3−	1999 12 14	704	0.9+	0.3−	2000 02 02	703	0.2−	0.2+
1995 01 29	905	0.1+	0.2−	1999 12 14	704	0.3+	0.8−	2000 02 02	703	0.0	0.5+
1995 01 31	905	0.1+	1.5−	1999 12 14	704	1.0−	1.0−	2000 02 02	703	0.0	0.5+
1995 01 31	905	0.5−	0.5−	1999 12 14	704	0.7+	0.6−	2000 02 06	704	0.3+	0.4+
1995 02 02	905	(2.7−	0.4−)	1999 12 14	704	0.4+	1.6−	2000 02 06	704	0.1−	0.4+
1995 02 02	905	1.5−	0.5−	2000 01 05	704	0.5−	0.0	2000 02 06	704	0.0	0.7+
1995 03 01	905	0.5−	1.4+	2000 01 05	704	0.0	0.6+	2000 02 06	704	0.3+	0.7+
1995 03 01	905	0.3+	1.7−	2000 01 05	704	0.0	0.0	2000 02 06	704	0.2+	0.9+
1997 08 30	566	0.4−	1.2+	2000 01 05	699	0.3+	0.4+	2000 02 27	888	0.6−	0.3+
1997 08 30	566	0.8−	1.3+	2000 01 05	704	0.2+	0.7+	2000 02 27	888	0.1−	0.4+
1997 08 30	566	0.1−	0.6+	2000 01 05	699	0.3+	0.4+	2000 02 27	888	0.2−	0.2+
1998 12 18	699	0.2−	0.3−	2000 01 05	704	0.2+	0.3+	2000 02 28	703	0.2−	0.6−
1998 12 18	699	0.6−	0.3+	2000 01 05	699	0.2+	0.2−	2000 02 28	703	(1.2−	2.2+)
1998 12 18	699	0.3+	0.1+	2000 01 08	704	0.5+	0.0	2000 02 28	703	(0.3+	2.2+)
1999 12 05	704	0.1−	1.0+	2000 01 08	704	0.2−	0.1−	2000 02 28	703	0.4−	0.6+
1999 12 05	704	0.1−	0.3+	2000 01 08	704	0.2+	0.2−	2000 03 06	704	0.7+	0.5+
1999 12 05	704	0.0	0.3+	2000 01 08	704	0.5+	0.8−	2000 03 06	704	0.1+	0.3+
1999 12 05	704	0.0	0.4+	2000 01 08	704	0.1+	0.8−	2000 03 06	704	0.6+	0.0
1999 12 05	704	0.0	0.2+	2000 02 02	703	0.2−	0.6+	2000 03 06	704	0.4+	0.6+

1995 BK₄ = 1988 XY₅ = 2000 AC₁₈₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	7.56792	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.17774181	ω	306.77871	+0.12896218	−0.97692717	
<i>a</i>	3.1328744	Ω	134.85061	+0.96905002	+0.08771010	
<i>e</i>	0.1873363	<i>i</i>	13.89434	+0.21050133	+0.19473122	
<i>P</i>	5.55	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1988 12 08	808	0.4+	0.2+	1998 09 24	699	0.2−	0.3−	2000 01 11	704	0.3+	0.1−
1988 12 08	808	0.3−	0.4−	1999 10 31	703	0.3−	0.3+	2000 01 11	704	0.0	0.1−
1995 01 28	399	0.5+	2.0+	1999 10 31	703	0.6−	0.0	2000 01 11	704	0.0	0.2−
1995 01 28	399	0.2+	1.2+	1999 10 31	703	0.5−	0.3+	2000 01 11	704	0.0	0.0
1995 02 03	399	(1.0+	2.9+)	1999 10 31	703	0.1−	0.0	2000 01 11	704	0.1+	0.4+
1995 02 03	399	(0.3−	2.5+)	1999 12 03	704	0.1+	0.6−	2000 02 02	703	0.3−	0.3+
1995 02 06	399	0.2+	0.4+	1999 12 03	704	0.1−	0.9−	2000 02 02	703	0.7−	0.1+
1995 02 06	399	0.9−	0.1+	1999 12 03	704	0.5−	0.8−	2000 02 02	703	0.5−	0.3+
1998 08 17	704	0.0	0.1+	1999 12 03	704	0.3−	1.0−	2000 02 02	703	0.1−	0.3+
1998 08 17	704	0.5+	0.8−	1999 12 03	704	0.2−	0.1−	2000 02 04	704	0.5+	0.5+
1998 08 17	704	0.1−	0.6−	1999 12 16	699	0.1+	0.0	2000 02 04	704	0.2−	0.2−
1998 08 17	704	0.7−	0.1+	1999 12 16	699	0.3+	0.8+	2000 02 04	704	0.5−	0.0
1998 08 17	704	0.5−	0.9+	1999 12 16	699	0.1+	0.0	2000 02 04	704	0.3−	0.7+
1998 08 27	699	0.4−	1.4+	2000 01 08	704	0.3+	0.1−	2000 03 05	704	0.2+	0.0
1998 08 27	699	0.2−	1.3+	2000 01 08	704	0.5+	0.0	2000 03 05	704	0.3+	0.1−
1998 08 27	699	0.2−	1.3+	2000 01 08	704	0.7+	0.3−	2000 03 05	704	0.1−	0.1+
1998 09 24	699	0.5+	0.7+	2000 01 08	704	0.5+	0.1+	2000 03 05	704	0.5+	0.3+
1998 09 24	699	0.9+	0.0	2000 01 08	704	0.8+	0.5−	2000 03 05	704	0.2+	0.2+

1995 CN₆ = 2000 DD₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	179.18828	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.20665177	ω	143.82073	+0.91810133	+0.39629022	
<i>a</i>	2.8334135	Ω	192.83779	−0.37029118	+0.85165955	
<i>e</i>	0.1186668	<i>i</i>	1.71093	−0.14133078	+0.34297241	
<i>P</i>	4.77	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1995 02 01	691	0.2−	0.0	1995 02 08	691	0.1+	0.4+	2000 02 29	704	0.8+	0.5−
1995 02 01	691	0.0	0.0	1995 02 21	691	0.5+	0.8−	2000 02 29	704	0.5−	1.2+
1995 02 01	691	0.1−	0.2+	1995 02 21	691	0.1+	0.6−	2000 02 29	704	0.9−	0.3+
1995 02 02	691	0.1−	0.1+	1995 02 21	691	0.3+	0.4−	2000 02 29	704	0.1−	0.1−
1995 02 02	691	0.0	0.2−	1995 03 01	691	0.5−	0.6+	2000 03 03	704	0.9+	0.3+
1995 02 02	691	0.3+	0.0	1995 03 01	691	0.7−	0.3−	2000 03 03	704	0.5+	0.1−
1995 02 04	691	0.2+	0.0	1996 04 17	809	1.5+	0.4−	2000 03 03	704	0.8+	0.4−
1995 02 04	691	0.1−	0.1−	1996 04 17	809	0.5−	0.7+	2000 03 03	704	0.9−	0.0
1995 02 04	691	0.3−	0.2+	1996 04 17	809	1.1−	0.5−	2000 03 03	704	0.1−	0.7+
1995 02 08	691	0.2+	0.3−	2000 02 29	704	0.1−	0.1−				

1995 CO₆ = 2000 EH₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	34.23054	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.21478908	ω	337.84262	−0.77469295	−0.63215557	
<i>a</i>	2.7613911	Ω	162.92119	+0.58763281	−0.72857758	
<i>e</i>	0.0424830	<i>i</i>	2.96110	+0.23353483	−0.26373099	
<i>P</i>	4.59	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1995 02 01	691	0.1+	0.1+	2000 03 02	691	0.0	0.4−	2000 03 10	704	0.5−	0.3+
1995 02 01	691	0.0	0.1+	2000 03 03	691	0.2+	0.6−	2000 03 10	704	0.3+	0.0
1995 02 01	691	0.1+	0.0	2000 03 03	691	0.1+	0.7−	2000 03 10	704	0.4+	0.2−
1995 02 08	691	0.2+	0.2−	2000 03 03	691	0.1+	0.7−	2000 03 11	704	0.3+	0.5−
1995 02 08	691	0.3+	0.0	2000 03 08	704	0.0	0.6+	2000 03 11	704	0.2−	1.2+
1995 02 21	691	0.2−	0.1+	2000 03 08	704	0.2−	0.4+	2000 03 11	704	0.2−	0.1+
1995 02 21	691	0.1−	0.1−	2000 03 08	704	0.9−	0.6+	2000 03 11	704	0.3+	0.0
1995 02 21	691	0.5−	0.0	2000 03 08	704	0.4−	0.1−	2000 03 11	704	0.6+	0.1−
2000 03 02	691	0.1+	0.6−	2000 03 08	704	0.6+	0.7+				
2000 03 02	691	0.0	0.6−	2000 03 10	704	0.4−	0.4+				

1995 DU = 2000 DT₉₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	57.38102	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.19240582	ω	98.79287	−0.02108354	−0.99950113	
<i>a</i>	2.9716016	Ω	352.29747	+0.83440885	−0.00463459	
<i>e</i>	0.0403255	<i>i</i>	10.10482	+0.55074254	−0.03124123	
<i>P</i>	5.12	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1995 02 20	411	0.3−	0.6+	2000 02 03	704	0.1+	0.4+	2000 03 05	704	0.0	0.0
1995 02 20	411	0.6−	0.5+	2000 02 03	704	0.6+	0.1+	2000 03 05	704	0.3−	0.4+
1995 02 22	411	0.1−	0.3+	2000 02 03	704	0.1+	0.1−	2000 03 05	704	0.4−	0.1+
1995 02 22	411	1.0−	0.8−	2000 02 06	703	0.5−	0.4−	2000 03 05	704	0.2−	0.2+
1995 02 26	411	0.7+	0.4+	2000 02 06	703	0.0	0.2−	2000 03 05	704	0.6+	0.0
1995 02 26	411	(0.0	3.0+)	2000 02 06	703	0.3+	0.6+	2000 03 08	704	0.4+	0.2+
1995 03 05	411	0.3−	0.4+	2000 02 06	703	0.5−	0.3+	2000 03 08	704	0.8+	0.7−
1995 03 05	411	0.0	0.4+	2000 02 11	704	0.2+	0.4+	2000 03 08	704	0.4+	0.0
1995 03 10	691	0.0	0.0	2000 02 11	704	0.6+	0.3−	2000 03 08	704	0.8+	0.2+
1995 03 10	691	0.5+	0.1−	2000 02 11	704	0.0	0.9−	2000 03 08	704	0.9+	0.2−
1995 03 10	691	0.0	0.0	2000 02 11	704	0.0	0.1+	2000 03 09	704	0.1+	0.4−
1995 03 10	691	0.1−	0.1+	2000 02 11	704	0.6−	0.3+	2000 03 09	704	0.1−	0.1−
1995 03 10	691	0.0	0.0	2000 02 25	703	0.4−	0.4−	2000 03 09	704	0.3+	0.2+
1995 03 10	691	0.2−	0.2+	2000 02 25	703	0.4−	1.9+	2000 03 09	704	0.1+	0.1+
1995 03 10	691	0.2+	0.2+	2000 02 25	703	1.2+	1.7+	2000 03 09	704	0.3+	0.1+
1995 03 10	691	0.2+	0.1+	2000 02 25	703	0.1−	0.2+	2000 03 12	704	0.4−	0.4+
1995 03 10	691	0.2+	0.1+	2000 02 28	704	0.9−	2.0−	2000 03 12	704	0.5−	0.2−
1995 03 11	411	1.3+	1.5−	2000 02 28	704	1.2−	1.9−	2000 03 12	704	0.2+	0.2−
1995 03 11	411	0.4−	0.9−	2000 02 28	704	1.0−	0.2−	2000 03 12	704	0.1+	0.3+
2000 02 03	704	0.0	0.2+	2000 02 28	704	0.8−	0.9−	2000 03 12	704	0.1+	0.5+

2000 MAR. 20

M.P.C. 39165

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	36.89768		(2000.0)	P	Q
<i>n</i>	0.17558245	ω	94.61704	+0.09615569	-0.99298144
<i>a</i>	3.1585080	Ω	349.11831	+0.70549884	+0.11679328
<i>e</i>	0.0444602	<i>i</i>	21.39340	+0.70215772	+0.01863297
<i>P</i>	5.61	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1995 02 24	691	0.1+	0.1-	1998 08 29	704	0.0	1.4-	2000 01 31	704	0.5+	0.3-
1995 02 24	691	0.5+	0.2-	1999 12 13	704	0.1+	0.4-	2000 01 31	704	0.6+	0.2-
1995 02 24	691	0.0	0.2-	1999 12 13	704	0.2-	0.3-	2000 01 31	704	0.4+	0.1+
1995 02 25	098	0.2-	0.0	1999 12 13	704	0.0	0.1+	2000 01 31	704	0.3-	0.2+
1995 02 25	098	0.2-	0.1-	1999 12 13	704	0.3+	0.3+	2000 02 02	704	0.4+	0.3-
1995 02 26	098	0.8-	1.1+	1999 12 13	704	0.1+	0.1+	2000 02 02	704	0.2+	0.0
1995 02 26	098	0.7-	0.7+	2000 01 27	704	0.4+	0.2-	2000 02 02	704	(0.3- 2.3-)	
1995 02 27	098	0.2+	0.6-	2000 01 27	704	0.3+	0.3+	2000 02 02	704	0.6-	1.6-
1995 02 27	098	0.4-	0.7-	2000 01 27	704	0.1-	0.4+	2000 02 02	704	0.7-	0.4+
1995 03 02	691	0.4+	0.2-	2000 01 27	704	0.2-	0.0	2000 02 02	704	0.5-	0.7+
1995 03 02	691	0.3+	0.2-	2000 01 27	704	0.1+	0.4+	2000 02 02	704	0.7-	0.4+
1995 03 02	691	0.1+	0.2-	2000 01 30	704	0.1-	0.2-	2000 02 02	704	0.9-	1.0+
1998 08 29	704	0.7+	0.5+	2000 01 30	704	0.3+	0.4-	2000 02 02	704	0.5-	0.1-
1998 08 29	704	1.9-	0.8+	2000 01 30	704	0.4+	0.0	2000 02 02	704	0.5-	0.1+
1998 08 29	704	0.1-	0.1+	2000 01 30	704	0.8+	0.0				
1998 08 29	704	1.7+	0.7-	2000 01 31	704	0.5+	0.3-				

1995 DW₈ = 2000 DN₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	63.13541		(2000.0)	P	Q
<i>n</i>	0.19809949	ω	321.69676	-0.21645813	-0.97585979
<i>a</i>	2.9143865	Ω	140.78005	+0.90667435	-0.21196644
<i>e</i>	0.0245133	<i>i</i>	2.63273	+0.36206007	-0.05261073
<i>P</i>	4.98	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1995 02 24	691	0.0	0.2-	2000 02 11	704	0.2+	0.3-	2000 03 11	704	0.3-	0.7+
1995 02 24	691	0.1+	0.2-	2000 02 11	704	0.4-	0.5+	2000 03 11	699	0.1+	0.4+
1995 02 24	691	0.1+	0.4-	2000 02 11	704	0.0	0.9+	2000 03 11	704	0.2-	0.4+
1995 03 02	691	0.6-	0.1-	2000 02 11	704	0.1-	0.5-	2000 03 11	704	0.1-	0.1+
1995 03 02	691	0.0	0.3-	2000 02 29	704	0.9+	0.3+	2000 03 11	699	0.3+	0.4+
1995 03 02	691	0.1-	0.4-	2000 02 29	704	1.7-	1.1+	2000 03 11	704	0.0	0.3-
1995 03 07	691	0.3-	0.5-	2000 02 29	704	0.8+	0.3+	2000 03 11	699	0.3-	0.7+
1995 03 07	691	0.4-	0.2-	2000 02 29	704	(0.1+ 2.1+)		2000 03 11	704	0.3-	0.1-
1995 03 07	691	0.3-	0.4-	2000 03 03	704	0.1+	0.1-	2000 03 11	699	0.0	0.5+
1995 03 27	675	(3.4+ 1.5+)		2000 03 03	704	0.0	0.1-	2000 03 13	704	0.4+	0.3-
1995 04 05	691	0.0	0.6-	2000 03 03	704	0.1-	0.2-	2000 03 13	704	0.3+	0.3+
1995 04 05	691	0.1-	0.4-	2000 03 03	704	0.7+	0.4-	2000 03 13	704	0.1+	0.3-
1995 04 05	691	0.1-	0.6-	2000 03 03	704	0.6+	0.4-	2000 03 13	704	0.6+	0.4+

1995 EN₈ = 1999 XB₂₃₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	359.67895		(2000.0)	P	Q
<i>n</i>	0.19231163	ω	151.76335	-0.85707011	-0.51491994
<i>a</i>	2.9725718	Ω	357.07328	+0.38752464	-0.62260683
<i>e</i>	0.1904425	<i>i</i>	19.42312	+0.33949298	-0.58925224
<i>P</i>	5.13	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1995 03 04	033	0.1+	0.0	1999 12 10	704	0.3-	0.3-	2000 03 11	699	0.0	0.3-
1995 03 05	033	1.0+	0.2-	1999 12 10	704	0.1-	0.5-	2000 03 12	703	0.5+	0.4+
1995 03 07	033	0.2+	0.3+	1999 12 10	704	0.0	0.4-	2000 03 12	704	0.4-	0.0
1995 03 23	033	0.5-	0.7+	1999 12 10	704	0.3-	0.3-	2000 03 12	703	0.4+	0.2+
1995 03 23	033	1.3-	0.5+	1999 12 10	704	0.4-	0.2-	2000 03 12	704	0.4-	0.3+
1995 03 29	691	0.1-	0.6-	2000 03 04	704	(2.8+ 0.9-)		2000 03 12	703	0.1+	0.3-
1995 03 29	691	0.1-	0.4-	2000 03 04	704	(2.9+ 1.1-)		2000 03 12	704	0.1-	0.1+

1995 03 29	691	1.1+	0.0	2000 03 04	704	(2.9+ 1.1-)		2000 03 12	703	0.2+	0.0
1999 12 07	703	0.6+	0.4+	2000 03 04	704	(3.2+ 1.1-)		2000 03 12	704	0.2-	0.0
1999 12 07	703	0.1-	0.7+	2000 03 11	699	0.2-	0.2-	2000 03 12	704	0.3-	0.1-
1999 12 07	703	0.2+	0.4+	2000 03 11	699	0.0	0.2-				
1999 12 07	703	0.7+	0.3+	2000 03 11	699	0.2-	0.3-				

1995 FU₄ = 2000 DM

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	33.79650		(2000.0)	P	Q
<i>n</i>	0.19283156	ω	320.17861	-0.51061780	-0.85707715
<i>a</i>	2.9672261	Ω	160.22803	+0.83140302	-0.51248083
<i>e</i>	0.0514600	<i>i</i>	11.67790	+0.21917681	-0.05274616
<i>P</i>	5.11	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1995 03 01	691	0.0	0.3+	2000 02 23	120	0.4-	0.5+	2000 03 03	704	0.0	0.4+
1995 03 01	691	0.2-	0.1+	2000 02 23	120	0.1+	0.0	2000 03 03	704	0.2-	0.3+
1995 03 01	691	0.1-	0.1+	2000 02 24	120	0.9-	1.1-	2000 03 03	704	0.1-	0.6+
1995 03 23	691	0.0	0.2-	2000 02 24	120	1.3-	0.0	2000 03 11	704	0.3+	0.7-
1995 03 23	691	0.1-	0.0	2000 02 27	120	0.4-	0.4+	2000 03 11	704	1.0+	0.0
1995 03 23	691	0.3-	0.4-	2000 02 27	120	1.0-	0.7-	2000 03 11	704	0.6-	0.3+
1995 03 27	675	0.3+	0.0	2000 02 27	120	0.0	0.1+	2000 03 11	699	0.1+	0.1+
1995 03 29	691	0.2+	0.3-	2000 02 29	704	1.1+	0.3+	2000 03 11	704	0.1+	0.4-
1995 03 29	691	0.2+	0.3-	2000 02 29	704	0.7+	0.2+	2000 03 11	704	0.1-	0.1+
1995 03 29	691	0.2+	0.0	2000 02 29	704	0.9+	0.2-	2000 03 11	699	0.3-	0.5+
1995 04 04	691	0.4-	0.0	2000 02 29	704	1.0+	0.1+	2000 03 11	699	0.4-	0.8-
1995 04 04	691	0.1+	0.9+	2000 02 29	704	1.2+	0.2-	2000 03 11	699	0.1-	0.4+
1995 04 04	691	0.1+	0.3-	2000 03 03	704	1.0-	0.1+				
2000 02 23	120	0.6+	0.6-	2000 03 03	704	0.2-	0.3+				

1995 FF₆ = 1995 EM₄ = 2000 CW₄₂

Id. K. Ichikawa (d, MPC 27886), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	30.36112		(2000.0)	P	Q
<i>n</i>	0.18606771	ω	303.44327	-0.29690719	-0.95224524
<i>a</i>	3.0387061	Ω	163.37797	+0.93777319	-0.30483630
<i>e</i>	0.0835621	<i>i</i>	14.42077	+0.18007654	+0.01743067
<i>P</i>	5.30	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1995 03 02	691	0.3+	0.1-	1995 03 27	675	0.2+	1.1+	1997 08 30	910	0.1-	0.3+
1995 03 02	691	0.1+	0.4-	1995 03 29	691	0.4-	0.2+	2000 02 02	704	0.6+	0.6+
1995 03 02	691	0.0	0.2-	1995 03 29	691	0.5-	0.4+	2000 02 02	704	1.1-	0.0
1995 03 07	691	0.3-	0.8-	1995 03 29	691	0.1-	0.4+	2000 02 02	704	1.5+	0.9-
1995 03 07	691	0.5-	0.7-	1995 04 04	691	0.4-	0.2+	2000 02 02	704	0.9-	0.4+
1995 03 07	691	0.1+	0.3-	1995 04 04	691	0.3-	0.1-	2000 02 06	704	0.3-	1.0+
1995 03 23	691	0.5+	0.3+	1995 04 04	691	0.6-	0.3-	2000 02 06	704	0.1+	0.6+
1995 03 23	691	1.6+	0.2-	1997 08 30	910	0.0	0.3+	2000 02 06	704	0.0	0.4-
1995 03 23	691	0.3+	0.4+	1997 08 30	910	0.1-	0.5+				

1995 FU₂₀ = 2000 AF₁₇₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler

<i>M</i>	310.04103		(2000.0)	P	Q
<i>n</i>	0.17664908	ω	37.16805	-0.99289067	+0.03143232
<i>a</i>	3.1457808	Ω	144.11467	-0.05890902	-0.96786193
<i>e</i>	0.1692421	<i>i</i>	11.29482	+0.10343042	-0.24951011
<i>P</i>	5.58	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1995 03 24	327	0.3-	0.2+	1995 03 25	327	(1.9- 3.5+)		2000 01 07	704	0.7+	0.4+
1995 03 24	327	0.1+	0.3+	1995 03 26	327	0.3+	0.3-	2000 01 07	704	0.2+	1.3+
1995 03 24	327	0.5-	0.5+	1995 03 26	327	0.9+	0.5-	2000 01 07	704	0.4+	0.3+
1995 03 24	327	0.0	0.5+	1995 03 26	327	0.6-	0.3-	2000 01 11	704	0.3+	1.2-
1995 03 25	327	0.4+	0.0	1995 03 26	327	0.3+	0.9-	2000 01 11	704	0.1-	0.4-

1995 03 25 327 0.3− 0.0 2000 01 07 704 1.0+ 0.5− 2000 01 11 704 1.8− 0.6+
 1995 03 25 327 0.3− 0.4+ 2000 01 07 704 1.3− 0.8− 2000 01 11 704 0.5+ 0.2+

1995 GD₄ = 2000 ET₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams					
<i>M</i>	137.00013		(2000.0)	P		Q			
<i>n</i>	0.17448495	ω	327.62642	+0.98281875		−0.14811054			
<i>a</i>	3.1717387	Ω	41.34374	+0.18372764		+0.84210381			
<i>e</i>	0.0884044	<i>i</i>	9.59785	−0.01764808		+0.51857925			
<i>P</i>	5.65	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1995 04 01 691 0.0 0.1− 2000 03 04 704 0.3+ 0.0 2000 03 08 704 0.2− 0.4−
 1995 04 01 691 0.5+ 0.3− 2000 03 04 704 0.3+ 1.5+ 2000 03 08 704 1.5+ 1.3−
 1995 04 04 691 0.4− 0.1− 2000 03 04 704 0.3+ 0.3− 2000 03 09 704 0.7− 0.1+
 1995 04 04 691 0.0 0.0 2000 03 04 704 0.6− 0.1− 2000 03 09 704 0.0 0.6+
 1995 04 04 691 0.1− 0.2+ 2000 03 04 704 0.8− 0.3− 2000 03 09 704 0.6− 0.1+
 1995 04 08 691 0.2+ 0.1+ 2000 03 08 704 0.1+ 1.0− 2000 03 09 704 0.4+ 0.3−
 1995 04 08 691 0.0 0.1+ 2000 03 08 704 0.0 0.3+ 2000 03 09 704 0.6+ 1.1+
 1995 04 08 691 0.2− 0.1+ 2000 03 08 704 0.8− 0.1+

1995 LV = 1995 MH₁Id. S. Nakano (d, *MPC* 31161), A. Gnädig (1990 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams					
<i>M</i>	152.64149		(2000.0)	P		Q			
<i>n</i>	0.22385388	ω	4.60815	−0.36674286		−0.90568192			
<i>a</i>	2.6863317	Ω	107.02532	+0.84628772		−0.41973474			
<i>e</i>	0.0477105	<i>i</i>	12.85270	+0.38638940		+0.05969103			
<i>P</i>	4.40	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1990 03 23 675 0.1− 0.6+ 1995 06 05 691 0.1+ 0.1− 1995 07 05 691 0.2− 0.1+
 1990 03 23 675 0.5+ 0.6+ 1995 06 05 691 0.2− 0.4+ 1995 07 05 691 0.2+ 0.4−
 1995 06 04 691 0.1− 0.3+ 1995 06 22 691 0.1− 0.3+ 1999 04 19 703 0.2+ 1.7−
 1995 06 04 691 0.3+ 0.3+ 1995 06 22 691 0.2+ 0.1+ 1999 04 19 703 1.0− 0.1+
 1995 06 04 691 0.0 0.1+ 1995 06 22 691 0.0 0.0 1999 04 19 703 0.5+ 0.1−
 1995 06 05 691 0.4+ 0.0 1995 07 05 691 0.4− 0.4− 1999 04 19 703 0.4− 0.0

1995 QF₄ = 2000 DG₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams					
<i>M</i>	114.01454		(2000.0)	P		Q			
<i>n</i>	0.29941295	ω	59.45833	+0.93865653		−0.34290522			
<i>a</i>	2.2128688	Ω	320.56293	+0.29336145		+0.84978818			
<i>e</i>	0.1353674	<i>i</i>	3.30350	+0.18128150		+0.40034492			
<i>P</i>	3.29	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1995 08 17 691 0.2+ 0.3− 1995 09 27 966 0.8+ 0.7+ 2000 02 29 704 0.0 0.5+
 1995 08 17 691 0.3+ 0.4− 1995 09 28 966 0.6− 0.7+ 2000 02 29 704 0.3− 0.1−
 1995 08 17 691 0.4+ 0.4− 1995 09 28 966 0.3− 0.6− 2000 02 29 704 0.3+ 0.7+
 1995 08 22 691 0.1− 0.0 2000 02 12 120 0.4+ 0.4− 2000 03 03 704 1.1− 1.0+
 1995 08 22 691 0.0 0.2+ 2000 02 12 120 0.0 2.0− 2000 03 03 704 0.5− 0.7+
 1995 08 22 691 0.2+ 0.1+ 2000 02 27 691 0.7− 0.3+ 2000 03 03 704 0.3+ 1.1+
 1995 08 28 691 0.5− 0.1+ 2000 02 27 691 0.7− 1.0− 2000 03 03 704 0.8− 0.7+
 1995 08 28 691 0.2− 0.3+ 2000 02 27 703 1.0− 0.2− 2000 03 05 704 0.3− 1.0−
 1995 09 22 966 0.9+ 1.2+ 2000 02 27 703 0.2− 0.6+ 2000 03 05 704 0.3+ 0.6−
 1995 09 22 966 (1.3− 2.6+) 2000 02 27 691 0.5− 0.9− 2000 03 05 704 1.9+ 0.2+
 1995 09 23 966 1.1− 0.3− 2000 02 27 703 1.1+ 1.4+ 2000 03 09 704 1.4+ 0.5−
 1995 09 24 966 0.2+ 0.4− 2000 02 27 703 0.6− 1.9− 2000 03 09 704 0.5+ 0.1−
 1995 09 25 966 0.3+ 0.5− 2000 02 29 704 0.0 0.1+ 2000 03 09 704 1.1+ 0.4+
 1995 09 25 966 0.3− 0.4− 2000 02 29 704 0.4− 1.1+

1995 SR₁₉ = 2000 AS₁₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams					
<i>M</i>	5.86362		(2000.0)	P		Q			
<i>n</i>	0.26736848	ω	84.80399	−0.15695641		−0.98754689			
<i>a</i>	2.3863231	Ω	14.23990	+0.88789571		−0.14587319			
<i>e</i>	0.1675912	<i>i</i>	2.50765	+0.43244177		−0.05892500			
<i>P</i>	3.69	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1995 09 18 691 0.0 0.0 1999 11 16 704 0.2− 0.7− 2000 01 03 704 0.5+ 0.9+
 1995 09 18 691 0.0 0.2− 1999 11 16 704 0.4+ 0.1+ 2000 01 03 704 0.5− 1.0−
 1995 09 18 691 0.9− 0.3− 1999 12 05 703 0.2− 0.4+ 2000 01 03 704 0.4− 0.7−
 1995 09 24 691 0.0 0.0 1999 12 05 703 0.1+ 1.0+ 2000 01 04 704 0.3− 0.6−
 1995 09 24 691 0.2− 0.1− 1999 12 05 703 0.0 1.2+ 2000 01 04 704 0.1− 0.0
 1995 09 24 691 0.4− 0.1− 1999 12 05 703 0.0 0.6+ 2000 01 04 704 0.4+ 0.2−
 1995 09 27 691 0.1− 0.2+ 1999 12 15 704 0.3+ 0.4− 2000 01 04 704 0.3+ 0.1+
 1995 09 27 691 0.2+ 0.1+ 1999 12 15 704 0.1+ 0.2− 2000 01 04 704 0.9+ 0.5−
 1995 09 27 691 1.1+ 0.8+ 1999 12 15 704 0.2+ 0.5− 2000 01 30 704 0.5− 0.7+
 1999 11 14 704 0.9+ 0.0 1999 12 15 704 0.3+ 0.0 2000 01 30 704 1.0+ 0.3+
 1999 11 14 704 0.4− 0.7+ 2000 01 03 704 0.5− 0.2+ 2000 01 30 704 0.1− 0.8+
 1999 11 14 704 (2.2+ 0.2−) 2000 01 03 704 0.6− 1.1− 2000 01 30 704 0.5+ 0.5+
 1999 11 14 704 0.4− 0.3− 2000 01 03 704 0.1+ 0.5− 2000 01 30 704 0.8− 0.8+
 1999 11 14 704 0.4− 1.2− 2000 01 03 704 0.5− 0.2−
 1999 11 16 704 0.4+ 0.1− 2000 01 03 704 0.6− 0.1+

1995 SQ₅₃ = 2000 EY₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams					
<i>M</i>	75.90182		(2000.0)	P		Q			
<i>n</i>	0.27877130	ω	17.97684	+0.58919343		−0.80381847			
<i>a</i>	2.3207980	Ω	36.04897	+0.72315644		+0.47932828			
<i>e</i>	0.1735352	<i>i</i>	8.01160	+0.36041069		+0.35230706			
<i>P</i>	3.54	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1995 09 28 327 0.1+ 0.2− 2000 03 04 704 0.6− 0.6+ 2000 03 11 699 0.3− 0.2−
 1995 09 28 327 0.2− 0.0 2000 03 04 704 0.8− 0.5+ 2000 03 11 699 0.2− 0.4−
 1995 09 28 327 0.1+ 0.1− 2000 03 06 704 0.3+ 0.1+ 2000 03 11 699 0.9− 0.2−
 1995 09 28 327 0.2+ 0.6− 2000 03 06 704 0.1− 0.1− 2000 03 12 703 0.4− 0.3−
 1995 09 29 327 0.1+ 0.4+ 2000 03 06 704 0.5+ 0.3− 2000 03 12 703 0.1+ 0.4−
 1995 09 29 327 0.3− 0.2+ 2000 03 06 704 0.4+ 0.4+ 2000 03 12 704 0.4− 0.2+
 1995 09 29 327 0.2+ 0.5+ 2000 03 06 704 0.1− 0.2− 2000 03 12 703 0.9− 0.8+
 1995 10 20 411 0.1− 1.0− 2000 03 09 704 0.6+ 0.2+ 2000 03 12 704 0.0 0.1+
 1995 10 20 411 0.4− 0.1+ 2000 03 09 704 0.2+ 0.5− 2000 03 12 703 0.4− 0.2+
 1995 10 25 411 0.5+ 1.0+ 2000 03 09 704 0.4− 0.4− 2000 03 12 704 0.7+ 0.1+
 1995 10 25 411 0.1− 0.2− 2000 03 09 704 0.9+ 0.6− 2000 03 12 704 0.2+ 0.0
 2000 03 04 704 1.2+ 0.1+ 2000 03 09 704 0.1+ 0.0 2000 03 12 704 0.2+ 0.2−
 2000 03 04 704 0.1− 0.3+ 2000 03 11 699 0.1− 0.2+

1995 UF₄ = 2000 DR₉₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams					
<i>M</i>	120.49391		(2000.0)	P		Q			
<i>n</i>	0.29251359	ω	339.43946	+0.99054600		−0.13091141			
<i>a</i>	2.2475292	Ω	28.17929	+0.13484116		+0.87418950			
<i>e</i>	0.2886889	<i>i</i>	4.98053	+0.02522863		+0.46760551			
<i>P</i>	3.37	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1995 10 18 114 1.9− 0.9+ 1995 10 28 358 1.0+ 0.0 2000 02 11 704 1.4+ 0.9−
 1995 10 19 114 1.2− 0.6− 1995 10 28 358 1.0+ 0.4+ 2000 02 11 704 0.5+ 0.5−
 1995 10 19 114 1.0+ 0.0 1995 10 29 411 0.9− 0.4− 2000 02 29 704 0.3− 0.3+
 1995 10 20 358 0.8+ 1.1− 1995 10 29 411 0.3− 0.0 2000 02 29 704 0.4− 0.2+
 1995 10 20 358 0.5+ 0.3+ 1995 11 10 358 0.3− 0.5− 2000 02 29 704 0.7− 0.1−
 1995 10 21 358 0.4+ 1.1+ 1995 11 10 358 1.1− 0.7+ 2000 03 05 704 0.2+ 1.3+
 1995 10 21 358 0.1− 0.6+ 1995 11 21 358 0.5+ 1.4− 2000 03 05 704 0.7+ 0.1+
 1995 10 27 411 0.1+ 0.6− 1995 11 21 358 0.3+ 1.2+ 2000 03 05 704 0.3− 0.2+
 1995 10 27 411 0.1− 0.5− 2000 02 11 704 0.7− 0.4− 2000 03 05 704 0.4− 0.2−

2000 MAR. 20

M.P.C. 39167

1995 UD₁₅ = 1999 VK₁₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	133.70329	(2000.0)	P		Q	
<i>n</i>	0.25623591	ω	302.59989	+0.36548670	+0.93079018	
<i>a</i>	2.4549504	Ω	348.83108	−0.84142560	+0.32715844	
<i>e</i>	0.1587820	<i>i</i>	2.07336	−0.39802314	+0.16308585	
<i>P</i>	3.85	<i>H</i>	15.7	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1995 10 17	691	0.1−	0.1+	1995 11 17	691	0.1−	0.9+	1999 11 14	704	0.2+	0.5−
1995 10 17	691	0.2+	0.4−	1995 11 17	691	0.1+	1.0+	1999 11 14	704	0.4−	0.0
1995 10 17	691	0.5+	0.2−	1995 11 17	691	0.0	0.8+	1999 11 14	704	0.1−	0.9+
1995 10 24	691	0.1−	0.3−	1995 11 28	691	0.4−	0.1−	1999 11 16	704	1.1−	0.4+
1995 10 24	691	0.1+	0.2+	1995 11 28	691	0.2−	0.1+	1999 11 16	704	0.9+	1.1−
1995 10 24	691	0.2−	1.3−	1995 11 28	691	0.4−	0.1+	1999 11 16	704	0.7+	0.8−

1995 VK₆ = 2000 CR₆₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	72.98957	(2000.0)	P		Q	
<i>n</i>	0.27601508	ω	196.92273	+0.61290199	−0.79012321	
<i>a</i>	2.3362223	Ω	215.27867	+0.72645484	+0.56720432	
<i>e</i>	0.1332254	<i>i</i>	0.74551	+0.31082876	+0.23234581	
<i>P</i>	3.57	<i>H</i>	16.8	<i>G</i> 0.15	<i>U</i> 6	

Residuals in seconds of arc

1995 11 14	691	0.3−	0.5+	2000 02 01	691	1.8+	0.3+	2000 02 03	704	1.7−	0.2+
1995 11 14	691	0.0	0.3+	2000 02 01	691	1.7+	0.5+	2000 02 03	704	0.3−	0.7+
1995 11 14	691	0.3+	0.5+	2000 02 01	691	1.6+	0.3+	2000 02 07	691	0.3+	1.7−
1995 11 16	691	0.1+	0.5−	2000 02 03	704	1.0−	0.9+	2000 02 07	691	0.5+	1.3−
1995 11 16	691	0.1−	0.5−	2000 02 03	704	1.6−	0.4+	2000 02 07	691	0.5+	1.4−
1995 11 16	691	0.1+	0.5−	2000 02 03	704	1.9−	1.2+				

1995 VZ₁₃ = 2000 EE₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	29.83151	(2000.0)	P		Q	
<i>n</i>	0.28934801	ω	44.65610	−0.48048131	−0.87066054	
<i>a</i>	2.2638921	Ω	74.32628	+0.77096341	−0.47656043	
<i>e</i>	0.1283762	<i>i</i>	6.27877	+0.41803484	−0.12182110	
<i>P</i>	3.41	<i>H</i>	16.4	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1995 11 15	691	0.1+	0.1−	2000 03 04	704	0.3+	0.4+	2000 03 09	704	0.2+	0.1+
1995 11 15	691	0.1+	0.1+	2000 03 04	704	0.3+	0.2−	2000 03 09	704	0.0	0.4−
1995 11 15	691	0.0	0.0	2000 03 04	704	0.2−	0.4−	2000 03 12	704	1.0+	0.4+
1995 11 20	691	0.2−	0.2+	2000 03 04	704	0.0	0.0	2000 03 12	704	0.1+	0.3−
1995 11 20	691	0.2−	0.0	2000 03 04	704	0.7−	0.0	2000 03 12	704	0.8−	0.5−
1995 11 28	691	0.2−	0.3+	2000 03 09	704	0.8+	0.6+	2000 03 12	704	0.9−	0.4−
1995 11 28	691	0.1+	0.4−	2000 03 09	704	0.2−	0.5+				
1995 11 28	691	0.4+	0.1−	2000 03 09	704	0.1−	0.3+				

1995 WO₄ = 2000 DA₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	83.72640	(2000.0)	P		Q	
<i>n</i>	0.27980150	ω	316.06872	+0.58909295	−0.80390595	
<i>a</i>	2.3150979	Ω	97.67175	+0.76231930	+0.51927213	
<i>e</i>	0.1975238	<i>i</i>	4.73929	+0.26802758	+0.28998565	
<i>P</i>	3.52	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1995 11 20	411	0.9−	0.9+	2000 02 11	704	0.2−	0.5−	2000 03 05	704	0.3−	0.2−
1995 11 20	411	0.3+	0.2−	2000 02 29	704	0.6+	0.3−	2000 03 05	704	0.3+	0.2+
1995 11 24	411	0.5−	0.1+	2000 02 29	704	0.6−	0.6−	2000 03 05	704	0.0	0.3−
1995 11 24	411	0.8+	0.1+	2000 02 29	704	0.4+	0.1−	2000 03 05	704	0.3−	0.7−

1995 11 28	411	0.9+	0.1−	2000 02 29	704	0.0	0.4−	2000 03 05	704	0.1+	0.7+
1995 11 28	411	0.2−	0.3−	2000 03 02	703	0.9−	1.1+	2000 03 05	704	0.5+	0.2−
1995 12 01	411	0.7−	0.1−	2000 03 02	703	0.3+	0.3+	2000 03 12	704	0.7−	0.0
1995 12 01	411	0.3+	0.3−	2000 03 02	703	0.1+	0.6+	2000 03 12	704	0.0	0.5−
1995 12 21	411	0.5−	0.8+	2000 03 02	703	(2.8−	1.4−)	2000 03 12	704	0.2−	0.5+
1995 12 21	411	0.5+	0.7−	2000 03 05	704	0.9+	0.1−	2000 03 12	704	0.2−	0.2+
2000 02 11	704	0.1+	0.0	2000 03 05	704	0.4−	0.6+	2000 03 12	704	1.1−	0.5+
2000 02 11	704	0.4+	0.3−	2000 03 05	704	1.2+	0.2−				

1995 WA₅ = 2000 DQ₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	64.61020	(2000.0)	P		Q	
<i>n</i>	0.27648662	ω	275.58313	+0.31683720	−0.94844721	
<i>a</i>	2.3335654	Ω	155.94053	+0.87768540	+0.29002929	
<i>e</i>	0.2474634	<i>i</i>	1.10737	+0.35955880	+0.12779243	
<i>P</i>	3.56	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1995 11 18	399	0.2+	0.4−	1995 12 17	411	1.1−	0.4+	2000 03 03	704	0.9+	0.3−
1995 11 18	399	1.4−	0.0	2000 02 26	703	(2.7−	0.1+)	2000 03 03	691	0.6−	0.2−
1995 11 24	411	0.3+	0.2+	2000 02 26	703	(2.4−	0.7+)	2000 03 03	691	0.6−	0.3−
1995 11 24	411	0.7+	0.3−	2000 02 26	703	(2.8−	1.3+)	2000 03 03	691	0.6−	0.1−
1995 11 25	399	(2.5−	0.4−)	2000 02 26	703	1.6+	0.4+	2000 03 11	704	0.0	0.3−
1995 11 25	399	0.8−	0.6+	2000 02 29	704	0.1+	0.4+	2000 03 11	704	0.3−	0.2−
1995 11 25	411	0.4+	0.1+	2000 02 29	704	0.4+	0.4+	2000 03 11	704	0.4+	0.5−
1995 11 25	411	0.6+	0.2−	2000 02 29	704	0.2+	0.1−	2000 03 11	704	0.1+	0.0
1995 11 29	411	(1.6−	2.3+)	2000 02 29	704	0.4−	0.4−	2000 03 11	699	0.9−	0.1+
1995 11 29	411	(2.5−	2.6+)	2000 03 03	704	0.1−	0.1−	2000 03 11	699	0.0	0.4+
1995 12 08	411	0.0	0.8+	2000 03 03	704	0.2−	0.4+	2000 03 11	699	0.1−	0.0
1995 12 08	411	1.2+	0.9−	2000 03 03	704	0.5+	0.2+	2000 03 11	699	0.8−	0.1−
1995 12 17	411	0.2−	0.2−	2000 03 03	704	0.3+	0.0				

1995 WF₂₂ = 1999 VT₁₄₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	204.62422	(2000.0)	P		Q	
<i>n</i>	0.23376911	ω	354.59224	−0.71154623	+0.61732216	
<i>a</i>	2.6098245	Ω	229.44325	−0.62696855	−0.77342772	
<i>e</i>	0.1474422	<i>i</i>	26.21198	−0.31719459	+0.14395455	
<i>P</i>	4.22	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1995 11 17	691	0.8−	0.2−	1999 11 11	703	0.5−	0.9+	1999 11 16	704	0.1+	0.1+
1995 11 17	691	0.1+	0.2−	1999 11 11	703	0.4−	0.3+	1999 11 16	704	0.3+	0.5+
1995 11 17	691	0.1+	0.2−	1999 11 11	703	0.8−	0.0	1999 11 16	704	0.7+	0.7+
1995 11 22	691	0.1+	0.1+	1999 11 11	703	0.6−	1.0+	1999 11 16	704	0.5+	0.5+
1995 11 22	691	0.1−	0.4+	1999 11 14	704	0.9+	0.3+	1999 12 12	703	1.0−	0.7−
1995 11 22	691	0.2−	0.3+	1999 11 14	704	0.8+	0.0	1999 12 12	703	0.6+	0.3+
1995 11 28	691	0.3+	0.0	1999 11 14	704	0.4+	0.0	1999 12 12	703	0.5+	0.0
1995 11 28	691	0.0	0.2−	1999 11 14	704	0.6+	0.4−	1999 12 12	703	0.7−	1.1+
1995 11 28	691	0.4+	0.2−	1999 11 14	704	0.8+	0.1−	2000 01 07	704	0.3−	0.0
1999 11 03	704	0.6−	0.2−	1999 11 14	703	0.1+	0.3+	2000 01 07	704	0.6+	1.3−
1999 11 03	704	0.4−	1.1−	1999 11 14	703	0.1−	0.2+	2000 01 07	704	0.5−	0.4−
1999 11 03	704	0.3−	0.9−	1999 11 14	703	0.2−	0.5+	2000 01 07	704	1.1+	0.1+
1999 11 03	704	0.5−	1.4−	1999 11 14	703	0.3−	0.2+	2000 01 07	704	0.4+	0.3+
1999 11 03	704	0.9−	0.9−	1999 11 16	704	0.1−	0.2+				

1995 XU = 2000 CL₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	74.82001	(2000.0)	P		Q	
<i>n</i>	0.26999488	ω	223.32506	+0.64169567	−0.76694888	
<i>a</i>	2.3708224	Ω	186.76006	+0.71264065	+0.59817268	
<i>e</i>	0.2141188	<i>i</i>	1.95186	+0.28349598	+0.23233351	
<i>P</i>	3.65	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1995 12 12	411	0.1−	0.0	2000 02 02	704	0.9−	0.3+	2000 03 03	704	0.2−	0.1+
1995 12 12	411	0.5−	0.3−	2000 02 04	704	0.7+	2.0+	2000 03 03	704	0.7−	0.5+
1995 12 14	411	1.2−	0.5+	2000 02 04	704	0.4+	0.3−	2000 03 05	704	0.5−	0.5−
1995 12 14	411	0.1+	0.0	2000 02 04	704	0.6−	0.0	2000 03 05	704	0.6+	1.0−
1995 12 20	411	1.2+	1.0−	2000 02 04	704	0.8−	0.5−	2000 03 05	704	0.2+	0.4−
1995 12 20	411	1.0+	0.1−	2000 02 29	704	0.3+	0.1−	2000 03 05	704	0.3−	0.0
1995 12 25	411	0.2+	0.0	2000 02 29	704	0.4+	0.4−	2000 03 05	704	0.2+	0.8+
1995 12 30	411	0.3+	0.1+	2000 02 29	704	0.4+	0.1+	2000 03 11	704	0.8+	0.5−
1995 12 30	411	1.0−	0.7+	2000 02 29	704	0.5+	0.2−	2000 03 11	704	0.1+	0.8−
2000 02 02	704	0.3+	0.1−	2000 02 29	704	0.1+	0.0	2000 03 11	704	0.3−	0.1+
2000 02 02	704	0.5+	0.7+	2000 03 03	704	0.5−	1.6−	2000 03 11	704	0.8−	0.6+
2000 02 02	704	0.0	0.1−	2000 03 03	704	0.9−	0.2+	2000 03 11	704	0.3+	0.2+
2000 02 02	704	0.4+	0.6+	2000 03 03	704	0.5+	0.4+				

1995 YH₁₁ = 1999 XX₁₆₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24054392	ω	14.45469	−0.99510752	−0.09710376		
<i>a</i>	2.5605885	Ω	159.94590	+0.08454992	−0.93238966		
<i>e</i>	0.1247935	<i>i</i>	3.04544	+0.05111109	−0.34816718		
<i>P</i>	4.10	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 12 18	691	0.1−	0.2+	1995 12 29	691	1.4+	0.2+	1999 12 14	704	0.2+	0.9+
1995 12 18	691	0.0	0.1+	1995 12 29	691	0.4−	0.1+	2000 01 05	704	0.3−	0.6−
1995 12 18	691	0.0	0.3+	1999 12 08	704	0.3−	0.6−	2000 01 05	704	0.8+	0.9−
1995 12 25	691	0.2−	0.1+	1999 12 08	704	1.1+	1.0−	2000 01 05	704	0.1−	0.6−
1995 12 25	691	0.2−	0.1+	1999 12 08	704	0.1+	1.0+	2000 01 05	704	0.3+	1.4−
1995 12 25	691	0.1−	0.2+	1999 12 14	704	0.6−	1.2+				
1995 12 29	691	0.1−	0.2+	1999 12 14	704	1.4−	0.6+				

1995 YM₂₃ = 2000 AT₁₃₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23378399	ω	46.02298	−0.39633288	−0.89708041		
<i>a</i>	2.6097138	Ω	68.26255	+0.77061874	−0.44071442		
<i>e</i>	0.2035609	<i>i</i>	12.14107	+0.49906613	−0.03189892		
<i>P</i>	4.22	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 12 21	566	0.6+	1.4+	1997 05 07	704	0.6−	0.0	1999 11 07	704	0.0	0.2−
1995 12 21	566	0.5+	1.3+	1999 10 02	704	0.0	0.4−	1999 11 07	704	0.3+	0.0
1995 12 21	566	0.2+	1.6+	1999 10 02	704	1.9+	0.0	1999 11 07	704	0.1+	0.1−
1995 12 24	566	0.8−	1.6−	1999 10 02	704	0.1+	0.1+	1999 11 07	704	0.6−	0.4+
1995 12 24	566	1.2−	1.8−	1999 10 02	704	0.9+	1.4−	2000 01 05	704	0.2−	0.2+
1995 12 24	566	0.9−	1.6−	1999 10 04	703	1.5−	0.4−	2000 01 05	704	1.2−	0.8−
1995 12 25	566	0.7+	0.3−	1999 10 04	703	0.4+	0.4+	2000 01 05	704	0.7−	0.8+
1995 12 25	566	0.8+	0.2−	1999 10 04	703	0.9+	0.1−	2000 01 05	704	0.3−	0.4−
1995 12 25	566	0.8+	0.4−	1999 10 04	703	0.7−	0.6−	2000 01 08	704	0.3−	0.1+
1997 05 07	704	0.3+	0.9+	1999 11 03	703	0.1+	0.4+	2000 01 08	704	1.3−	0.0
1997 05 07	704	0.3+	0.5−	1999 11 03	703	0.4−	1.1+	2000 01 08	704	0.4+	0.8+
1997 05 07	704	0.7+	0.4+	1999 11 03	703	0.1+	0.1+	2000 01 08	704	0.3+	1.4+
1997 05 07	704	0.3−	0.1−	1999 11 03	703	0.4−	0.6+	2000 01 08	704	0.3+	0.3+

1996 AN₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27908671	ω	0.36694	−0.50045165	−0.86083539		
<i>a</i>	2.3190491	Ω	119.66503	+0.79405269	−0.49884819		
<i>e</i>	0.1299640	<i>i</i>	6.09445	+0.34500505	−0.10056301		
<i>P</i>	3.53	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1988 12 11	675	0.4−	0.4−	1996 01 16	411	0.2+	0.3−	1996 03 23	566	0.3−	0.7+
1989 03 08	675	0.6−	0.1−	1996 01 25	411	1.0−	0.4+	1996 03 23	566	0.1−	0.6+
1989 03 08	675	0.6+	1.1−	1996 01 25	411	0.5+	0.3−	1996 04 08	675	0.5−	0.2−
1991 10 14	675	1.1−	0.2+	1996 01 30	411	0.2−	0.3−	1996 04 08	675	0.6−	1.5+
1991 10 14	675	1.1+	0.4−	1996 01 30	411	0.6+	0.5−	1996 05 10	327	1.0+	1.5−
1996 01 13	411	0.4+	0.1+	1996 02 12	411	0.4+	0.6+	1996 05 10	327	0.2−	0.5−
1996 01 13	411	0.3−	1.3+	1996 02 12	411	0.3+	0.1−	1996 05 10	327	0.5−	0.6−
1996 01 16	411	0.6+	1.2−	1996 03 23	566	0.7−	1.1+				

1996 AC₄ = 1988 CU₅ = 2000 CC₁₀₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24128731	ω	95.46820	−0.34581752	+0.93250481		
<i>a</i>	2.5553264	Ω	153.54790	−0.92654728	−0.32186281		
<i>e</i>	0.1292425	<i>i</i>	13.52002	−0.14805536	−0.16382647		
<i>P</i>	4.08	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1988 02 14	809	(2.8+	0.4+)	2000 01 04	699	0.7+	0.1+	2000 02 13	704	0.6−	0.7−
1988 02 14	809	0.0	2.1+	2000 01 11	704	0.2+	0.3−	2000 02 13	704	0.4+	0.1−
1988 02 14	809	(4.4−	5.1+)	2000 01 11	704	(3.1−	0.4−)	2000 02 13	704	1.5−	0.2+
1996 01 15	098	0.9−	1.0+	2000 01 11	704	0.1−	0.0	2000 03 04	104	0.7−	1.2−
1996 01 15	098	0.5−	1.9−	2000 01 11	704	0.8−	0.4+	2000 03 04	104	0.1+	0.8−
1996 01 16	098	0.6−	0.8−	2000 01 11	704	0.8−	0.7−	2000 03 05	704	0.5+	0.0
1996 01 17	098	0.1+	0.4−	2000 02 04	704	0.1+	0.1+	2000 03 05	704	0.1+	0.1−
1996 01 17	098	1.4+	1.2−	2000 02 04	704	0.1−	0.2+	2000 03 05	704	0.8+	0.3+
1996 01 18	098	0.4−	0.6−	2000 02 04	704	1.1−	1.1+	2000 03 05	704	0.0	0.5−
1996 01 19	098	(2.5+	2.2−)	2000 02 04	704	0.4−	0.2+	2000 03 05	704	0.1−	0.2−
1996 01 19	098	1.5+	1.3−	2000 02 12	704	0.3+	0.2+	2000 03 09	704	0.1+	0.2−
1999 12 16	699	1.0+	0.6+	2000 02 12	704	0.5−	0.3−	2000 03 09	704	0.3+	0.4+
1999 12 16	699	0.3−	0.9+	2000 02 12	704	0.2+	0.0	2000 03 09	704	0.4+	0.0
1999 12 16	699	1.0+	1.0+	2000 02 12	704	0.1−	0.1+	2000 03 09	704	0.4−	0.0
2000 01 04	699	0.1+	0.6+	2000 02 12	704	0.1+	0.5+	2000 03 09	704	0.3−	0.8+
2000 01 04	699	0.6+	0.0	2000 02 13	704	0.3+	0.9+				

1996 AQ₇ = 2000 DT₈

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26533362	ω	120.08084	−0.67712673	−0.73581785		
<i>a</i>	2.3985081	Ω	12.54977	+0.66104323	−0.61328416		
<i>e</i>	0.1425972	<i>i</i>	2.23008	+0.32329744	−0.28714915		
<i>P</i>	3.71	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 01 12	691	0.1+	0.5+	2000 03 02	684	0.9−	1.3−	2000 03 11	120	1.1−	1.6−
1996 01 12	691	0.3−	0.2+	2000 03 05	120	0.1−	1.4−	2000 03 11	704	0.6+	0.4+
1996 01 12	691	0.1−	0.1+	2000 03 05	120	0.5−	0.2−	2000 03 11	704	0.5+	0.7+
1996 01 18	691	0.0	0.2−	2000 03 06	120	1.4−	1.2−	2000 03 11	704	1.2+	0.9+
1996 01 18	691	0.0	0.1−	2000 03 06	120	1.2−	0.1−	2000 03 11	704	0.2−	0.4+
1996 01 18	691	0.0	0.0	2000 03 10	704	0.1+	0.4+	2000 03 11	704	0.8+	1.0+
1996 01 25	691	0.2+	0.1−	2000 03 10	704	0.7+	0.5+	2000 03 14	703	0.6+	0.5+
1996 01 25	691	0.0	0.1−	2000 03 10	704	0.3+	0.6+	2000 03 14	703	0.5+	0.8+
1996 01 25	691	0.2+	0.1+	2000 03 10	704	0.4+	0.5+	2000 03 14	703	1.3+	0.6+
2000 02 29	684	0.7−	0.7−	2000 03 10	704	0.5+	0.3+	2000 03 14	703	0.7+	0.5+
2000 02 29	684	0.2−	1.0−	2000 03 10	120	(5.0−	0.0)				
2000 03 02	684	0.9−	1.2−	2000 03 10	120	1.2−	0.2+				

2000 MAR. 20

M.P.C. 39169

1996 AZ₁₀ = 2000 DV₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26908438	ω	87.80600	−0.51304360	+0.85754921		
<i>a</i>	2.3761675	Ω	151.23032	−0.81516339	−0.47312869		
<i>e</i>	0.1112432	<i>i</i>	4.45180	−0.26887713	−0.20188757		
<i>P</i>	3.66	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1996 01 13	691	0.1+	0.0	2000 02 29	704	0.6−	0.2+
1996 01 13	691	0.2−	0.1−	2000 03 02	703	2.0−	0.8−
1996 01 13	691	0.1+	0.1−	2000 03 02	703	0.8−	1.6+
1996 01 20	691	0.3+	0.1−	2000 03 02	703	0.1+	0.3−
1996 01 20	691	0.0	0.3+	2000 03 02	703	1.4+	1.1−
1996 01 27	691	0.2−	0.0	2000 03 03	704	0.4−	0.4+
1996 01 27	691	0.1+	0.0	2000 03 03	704	0.7+	0.2−
1996 01 27	691	0.1−	0.1+	2000 03 03	704	0.6+	0.2+
2000 02 29	704	0.0	0.3+	2000 03 03	704	0.0	0.3+
2000 02 29	704	0.6+	0.6−	2000 03 03	704	0.4+	0.0

1996 BP₁ = 2000 DK₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25797428	ω	61.72018	−0.21654409	−0.97517261		
<i>a</i>	2.4439094	Ω	40.87086	+0.86907830	−0.21417271		
<i>e</i>	0.1693537	<i>i</i>	4.06061	+0.44476012	−0.05628881		
<i>P</i>	3.82	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1995 11 22	691	0.1−	0.2+	1996 02 20	411	0.5+	0.5−
1995 11 22	691	0.7+	0.1−	1996 02 20	411	0.0	0.3+
1995 11 22	691	0.4−	0.1−	2000 02 11	704	0.4−	0.0
1996 01 23	411	0.3+	0.6+	2000 02 11	704	0.2+	0.3−
1996 01 23	411	0.2−	0.4+	2000 02 11	704	0.4−	0.2+
1996 01 24	411	0.1−	0.3+	2000 02 11	704	0.7+	0.1+
1996 01 24	411	0.8−	0.1−	2000 02 16	703	0.1+	0.5−
1996 01 25	411	0.1+	0.2+	2000 02 16	703	0.4+	0.1+
1996 01 25	411	0.6−	0.3−	2000 02 16	703	0.2−	0.1+
1996 01 27	411	1.0−	0.6+	2000 02 16	703	0.1+	0.3−
1996 01 27	411	0.4+	0.8+	2000 02 26	703	0.0	0.6−
1996 01 30	411	0.2+	0.3−	2000 02 26	703	1.3+	0.7−
1996 01 30	411	0.6−	0.2−	2000 02 26	703	0.9−	0.5−
1996 02 12	411	1.4+	0.9−	2000 02 26	703	0.5+	0.2+
1996 02 12	411	0.5+	0.8−	2000 03 02	703	0.5−	0.1+

1996 BL₃ = 2000 DC₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26087256	ω	25.46843	−0.99921003	+0.01845690		
<i>a</i>	2.4257746	Ω	155.51169	−0.02892081	−0.94511777		
<i>e</i>	0.1320333	<i>i</i>	4.87069	+0.02725637	−0.32620814		
<i>P</i>	3.78	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1995 11 21	691	0.6+	0.2−	2000 01 08	704	0.2−	0.5+
1995 11 21	691	0.1+	0.1+	2000 01 08	704	0.6−	0.3+
1995 11 21	691	0.0	0.3+	2000 01 08	704	0.8+	0.3−
1996 01 27	411	0.9−	0.8+	2000 01 08	704	0.4−	0.1+
1996 01 27	411	0.3−	0.6+	2000 01 08	704	0.3+	0.6+
1996 01 30	411	0.7−	0.4−	2000 02 11	704	0.9+	0.1−
1996 01 30	411	0.2+	0.1−	2000 02 11	704	0.5+	1.5+
1996 01 31	411	0.7+	0.3−	2000 02 11	704	0.1+	1.6+
1996 01 31	411	0.5−	0.8−	2000 02 26	703	0.5−	0.3+
1996 02 12	411	1.2−	1.0−	2000 02 26	703	1.0+	0.1−
1996 02 12	411	0.5−	0.3−	2000 02 26	703	0.5+	1.1+

1996 02 19	411	0.8+	0.9−	2000 02 26	703	0.1−	0.0	2000 03 11	704	0.4+	0.1−
1996 02 19	411	1.0+	1.9−	2000 02 29	704	0.3−	0.1−	2000 03 11	704	0.1+	0.1−
1998 11 11	704	0.3+	0.2−	2000 02 29	704	0.3+	0.2+	2000 03 11	699	0.4−	0.1−
1998 11 11	704	0.9−	1.3+	2000 02 29	704	0.4−	1.5+	2000 03 11	704	0.0	0.1−
1998 11 11	704	0.5−	0.2−	2000 03 02	703	0.1−	0.0	2000 03 11	699	0.7−	0.1+
1998 11 11	704	0.4+	1.2+	2000 03 02	703	0.1+	0.1−				

1996 BX₄ = 2000 EP₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27238784	ω	286.61777	+0.96354063	−0.25518536		
<i>a</i>	2.3569167	Ω	88.22174	+0.26574098	+0.87770022		
<i>e</i>	0.0972151	<i>i</i>	4.61584	+0.03116397	+0.40561406		
<i>P</i>	3.62	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1996 01 16	691	0.1+	0.0	1998 11 18	704	0.2+	1.2−
1996 01 16	691	0.3−	0.1+	1998 11 18	704	0.5−	1.8−
1996 01 16	691	0.1−	0.0	1998 11 18	704	1.8+	0.0
1996 01 24	691	0.0	0.1−	1998 11 23	699	0.2+	0.8+
1996 01 24	691	0.1+	0.0	1998 11 23	699	0.5+	0.2−
1996 01 24	691	0.3+	0.2−	1998 11 23	699	0.6−	1.1+
1996 01 29	691	0.0	0.1+	1998 11 24	704	0.4+	1.0+
1996 01 29	691	0.3−	0.0	1998 11 24	704	0.2+	0.6+
1996 01 29	691	0.0	0.2−	1998 11 24	704	0.0	0.2+
1998 11 18	704	1.7−	0.7+	1998 11 24	704	0.8−	0.1−

1996 CF₈ = 2000 CO₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24086863	ω	344.03633	−0.68699099	−0.72473114		
<i>a</i>	2.5582867	Ω	149.29629	+0.67754239	−0.66520136		
<i>e</i>	0.2219236	<i>i</i>	5.95712	+0.26263986	−0.17964389		
<i>P</i>	4.09	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1996 02 10	327	1.1−	0.5+	2000 01 07	704	0.3+	0.5−
1996 02 10	327	0.4+	1.1−	2000 01 30	703	0.3−	0.2+
1996 02 10	327	1.6−	0.1−	2000 01 30	703	0.4−	0.1+
1996 02 10	327	0.2−	1.0+	2000 01 30	703	0.6−	0.2+
1996 02 12	327	0.8−	0.6+	2000 01 30	703	0.7+	0.2+
1996 02 12	327	0.5−	0.4+	2000 02 02	704	0.2−	0.4−
1996 02 12	327	0.8−	0.5+	2000 02 02	704	0.1+	0.0
1996 02 15	566	1.5+	1.2−	2000 02 02	704	0.1+	0.4+
1996 02 15	566	1.0+	1.4−	2000 02 02	704	0.2+	0.5+
1996 02 15	566	1.4+	1.2−	2000 02 02	704	0.5−	0.5+
1999 12 06	704	(2.4−	1.0−)	2000 02 03	704	0.0	0.1+
1999 12 06	704	0.6−	0.2−	2000 02 03	704	0.2−	0.5+
1999 12 06	704	0.8+	0.6−	2000 02 03	704	0.3−	0.5+
1999 12 06	704	0.4+	0.9+	2000 02 03	704	0.3−	0.6+
1999 12 31	699	0.5−	0.1+	2000 02 03	704	0.8−	0.6+
1999 12 31	699	0.1−	0.1−	2000 02 11	704	0.4+	0.1+
1999 12 31	699	0.2+	0.1+	2000 02 11	704	0.1−	0.4−
2000 01 07	704	0.4+	0.9−	2000 02 11	704	(0.7+	2.0−)
2000 01 07	704	0.0	0.5−	2000 02 11	704	1.6−	0.5−
2000 01 07	704	0.4+	1.2−	2000 02 11	704	0.2+	0.8−

1996 DX₂ = 2000 DZ₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24376698	ω	95.02154	−0.99687804	−0.02623738		
<i>a</i>	2.5379680	Ω	83.48902	−0.00614394	−0.91453677		
<i>e</i>	0.1518728	<i>i</i>	4.29854	+0.07871733	−0.40365097		
<i>P</i>	4.04	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 02 26	966	0.7−	0.1−	2000 02 06	703	0.7−	0.1+	2000 03 04	704	0.2+	0.0
1996 02 26	966	1.3+	0.0	2000 02 06	703	0.4−	0.3+	2000 03 04	704	0.3−	0.1+
1996 02 26	966	0.6−	0.8−	2000 02 11	704	0.2−	0.2−	2000 03 04	704	0.2+	0.2−
1996 02 27	966	(2.8−	0.4+)	2000 02 11	704	0.5−	0.3−	2000 03 04	704	0.0	0.3−
1996 02 27	966	0.0	0.7−	2000 02 11	704	0.4−	0.4+	2000 03 04	704	0.1−	0.2−
1996 02 27	966	0.4−	0.1+	2000 02 11	704	0.8+	0.0	2000 03 05	704	0.0	0.0
1996 03 10	966	1.0−	0.5−	2000 02 11	704	0.2+	0.7+	2000 03 05	704	0.8+	0.5−
1996 03 10	966	1.0+	1.1+	2000 02 28	704	1.1+	0.9+	2000 03 05	704	0.3−	0.4−
2000 02 03	704	0.5+	0.5−	2000 02 28	704	0.6−	0.4+	2000 03 05	704	0.4−	0.5−
2000 02 03	704	0.6+	0.4+	2000 02 28	704	0.1−	0.0	2000 03 05	704	0.0	0.2−
2000 02 03	704	0.1+	0.3−	2000 02 28	704	0.4−	0.0	2000 03 11	699	0.4+	1.0+
2000 02 03	704	0.2+	0.2−	2000 02 29	704	0.1−	0.3+	2000 03 11	699	0.3−	0.1+
2000 02 03	704	0.0	0.3−	2000 02 29	704	0.0	0.2−	2000 03 11	699	0.0	0.5+
2000 02 06	703	0.2−	0.1−	2000 02 29	704	0.0	0.2+	2000 03 11	699	0.1+	0.1+
2000 02 06	703	0.2−	0.1−	2000 02 29	704	0.2+	0.5+				

1996 EC₁ = 2000 EX₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	297.10672		(2000.0)		P		Q
<i>n</i>	0.24627338	ω	228.97844	−0.46970564			+0.88279014
<i>a</i>	2.5207188	Ω	13.01270	−0.79946893			−0.42167648
<i>e</i>	0.0638935	<i>i</i>	1.94123	−0.37446769			−0.20705195
<i>P</i>	4.00	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 03 15	566	0.2−	0.3+	2000 02 08	704	0.7+	0.5−	2000 03 11	704	0.1−	0.0
1996 03 15	566	0.7−	0.2+	2000 02 08	704	0.1−	0.4+	2000 03 11	704	0.3+	0.0
1996 03 15	566	0.3+	0.2+	2000 02 27	703	0.3−	0.7+	2000 03 11	704	0.0	0.4−
1996 03 17	566	0.6−	0.8−	2000 02 27	703	0.1−	0.9+	2000 03 11	704	0.0	0.5−
1996 03 17	566	0.8−	0.9−	2000 02 27	703	1.0−	0.5+	2000 03 11	704	0.1+	0.9−
1996 03 17	566	0.7−	1.0−	2000 02 27	703	1.2+	0.4+	2000 03 14	703	0.1−	0.5+
1996 03 18	566	1.0+	1.9−	2000 03 06	120	0.2+	0.5+	2000 03 14	703	0.9+	0.5+
1996 03 18	566	1.1+	1.5−	2000 03 06	120	(2.3−	0.1+)	2000 03 14	703	0.5+	0.9+
1996 03 18	566	0.2+	1.6−	2000 03 08	704	0.6−	0.5−	2000 03 14	703	1.0+	0.5+
1996 03 19	566	0.7−	0.3+	2000 03 08	704	(2.1+	0.6+)	2000 03 15	704	0.5+	0.4+
1996 03 19	566	0.5−	0.6+	2000 03 08	704	0.1−	0.3−	2000 03 15	704	0.2+	0.2+
1996 03 19	566	1.0−	0.5+	2000 03 08	704	0.1+	0.5+	2000 03 15	704	1.0+	0.8+
2000 01 08	704	0.2−	0.0	2000 03 10	120	0.5−	0.3−	2000 03 15	704	1.0+	0.6+
2000 01 08	704	0.1−	1.0−	2000 03 10	120	0.3−	0.1−	2000 03 15	704	0.0	1.4+
2000 01 08	704	0.4−	0.7−	2000 03 10	120	0.4−	0.0				
2000 02 08	704	0.2−	1.0+	2000 03 10	120	0.5−	0.1−				

1996 ET₁ = 1993 RN₁₇ = 2000 EK₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	270.17217		(2000.0)		P		Q
<i>n</i>	0.23638629	ω	267.63240	−0.06127251			+0.99811167
<i>a</i>	2.5905255	Ω	358.82812	−0.81072914			−0.05230054
<i>e</i>	0.1615782	<i>i</i>	12.23108	−0.58220610			−0.03221409
<i>P</i>	4.17	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 15	809	1.4+	1.9−	1996 03 18	566	1.1−	0.8−	2000 03 05	704	0.0	0.0
1993 09 15	809	0.7−	1.1−	1996 03 18	566	0.3−	0.1−	2000 03 05	704	0.1−	0.2−
1993 09 15	809	1.3−	1.6−	1996 03 19	566	0.5−	0.5−	2000 03 11	699	0.0	0.0
1993 09 22	809	1.5+	0.4+	1996 03 19	566	0.5−	0.5−	2000 03 11	699	0.1+	0.1−
1993 09 22	809	1.8+	0.2+	1996 03 19	566	0.8−	0.7−	2000 03 11	699	0.2−	0.1−
1993 09 22	809	0.5+	0.3−	1996 03 19	566	0.2−	0.5−	2000 03 11	699	0.2−	0.2+
1996 03 15	566	1.6+	1.5+	1996 03 19	566	0.2−	0.5−	2000 03 12	704	0.2+	0.2+
1996 03 15	566	1.5+	0.9+	1996 03 19	566	0.1−	0.4−	2000 03 12	704	0.0	0.1+
1996 03 15	566	1.6+	1.4+	1996 03 20	098	1.2−	0.7−	2000 03 12	704	0.0	0.1−
1996 03 18	566	0.9−	1.1−	1996 03 20	098	0.5−	1.3−	2000 03 12	704	0.1+	0.2−
1996 03 18	566	0.2−	0.1+	2000 03 05	704	0.1+	0.1+	2000 03 12	704	0.4+	0.0
1996 03 18	566	1.0−	1.1−	2000 03 05	704	0.3−	0.2+				
1996 03 18	566	0.3−	0.0	2000 03 05	704	0.0	0.1−				

1996 EC₆ = 2000 CQ₅₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	39.32416		(2000.0)		P		Q
<i>n</i>	0.24263780	ω	286.66074	−0.18924964			−0.98185972
<i>a</i>	2.5458359	Ω	174.21043	+0.93921592			−0.18447018
<i>e</i>	0.2019165	<i>i</i>	6.64015	+0.28645772			−0.04384336
<i>P</i>	4.06	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 03 11	691	0.1−	0.1−	2000 02 06	704	0.2−	0.3+	2000 03 11	704	0.7−	1.6+
1996 03 11	691	0.2−	0.3−	2000 02 29	704	0.3−	0.2−	2000 03 11	704	0.5−	0.6−
1996 03 11	691	0.2−	0.0	2000 02 29	704	0.3−	0.0	2000 03 11	704	0.1−	0.0
1996 03 18	691	0.3+	0.1+	2000 02 29	704	0.3−	0.3−	2000 03 11	699	0.5−	0.5−
1996 03 18	691	0.3+	0.1+	2000 02 29	704	0.3−	0.0	2000 03 11	704	0.5+	0.4−
1996 03 18	691	0.2−	0.2−	2000 02 29	704	0.4+	0.3+	2000 03 11	704	0.2−	0.3−
2000 02 02	704	0.2−	0.4−	2000 03 03	704	(0.0	2.7+)	2000 03 11	699	0.8−	0.1−
2000 02 02	704	(0.3−	2.6−)	2000 03 03	704	1.0+	0.2−	2000 03 11	699	0.1+	0.4+
2000 02 02	704	0.2−	0.3−	2000 03 03	704	1.3+	0.0	2000 03 11	699	0.9−	1.2+
2000 02 06	704	0.1+	0.2+	2000 03 03	704	0.4+	0.3+				
2000 02 06	704	0.0	0.1+	2000 03 03	704	1.5+	0.6−				

1996 EB₁₂ = 2000 AL₁₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler

<i>M</i>	58.89584		(2000.0)		P		Q
<i>n</i>	0.22881185	ω	87.54636	+0.67401697			−0.72679015
<i>a</i>	2.6473846	Ω	319.02355	+0.57195862			+0.62669842
<i>e</i>	0.2601744	<i>i</i>	11.63075	+0.46750878			+0.28111415
<i>P</i>	4.31	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1996 03 13	691	0.1−	0.1−	1996 03 27	691	0.4+	0.4+	2000 01 04	704	0.3−	0.1−
1996 03 13	691	0.1+	0.4−	1996 03 27	691	0.2+	0.0	2000 01 04	704	0.4+	0.1+
1996 03 13	691	0.0	0.2−	1996 03 27	691	0.2+	0.1−	2000 01 04	704	0.9+	0.0
1996 03 19	691	0.2−	0.1+	2000 01 03	704	0.8−	0.2+	2000 01 04	704	0.3−	0.0
1996 03 19	691	0.4−	0.2+	2000 01 03	704	1.8−	0.0	2000 01 04	704	1.4+	0.3+
1996 03 19	691	0.2−	0.1+	2000 01 03	704	0.5+	0.5−				

1996 FM₂ = 2000 EW₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	8.73218		(2000.0)		P		Q
<i>n</i>	0.25196058	ω	354.13605	−0.93691509			−0.34923232
<i>a</i>	2.4826433	Ω	165.39618	+0.32309132			−0.88162296
<i>e</i>	0.1354916	<i>i</i>	3.42505	+0.13342455			−0.31745509
<i>P</i>	3.91	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 02 15	691	0.5+	0.1+	2000 02 27	703	0.2−	0.0	2000 03 11	704	0.3+	0.3+
1996 02 15	691	0.4+	0.1+	2000 02 29	704	0.3+	0.4+	2000 03 11	704	0.3+	0.3+
1996 02 15	691	0.2+	0.1+	2000 02 29	704	0.2+	0.7+	2000 03 11	704	0.7+	1.0+
1996 03 17	566	0.4−	0.3+	2000 02 29	704	1.0+	0.7+	2000 03 11	704	0.7+	0.6+
1996 03 17	566	0.6−	0.4+	2000 03 02	120	0.3+	1.7−	2000 03 11	704	1.1+	0.7+
1996 03 17	566	0.6−	0.0	2000 03 05	120	1.3−	0.2−	2000 03 14	120	0.5−	0.2+
1996 03 23	566	0.3−	0.3+	2000 03 05	120	0.0	0.7−	2000 03 14	120	0.6−	0.4−
1996 03 23	566	0.5−	0.4+	2000 03 05	120	(2.0−	1.0−)	2000 03 14	703	0.1+	0.4+
1996 03 23	566	0.2−	0.0	2000 03 05	120	0.0	0.8−	2000 03 14	703	1.0−	0.3+
1996 03 26	566	0.3+	0.7−	2000 03 05	120	0.4−	0.5−	2000 03 14	703	0.1+	0.2+
1996 03 26	566	0.9+	0.2−	2000 03 06	120	1.9−	0.2−	2000 03 14	703	0.3−	0.0
1996 03 26	566	0.6+	0.7−	2000 03 06	120	0.7−	0.6−	2000 03 15	704	(2.9+	0.7−)
2000 02 27	012	0.5−	1.9−	2000 03 08	704	0.2+	0.6−	2000 03 15	704	0.6+	0.5−
2000 02 27	012	(0.3−	2.3−)	2000 03 08	704	0.5−	0.1−	2000 03 15	704	0.7+	0.2+
2000 02 27	703	0.5+	0.7+	2000 03 08	704	0.0	0.8−	2000 03 15	704	1.3+	0.1−
2000 02 27	703	0.1−	0.8+	2000 03 08	704	1.3−	0.6+	2000 03 15	704	1.1+	0.5+
2000 02 27	703	0.2+	0.5+	2000 03 08	704	0.4−	0.0				

2000 MAR. 20

M.P.C. 39171

1996 FB₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	16.38799	(2000.0)	P		Q	
<i>n</i>	0.28494608	ω 56.42909	−0.54487931	+0.83850478		
<i>a</i>	2.2871479	Ω 180.60043	−0.83839773	−0.54487741		
<i>e</i>	0.2714457	<i>i</i> 22.63444	−0.01399205	−0.00428313		
<i>P</i>	3.46	<i>H</i> 15.7	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

1996 07 05	675	0.2+	0.5+	1996 04 18	704	0.3−	0.3−	1996 05 21	704	1.2−	0.7+
1990 09 01	675	0.5−	0.6−	1996 04 18	704	0.4−	0.4−	1996 05 21	704	1.7−	1.0+
1990 09 01	675	0.1−	0.5−	1996 04 19	704	0.0	0.6+	1996 06 19	704	0.3+	0.2+
1996 03 21	704	0.7+	0.4+	1996 04 19	704	0.3−	0.3+	1996 06 19	704	0.7−	0.9−
1996 03 21	704	0.8+	0.6+	1996 04 19	704	0.2−	0.4+	1996 06 20	704	0.2+	0.7+
1996 03 21	704	0.5+	0.4+	1996 04 19	704	0.1−	0.0	1996 06 20	704	0.3−	0.7+
1996 03 21	704	0.3+	0.4+	1996 04 19	704	0.1−	0.3−	1996 06 20	704	0.3−	0.9+
1996 03 22	704	0.7+	0.3−	1996 04 21	675	0.3−	0.2+	1996 06 21	704	0.7−	0.6−
1996 03 22	704	0.7+	0.5−	1996 04 21	675	0.5−	1.1−	1996 06 21	704	0.4+	0.5+
1996 03 22	704	0.5+	0.7−	1996 05 09	675	0.5−	0.0	1996 07 15	704	0.4−	0.3+
1996 03 22	704	0.7+	0.3−	1996 05 09	675	0.3−	0.6+	1996 07 15	704	0.2−	0.1+
1996 03 23	704	0.4+	0.5−	1996 05 12	675	1.1−	0.8−	1996 07 15	704	0.7+	0.8−
1996 03 23	704	0.4+	0.1−	1996 05 12	675	0.2+	0.8+	1996 07 18	704	1.1+	0.6−
1996 03 23	704	0.4+	0.0	1996 05 19	704	0.0	0.1−	1996 07 18	704	0.8+	1.1−
1996 03 24	704	0.3+	0.2−	1996 05 19	704	0.3−	0.0	1996 07 18	704	0.0	0.6−
1996 03 24	704	0.2+	0.5−	1996 05 19	704	0.1+	0.2−	1996 07 18	704	0.0	0.3−
1996 03 24	704	0.1+	0.2+	1996 05 19	704	0.2+	0.2−	1996 07 20	704	1.0+	0.0
1996 03 24	704	0.2−	0.1+	1996 05 19	704	0.2+	0.3−	1996 07 20	704	0.1+	0.1−
1996 04 18	704	0.3−	0.2−	1996 05 21	704	0.1−	0.2+	1996 07 20	704	0.1+	0.2−
1996 04 18	704	0.1−	0.1+	1996 05 21	704	(2.5−	0.3+)	1996 07 20	704	0.2+	0.5−
1996 04 18	704	0.5−	0.3−	1996 05 21	704	1.8−	0.8+				

1996 GK = 2000 EX₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	40.33015	(2000.0)	P		Q	
<i>n</i>	0.24765728	ω 304.33393	−0.71274900	−0.70139526		
<i>a</i>	2.5113196	Ω 191.13096	+0.65299296	−0.66050288		
<i>e</i>	0.0703998	<i>i</i> 1.71929	+0.25610360	−0.26791907		
<i>P</i>	3.98	<i>H</i> 15.7	<i>G</i> 0.15	<i>U</i> 6		

Residuals in seconds of arc

1996 04 11	684	0.3−	0.2−	1996 04 14	684	0.1+	0.4−	1996 05 10	684	0.2+	0.5−
1996 04 11	684	0.4−	0.0	1996 04 17	684	0.1+	0.5−	1996 05 10	684	0.3+	0.1−
1996 04 12	684	0.1+	0.1−	1996 04 17	684	0.2+	0.7−	1996 05 10	684	0.6+	0.3+
1996 04 12	684	0.4−	0.1−	1996 05 07	684	0.2−	0.2+	2000 03 09	704	0.4+	0.1+
1996 04 12	684	0.1−	0.1−	1996 05 07	684	0.2−	0.7+	2000 03 09	704	0.5+	0.2−
1996 04 13	684	0.0	0.3−	1996 05 08	684	0.2+	0.5+	2000 03 09	704	0.5+	0.3+
1996 04 13	684	0.0	0.2−	1996 05 08	684	0.2−	0.6+	2000 03 10	704	0.3+	0.1+
1996 04 13	684	0.3−	0.1−	1996 05 09	684	0.1−	0.3+	2000 03 10	704	0.5−	0.6+
1996 04 14	684	0.0	0.3−	1996 05 09	684	0.0	0.1+	2000 03 10	704	0.7−	0.4+

1996 GP₄ = 2000 DU₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	226.55699	(2000.0)	P		Q	
<i>n</i>	0.21600216	ω 171.53715	+0.11410519	+0.99120307		
<i>a</i>	2.7510427	Ω 104.99509	−0.91550533	+0.13112129		
<i>e</i>	0.0103086	<i>i</i> 3.98066	−0.38578491	−0.01799143		
<i>P</i>	4.56	<i>H</i> 14.3	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

1996 04 11	691	1.2−	0.2−	2000 02 05	695	0.2+	0.2−	2000 03 04	704	0.3+	0.8+
1996 04 11	691	1.1−	0.4−	2000 02 05	695	0.3+	0.1−	2000 03 04	704	0.3+	0.5−
1996 04 11	691	0.7−	0.1−	2000 02 28	704	0.0	0.3−	2000 03 04	704	0.6+	0.1−
1996 04 15	691	0.2+	0.2+	2000 02 28	704	0.7+	0.1+	2000 03 05	120	0.7+	0.5−
1996 04 15	691	0.2+	0.0	2000 02 28	704	0.3−	0.4+	2000 03 05	120	0.7+	0.7−
1996 04 15	691	0.0	0.1+	2000 02 28	704	0.3+	0.2−	2000 03 05	120	1.5−	0.8+

1996 04 21	691	0.9+	0.0	2000 02 28	704	0.2−	0.8+	2000 03 06	120	1.3+	0.6−
1996 04 21	691	1.0+	0.4+	2000 03 04	704	0.7−	0.2+	2000 03 06	120	1.6−	0.2+
1996 04 21	691	0.8+	0.0	2000 03 04	704	0.7−	0.2−	2000 03 06	120	0.1−	0.1+

1996 GP₆ = 2000 DD₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	281.45904	(2000.0)	P		Q	
<i>n</i>	0.22249552	ω 135.87403	−0.63208066	+0.77307681		
<i>a</i>	2.6972541	Ω 94.84907	−0.72491805	−0.56567453		
<i>e</i>	0.0207502	<i>i</i> 3.05839	−0.27380258	−0.28699228		
<i>P</i>	4.43	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

1996 04 12	691	0.0	0.5−	1998 11 11	704	(5.7−	1.7−)	2000 03 05	704	0.3−	0.3−
1996 04 12	691	0.2+	0.5−	2000 02 11	704	0.4+	0.8−	2000 03 05	704	0.2−	0.3−
1996 04 12	691	0.3+	0.6−	2000 02 11	704	1.1+	0.7−	2000 03 05	704	0.7−	0.2−
1996 04 18	691	0.8−	0.0	2000 02 11	704	0.0	0.4−	2000 03 09	704	0.3+	0.8+
1996 04 18	691	0.6−	0.2+	2000 02 11	704	0.5+	0.9−	2000 03 09	704	0.5−	0.0
1996 04 18	691	0.5−	0.2+	2000 02 11	704	0.2+	0.0	2000 03 09	704	0.2−	0.7+
1996 04 23	691	0.2+	0.3−	2000 02 28	704	(1.0+	2.4+)	2000 03 09	704	0.2−	0.1−
1996 04 23	691	0.3+	0.0	2000 02 28	704	0.4+	0.9+	2000 03 09	704	0.4+	0.0
1996 04 23	691	0.3+	0.2−	2000 02 28	704	0.4+	0.9+	2000 03 11	699	0.2+	0.4+
1998 11 11	704	0.0	0.1+	2000 02 28	704	(2.7−	0.9+)	2000 03 11	699	0.2−	0.1+
1998 11 11	704	0.3−	0.2−	2000 02 28	704	(1.7−	2.3+)	2000 03 11	699	0.3−	0.3+
1998 11 11	704	0.4+	0.4−	2000 03 05	704	0.7−	0.3+	2000 03 11	699	0.8−	0.1−
1998 11 11	704	0.3+	0.6−	2000 03 05	704	0.2+	0.4+				

1996 HO₁₄ = 2000 ET₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	282.78453	(2000.0)	P		Q	
<i>n</i>	0.23236883	ω 224.98993	+0.03663092	+0.99829682		
<i>a</i>	2.6202987	Ω 47.16637	−0.89857405	+0.05278564		
<i>e</i>	0.1086552	<i>i</i> 3.54982	−0.43729035	−0.02484223		
<i>P</i>	4.24	<i>H</i> 14.6	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

1996 04 17	809	0.1+	0.3−	1996 05 19	809	0.6+	0.5−	2000 03 08	704	0.7−	0.2−
1996 04 17	809	0.5−	1.0−	1996 05 19	809	1.1+	0.2−	2000 03 08	704	0.8+	0.0
1996 04 17	809	0.1+	0.3−	1996 05 22	809	0.3+	0.4−	2000 03 10	704	0.0	0.3+
1996 04 18	809	0.4−	1.2+	1996 05 22	809	0.8−	0.2−	2000 03 10	704	0.5+	0.4−
1996 04 18	809	0.3−	0.8+	1996 05 22	809	1.6−	1.1+	2000 03 10	704	0.0	0.5+
1996 04 18	809	0.5+	0.2−	2000 03 08	704	0.1−	0.1−	2000 03 10	704	0.5−	0.3−
1996 05 19	809	0.9+	0.2+	2000 03 08	704	0.1−	0.6−	2000 03 10	704	0.2+	0.7+

1996 HE₂₅ = 2000 EP₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	297.85200	(2000.0)	P		Q	
<i>n</i>	0.22822953	ω 70.25022	−0.25647916	+0.96653520		
<i>a</i>	2.6518858	Ω 184.89774	−0.90843213	−0.24292845		
<i>e</i>	0.1599030	<i>i</i> 3.56285	−0.33010528	−0.08243469		
<i>P</i>	4.32	<i>H</i> 14.6	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

1996 04 20	809	0.8+	1.0+	1996 05 24	809	(0.2+	2.9+)	2000 03 10	704	0.0	0.5+
1996 04 20	809	0.8+	0.4+	1996 05 24	809	(0.7+	2.5+)	2000 03 11	704	0.2−	0.0
1996 04 20	809	0.8+	0.7+	1996 05 24	809	(0.1−	3.3+)	2000 03 11	704	0.0	0.1−
1996 04 21	809	1.5−	0.4−	2000 03 08	704	1.0+	0.7+	2000 03 11	704	0.3−	0.2+
1996 04 21	809	0.8−	0.2+	2000 03 08	704	0.5+	0.2−	2000 03 11	704	0.2−	0.1+
1996 04 21	809	1.1−	0.5−	2000 03 08	704	1.5+	0.4+	2000 03 11	704	0.3+	0.5+
1996 05 12	691	0.4+	0.2+	2000 03 08	704	0.3+	0.6−	2000 03 14	703	0.5−	0.3−
1996 05 12	691	0.5+	0.2+	2000 03 08	704	0.1−	0.7−	2000 03 14	703	0.3−	0.4

1996 JO₉ = 2000 AX₆₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	44.56065		(2000.0)	P		Q	
<i>n</i>	0.19654519	ω	6.15362	−0.03610749	−0.99770485		
<i>a</i>	2.9297311	Ω	85.92575	+0.91441770	−0.05610859		
<i>e</i>	0.0559507	<i>i</i>	3.29217	+0.40315818	+0.03790591		
<i>P</i>	5.01	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 07 20	413	0.8−	0.4−	2000 01 04	704	0.0	0.8−	2000 02 11	704	0.5+	0.8−
1977 07 20	413	1.5+	0.7−	2000 01 04	704	0.1+	0.6+	2000 02 11	704	0.4+	0.2−
1991 04 20	413	1.6−	0.5−	2000 01 04	704	0.3+	0.9+	2000 02 11	046	0.0	0.2−
1991 04 20	413	(3.1−	1.4+)	2000 01 04	704	0.0	0.1−	2000 02 11	046	0.4+	0.3−
1996 04 20	809	(3.8+	0.4−)	2000 01 04	704	1.6+	0.5+	2000 02 11	046	0.1−	0.2−
1996 04 20	809	(2.8+	0.9+)	2000 01 06	704	0.9+	1.3−	2000 02 11	046	0.1+	0.5−
1996 04 20	809	(3.0+	1.2−)	2000 01 06	704	1.1+	1.8−	2000 02 11	046	0.1+	0.4−
1996 05 13	691	0.3−	0.2−	2000 01 06	704	0.3+	1.2−	2000 02 12	046	0.5−	1.8−
1996 05 13	691	0.3−	0.5−	2000 01 06	704	0.0	0.1+	2000 02 12	046	1.5−	1.1−
1996 05 13	691	0.5−	0.3−	2000 01 30	703	0.8−	0.0	2000 02 12	046	1.7−	0.0
1996 05 20	691	0.9+	0.4+	2000 01 30	703	1.3−	1.4+	2000 02 26	703	0.2−	0.5−
1996 05 20	691	0.8+	0.2−	2000 01 30	703	0.9−	0.8+	2000 02 26	703	1.1−	0.7+
1996 05 20	691	0.6+	0.1+	2000 01 30	703	1.3−	0.3−	2000 02 26	703	0.0	0.6+
1996 05 22	809	0.9−	0.2+	2000 02 03	704	0.2+	0.6−	2000 02 26	703	1.5+	0.9−
1996 05 22	809	1.2+	1.6+	2000 02 03	704	0.2+	0.6+	2000 03 04	704	0.2−	1.3+
1996 05 22	809	0.3+	0.7+	2000 02 03	704	0.1−	0.3+	2000 03 04	704	0.8+	2.0+
1998 11 11	704	1.4−	0.7+	2000 02 03	704	0.0	1.1+	2000 03 04	704	0.5+	0.8+
1998 11 11	704	0.4+	0.1+	2000 02 03	704	0.4−	0.4+	2000 03 04	704	0.1−	0.3+
1998 11 11	704	0.2−	0.5−	2000 02 11	704	0.6+	0.0				
1998 11 11	704	0.2+	1.1+	2000 02 11	704	0.7+	0.4−				

1996 KC₁

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	323.19108		(2000.0)	P		Q	
<i>n</i>	0.22316685	ω	79.14911	−0.68204024	+0.72014420		
<i>a</i>	2.6918422	Ω	146.68514	−0.72818897	−0.65267122		
<i>e</i>	0.1035635	<i>i</i>	13.40503	−0.06754213	−0.23539885		
<i>P</i>	4.42	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 05 20	599	0.8−	0.5+	1996 06 07	658	0.4−	0.1−	2000 03 12	703	0.3−	0.3+
1996 05 21	599	0.6+	0.6+	1996 06 12	658	0.0	0.2−	2000 03 12	703	0.8−	0.3+
1996 05 21	599	0.4−	0.4+	1996 06 12	658	0.0	0.2+	2000 03 12	703	0.1+	0.3+
1996 05 22	599	0.2−	0.2−	1996 06 12	658	0.5+	0.1+	2000 03 15	699	0.2−	0.4+
1996 05 22	599	0.5+	0.3−	2000 03 11	699	0.2+	0.2−	2000 03 15	699	0.3−	0.4−
1996 05 23	599	0.5+	0.4−	2000 03 11	699	0.2+	0.4−	2000 03 15	699	0.2−	0.0
1996 05 23	599	0.6+	0.4−	2000 03 11	699	0.6+	0.1+	2000 03 15	699	0.5−	0.1−
1996 06 07	658	0.6−	0.1−	2000 03 11	699	0.2+	0.4−				
1996 06 07	658	0.2−	0.3−	2000 03 12	703	0.9+	0.1+				

1996 ND₅ = 2000 DZ₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	249.27270		(2000.0)	P		Q	
<i>n</i>	0.17503341	ω	349.43360	+0.39681735	+0.91787242		
<i>a</i>	3.1651096	Ω	303.94545	−0.84155576	+0.36084710		
<i>e</i>	0.1808109	<i>i</i>	0.46949	−0.36649678	+0.16522586		
<i>P</i>	5.63	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 07 14	809	0.6−	0.5+	2000 03 03	704	1.0+	0.7+	2000 03 10	691	0.0	0.5−
1996 07 14	809	0.2+	0.5+	2000 03 03	691	0.0	0.5−	2000 03 10	691	0.1+	0.4−
1996 07 14	809	0.2−	0.6+	2000 03 03	691	0.1−	0.7−	2000 03 10	704	0.1−	0.5−
1996 07 15	809	0.6+	0.6−	2000 03 03	691	0.2−	0.4−	2000 03 11	704	0.3+	0.6+
1996 07 15	809	0.1−	0.6+	2000 03 03	620	0.3−	1.1+	2000 03 11	704	0.3+	0.0

1996 07 15	809	0.9−	0.9+	2000 03 03	620	1.8−	1.1+	2000 03 11	704	0.4+	0.2−
1996 07 21	809	0.7+	0.2−	2000 03 03	620	(2.1−	1.4+)	2000 03 11	704	0.9+	0.0
1996 07 21	809	0.5+	0.7−	2000 03 03	620	(3.3+	0.6+)	2000 03 11	704	0.2−	0.5+
1996 07 21	809	1.0−	0.7−	2000 03 03	620	1.1+	1.7+	2000 03 11	699	0.1+	0.5+
1996 08 19	566	0.3+	0.2−	2000 03 04	691	0.0	0.1−	2000 03 11	699	0.6+	0.1+
1996 08 19	566	0.3+	0.6−	2000 03 04	691	0.8−	0.0	2000 03 11	699	0.9−	0.0
1996 08 19	566	0.3+	0.5−	2000 03 04	691	0.1−	0.7−	2000 03 11	691	0.0	0.8−
2000 02 25	691	0.1−	0.8−	2000 03 05	704	0.1+	0.2+	2000 03 11	699	0.1−	0.6+
2000 02 25	691	0.2−	0.5−	2000 03 05	704	0.4−	0.1+	2000 03 11	691	0.2−	0.6−
2000 02 25	691	0.1+	0.5−	2000 03 05	704	1.2+	0.5+	2000 03 11	691	0.3−	0.3−
2000 02 29	704	0.8+	0.5+	2000 03 05	704	0.3−	0.3−	2000 03 12	691	0.5−	0.4−
2000 02 29	704	0.4−	0.2−	2000 03 05	704	0.3−	0.0	2000 03 12	691	0.6−	0.5−
2000 02 29	704	0.1−	0.2−	2000 03 10	704	0.2−	0.1−	2000 03 12	691	0.5−	0.5−
2000 03 03	704	0.6+	0.1−	2000 03 10	704	0.5+	0.7+	2000 03 15	691	0.5−	0.6−
2000 03 03	704	(0.9+	2.0+)	2000 03 10	704	0.6+	0.8+	2000 03 15	691	0.6−	0.5−
2000 03 03	704	0.5+	1.0+	2000 03 10	691	0.2−	0.4−	2000 03 15	691	0.3−	0.8−
2000 03 03	704	0.2+	1.6+	2000 03 10	704	0.7+	0.5−				

1996 NK₅ = 2000 CU₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	313.29471		(2000.0)	P		Q	
<i>n</i>	0.17634480	ω	50.18105	−0.67557622	+0.73728989		
<i>a</i>	3.1493985	Ω	177.31979	−0.68047080	−0.62318611		
<i>e</i>	0.1301933	<i>i</i>	0.76628	−0.28382435	−0.26084994		
<i>P</i>	5.59	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 07 14	809	(0.1+	2.9+)	2000 02 06	704	0.0	0.8+	2000 03 03	704	0.2+	0.2+
1996 07 14	809	(0.3−	2.1+)	2000 02 06	704	0.0	0.9+	2000 03 03	704	0.1+	0.3+
1996 07 14	809	(0.1−	3.0+)	2000 02 06	704	0.8−	1.4+	2000 03 03	704	0.3+	0.6+
1996 07 15	809	0.1−	0.1−	2000 02 07	704	0.5−	0.7−	2000 03 03	704	0.6+	0.7+
1996 07 15	809	0.8−	1.7+	2000 02 07	704	0.1−	0.6−	2000 03 05	704	0.1+	0.2−
1996 07 15	809	0.2−	1.6+	2000 02 07	704	0.4−	0.6−	2000 03 05	704	0.1−	0.5−
1996 07 21	809	1.0+	0.9+	2000 02 07	704	0.5−	0.6−	2000 03 05	704	0.3+	0.4−
1996 07 21	809	1.2+	0.3+	2000 02 07	704	0.2+	0.1−	2000 03 05	704	0.1+	0.4−
1996 07 21	809	0.2+	1.2+	2000 02 16	703	0.2+	0.5+	2000 03 05	704	0.0	0.2−
1996 09 17	566	0.8−	0.8−	2000 02 16	703	0.3+	0.2−	2000 03 08	704	0.1+	0.5−
1996 09 17	566	0.8−	1.0−	2000 02 16	703	0.1−	0.5+	2000 03 08	704	0.9+	1.1+
1996 09 17	566	0.8−	0.6−	2000 02 16	703	0.2+	0.3+	2000 03 08	704	0.3+	1.3+
1997 11 03	704	0.4−	0.6+	2000 02 27	703	0.6−	0.1+	2000 03 08	704	0.5+	1.0+
1997 11 03	704	0.8−	0.2−	2000 02 27	703	0.1−	0.0	2000 03 08	704	1.0−	0.3+
1997 11 03	704	0.4+	1.6+	2000 02 27	703	0.1−	0.2+	2000 03 11	704	0.1+	0.2−
1997 11 03	704	(1.8−	3.0+)	2000 02 27	703	0.3−	0.5−	2000 03 11	699	0.2−	0.2−
2000 01 08	704	0.0	0.1−	2000 02 29	704	0.3−	0.0	2000 03 11	704	0.2+	0.2−
2000 01 08	704	1.4+	0.4−	2000 02 29	704	0.1+	0.4+	2000 03 11	704	0.2+	0.0
2000 01 08	704	0.8+	0.3−	2000 02 29	704	0.3−	0.0	2000 03 11	699	0.2−	0.1−
2000 01 08	704	(2.7+	0.1−)	2000 02 29	704	0.1+	0.1+	2000 03 11	704	0.4+	0.1−
2000 01 08	704	0.7+	0.7−	2000 02 29	704	0.7−	0.8−	2000 03 11	699	0.4−	0.0
2000 02 02	704	0.3+	0.5+	2000 03 03	557	0.5−	0.4−	2000 03 11	704	0.2+	0.2+
2000 02 02	704	0.8−	0.1−	2000 03 03	557	0.3−	0.2+	2000 03 11	699	0.1−	0.0
2000 02 02	704	0.2+	1.1+	2000 03 03	557	0.3−	0.1−				
2000 02 06	704	0.6+	0.5+	2000 03 03	704	0.4+	0.0				

1996 PY₈ = 2000 DV₆

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

2000 MAR. 20

M.P.C. 39173

1996 08 09	809	0.8−	1.9+	1996 09 08	809	0.1+	0.8+	2000 03 03	703	0.0	0.8−
1996 08 09	809	0.6+	1.6+	1996 09 08	809	0.2−	0.3−	2000 03 03	703	1.2−	0.5+
1996 08 09	809	0.6−	1.3+	2000 02 28	888	0.1+	0.1−	2000 03 03	703	0.8+	0.3−
1996 08 15	566	0.6−	1.2−	2000 02 28	888	0.2−	0.2−	2000 03 03	703	0.3−	0.2−

1996 RU₃ = 1999 KX₁₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P	Q		
<i>M</i>	217.80934		(2000.0)				
<i>n</i>	0.22227880	ω	45.68552	+0.45439515	−0.89073719		
<i>a</i>	2.6990071	Ω	17.29715	+0.80681335	+0.40648155		
<i>e</i>	0.0558986	<i>i</i>	2.04268	+0.37759404	+0.20337162		
<i>P</i>	4.43	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1996 09 13	566	0.1−	0.4+	1996 09 17	566	0.2+	0.2+	1999 05 19	703	0.5+	0.3+
1996 09 13	566	0.0	0.1+	1996 09 17	566	0.2+	0.2+	1999 05 19	703	0.1+	0.3+
1996 09 13	566	0.0	0.4+	1996 09 17	566	0.3+	0.1−	1999 05 19	703	0.2+	0.3−
1996 09 16	566	0.6−	0.7−	1999 05 18	691	0.1+	0.4−	1999 05 19	703	1.0−	1.5+
1996 09 16	566	0.5−	0.4−	1999 05 18	691	0.0	0.6−				
1996 09 16	566	0.5+	0.1−	1999 05 18	691	0.0	0.8−				

1996 RZ₁₉ = 1999 FY₂₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P	Q		
<i>M</i>	102.81695		(2000.0)				
<i>n</i>	0.20626777	ω	175.91751	−0.90784743	−0.41926159		
<i>a</i>	2.8369290	Ω	339.29159	+0.38424104	−0.82639703		
<i>e</i>	0.0850011	<i>i</i>	0.92735	+0.16784474	−0.37588251		
<i>P</i>	4.78	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 09 08	691	0.2+	0.4−	1999 03 19	704	1.4+	1.2−	1999 04 15	704	1.1+	0.4+
1996 09 08	691	0.1+	0.4−	1999 03 19	704	0.9−	1.6−	1999 04 15	704	0.5−	0.4+
1996 09 08	691	0.3+	0.4−	1999 03 19	704	1.5+	0.2+	1999 04 15	704	0.7−	0.4+
1996 09 19	691	0.0	0.2−	1999 03 19	704	1.1−	0.4−	1999 04 15	704	0.0	0.1−
1996 09 19	691	0.1+	0.1+	1999 03 20	704	0.2−	0.4−	1999 05 13	699	0.7+	0.5+
1996 10 06	809	(0.8−	4.1−)	1999 03 20	704	0.6−	0.4+	1999 05 13	699	0.1+	0.7+
1996 10 06	809	(2.2−	5.0−)	1999 03 20	704	1.0+	0.2−	1999 05 13	699	0.2+	0.2+
1996 10 06	809	(3.6−	4.8−)	1999 03 20	704	1.4−	0.0				
1999 03 19	704	0.4−	0.8−	1999 04 15	704	0.6−	0.4+				

1996 RZ₃₀ = 1997 TF₂₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P	Q		
<i>M</i>	35.85595		(2000.0)				
<i>n</i>	0.08180177	ω	252.35525	+0.31749523	−0.94825831		
<i>a</i>	5.2556638	Ω	179.12763	+0.90718993	+0.30321604		
<i>e</i>	0.1464438	<i>i</i>	6.48255	+0.27604927	+0.09416054		
<i>P</i>	12.05	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 09 06	691	0.1−	0.1+	1997 10 07	809	0.8+	0.2+	2000 01 05	704	(2.2−	4.2−)
1996 09 06	691	0.2−	0.1+	1997 10 28	557	0.1−	0.6+	2000 01 05	704	0.1+	0.1−
1996 09 06	691	0.2−	0.3+	1997 10 29	557	0.2−	0.5+	2000 01 05	704	(1.0−	2.3+)
1996 09 13	809	0.2+	0.3−	1997 10 30	704	0.9−	0.4−	2000 01 07	704	0.3−	0.9−
1996 09 14	809	0.1+	0.1−	1997 10 30	704	0.3−	0.3+	2000 01 07	704	1.8−	1.1−
1996 09 14	809	0.1+	0.0	1997 10 30	704	0.9+	0.5−	2000 01 07	704	0.1−	1.1−
1996 09 14	809	0.5+	0.2+	1997 10 30	704	0.2−	1.2−	2000 01 07	704	1.2−	0.6−
1996 09 15	809	0.1+	0.3−	1997 10 30	704	0.1+	1.1−	2000 02 02	704	1.8+	1.1+
1996 09 15	809	0.0	0.1−	1997 10 30	566	0.6−	0.5+	2000 02 02	704	0.3+	0.7+
1996 09 22	809	0.0	0.3−	1997 10 30	566	0.1−	0.2+	2000 02 02	704	0.2−	0.0
1996 09 22	809	0.1−	0.3−	1997 10 30	566	0.0	0.5+	2000 02 02	704	0.1+	0.1−
1997 10 06	809	0.5−	0.0	1999 12 14	704	0.0	0.1−	2000 02 02	704	0.2+	0.0

1997 10 06	809	1.1+	1.1+	1999 12 14	704	0.4+	0.7+
1997 10 07	809	0.2−	0.3−	1999 12 14	704	0.8+	1.2+

1996 RE₃₁ = 2000 AD₉₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P	Q		
<i>M</i>	40.56022		(2000.0)				
<i>n</i>	0.08250539	ω	102.22761	+0.44887949	−0.89054131		
<i>a</i>	5.2257406	Ω	320.82930	+0.76772809	+0.42658784		
<i>e</i>	0.0974056	<i>i</i>	6.70787	+0.45727540	+0.15798415		
<i>P</i>	11.95	<i>H</i>	11.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 09 13	809	0.0	0.2+	2000 01 03	704	0.2−	1.0+	2000 01 07	704	0.3+	0.8−
1996 09 14	809	0.0	0.3−	2000 01 03	704	0.2−	0.0	2000 01 07	704	0.2−	0.1+
1996 09 14	809	0.1+	0.2−	2000 01 03	704	0.1−	0.4−	2000 01 07	704	0.7+	0.5+
1996 09 14	809	0.3+	0.4+	2000 01 03	704	0.8−	0.7−	2000 01 07	704	0.6+	0.3−
1996 09 15	809	0.2−	0.0	2000 01 03	704	0.4+	0.7+	2000 01 07	704	0.3−	0.6+
1996 09 15	809	0.1−	0.2−	2000 01 07	704	0.2−	0.7+	2000 01 07	704	0.5+	0.3+
1998 12 17	704	0.0	0.6+	2000 01 07	704	0.7+	0.0	2000 01 07	704	0.4−	0.1+
1998 12 17	704	0.9+	0.5−	2000 01 07	704	0.4−	0.3+	2000 01 07	704	0.4+	0.7−
1998 12 17	704	(2.8+	0.4−)	2000 01 07	704	0.0	0.3−	2000 01 07	704	1.2−	0.4+
1998 12 17	704	0.9−	0.1+	2000 01 07	704	0.3+	0.6−	2000 01 08	704	0.3+	0.1−
1999 12 15	704	0.6−	0.0	2000 01 07	704	0.1−	0.7−	2000 01 08	704	0.4+	0.4+
1999 12 15	704	0.1−	0.9−	2000 01 07	704	0.5+	0.0	2000 01 08	704	0.3−	0.1−
1999 12 15	704	0.2−	0.9−	2000 01 07	704	0.0	0.5+	2000 01 08	704	0.3+	0.2+
1999 12 15	704	0.2+	0.4−	2000 01 07	704	0.9−	0.0	2000 01 08	704	0.3+	0.4+
1999 12 15	704	0.6+	0.1−	2000 01 07	704	0.4−	0.5+				

1996 RB₃₂ = 1971 QY₂ = 1997 UN₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Doppler			
				P	Q		
<i>M</i>	120.51697		(2000.0)				
<i>n</i>	0.08202523	ω	193.86154	+0.86867507	+0.48859078		
<i>a</i>	5.2461141	Ω	136.57896	−0.44241808	+0.83940442		
<i>e</i>	0.0273250	<i>i</i>	6.83040	−0.22286736	+0.23807406		
<i>P</i>	12.02	<i>H</i>	99.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1971 08 19	808	0.0	0.1−	1996 09 15	809	0.0	0.0	1997 10 26	809	0.5−	0.3−
1996 09 14	809	1.0+	1.9+	1996 09 16	809	1.5−	0.0	1997 10 28	809	1.3+	0.5+
1996 09 15	809	0.5+	1.7−	1997 10 26	809	0.8−	0.3−				

1996 XK₂₂ = 1999 VC₈₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P	Q		
<i>M</i>	87.75212		(2000.0)				
<i>n</i>	0.26693792	ω	287.98367	+0.77851321	+0.62694556		
<i>a</i>	2.3888884	Ω	33.20896	−0.55373050	+0.70805386		
<i>e</i>	0.1980729	<i>i</i>	3.06296	−0.29546526	+0.32495998		
<i>P</i>	3.69	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 12 03	691	0.0	0.9−	1999 10 29	703	0.0	0.0	1999 11 11	703	0.3+	0.3−
1996 12 03	691	0.2−	1.3−	1999 10 29	703	1.2−	0.4−	1999 11 11	703	0.7+	1.3+
1996 12 03	691	0.2−	0.9−	1999 10 29	703	0.2−	0.3+	1999 11 11	703	0.4−	0.0
1996 12 08	691	0.3+	0.6+	1999 10 29	703	0.4+	0.8−	1999 11 11	703	0.3+	0.3−
1996 12 08	691	0.4+	0.5+	1999 11 04	704	0.2+	0.6−	1999 11 14	704	0.0	0.0
1996 12 08	691	0.3+	0.7+	1999 11 04	704	1.2+	0.9−	1999 11 14	704	0.0	0.4−
1996 12 13	691	0.2+	0.6+	1999 11 04	704	1.0+	0.1−	1999 11 14	704	1.0−	0.1−
1996 12 13	691	0.3+	0.4+	1999 11 04	704	0.1−	0.5+	1999 11 14	704	0.5−	0.2−
1996 12 13	691	1.0−	0.6+	1999 11 04	704	0.1−	0.8+	1999 11 14	704	0.5−	0.2+
1998 04 22	704	1.3−	0.1+	1999 11 05	704	0.5+	0.4−	1999 11 16	704	0.6−	0.7−
1998 04 22	704	0.3+	0.4−	1999 11 05	704	0.4+	0.5−	1999 11 16	704	0.6−	0.1+
1998 04 22	704	1.1−	0.7−	1999 11 05	704	0.7+	0.3−	1999 11 16	704	0.2+	0.0

1998 04 22 704 1.1+ 1.2- 1999 11 05 704 0.8+ 0.5+ 1999 11 16 704 1.0- 0.7+
 1998 04 22 704 (5.3- 1.5+) 1999 11 05 704 1.1+ 0.6- 1999 11 16 704 1.0- 0.1+

1997 AF₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	289.80317	(2000.0)	P	Q			
<i>n</i>	0.26150799	ω	359.13434	-0.77782944	-0.62711615		
<i>a</i>	2.4218435	Ω	141.92602	+0.57701678	-0.73864770		
<i>e</i>	0.1574950	<i>i</i>	3.84121	+0.24906425	-0.24723453		
<i>P</i>	3.77	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 05 01	413	0.7+	0.4-	1997 01 13	411	0.2-	0.0	1997 03 06	675	0.4-	0.3+
1990 05 01	413	1.8-	0.8+	1997 01 31	691	0.0	0.0	1997 03 06	675	1.2+	0.7-
1991 07 17	413	1.1+	0.4+	1997 01 31	691	0.1-	0.4-	1997 03 06	704	0.6+	1.0+
1991 07 17	413	0.8+	0.7+	1997 01 31	691	0.1-	0.6-	1997 03 10	675	0.7-	0.4+
1995 08 29	809	0.2-	1.0-	1997 02 01	411	0.6-	1.0-	1997 03 10	675	1.1+	0.2+
1996 11 05	691	0.3-	0.2+	1997 02 01	411	0.6-	1.7-	1997 03 15	327	0.1+	0.2+
1996 11 05	691	0.3-	0.0	1997 02 14	411	0.1+	0.1-	1997 03 15	327	0.1-	0.3+
1996 11 05	691	0.4-	0.3+	1997 02 14	411	0.1-	0.1+	1997 03 15	327	0.1-	0.3+
1997 01 09	411	1.6-	0.8+	1997 03 04	704	1.6+	0.5-	1999 10 04	704	0.2-	0.1+
1997 01 09	411	0.3-	0.5-	1997 03 04	704	0.7+	0.4+	1999 10 04	704	1.1-	1.3+
1997 01 10	411	0.7-	0.9+	1997 03 05	704	1.9+	0.1+	1999 10 04	704	(4.0-	1.2+)
1997 01 10	411	0.7-	0.5-	1997 03 05	704	0.5+	1.0+				
1997 01 13	411	0.6-	0.3+	1997 03 06	704	0.6+	0.5+				

1997 AG₁₂ = 1999 TX₂₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	29.60815	(2000.0)	P	Q			
<i>n</i>	0.26746577	ω	151.94497	+0.94744464	-0.31933319		
<i>a</i>	2.3857444	Ω	226.69139	+0.28831753	+0.87851935		
<i>e</i>	0.2135349	<i>i</i>	1.52487	+0.13864216	+0.35528870		
<i>P</i>	3.68	<i>H</i>	16.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 01 10	691	0.9+	0.2-	1999 09 07	704	0.8+	0.1+	1999 10 06	704	0.2+	0.2+
1997 01 10	691	0.0	0.0	1999 09 07	704	0.8-	0.3+	1999 10 06	704	0.1+	0.2-
1997 01 10	691	0.1+	0.2+	1999 09 07	704	0.2+	0.6-	1999 10 17	691	0.0	0.4-
1997 01 11	691	0.5-	0.1-	1999 10 02	704	0.2+	0.5-	1999 10 17	691	0.4-	0.2-
1997 01 11	691	0.2-	0.1+	1999 10 02	704	0.7-	0.9+	1999 10 17	691	0.3-	0.5-
1997 01 11	691	0.5-	0.4+	1999 10 02	704	0.4+	0.2+	1999 10 19	691	0.2+	0.1+
1997 01 17	691	0.2+	0.1-	1999 10 02	704	0.4-	0.4+	1999 10 19	691	0.0	0.2-
1997 01 17	691	0.1+	0.0	1999 10 06	704	0.3+	0.1+	1999 10 19	691	0.1+	0.2-
1997 01 17	691	0.1+	0.0	1999 10 06	704	0.4+	0.0				
1999 09 07	704	0.5-	0.6+	1999 10 06	704	0.1+	0.0				

1997 AP₁₆ = 2000 AS₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Doppler			
<i>M</i>	189.02442	(2000.0)	P	Q			
<i>n</i>	0.24640059	ω	156.49051	+0.04279856	+0.98767376		
<i>a</i>	2.5198511	Ω	115.67272	-0.94110705	+0.09044397		
<i>e</i>	0.5698496	<i>i</i>	9.61650	-0.33538904	-0.12775148		
<i>P</i>	4.00	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

1997 01 14	046	1.0-	1.7-	1997 01 16	046	0.1-	1.0+	2000 01 05	704	0.4-	0.4+
1997 01 14	046	1.0-	1.6-	1997 01 17	046	0.2+	0.9+	2000 01 05	704	(2.4-	0.0)
1997 01 14	046	0.5-	1.2-	1997 01 17	046	0.0	0.2-	2000 01 06	704	1.4+	0.1-
1997 01 15	046	0.1+	0.2+	1997 01 17	046	0.6+	0.5+	2000 01 06	704	1.1+	0.6-
1997 01 15	046	0.0	0.2+	1997 01 18	046	0.6+	0.1-	2000 01 06	704	0.5+	1.1-
1997 01 15	046	0.3-	0.3+	1997 01 18	046	0.4+	0.4+	2000 01 06	704	0.7+	0.3-
1997 01 15	046	0.5+	0.0	2000 01 05	704	1.4-	1.2+	2000 01 06	704	0.4+	0.4-
1997 01 16	046	0.8+	0.5+	2000 01 05	704	0.7-	0.6+				
1997 01 16	046	0.1+	0.5+	2000 01 05	704	1.5-	0.3+				

1997 AV₁₈

Id. E. Bowell (1998 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	186.66768	(2000.0)	P	Q			
<i>n</i>	0.36606661	ω	228.35688	+0.89148657	+0.24802491		
<i>a</i>	1.9353639	Ω	114.01867	-0.17958588	+0.96174072		
<i>e</i>	0.0939893	<i>i</i>	24.52332	-0.41593341	+0.11635473		
<i>P</i>	2.69	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 01 09	369	0.6-	0.6+	1997 01 30	369	0.4+	0.6+	2000 02 27	704	0.4+	0.6-
1997 01 09	369	0.1-	0.3+	1997 01 30	369	0.0	0.7-	2000 02 27	704	1.1-	0.2-
1997 01 15	369	0.0	1.0-	1998 07 04	699	0.1-	0.0	2000 02 27	704	0.2-	0.1+
1997 01 15	369	0.6+	0.1-	1998 07 04	699	0.1+	0.2-	2000 03 04	688	0.4-	0.1+
1997 01 18	369	0.0	0.4-	1998 07 04	699	0.1-	0.1+	2000 03 04	688	0.6-	0.1-
1997 01 18	369	0.6+	0.1+	2000 02 27	704	1.6+	0.2+				
1997 01 18	369	0.9-	0.5+	2000 02 27	704	0.4+	0.5+				

1997 BD₅ = 1999 XG₂₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	81.12863	(2000.0)	P	Q			
<i>n</i>	0.25848123	ω	143.18426	+0.90787746	+0.41916536		
<i>a</i>	2.4407130	Ω	192.04098	-0.39287976	+0.84427016		
<i>e</i>	0.2157140	<i>i</i>	2.10875	-0.14630111	+0.33392858		
<i>P</i>	3.81	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 01 31	691	0.1-	0.0	1999 11 01	703	0.1+	0.2+	1999 11 15	704	0.2-	0.6+
1997 01 31	691	0.1-	0.1-	1999 11 01	703	0.1-	0.2-	1999 11 15	704	0.1+	0.2+
1997 01 31	691	0.1+	0.0	1999 11 01	703	0.1-	0.1+	1999 11 15	704	0.3-	0.4+
1997 02 02	691	0.1-	0.2+	1999 11 01	703	1.0-	0.4+	1999 12 04	703	0.4-	1.5+
1997 02 02	691	0.4-	0.3-	1999 11 04	704	0.6+	0.2+	1999 12 04	703	1.1-	0.1+
1997 02 02	691	0.0	0.1-	1999 11 04	704	0.3+	0.3+	1999 12 04	703	0.2+	0.7+
1997 02 03	691	0.3+	0.1-	1999 11 04	704	0.9+	0.5+	1999 12 04	703	0.3-	0.1-
1997 02 03	691	0.2+	0.8+	1999 11 04	704	0.1+	0.4-	1999 12 06	704	0.5+	1.1-
1997 02 03	691	0.2+	0.1+	1999 11 12	699	0.1-	1.1-	1999 12 06	704	0.2+	0.2-
1998 05 01	704	(3.1-	1.1-)	1999 11 12	699	0.7+	0.3-	1999 12 06	704	0.1+	0.6-
1998 05 01	704	1.3-	0.0	1999 11 12	699	1.5+	0.6+	1999 12 07	704	0.4+	0.9-
1998 05 01	704	1.0+	1.7-	1999 11 15	704	0.2-	0.2+	1999 12 07	704	0.7-	1.4-
1998 05 01	704	0.2+	1.2+	1999 11 15	704	0.1+	0.5+	1999 12 07	704	1.1-	0.9-

1997 DX = 2000 AE₁₀₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	7.60720	(2000.0)	P	Q			
<i>n</i>	0.28352699	ω	296.24933	+0.11059723	-0.99222795		
<i>a</i>	2.2947733	Ω	147.24509	+0.94532160	+0.08730893		
<i>e</i>	0.1390171	<i>i</i>	6.05017	+0.30681482	+0.08866143		
<i>P</i>	3.48	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 02 28	108	0.7+	0.4-	1999 11 05	704	0.2-	0.3-	1999 12 14	704	1.5+	1.5+
1997 02 28	108	(2.6+	2.0-)	1999 11 05	704	0.2+	0.1-	1999 12 14	704	0.8-	0.1-
1997 02 28	108	0.7+	0.5-	1999 11 05	704	0.1+	0.3+	1999 12 14	699	0.7-	0.1+
1997 03 02	108	(2.4+	0.3-)	1999 11 05	704	0.1-	0.4-	1999 12 14	699	0.1-	0.3+
1997 03 02	108	0.3-	0.0	1999 11 05	704	0.6-	0.3+	1999 12 14	699	0.1+	1.3+
1997 03 02	108	0.7-	0.7+	1999 11 12	699	0.1+	0.2-	2000 01 05	704	0.5-	1.5-
1997 03 03	098	1.9-	0.1+	1999 11 12	699	0.4+	0.3+	2000 01 05	704	0.5-	0.6+
1997 03 03	098	0.4-	0.7+	1999 11 12	699	0.0	0.1+	2000 01 05	704	1.3-	0.6-
1997 03 07	098	0.7+	0.9-	1999 12 04	699	0.3+	0.4-	2000 01 05	704	0.6+	0.1-
1997 03 08	098	0.0	1.4-	1999 12 04	699	0.0	0.3-	2000 01 05	704	0.2-	0.7+
1997 03 10	098	0.3-	1.5+	1999 12 04	699						

2000 MAR. 20

1997 03 13	098	1.2+	0.5−	1999 12 05	704	0.3−	0.2−	2000 01 06	699	0.9+	1.6−
1997 03 13	098	(4.1+	0.8+)	1999 12 05	704	0.4+	0.2−	2000 01 07	704	0.5+	1.0−
1999 10 20	704	0.6−	0.0	1999 12 05	704	0.3−	0.1+	2000 01 07	704	0.0	0.7−
1999 10 20	704	0.7−	0.0	1999 12 05	704	0.2+	0.1−	2000 01 07	704	0.0	0.1−
1999 10 20	704	0.5−	0.0	1999 12 14	704	1.0+	1.6+	2000 01 07	704	0.1+	0.2−
1999 10 20	704	0.2−	0.4−	1999 12 14	704	(0.6+	2.4+)	2000 01 07	704	0.4+	0.1+
1999 10 20	704	0.3−	0.1−	1999 12 14	704	0.7+	1.8+				

1997 EC = 2000 AG₈₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	81.70874		(2000.0)	P	Q		
<i>n</i>	0.28549409	ω	251.79382	+0.90041821	−0.42720666		
<i>a</i>	2.2842202	Ω	133.40448	+0.42948717	+0.84295764		
<i>e</i>	0.1269279	<i>i</i>	6.48906	+0.06919403	+0.32698147		
<i>P</i>	3.45	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 03 01	411	(0.1−	2.6+)	1999 12 06	704	0.4+	1.7−	2000 02 02	704	0.2+	0.2−
1997 03 01	411	0.7+	0.8+	1999 12 06	704	1.1−	0.1−	2000 02 02	704	1.5+	1.0−
1997 03 02	411	0.7−	0.2−	1999 12 14	704	0.2+	0.1−	2000 02 02	704	(0.7+	3.0−)
1997 03 02	411	0.6+	1.0−	1999 12 14	704	0.3+	0.3+	2000 02 03	704	0.0	0.1+
1997 03 07	411	0.7+	0.4+	1999 12 14	704	0.5−	0.1+	2000 02 03	704	0.3+	0.6+
1997 03 07	411	0.2+	1.1−	1999 12 14	704	0.0	0.0	2000 02 03	704	0.0	0.2+
1997 03 08	411	0.3−	1.2+	1999 12 14	704	0.3+	0.0	2000 02 03	704	0.5−	0.4+
1997 03 08	411	1.4−	0.6−	2000 01 05	704	0.1+	0.0	2000 02 03	704	0.1−	0.4+
1999 11 13	703	0.1−	0.6−	2000 01 05	704	0.2+	0.1−	2000 03 04	704	0.7−	0.2−
1999 11 13	703	0.4+	0.9+	2000 01 05	704	1.0−	0.0	2000 03 04	704	0.4−	0.2+
1999 11 13	703	0.1−	1.1+	2000 01 05	704	0.1+	0.3−	2000 03 04	704	0.2+	0.5+
1999 11 13	703	0.3+	0.3+	2000 01 06	704	0.2+	0.1+	2000 03 04	704	0.4−	1.5+
1999 12 06	704	(1.1+	2.1−)	2000 01 06	704	0.2−	0.1−				
1999 12 06	704	0.1−	0.7−	2000 01 06	704	0.1+	0.2−				

1997 ED₃ = 1992 BB₃ = 1999 VW₈₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	286.37549		(2000.0)	P	Q		
<i>n</i>	0.22901765	ω	40.78410	−0.93449548	−0.30298459		
<i>a</i>	2.6457984	Ω	120.64153	+0.24310856	−0.92665470		
<i>e</i>	0.1185084	<i>i</i>	12.54409	+0.26003158	−0.22251157		
<i>P</i>	4.30	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 01 26	691	0.3−	0.2−	1997 03 18	327	0.2+	0.1−	1999 11 08	704	0.3−	1.1−
1992 01 26	691	0.2+	0.2−	1997 03 18	327	0.0	0.5+	1999 12 03	704	(2.5+	0.6+)
1992 01 26	691	0.3−	0.5−	1997 03 18	327	0.1−	0.3+	1999 12 03	704	0.5−	0.1−
1992 01 31	691	0.2+	0.1+	1999 11 07	704	0.1+	1.0−	1999 12 03	704	1.2−	0.3+
1992 01 31	691	0.1+	0.1+	1999 11 07	704	0.2+	0.2+	2000 01 11	704	0.2+	0.5+
1992 01 31	691	0.1+	0.1+	1999 11 07	704	0.5+	0.0	2000 01 11	704	0.7+	0.9+
1997 03 03	327	0.7−	0.2−	1999 11 07	704	0.2+	0.1−	2000 01 11	704	0.1+	0.1+
1997 03 03	327	0.2+	0.7−	1999 11 07	704	0.2−	0.0	2000 01 11	704	0.7+	1.2−
1997 03 03	327	1.1−	0.3−	1999 11 08	704	0.2+	0.8+	2000 02 06	704	0.0	1.6−
1997 03 04	327	0.3+	0.1+	1999 11 08	704	0.6−	0.2+	2000 02 06	704	0.7−	0.3+
1997 03 04	327	0.7+	0.1−	1999 11 08	704	0.6+	0.3+	2000 02 06	704	0.1−	1.4+
1997 03 04	327	0.9+	1.2+	1999 11 08	704	0.3+	0.1+	2000 02 06	704	0.6−	1.5+

1997 EG₅ = 1999 UW₃₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	203.68956		(2000.0)	P	Q		
<i>n</i>	0.21786074	ω	31.50530	−0.79736019	+0.60350107		
<i>a</i>	2.7353741	Ω	185.61676	−0.55742556	−0.73761111		
<i>e</i>	0.1074210	<i>i</i>	1.04492	−0.23128655	−0.30284702		
<i>P</i>	4.52	<i>H</i>	16.6	<i>G</i>	0.15	<i>U</i>	5

M.P.C. 39175

Residuals in seconds of arc

1997 03 04	691	0.2+	0.0	1997 03 07	691	0.3−	0.1−	1999 10 31	691	0.1+	0.1+
1997 03 04	691	0.2+	0.3+	1997 03 14	691	0.2+	0.1+	1999 10 31	691	0.3+	0.2−
1997 03 04	691	0.2+	0.2+	1997 03 14	691	0.1−	0.2−	1999 11 05	691	0.3−	0.2+
1997 03 07	691	0.2−	0.2−	1997 03 14	691	0.1+	0.1−	1999 11 05	691	0.1−	0.2+
1997 03 07	691	0.2−	0.1+	1999 10 31	691	0.1+	0.4−	1999 11 05	691	0.1−	0.2+

1997 EF₁₁ = 1999 VR₁₀₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	30.88513		(2000.0)	P	Q		
<i>n</i>	0.28229582	ω	182.32483	+0.64345621	−0.76183423		
<i>a</i>	2.3014405	Ω	227.63662	+0.70393700	+0.62721298		
<i>e</i>	0.2211764	<i>i</i>	5.79856	+0.30072713	+0.16190270		
<i>P</i>	3.49	<i>H</i>	17.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 03 08	691	0.1−	0.0	1999 11 01	703	0.3+	0.7+	1999 11 12	704	0.0	0.1−
1997 03 08	691	0.5−	0.2+	1999 11 01	703	0.6−	0.5−	1999 11 12	704	0.1−	0.2+
1997 03 08	691	0.1+	0.1+	1999 11 01	703	0.7−	0.2+	1999 11 12	704	0.2+	0.4+
1997 03 09	691	0.2−	0.2−	1999 11 01	703	0.9+	1.0−	1999 11 12	704	0.2+	0.3+
1997 03 09	691	0.4+	0.2+	1999 11 09	704	0.4−	0.2−	1999 11 12	704	0.4+	0.4+
1997 03 09	691	0.2−	0.0	1999 11 09	704	0.0	0.1+	1999 12 07	704	0.9−	0.6+
1997 03 16	691	0.1+	0.4−	1999 11 09	704	0.1+	0.4−	1999 12 07	704	1.3−	0.8+
1997 03 16	691	0.3+	0.6+	1999 11 09	704	0.4−	0.3−	1999 12 07	704	0.8+	0.2+
1997 03 16	691	0.0	0.7−	1999 11 09	704	0.3−	0.3−	1999 12 07	704	1.8+	1.0−

1997 EH₁₂ = 2000 AG₇₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	288.97607		(2000.0)	P	Q		
<i>n</i>	0.28592594	ω	325.53533	−0.99763039	+0.03008894		
<i>a</i>	2.2819196	Ω	216.34197	−0.00883931	−0.94790106		
<i>e</i>	0.0414577	<i>i</i>	5.99311	−0.06823108	−0.31714071		
<i>P</i>	3.45	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 03 03	691	0.3+	0.3+	1998 08 23	704	0.5+	0.9+	2000 01 05	704	0.3−	0.4−
1997 03 03	691	0.3+	0.2+	1998 08 23	704	0.6−	0.1+	2000 01 05	704	0.2−	0.4−
1997 03 03	691	0.3+	0.0	1998 08 23	704	(0.8−	2.7−)	2000 01 05	704	0.0	0.0
1997 03 03	691	0.2−	0.2−	1998 08 23	704	0.1+	1.1−	2000 01 05	704	0.4+	0.2−
1997 03 03	691	0.3−	0.1−	1999 12 06	704	0.1+	1.6+	2000 01 05	704	0.2−	0.1+
1997 03 03	691	0.4−	0.4−	1999 12 06	704	0.4+	0.2−	2000 01 06	704	0.5+	1.1+
1997 03 10	691	0.0	0.2−	1999 12 06	704	0.1+	0.4−	2000 01 06	704	0.2−	0.1+
1997 03 10	691	0.1+	0.1−	1999 12 06	704	0.2+	1.0−	2000 01 06	704	0.4−	0.1−
1997 03 10	691	0.1+	0.0	1999 12 14	704	0.3−	0.2+	2000 01 06	704	0.3+	0.1+
1997 03 11	691	0.1−	0.1+	1999 12 14	704	0.1+	0.4−	2000 01 06	704	0.2+	0.3−
1997 03 11	691	0.1−	0.2+	1999 12 14	704	0.5−	0.4+				
1997 03 11	691	0.1−	0.1+	1999 12 14	704	0.2−	0.1−				

1997 ES₁₂ = 2000 AZ₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Doppler			
<i>M</i>	292.37537		(2000.0)	P	Q		
<i>n</i>	0.28487246	ω	261.89204	−0.99670667	−0.00615108		
<i>a</i>	2.2875420	Ω	277.72883	+0.03861222	−0.91282607		
<i>e</i>	0.0590488	<i>i</i>	4.68048	−0.07130851	−0.40830224		
<i>P</i>	3.46	<i>H</i>	17.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1997 03 03	691	0.7+	0.1+	1997 03 11	691	0.5−	0.6−	2000 01 03	704	0.5+	1.0+
1997 03 03	691	0.6+	0.1+	1997 03 11	691	0.4−	0.9−	2000 01 04	704	0.7+	0.7−
1997 03 03	691	0.6+	0.5+	1997 03 11	691	0.4−	0.7−	2000 01 04	704	0.0	1.0−
1997 03 10	691	0.1+	0.9+	2000 01 03	704	0.1+	1.6+	2000 01 04	704	0.4−	1.3−
1997 03 10	691	0.3−	0.1+	2000 01 03	704	0.8−	1.5+	2000 01 04	704	0.5+	1.7−
1997 03 10	691	0.4−	0.5+	2000 01 03	704	0.5−	0.5+				

1997 EJ₃₃ = 2000 AT₁₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29801762	ω	123.77909	−0.88947372	−0.45608998		
<i>a</i>	2.2197706	Ω	29.11595	+0.39743327	−0.80294401		
<i>e</i>	0.0959058	<i>i</i>	3.37064	+0.22557328	−0.38374841		
<i>P</i>	3.31	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 01 15	566	0.5+	0.0	1997 03 06	704	0.2−	0.2−	2000 01 03	704	0.6+	0.5−
1997 01 15	566	0.2+	0.4+	1999 12 15	704	0.0	0.1+	2000 01 04	704	0.5−	0.1−
1997 01 15	566	0.6−	0.1+	1999 12 15	704	0.3−	0.2+	2000 01 04	704	0.4−	0.0
1997 03 04	704	0.1+	0.7+	1999 12 15	704	0.2−	0.0	2000 01 04	704	0.3+	0.2−
1997 03 04	704	0.0	0.5+	1999 12 15	704	0.0	0.7+	2000 01 04	704	0.0	0.8−
1997 03 05	704	0.4+	1.0−	2000 01 03	704	0.1−	0.1+	2000 01 04	704	0.6+	0.1−
1997 03 05	704	0.1+	0.2−	2000 01 03	704	0.2+	0.4−				
1997 03 06	704	0.4−	0.1−	2000 01 03	704	0.1−	0.6+				

1997 EB₃₇ = 2000 AP₁₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27899341	ω	197.72534	−0.88690748	+0.46177495		
<i>a</i>	2.3195661	Ω	9.80513	−0.41435566	−0.78317092		
<i>e</i>	0.1105770	<i>i</i>	4.24649	−0.20421682	−0.41642190		
<i>P</i>	3.53	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 03 04	704	0.1+	0.4−	1999 11 16	704	0.7−	1.0+	1999 12 31	699	(3.0+	0.1−)
1997 03 04	704	0.1+	0.7+	1999 11 16	704	0.9+	0.8+	2000 01 03	704	1.2+	0.2+
1997 03 05	704	0.1−	0.7+	1999 11 16	704	0.2+	0.2+	2000 01 03	704	0.7+	0.7−
1997 03 05	704	0.4−	0.3+	1999 11 16	704	0.7+	1.2−	2000 01 03	704	0.3+	0.2−
1997 03 06	704	0.0	0.8−	1999 12 15	704	0.1+	0.6+	2000 01 03	704	0.5−	0.5+
1997 03 06	704	0.3+	0.4−	1999 12 15	704	0.2+	0.5−	2000 01 03	704	0.3−	0.5+
1999 11 03	704	0.4+	0.5−	1999 12 15	704	0.5+	0.8+	2000 01 04	704	0.4+	0.0
1999 11 03	704	0.7−	0.1−	1999 12 15	704	0.7+	0.1−	2000 01 04	704	0.1−	0.6−
1999 11 03	704	0.8−	0.9−	1999 12 15	704	0.6+	0.1−	2000 01 04	704	0.1+	0.6−
1999 11 03	704	1.1−	0.9−	1999 12 31	699	1.5−	1.8+	2000 01 04	704	0.0	0.1−
1999 11 16	704	0.3−	1.9+	1999 12 31	699	0.4−	0.8−	2000 01 04	704	0.8−	0.9−

1997 EH₃₇ = 2000 AN₈₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30275050	ω	13.82832	−0.62977260	−0.77276077		
<i>a</i>	2.1965755	Ω	115.26587	+0.70412814	−0.61081531		
<i>e</i>	0.0766068	<i>i</i>	5.00603	+0.32800919	−0.17246868		
<i>P</i>	3.26	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 02 02	327	0.4−	0.6+	1999 12 16	704	0.4−	0.0	2000 01 05	704	0.6−	0.5+
1997 02 02	327	0.1−	0.5+	1999 12 16	704	0.3−	0.8−	2000 01 05	704	0.4−	0.0
1997 02 02	327	0.2+	0.2+	1999 12 16	704	0.3+	0.0	2000 01 05	704	0.6−	0.5+
1997 03 05	704	0.0	0.5−	1999 12 16	704	0.2−	0.0	2000 01 05	704	0.0	0.3+
1997 03 05	704	0.5−	0.4−	1999 12 18	651	1.0+	0.2−	2000 01 06	704	0.4−	1.0+
1997 03 06	704	0.4+	0.7−	1999 12 18	651	0.7+	0.2−	2000 01 06	704	0.4−	0.4−
1997 03 06	704	0.5+	0.2+	1999 12 18	651	0.8+	0.4+	2000 01 06	704	0.3+	1.4−

1997 EO₄₇ = 1983 VR₅ = 1999 RM₁₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17623176	ω	20.02047	+0.05653268	−0.99837274		
<i>a</i>	3.1507451	Ω	66.73931	+0.91490277	+0.04880485		
<i>e</i>	0.0692182	<i>i</i>	0.46636	+0.39969611	+0.02949489		
<i>P</i>	5.59	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1983 11 09	033	0.1+	0.9−	1999 09 07	704	0.7+	0.8+	1999 09 09	704	0.1−	0.6−
1983 11 10	033	0.4+	0.6−	1999 09 07	704	0.2−	0.4+	1999 09 09	704	0.0	1.1+
1997 03 12	809	0.8−	0.6−	1999 09 07	704	0.2−	0.6−	1999 09 09	704	0.3+	0.5−
1997 03 12	809	0.1−	0.2+	1999 09 07	704	0.4−	0.4−	1999 09 09	704	0.6−	0.1−
1997 03 12	809	1.1+	0.1+	1999 09 07	704	0.2−	0.3+	1999 10 01	704	0.8+	0.8+
1997 03 13	809	1.2−	1.0−	1999 09 08	704	0.6−	0.2−	1999 10 01	704	0.8+	0.5−
1997 03 13	809	(1.3+	2.1−)	1999 09 08	704	0.1+	0.5+	1999 10 01	704	0.0	0.3+
1997 03 13	809	0.0	1.6−	1999 09 08	704	0.1+	0.3−	1999 10 01	704	0.1+	0.2−
1997 04 01	809	(2.5+	4.9+)	1999 09 08	704	0.0	0.3−	1999 10 01	704	0.3+	0.2−
1997 04 01	809	(1.1+	4.2+)	1999 09 08	704	1.2−	0.4−	1999 10 01	704	1.0+	0.8−
1997 04 01	809	(0.9+	4.0+)	1999 09 09	704	0.1−	0.9−				

1997 FE₁ = 1999 VV₈₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21922208	ω	24.69550	+0.59129220	−0.80513690		
<i>a</i>	2.7240382	Ω	29.12076	+0.72326377	+0.50412282		
<i>e</i>	0.0311738	<i>i</i>	5.43943	+0.35673949	+0.31243359		
<i>P</i>	4.50	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 03 29	327	1.3+	0.6+	1999 10 20	704	0.1−	0.7−	1999 11 09	704	0.9+	0.2+
1997 03 29	327	0.1+	0.5+	1999 11 02	703	0.3−	0.4+	1999 11 09	704	0.7+	0.0
1997 03 29	327	(0.1+	2.4+)	1999 11 02	703	0.8−	0.9+	1999 11 14	704	0.3−	0.0
1997 03 30	327	0.1+	0.0	1999 11 02	703	1.2+	0.4−	1999 11 14	704	0.2−	0.0
1997 03 30	327	0.7−	0.1−	1999 11 02	703	0.7−	0.9+	1999 11 14	704	0.2−	0.0
1997 03 30	327	0.1−	0.0	1999 11 05	704	0.6+	0.7+	1999 11 14	704	0.3−	0.1+
1997 04 13	327	0.1+	0.2−	1999 11 05	704	0.1+	0.4+	1999 11 14	704	0.4−	0.1−
1997 04 13	327	0.5−	0.7−	1999 11 05	704	0.4+	0.1−	1999 11 16	704	1.0−	0.9−
1997 04 13	327	0.5−	0.6−	1999 11 05	704	0.5+	0.4+	1999 11 16	704	0.6−	0.5+
1999 10 20	704	0.3−	0.1−	1999 11 05	704	0.5+	0.4−	1999 11 16	704	0.7−	0.0
1999 10 20	704	0.3−	0.7−	1999 11 09	704	0.9+	0.1−	1999 11 16	704	0.4−	0.2−
1999 10 20	704	0.4−	0.8−	1999 11 09	704	0.7+	0.0	1999 11 16	704	0.7+	0.3+
1999 10 20	704	0.2−	0.8−	1999 11 09	704	0.5+	0.0				

1997 GD₂ = 2000 AG₁₁₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27627901	ω	199.15972	+0.88684316	−0.46187603		
<i>a</i>	2.3347343	Ω	188.38620	+0.43503789	+0.84438700		
<i>e</i>	0.1830290	<i>i</i>	5.27442	+0.15572811	+0.27144267		
<i>P</i>	3.57	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 04 07	691	0.3−	0.2+	1997 04 16	691	0.4+	0.2+	2000 01 07	704	0.2+	0.1−
1997 04 07	691	0.2−	0.0	1997 04 16	691	0.2−	0.1−	2000 01 07	704	0.5−	0.5−
1997 04 07	691	0.2−	0.1−	2000 01 05	704	0.2−	0.4+	2000 01 07	704	0.3−	0.2+
1997 04 08	691	0.3+	0.1−	2000 01 05	704	0.1+	0.1+	2000 02 02	704	0.6+	0.5+
1997 04 08	691	0.2+	0.1+	2000 01 05	704	0.6+	0.1−	2000 02 02	704	0.0	0.1+
1997 04 08	691	0.1−	0.1−	2000 01 05	704	0.6+	0.2−	2000 02 02	704	0.6−	0.5−
1997 04 16	691	0.0	0.1+	2000 01 07	704	0.5−	0.2+				

1997 GC₁₁ = 1994 RC₁₉ = 2000 AL₉₄

Id. A. Doppler

2000 MAR. 20

M.P.C. 39177

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	101.65086		(2000.0)	P	Q
<i>n</i>	0.23435165	ω	5.31998	+0.99125616	+0.13155088
<i>a</i>	2.6054978	Ω	347.10717	-0.12269826	+0.89029554
<i>e</i>	0.2178817	<i>i</i>	2.63952	-0.04854233	+0.43596813
<i>P</i>	4.21	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1994 08 12	809	0.6+	0.6-	1998 06 26	704	0.7-	0.8+	2000 01 03	704	(2.3+	0.5-)
1994 08 12	809	0.2-	0.9-	1998 06 26	704	2.0-	0.7+	2000 01 03	704	1.0+	0.9-
1994 08 12	809	0.7-	0.8-	1998 07 02	699	1.2+	0.4+	2000 01 03	704	0.5+	0.1+
1994 09 05	809	0.4+	0.4-	1998 07 02	699	0.2-	0.1-	2000 01 04	704	0.7-	1.4-
1994 09 05	809	0.0	0.1+	1998 07 02	699	0.0	0.0	2000 01 04	704	0.0	0.6-
1994 09 05	809	0.3-	0.3+	1998 07 16	699	0.4-	0.7+	2000 01 04	704	1.3+	0.6-
1994 09 06	809	0.0	1.9+	1998 07 16	699	0.4+	1.0+	2000 01 04	704	0.1+	0.5+
1994 09 06	809	0.5-	1.7+	1998 07 16	699	0.1-	0.3+	2000 01 04	704	0.6-	0.8-
1994 09 06	809	(1.2-	2.2+)	1998 08 17	704	0.3-	0.3+	2000 01 07	704	(2.1-	1.0+)
1997 03 11	809	0.3-	1.0+	1998 08 17	704	0.6+	1.9-	2000 01 07	704	0.6-	0.3+
1997 03 11	809	0.0	0.2+	1998 08 17	704	0.0	0.7+	2000 01 07	704	0.3-	1.1+
1997 03 11	809	0.5-	0.7+	1998 08 17	704	0.8+	0.3+	2000 01 07	704	0.1+	0.5-
1997 04 03	704	(3.1+	0.7-)	1998 08 17	704	1.1+	0.2-	2000 01 07	704	0.0	1.0+
1997 04 03	704	1.7+	0.0	1999 12 10	704	0.3+	0.7+	2000 01 30	704	1.5+	0.1-
1997 04 07	704	(3.4+	0.8-)	1999 12 10	704	0.3-	0.6+	2000 01 30	704	1.1-	0.8+
1997 04 07	704	(3.0+	1.0-)	1999 12 10	704	0.1-	0.2-	2000 01 30	704	0.7-	0.8+
1998 06 26	704	0.0	0.2-	1999 12 10	704	0.2-	0.4+	2000 01 30	704	0.5+	1.4+
1998 06 26	704	1.7-	0.7+	1999 12 10	704	0.2-	1.2+	2000 01 30	704	0.0	1.8+

1997 GD₁₂ = 1999 XZ₁₉₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	251.88250		(2000.0)	P	Q
<i>n</i>	0.25921705	ω	206.65877	-0.74719999	+0.66391894
<i>a</i>	2.4360920	Ω	15.06027	-0.58724517	-0.63837550
<i>e</i>	0.1011437	<i>i</i>	6.64412	-0.31118368	-0.38947190
<i>P</i>	3.80	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 04 03	704	0.2-	0.2-	1997 04 06	704	0.4+	0.7-	1999 12 12	704	0.2+	0.4+
1997 04 03	704	0.3-	0.9-	1997 04 06	704	0.4+	0.3-	1999 12 12	704	0.4+	0.3+
1997 04 05	704	0.4+	0.1-	1997 04 07	704	0.0	0.6+	1999 12 15	704	0.1+	0.1-
1997 04 05	704	0.3-	1.1+	1997 04 07	704	0.0	0.7+	1999 12 15	704	0.1-	0.5-
1997 04 05	704	(3.3-	0.4+)	1997 04 07	566	0.4-	0.5-	1999 12 15	704	0.1+	0.8-
1997 04 05	704	0.2-	0.1+	1997 04 07	566	0.7-	0.5-	2000 01 02	704	(3.2-	1.1+)
1997 04 05	704	0.9+	0.3-	1997 04 07	566	0.7-	0.2-	2000 01 02	704	0.3+	0.2+
1997 04 05	704	0.1-	1.6+	1999 12 12	704	0.7-	0.2-	2000 01 02	704	0.3-	0.2+
1997 04 06	704	0.3+	0.3-	1999 12 12	704	0.1+	0.3+				
1997 04 06	704	0.3+	0.1-	1999 12 12	704	0.2-	0.1+				

1997 GY₁₂ = 1999 YV₁₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	60.00596		(2000.0)	P	Q
<i>n</i>	0.22777740	ω	196.01409	+0.96189741	-0.27341061
<i>a</i>	2.6553939	Ω	179.85308	+0.25556318	+0.89895630
<i>e</i>	0.1237100	<i>i</i>	2.59928	+0.09716396	+0.34223414
<i>P</i>	4.33	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 03 11	809	0.4-	0.9-	1999 11 04	704	0.4-	0.3-	1999 12 06	704	0.5+	0.1-
1997 03 11	809	1.0-	0.6-	1999 11 04	704	0.4+	0.3-	1999 12 06	704	1.8-	1.6+
1997 03 11	809	0.2+	1.8-	1999 11 04	704	0.5-	0.7-	1999 12 06	704	1.1+	0.8-
1997 04 03	704	0.1+	0.2+	1999 11 15	704	0.1+	0.2-	1999 12 06	704	0.1-	0.3+
1997 04 03	704	0.3-	0.9+	1999 11 15	704	0.2+	0.4-	1999 12 31	691	0.3-	0.3+
1997 04 05	704	0.7+	0.1+	1999 11 15	704	0.4+	0.4-	1999 12 31	691	0.2-	0.3+
1997 04 05	704	0.0	0.3-	1999 11 15	704	0.5+	0.3-	1999 12 31	691	0.5+	1.2+

1997 04 07	704	0.4+	0.4+	1999 11 15	704	0.3-	0.2+	2000 01 05	691	0.0	0.4+
1997 04 07	704	0.1+	1.2+	1999 12 03	699	0.6+	1.6-	2000 01 05	691	0.1-	0.3+
1999 11 04	704	0.5-	0.4-	1999 12 03	699	0.1-	0.4+	2000 01 05	691	0.1-	0.2+
1999 11 04	704	0.4-	0.1-	1999 12 03	699	0.2+	0.4+				

1997 GW₁₃ = 1999 XV₂₀₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	14.04816		(2000.0)	P	Q
<i>n</i>	0.27555989	ω	99.52787	-0.21225920	-0.97719778
<i>a</i>	2.3387944	Ω	2.74540	+0.84521831	-0.18642399
<i>e</i>	0.0945500	<i>i</i>	6.62509	+0.49046106	-0.10163955
<i>P</i>	3.58	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 03 11	809	0.7-	0.1+	1997 04 07	704	0.2-	0.4+	1999 12 15	704	1.2-	0.4-
1997 03 11	809	0.5-	1.0+	1997 04 07	704	1.3+	0.2+	1999 12 15	704	0.4-	0.5-
1997 03 11	809	0.4-	0.4-	1999 12 12	704	0.2-	1.0-	2000 01 29	704	0.6+	1.0+
1997 03 13	809	(1.5+	3.2-)	1999 12 12	704	0.3-	0.5+	2000 01 29	704	0.8+	0.9+
1997 03 13	809	0.1+	0.1-	1999 12 12	704	1.2-	0.5+	2000 01 29	704	0.6+	0.3+
1997 03 13	809	0.1+	0.4-	1999 12 12	704	0.6+	0.0	2000 01 29	704	0.2-	0.2-
1997 04 03	704	0.1+	0.4-	1999 12 15	704	0.7+	0.3-				
1997 04 03	704	0.3-	0.9-	1999 12 15	704	0.1+	0.5-				

1997 GY₁₄ = 1999 XR₂₀₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	85.68834		(2000.0)	P	Q
<i>n</i>	0.26169941	ω	20.61101	+0.90506017	-0.42516446
<i>a</i>	2.4206624	Ω	4.58772	+0.37045176	+0.77652840
<i>e</i>	0.1180385	<i>i</i>	7.22756	+0.20888172	+0.46501487
<i>P</i>	3.77	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 03 13	809	1.2-	0.4+	1999 12 08	703	0.4-	0.6+	1999 12 15	704	0.3-	0.1-
1997 03 13	809	0.2-	0.1+	1999 12 08	703	0.1+	0.9+	1999 12 15	704	0.5+	1.2+
1997 03 13	809	1.3-	0.5+	1999 12 08	703	0.8-	1.2+	2000 01 02	704	0.8+	0.0
1997 04 03	704	0.6+	0.2-	1999 12 08	703	1.1-	0.4+	2000 01 02	704	0.5+	1.4-
1997 04 03	704	0.1+	0.8+	1999 12 12	704	0.1-	0.4-	2000 01 02	704	0.3+	1.7-
1997 04 05	704	1.0+	1.1+	1999 12 12	704	0.1-	0.3-	2000 01 02	704	0.1+	0.2+
1997 04 05	704	0.8+	0.8-	1999 12 12	704	0.1-	0.2+	2000 01 29	704	0.2+	1.2+
1997 04 06	704	0.7+	1.0-	1999 12 12	704	0.3-	0.2-	2000 01 29	704	0.3-	1.7-
1997 04 06	704	0.1+	0.0	1999 12 12	704	0.3-	0.2-	2000 01 29	704	0.2+	0.0
1997 04 07	704	0.3-	0.3-	1999 12 15	704	0.1+	0.0	2000 01 29	704	(1.7+	2.9-)
1997 04 07	704	0.4-	0.3-	1999 12 15	704	0.7+	0.6+				

1997 GD₁₆ = 1994 JY₈ = 2000 CR₈₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	60.28571		(2000.0)	P	Q
<i>n</i>	0.30420478	ω	27.72409	+0.10802650	-0.99334271
<i>a</i>	2.1895693	Ω	56.10021	+0.90296144	+0.08120235
<i>e</i>	0.1150585	<i>i</i>	2.76273	+0.41592175	+0.08170946
<i>P</i>	3.24	<i>H</i>	15.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1994 05 03	691	0.0	0.2-	2000 02 04	704	0.6+	0.4+	2000 03 05	704	0.2-	0.0
1994 05 03	691	0.0	0.2-	2000 02 04	704	0.4-	0.4-	2000 03 05	704	0.2-	0.2+
1994 05 03	691	0.2-	0.6+	2000 02 04	704	0.8+	0.9+	2000 03 05	704	0.2-	0.5-
1994 05 10	691	0.1-	0.2-	2000 02 11	704	0.4+	0.7+	2000 03 11	699	0.8-	0.8-
1994 05 10	691	0.3+	0.5-	2000 02 11	704	0.3-	0.2-	2000 03 11	699	0.6+	0.3-
1997 04 03	704	0.3+	0.7-	2000 02 11	704	0.4+	0.4+	2000 03 11	699	0.5-	1.1+
1997 04 03	704	0.2+	0.7+	2000 02 11	704	0.8-	0.4+	2000 03 11	699	0.2+	0.2+
1997 04 06	704	1.1+	0.4+	2000 02 25	703	1.1-	0.7-	2000 03 12	704	0.4+	1.0+

1997 04 06	704	(1.0+ 3.4+)	2000 02 25	703	1.4+ 1.1-	2000 03 12	704	1.3+ 0.1+
1997 04 07	704	1.6- 0.3+	2000 02 25	703	0.4- 0.3+	2000 03 12	704	0.0 0.0
1997 04 07	704	0.3+ 0.0	2000 02 25	703	0.5- 0.9-	2000 03 12	704	0.0 0.3-
2000 02 04	704	0.2+ 0.3-	2000 03 05	704	0.1- 0.1+	2000 03 12	704	0.5- 0.1+
2000 02 04	704	0.6- 0.4-	2000 03 05	704	0.2+ 0.1-			

1997 GT₁₇ = 1999 XM₂₂₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	48.43374		(2000.0)	P	Q
<i>n</i>	0.22150917	ω	4.83743	+0.93133656	-0.35617044
<i>a</i>	2.7052552	Ω	16.65367	+0.32460235	+0.71753275
<i>e</i>	0.0674133	<i>i</i>	15.34940	+0.16506219	+0.59857278
<i>P</i>	4.45	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 04 03	704	0.6+ 0.4-	1997 04 07	566	1.0- 0.2-	1999 12 07	703	0.8- 0.3+
1997 04 03	704	0.7+ 0.5-	1997 04 07	566	1.4- 0.5+	1999 12 07	703	0.7+ 0.2+
1997 04 05	704	0.1+ 0.3+	1999 11 08	699	0.5- 0.2+	1999 12 07	703	0.5- 0.3+
1997 04 05	704	0.1+ 0.3+	1999 11 08	699	0.2+ 0.9-	1999 12 10	704	0.4+ 0.5-
1997 04 06	704	1.2+ 0.1-	1999 11 08	699	0.1+ 0.5+	1999 12 10	704	0.2+ 0.5-
1997 04 06	704	0.4+ 0.6-	1999 12 05	699	0.4+ 0.7+	1999 12 10	704	0.2+ 0.3-
1997 04 07	704	0.2- 0.4+	1999 12 05	699	0.9- 1.1+	1999 12 10	704	0.5+ 0.7-
1997 04 07	704	0.0 0.4+	1999 12 05	699	0.3- 0.5+	1999 12 10	704	0.6+ 0.9-
1997 04 07	566	0.4- 0.0	1999 12 07	703	0.4- 0.1+			

1997 GY₁₈ = 2000 AH₆₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	330.09058		(2000.0)	P	Q
<i>n</i>	0.28678774	ω	183.26732	-0.97895913	-0.20325509
<i>a</i>	2.2773459	Ω	344.96849	+0.18876194	-0.86839728
<i>e</i>	0.0365174	<i>i</i>	3.99446	+0.07751098	-0.45229806
<i>P</i>	3.44	<i>H</i>	15.7	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 04 03	704	0.6+ 0.3-	2000 01 04	704	0.8- 0.8-	2000 02 11	704	0.5+ 0.0
1997 04 03	704	0.1+ 0.9+	2000 01 04	704	0.4- 0.8+	2000 02 11	704	0.7+ 1.3-
1997 04 06	704	1.1- 0.3+	2000 01 06	704	0.9+ 0.1-	2000 02 11	704	0.9- 0.8-
1997 04 06	704	0.3+ 0.6-	2000 01 06	704	0.3+ 0.6+	2000 02 24	703	0.2+ 0.9+
1997 04 07	704	0.0 0.5-	2000 01 06	704	0.1+ 0.4-	2000 02 24	703	0.4- 0.9+
1997 04 07	704	0.1+ 0.2+	2000 01 06	704	0.2+ 0.3+	2000 02 24	703	0.3+ 0.0
2000 01 04	704	0.4- 0.4+	2000 02 11	704	0.4- 0.4-	2000 02 24	703	(1.3+ 3.3-)

1997 GV₂₁ = 1995 WG₃ = 1999 XH₁₆₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	44.91994		(2000.0)	P	Q
<i>n</i>	0.28037288	ω	38.88144	-0.12988486	-0.98530876
<i>a</i>	2.3119515	Ω	58.84329	+0.87428892	-0.16656240
<i>e</i>	0.0587678	<i>i</i>	7.44540	+0.46770590	+0.03773091
<i>P</i>	3.52	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1995 11 16	399	(1.3- 3.6+)	1997 04 30	704	0.5+ 0.0	1999 12 15	704	0.6- 0.8-
1995 11 16	399	(0.1- 4.7+)	1997 05 01	704	0.9+ 0.2+	1999 12 15	704	0.1+ 0.1-
1995 11 18	399	0.1+ 0.3-	1997 05 01	704	1.8+ 0.1-	1999 12 15	704	0.7+ 0.5-
1995 11 18	399	0.8+ 0.7+	1997 05 01	704	1.0+ 0.1+	1999 12 15	704	0.2+ 0.7-
1995 11 25	399	(2.5- 1.8+)	1997 05 01	704	0.8+ 0.1+	2000 01 06	704	0.8+ 0.6-
1995 11 25	399	1.4- 0.4+	1997 05 01	704	0.7+ 0.2-	2000 01 06	704	0.4+ 0.0
1997 04 06	704	0.1- 1.0+	1997 05 05	704	0.6+ 0.0	2000 01 06	704	0.3+ 0.2-
1997 04 06	704	0.2- 0.5+	1997 05 05	704	0.3+ 0.1-	2000 01 06	704	0.0 0.9+
1997 04 07	809	(3.7- 0.6-)	1997 05 05	704	0.6+ 0.2-	2000 01 31	704	0.1+ 0.4+
1997 04 07	809	(4.0- 1.1-)	1997 05 05	704	0.1+ 0.1+	2000 01 31	704	0.2- 0.1-

1997 04 07	809	(3.9- 1.2-)	1997 05 05	704	0.2+ 0.2+	2000 01 31	704	0.0 0.1-
1997 04 08	809	0.3- 0.1+	1997 05 26	910	0.0 0.5+	2000 03 04	704	1.1- 0.9+
1997 04 08	809	1.2- 0.4-	1997 05 26	910	0.2- 0.4+	2000 03 04	704	1.1- 0.5+
1997 04 08	809	1.0- 0.0	1997 05 26	910	0.1- 0.6+	2000 03 04	704	1.6- 0.9+
1997 04 08	704	0.6- 0.2+	1998 09 22	699	1.1- 1.3+	2000 03 04	704	1.8- 1.0+
1997 04 08	704	0.1- 0.6+	1998 09 22	699	0.2+ 0.6+	2000 03 12	704	0.6+ 0.1+
1997 04 11	809	1.6- 0.3-	1998 09 22	699	0.4- 0.8+	2000 03 12	704	0.0 0.0
1997 04 11	809	(2.1- 1.9-)	1999 11 16	703	0.9+ 0.3+	2000 03 12	704	0.1+ 0.3+
1997 04 11	809	(2.3- 3.1-)	1999 11 16	703	1.1+ 0.6+	2000 03 12	704	0.1- 0.2+
1997 04 12	809	(1.6- 2.9-)	1999 11 16	703	0.4+ 0.7+	2000 03 12	703	0.2+ 0.2+
1997 04 12	809	1.8- 1.3-	1999 11 16	703	0.1+ 0.4+	2000 03 12	704	0.1+ 0.3+
1997 04 12	809	1.8- 1.3-	1999 12 08	704	0.2+ 0.3-	2000 03 12	703	0.3+ 0.2+
1997 04 30	704	0.3+ 0.2+	1999 12 08	704	0.4+ 0.6-	2000 03 12	703	0.2+ 0.1+
1997 04 30	704	0.5+ 0.2+	1999 12 08	704	0.9+ 0.8-	2000 03 12	703	0.0 0.2+
1997 04 30	704	0.7+ 0.3+	1999 12 08	704	0.5+ 0.7-			
1997 04 30	704	0.5+ 0.0	1999 12 08	704	0.6+ 1.1-			

1997 GA₂₃ = 2000 DX₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	232.13960		(2000.0)	P	Q
<i>n</i>	0.28542558	ω	125.13620	+0.59590365	+0.80305426
<i>a</i>	2.2845857	Ω	181.44400	-0.75635536	+0.56056168
<i>e</i>	0.2120659	<i>i</i>	3.73467	-0.26986185	+0.20217432
<i>P</i>	3.45	<i>H</i>	15.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 04 06	704	(2.4- 2.2-)	1997 05 01	704	0.1+ 0.2+	2000 03 03	704	0.0 0.6+
1997 04 06	704	(2.6- 1.4-)	1997 05 01	704	0.2- 0.6+	2000 03 03	704	0.1- 0.8+
1997 04 08	809	(2.4- 2.3+)	1997 05 01	704	0.0 0.3-	2000 03 03	691	0.1+ 0.0
1997 04 08	809	(2.6- 2.3+)	1997 05 01	704	0.1- 0.4-	2000 03 03	691	0.0 0.1+
1997 04 08	809	(2.5- 0.7+)	1998 12 25	910	1.4- 0.5-	2000 03 03	691	0.2+ 0.1-
1997 04 08	704	0.2- 0.3-	1998 12 26	910	0.1- 0.5-	2000 03 03	691	0.6- 0.1-
1997 04 08	704	1.1- 1.8-	1998 12 26	910	1.6+ 0.1+	2000 03 03	691	0.5- 0.2-
1997 04 30	704	0.1+ 0.5-	2000 02 29	704	0.6+ 0.1-	2000 03 03	691	0.9- 0.3-
1997 04 30	704	0.0 0.2+	2000 02 29	704	0.0 0.9+	2000 03 11	704	0.8- 0.7-
1997 04 30	704	0.2+ 0.0	2000 02 29	704	0.9+ 0.2+	2000 03 11	704	0.6+ 0.4-
1997 04 30	704	0.5+ 0.6+	2000 03 03	704	0.5+ 0.6-	2000 03 11	704	0.5+ 0.7+
1997 04 30	704	0.2- 0.2+	2000 03 03	704	0.5+ 0.4+	2000 03 11	704	1.1- 0.9-
1997 05 01	704	0.5+ 0.4+	2000 03 03	704	0.6+ 0.5+			

1997 GO₂₃ = 1972 GV₁ = 1999 VW₈₁

Id. A. Doppler, G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	138.86955		(2000.0)	P	Q
<i>n</i>	0.16042835	ω	230.48623	-0.27097605	+0.96175716
<i>a</i>	3.3544036	Ω	23.88208	-0.85011760	-0.21964666
<i>e</i>	0.0887529	<i>i</i>	5.66145	-0.45152193	-0.16364137
<i>P</i>	6.14	<i>H</i>	13.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1972 04 09	805	0.7- 1.3-	1997 05 05	704	0.6+ 0.3+	1999 11 01	703	1.6- 0.2+
1972 04 09	805	(1.5+ 3.3-)	1997 05 05	704	0.5+ 0.5+	1999 11 01	703	0.6+ 0.1+
1997 04 06	704	0.7+ 0.1-	1997 05 05	704	0.0 0.2+	1999 11 01	703	0.1- 0.5+
1997 04 06	704	0.3+ 0.5-	1997 05 05	704	0.5+ 0.3+	1999 11 01	703	0.6+ 0.9+
1997 04 08	704	0.6+ 1.0+	1997 05 05	704	0.3+ 0.3+	1999 11 05	704	0.9+ 0.2-
1997 04 08	704	0.4+ 0.7+	1997 05 05	704	0.6+ 0.8+	1999 11 05	704	0.4- 0.6+
1997 04 30	704	0.1- 0.9+	1997 05 05	704	0.0 0.2+	1999 11 05	704	0.3+ 0.4+
1997 04 30	704	0.2- 0.3+	1998 08 17	704	0.3+ 1.3-	1999 11 05	704	0.3- 0.2+
1997 04 30	704	0.0 0.0	1998 08 17	704	0.2- 0.2+	1999 11 09	704	0.1- 0.6+
1997 04 30	704	0.2+ 0.5+	1998 08 17	704	(2.1+ 2.4-)	1999 11 09	704	0.7- 0.8+
1997 04 30	704	0.1- 0.0	1998 08 17	704	1.4+ 0.8-	1999 11 09	704	(1.6- 2.3+)
1997 05 01	704	0.8- 0.4+	1998 08 17	704	0.7+ 1.0+	1999 11 09	704	0.1- 1.3+
1997 05 01	704	0.2- 0.5+	1998 08 19	566	0.3- 0.9-	1999 11 09	704	0.9- 1.0+
1997 05 01	704	0.5- 0.2+	1998 08 19	566	0.2- 0.5-	1999 11 12	704	0.2+ 0.2+
1997 05 01	704	0.3- 0.4+	1998 08 19	566	0.6- 0.9-	1999 11 12	704	0.4- 0.6+
1997 05 01	704	0.3- 0.1+	1999 10 02	703	0.3- 0.5+	1999 11 12	704	0.4- 1.5-

2000 MAR. 20

M.P.C. 39179

1997 05 05	704	0.4+	0.1+	1999 10 02	703	(2.5-	0.0)	1999 11 12	704	0.6-	0.3+
1997 05 05	704	0.4+	0.2+	1999 10 02	703	0.2+	0.2+	1999 11 12	704	1.1-	0.3+
1997 05 05	704	0.2+	0.4+	1999 10 02	703	(3.0+	1.0+)				

1997 GX₃₂ = 1999 VZ₁₆₃ = 1999 XD₂₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	171.29267		(2000.0)		P		Q
<i>n</i>	0.21877282	ω	269.74232	-0.18624895		+0.98247720	
<i>a</i>	2.7277662	Ω	349.51572	-0.88528638		-0.17093337	
<i>e</i>	0.0186497	<i>i</i>	2.22434	-0.42612130		-0.07429894	
<i>P</i>	4.51	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 03 13	809	(2.3-	0.1-)	1999 11 03	704	0.4+	0.3+	1999 11 16	704	0.1+	0.0
1997 03 13	809	1.7-	0.3+	1999 11 03	704	0.3+	0.3+	1999 11 16	704	0.3-	0.5-
1997 03 13	809	1.9-	0.3+	1999 11 03	704	0.0	0.0	1999 12 08	704	0.1-	0.0
1997 03 13	809	1.4+	1.0-	1999 11 03	704	0.1+	0.7+	1999 12 08	704	0.7+	0.9-
1997 03 13	809	(2.3+	1.0-)	1999 11 14	704	0.1+	0.3-	1999 12 08	704	0.0	0.0
1997 03 13	809	0.3-	0.0	1999 11 14	704	0.2+	0.3+	1999 12 08	704	0.8-	0.0
1997 04 03	704	0.8+	1.5-	1999 11 14	704	0.3+	0.7+	1999 12 08	704	0.5-	0.6-
1997 04 03	704	0.3+	1.4-	1999 11 14	704	0.1+	1.0+	1999 12 12	703	0.6+	0.1-
1997 04 11	704	0.8+	1.2+	1999 11 14	704	0.2+	1.1+	1999 12 12	703	0.6-	0.0
1997 04 11	704	0.9+	0.3+	1999 11 16	704	0.3-	1.4-	1999 12 12	703	0.5-	0.0
1997 04 11	704	0.5-	0.7+	1999 11 16	704	0.6-	0.0	1999 12 12	703	0.4+	0.2-
1997 04 11	704	0.3+	1.5+	1999 11 16	704	0.2+	0.1+				

1997 HH = 1999 VG₁₁₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	89.84115		(2000.0)		P		Q
<i>n</i>	0.17762686	ω	285.01836	+0.84571903		+0.53341285	
<i>a</i>	3.1342259	Ω	42.74827	-0.48060915		+0.77373540	
<i>e</i>	0.1796816	<i>i</i>	1.28039	-0.23189257		+0.34176640	
<i>P</i>	5.55	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 10 11	809	0.2+	0.8+	1997 04 29	691	0.1-	0.2+	1999 11 09	704	0.2+	0.8+
1993 10 11	809	0.5-	0.8-	1997 04 29	691	0.3+	0.2+	1999 11 12	704	0.5-	0.3-
1993 10 11	809	0.5-	1.9+	1997 05 08	691	0.5+	0.3+	1999 11 12	704	0.4-	0.6+
1997 04 28	691	0.1-	0.5+	1997 05 08	691	0.7+	0.6-	1999 11 12	704	0.0	0.0
1997 04 28	691	0.2-	0.8+	1997 05 08	691	0.4+	0.2+	1999 11 12	704	0.7+	0.6-
1997 04 28	691	0.2-	0.9+	1999 11 09	704	0.3+	0.5+				
1997 04 29	691	0.1+	0.8+	1999 11 09	704	0.7-	0.4+				

1997 HX₁₁ = 1999 VR₉₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	307.93849		(2000.0)		P		Q
<i>n</i>	0.19188663	ω	68.45050	-0.30128152		-0.94722696	
<i>a</i>	2.9769593	Ω	39.61430	+0.79895204		-0.31345260	
<i>e</i>	0.0346046	<i>i</i>	9.88873	+0.52048544		-0.06714575	
<i>P</i>	5.14	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 04 06	704	0.2+	1.1+	1997 05 05	704	0.1-	0.8-	1999 11 05	704	0.3+	0.5-
1997 04 06	704	0.3-	1.0+	1997 05 05	704	0.1+	0.4-	1999 11 05	704	0.0	0.4+
1997 04 30	704	0.2+	0.5+	1997 05 05	704	0.0	0.8-	1999 11 09	704	0.1-	0.1-
1997 04 30	704	0.5+	0.4-	1999 10 04	703	1.0-	0.7-	1999 11 09	704	0.2-	0.1+
1997 04 30	704	0.0	0.7+	1999 10 04	703	0.3-	0.5-	1999 11 09	704	0.3+	0.1+
1997 04 30	704	0.8-	0.3-	1999 10 04	703	0.2+	0.5-	1999 11 09	704	0.5+	0.2+
1997 04 30	704	0.4+	0.0	1999 10 04	703	0.6+	0.1+	1999 11 09	704	0.2+	0.0
1997 05 01	704	0.5+	0.1-	1999 11 02	703	1.2+	0.2-	1999 11 12	704	0.3-	0.2-
1997 05 01	704	0.3-	0.6-	1999 11 02	703	0.4-	0.2-	1999 11 12	704	0.2-	0.4+
1997 05 01	704	0.5+	1.4+	1999 11 02	703	(2.6+	0.1+)	1999 11 12	704	0.4+	1.5+
1997 05 01	704	0.1+	0.2+	1999 11 02	703	0.6-	1.2+	1999 11 12	704	0.1-	0.8+

1997 05 01	704	0.1+	0.3+	1999 11 05	704	0.4-	0.2+
1997 05 05	704	0.3-	0.0	1999 11 05	704	0.6-	0.7-

1997 JM₁₃ = 2000 CJ₉₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	300.49785		(2000.0)		P		Q
<i>n</i>	0.29068862	ω	110.87496	-0.72830578		+0.68506078	
<i>a</i>	2.2569262	Ω	112.36940	-0.63503799		-0.66586529	
<i>e</i>	0.1463542	<i>i</i>	1.00373	-0.25748288		-0.29549135	
<i>P</i>	3.39	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 05 03	809	0.0	0.3-	1997 05 07	704	(3.6-	0.3+)	2000 03 03	704	0.1+	0.6+
1997 05 03	809	(3.3-	0.5-)	2000 02 05	695	0.2-	0.1-	2000 03 03	704	0.6-	1.1+
1997 05 03	809	0.6-	1.9-	2000 02 05	695	0.5-	0.1-	2000 03 03	704	0.1+	0.3+
1997 05 04	809	0.6+	0.3-	2000 02 06	704	0.2+	0.8+	2000 03 03	704	0.3-	0.1-
1997 05 04	809	1.5+	0.0	2000 02 06	704	0.8-	0.7+	2000 03 03	704	0.4+	0.5+
1997 05 04	809	0.8+	1.0+	2000 02 06	704	0.4-	0.1+	2000 03 04	704	0.6+	0.0
1997 05 04	566	1.0-	0.0	2000 02 06	704	0.1-	0.5-	2000 03 04	704	0.2-	0.5-
1997 05 04	566	1.6-	0.4-	2000 02 06	704	0.1-	0.1+	2000 03 04	704	0.2+	0.6-
1997 05 04	566	1.0-	0.2+	2000 02 11	704	1.8+	0.6-	2000 03 04	704	0.2-	1.0-
1997 05 07	704	0.1-	0.4+	2000 02 11	704	0.6+	0.5+	2000 03 11	691	0.2-	0.2-
1997 05 07	704	0.5+	0.5+	2000 02 11	704	0.3+	0.0	2000 03 11	691	0.3-	0.2-
1997 05 07	704	0.9+	0.5+	2000 02 11	704	0.6-	0.4-	2000 03 11	691	0.2+	0.1-
1997 05 07	704	1.0+	0.1+	2000 02 11	704	0.0	0.2-				

1997 JO₁₃ = 1999 XD₂₀₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	171.25869		(2000.0)		P		Q
<i>n</i>	0.22363504	ω	233.90592	+0.31815128		+0.91912378	
<i>a</i>	2.6880838	Ω	56.27057	-0.75498431		+0.39387433	
<i>e</i>	0.0631784	<i>i</i>	16.22381	-0.57339206		-0.00863028	
<i>P</i>	4.41	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 05 03	809	1.4-	0.8+	1997 05 07	704	1.0+	0.2-	1999 12 15	704	1.0+	0.2-
1997 05 03	809	1.1-	1.3-	1997 05 07	704	0.8+	0.1+	1999 12 15	704	1.6+	0.8+
1997 05 03	809	0.4-	0.0	1997 05 07	704	0.8+	0.5+	1999 12 15	704	0.2+	0.0
1997 05 04	809	0.1+	0.4-	1999 12 12	704	0.2-	0.1-	2000 01 02	704	1.5-	1.0-
1997 05 04	809	0.1-	0.0	1999 12 12	704	0.0	0.1+	2000 01 02	704	0.0	0.0
1997 05 04	809	0.8-	0.9+	1999 12 12	704	0.4-	0.2+	2000 01 02	704	0.7-	0.3-
1997 05 07	704	0.9+	0.3-	1999 12 12	704	0.1-	0.6+				
1997 05 07	704	0.3+	0.1+	1999 12 15	704	0.1+	0.1-				

1997 JW₁₃ = 2000 AR₁₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	307.95732		(2000.0)		P		Q
<i>n</i>	0.24214629	ω	93.21455	-0.93122349		-0.35506072	
<i>a</i>	2.5492798	Ω	66.00102	+0.28833108		-0.85568273	
<i>e</i>	0.0748321	<i>i</i>	5.16155	+0.22290806		-0.37648234	
<i>P</i>	4.07	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 05 03	809	0.1+	0.7-	1999 11 09	704	0.4-	0.8+	2000 01 03	704	0.3-	0.0
1997 05 03	809	0.5+	1.0+	1999 11 09	704	0.3+	1.3+	2000 01 03	704	0.2+	0.2+
1997 05 03	809	0.7+	1.5-	1999 11 09	704	1.6+	1.4+	2000 01 03	704	0.1-	0.5-
1997 05 04	809	1.0+	0.5-	1999 11 16	704	0.2+	1.1-	2000 01 03	704	0.5+	0.2+
1997 05 04	809	0.0	0.2+	1999 11 16	704	0.2+	1.2-	2000 01 04	704	0.5-	0.4+
1997 05 04	809	0.2+	1.5+	1999 11 16	704	1.0-	0.8-	2000 01 04	704	0.4+	0.1+
1997 05 07	704	0.1-	0.2-	1999 12 07	704	0.5-	0.5-	2000 01 04	704	0.0	0.3+
1997 05 07	704	0.6-	0.2-	1999 12 07	704	0.4-	0.4-	2000 01 04	704	0.4+	0.6+

M.P.C. 39180

1997 05 07	704	0.7−	0.0	1999 12 07	704	0.3−	0.5−	2000 01 04	704	0.1+	0.6+
1997 05 07	704	1.0−	0.0	1999 12 07	704	0.0	0.7−				
1997 05 07	704	0.3−	0.2+	2000 01 03	704	0.3−	0.1−				

1997 JQ₁₆ = 2000 CR₈₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	327.88251		(2000.0)	P	Q		
<i>n</i>	0.29563226	ω	69.49307	−0.96522513	+0.25950018		
<i>a</i>	2.2316950	Ω	125.53456	−0.25199066	−0.89137927		
<i>e</i>	0.1764784	<i>i</i>	2.22718	−0.06957840	−0.37162165		
<i>P</i>	3.33	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 05 03	809	0.5−	0.7+	2000 02 04	704	0.6+	0.1−	2000 02 29	704	0.1+	0.1−
1997 05 03	809	0.7−	0.4+	2000 02 04	704	0.3+	0.1−	2000 03 03	704	0.1−	0.4+
1997 05 03	809	0.5−	1.7−	2000 02 04	704	0.2+	1.1+	2000 03 03	704	0.2+	0.1+
1997 05 04	809	(1.9+	2.1+)	2000 02 04	704	0.1+	0.8+	2000 03 03	704	0.2+	0.5−
1997 05 04	809	0.7+	0.1+	2000 02 11	704	0.5−	0.3+	2000 03 03	704	0.7+	0.3−
1997 05 04	809	1.0+	0.4+	2000 02 11	704	0.2−	0.0	2000 03 03	704	0.8+	1.2−
1997 05 04	809	0.1+	1.1+	2000 02 11	704	0.1+	0.3−	2000 03 05	704	0.2+	0.5−
1997 05 04	809	0.8−	0.3−	2000 02 11	704	0.2−	0.3−	2000 03 05	704	0.2+	0.2−
1997 05 04	809	0.4+	0.5−	2000 02 25	703	0.2+	0.2−	2000 03 05	704	0.3+	0.2+
1997 06 07	809	0.2−	0.3−	2000 02 25	703	0.3−	0.2+	2000 03 05	704	0.0	0.3−
1997 06 07	809	0.6−	0.7−	2000 02 25	703	0.2−	1.3+	2000 03 05	704	0.0	0.2−
1997 06 07	809	1.2−	1.1−	2000 02 25	703	0.4−	0.0	2000 03 11	704	0.1−	0.3−
1997 06 08	809	1.0+	0.8+	2000 02 27	703	0.2−	0.1+	2000 03 11	704	0.2−	0.1−
1997 06 08	809	1.1+	0.8+	2000 02 27	703	0.5−	0.4−	2000 03 11	704	0.2−	0.1−
1997 06 08	809	0.6+	1.1+	2000 02 27	703	0.5−	0.4−	2000 03 11	704	0.4−	0.0
2000 01 30	703	0.0	0.7+	2000 02 27	703	0.1+	0.4−	2000 03 11	704	0.2−	0.5+
2000 01 30	703	0.1−	0.2+	2000 02 29	704	0.3+	0.1−	2000 03 14	704	0.6+	0.8−
2000 01 30	703	0.4−	0.2+	2000 02 29	704	0.7+	0.3−	2000 03 14	704	0.6−	0.8−
2000 01 30	703	0.1−	0.1−	2000 02 29	704	0.6−	0.6+	2000 03 14	704	0.4+	0.5+
2000 02 04	704	0.1+	0.4+	2000 02 29	704	0.0	0.3+	2000 03 14	704	0.1+	0.1−

1997 LO = 2000 CB₆₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	216.15571		(2000.0)	P	Q		
<i>n</i>	0.26213875	ω	168.65092	+0.41684878	+0.90548589		
<i>a</i>	2.4179570	Ω	125.93626	−0.84147348	+0.41751767		
<i>e</i>	0.0821226	<i>i</i>	5.64027	−0.34374332	+0.07598881		
<i>P</i>	3.76	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 12 19	566	0.5−	0.1−	2000 02 03	704	1.2−	0.4+	2000 02 11	704	1.3+	0.5+
1995 12 19	566	1.1+	0.5−	2000 02 03	704	0.7−	1.2+	2000 02 11	704	0.1+	0.3+
1995 12 19	566	0.7−	0.1−	2000 02 03	704	0.0	0.5+	2000 02 11	704	1.0+	1.0−
1997 06 03	327	0.4+	0.3+	2000 02 03	704	0.7+	0.9+	2000 02 28	704	0.1+	0.2−
1997 06 03	327	0.4−	0.3+	2000 02 03	704	0.4+	1.2+	2000 02 28	704	0.2−	1.1−
1997 06 03	327	0.0	0.1+	2000 02 08	704	0.4+	0.5−	2000 02 28	704	0.6−	0.7−
1997 06 04	327	0.6+	0.8−	2000 02 08	704	0.3+	0.4−	2000 02 28	704	0.1+	0.1−
1997 06 04	327	0.2+	0.2−	2000 02 08	704	0.4+	0.9−	2000 02 28	704	0.1−	0.3+
1997 06 04	327	0.2−	0.1+	2000 02 08	704	0.1−	0.9−	2000 03 05	704	0.2+	0.8+
1997 06 09	658	0.2+	0.0	2000 02 08	704	0.0	1.4−	2000 03 05	704	0.0	0.7+
1997 06 09	658	0.2−	0.0	2000 02 11	704	0.2−	0.3−	2000 03 05	704	0.4−	0.7+
1997 06 09	658	0.5−	0.0	2000 02 11	704	0.4+	0.5+	2000 03 05	704	1.8−	0.0

1997 LP₁ = 2000 EZ₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	258.88142		(2000.0)	P	Q		
<i>n</i>	0.29414322	ω	145.26769	+0.37116578	+0.92602511		
<i>a</i>	2.2392203	Ω	146.36974	−0.87756916	+0.37398638		
<i>e</i>	0.1270729	<i>i</i>	7.12088	−0.30349354	+0.05110460		
<i>P</i>	3.35	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	5

2000 MAR. 20

Residuals in seconds of arc

1997 06 01	691	0.8−	0.8+	1997 06 12	691	0.0	0.1+	2000 03 03	120	0.5+	0.1−
1997 06 01	691	0.4+	0.5−	1997 06 14	658	0.4+	0.0	2000 03 06	120	(3.1−	2.5+)
1997 06 01	691	0.4+	0.5−	1997 06 14	658	0.1+	0.1−	2000 03 06	120	1.0−	0.8+
1997 06 08	691	0.0	0.4+	1997 06 14	658	0.1−	0.1+	2000 03 12	703	0.5+	1.3−
1997 06 08	691	0.2+	0.4+	1997 06 15	658	0.3+	0.4−	2000 03 12	703	1.4+	0.7+
1997 06 08	691	0.3+	0.4−	1997 06 15	658	0.9−	0.0	2000 03 12	703	0.1−	0.4−
1997 06 12	691	0.2−	0.1+	1997 06 15	658	0.1+	0.1−	2000 03 12	703	0.8−	0.1+
1997 06 12	691	0.1−	0.2+	2000 03 03	120	0.6−	0.1+				

1997 LY₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	50.68042		(2000.0)	P	Q		
<i>n</i>	0.17539410	ω	170.32054	+0.95390964	−0.29495753		
<i>a</i>	3.1607688	Ω	207.03404	+0.26655577	+0.91742851		
<i>e</i>	0.1630451	<i>i</i>	6.98642	+0.13785650	+0.26706739		
<i>P</i>	5.62	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 10 12	809	0.1−	0.8+	1998 08 17	704	1.5−	0.4−	1999 12 06	704	0.9−	0.7+
1993 10 12	809	0.3+	0.7+	1998 08 17	704	1.1−	0.6+	1999 12 06	704	0.4−	0.5−
1993 10 12	809	0.8−	0.7+	1998 08 17	704	0.9+	0.4−	1999 12 06	704	0.3−	0.0
1993 10 22	809	(2.8+	1.8−)	1998 08 17	704	0.1−	0.6−	1999 12 06	704	0.7+	1.5−
1993 10 22	809	0.4+	1.6−	1999 11 28	049	0.6+	0.3+	1999 12 06	704	0.5−	0.9−
1993 10 22	809	(2.8−	0.6+)	1999 11 28	049	0.9+	1.1+	1999 12 14	704	0.2+	0.2−
1997 06 05	691	0.4+	0.1−	1999 11 28	049	0.8+	0.6+	1999 12 14	704	0.1+	0.7−
1997 06 05	691	0.4+	0.2+	1999 12 03	699	0.8−	0.3+	1999 12 14	704	0.4−	0.7−
1997 06 05	691	0.1+	0.3+	1999 12 03	699	0.8+	1.1+	1999 12 14	704	(2.2−	0.9−)
1997 06 10	691	0.0	0.3+	1999 12 03	699	0.4−	0.5+	1999 12 30	699	0.8−	0.5+
1997 06 10	691	0.4−	0.1+	1999 12 05	049	(2.5+	0.5−)	1999 12 30	699	0.3−	0.1+
1997 06 10	691	0.3−	0.2+	1999 12 05	049	1.4+	0.1−	1999 12 30	699	0.1−	0.1+
1998 08 17	704	1.9+	0.4+	1999 12 05	049	0.8−	0.3−				

1997 LF₄ = 2000 EJ₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	303.65856		(2000.0)	P	Q		
<i>n</i>	0.28076632	ω	349.58276	−0.51194128	+0.84559877		
<i>a</i>	2.3097912	Ω	249.47562	−0.77606383	−0.53076901		
<i>e</i>	0.2034181	<i>i</i>	9.29454	−0.36829479	−0.05698229		
<i>P</i>	3.51	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 06 09	327	0.3+	0.3−	1997 06 26	327	0.2+	0.2−	2000 03 04	703	0.1−	0.1+
1997 06 09	327	0.0	0.1−	1997 06 27	327	0.0	0.1−	2000 03 04	703	0.4−	0.3+
1997 06 09	327	0.1−	0.0	1997 06 27	327	0.3−	0.3+	2000 03 04	703	0.3+	0.0
1997 06 10	327	0.1+	0.3−	1997 06 27	327	0.1−	0.4+	2000 03 04	703	0.2−	0.2+
1997 06 10	327	0.1+	0.1−	2000 03 03	703	0.7−	0.0	2000 03 09	704	0.8+	0.2+
1997 06 10	327	0.0	0.3+	2000 03 03	703	0.9−	0.1−	2000 03 09	704	0.8+	0.2−
1997 06 26	327	0.2−	0.0	2000 03 03	703	0.9−	0.2+	2000 03 09	704	0.5+	0.1−
1997 06 26	327	0.0	0.0	2000 03 03	703	0.4+	0.0	2000 03 09	704	0.3+	0.6−

1997 LT₅ = 2000 EG₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	39.10104		(2000.0)	P	Q
n	0.26569924	ω	261.96981	−0.16943638	−0.98357698
a	2.3963073	Ω	198.14651	+0.96448189	−0.15251014
e	0.1946539	i	11.51833	+0.20264745	−0.09652452
P	3.71	H	15.4	G 0.15	U 4

2000 MAR. 20

1997 06 13	691	0.2+	0.5−	2000 03 08	704	0.8+	0.3+	2000 03 13	704	0.0	0.4−
1997 06 28	691	0.0	0.3+	2000 03 08	704	0.1−	0.1−	2000 03 13	704	(1.0−	2.2+)
1997 06 28	691	0.1+	0.0	2000 03 08	704	0.8+	0.2+	2000 03 14	703	0.5−	0.6+
1997 06 28	691	0.2+	0.1−	2000 03 08	704	0.1+	0.3−	2000 03 14	703	0.8−	0.2−
2000 02 08	704	0.2+	0.3+	2000 03 08	704	0.4+	0.5−	2000 03 14	703	1.6−	0.5+
2000 02 08	704	0.1+	0.4+	2000 03 12	704	0.2+	0.3+	2000 03 14	703	0.4+	1.9+
2000 02 08	704	0.3+	0.2−	2000 03 12	704	0.6+	0.3−				
2000 02 08	704	0.0	0.9−	2000 03 12	704	0.3+	1.1−				

1997 LX₅ = 1997 PH₁ = 2000 DW₃₇

Id. G. V. Williams (d, *MPC* 33785; unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	278.55070	(2000.0)		P	Q		
<i>n</i>	0.26139879	ω	115.56930	−0.25777038	+0.96594516		
<i>a</i>	2.4225179	Ω	139.47213	−0.89841643	−0.23106733		
<i>e</i>	0.1563109	<i>i</i>	1.98059	−0.35553108	−0.11643811		
<i>P</i>	3.77	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 06 13	684	0.7−	0.5+	2000 02 11	704	0.2−	0.1−	2000 03 03	704	0.2+	0.3−
1997 06 13	684	0.5−	0.4+	2000 02 11	704	0.6−	0.6−	2000 03 05	704	0.4−	0.1+
1997 06 13	684	0.9−	0.2+	2000 02 11	704	0.2+	0.3−	2000 03 05	704	0.9−	0.5+
1997 06 14	684	0.5+	0.9+	2000 02 25	703	1.7−	0.2+	2000 03 05	704	0.3−	0.0
1997 06 14	684	0.7+	1.0+	2000 02 25	703	0.1+	1.6+	2000 03 05	704	0.5−	0.3−
1997 06 30	684	0.2+	0.1+	2000 02 25	703	0.7−	0.0	2000 03 05	704	0.4−	0.1+
1997 06 30	684	0.7−	0.6−	2000 02 25	703	0.2+	0.4+	2000 03 11	704	0.5+	0.0
1997 06 30	684	0.3−	0.3−	2000 02 29	704	0.1+	0.0	2000 03 11	704	0.3+	0.5−
1997 07 01	684	0.3+	0.3+	2000 02 29	704	0.0	0.1+	2000 03 11	704	0.1+	0.3−
1997 07 01	684	0.1+	0.3−	2000 02 29	704	0.1+	0.1−	2000 03 11	704	1.2+	0.1+
1997 07 01	684	0.2+	0.2−	2000 02 29	704	0.7+	0.5+	2000 03 11	704	0.5+	0.0
1997 08 01	684	0.4+	0.4−	2000 02 29	704	0.3+	0.1+	2000 03 11	699	0.5+	0.4+
1997 08 01	684	0.6+	0.3−	2000 03 03	704	0.1−	0.1−	2000 03 11	699	1.0+	0.4+
1998 12 15	910	0.2−	0.8+	2000 03 03	704	0.1−	0.0	2000 03 11	699	0.7+	1.5−
1998 12 15	910	0.5−	0.3+	2000 03 03	704	0.2−	0.2−	2000 03 11	699	0.2−	0.5+
1998 12 15	910	0.3+	0.2+	2000 03 03	704	0.1−	0.5−				

1997 MJ = 2000 AZ₁₆₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	263.78640	(2000.0)		P	Q		
<i>n</i>	0.23876654	ω	338.72750	−0.86160860	+0.44812649		
<i>a</i>	2.5732802	Ω	230.18423	−0.40930607	−0.89113244		
<i>e</i>	0.1906409	<i>i</i>	18.07823	−0.30016523	−0.07117320		
<i>P</i>	4.13	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 06 26	691	0.2+	0.2+	1997 07 06	691	0.2−	0.0	2000 01 07	704	0.0	0.9+
1997 06 26	691	0.6+	0.5−	1999 12 06	704	0.4+	0.6−	2000 01 11	704	0.6−	0.4−
1997 06 26	691	0.3+	0.0	1999 12 06	704	0.1+	0.4+	2000 01 11	704	0.5+	0.7−
1997 06 27	691	0.5−	0.2−	1999 12 06	704	0.3−	0.5+	2000 01 11	704	0.4+	0.1+
1997 06 27	691	0.1−	0.0	1999 12 06	704	0.2+	0.1−	2000 01 11	704	0.3−	0.2−
1997 06 27	691	0.2−	0.2+	1999 12 06	704	0.1−	0.5−	2000 01 11	704	0.3+	0.1+
1997 07 06	691	0.0	0.4+	2000 01 07	704	0.3−	0.2−				
1997 07 06	691	0.1−	0.1−	2000 01 07	704	0.3−	0.6+				

1997 MP₂ = 2000 AV₇₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	296.68600	(2000.0)		P	Q		
<i>n</i>	0.21574117	ω	276.15725	−0.99127072	+0.01345014		
<i>a</i>	2.7532609	Ω	264.66673	+0.03816191	−0.92292746		
<i>e</i>	0.1126980	<i>i</i>	7.56926	−0.12619835	−0.38473887		
<i>P</i>	4.57	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

M.P.C. 39181

Residuals in seconds of arc

1997 06 28	704	0.0	0.0	1997 07 02	704	0.2+	0.0	2000 01 05	704	0.1+	0.2+
1997 06 28	704	0.2−	0.5−	1997 07 02	704	0.1−	0.9+	2000 01 06	704	0.0	0.5−
1997 06 28	704	0.1+	0.5−	1999 12 08	704	0.3−	0.5+	2000 01 06	704	0.1+	0.1−
1997 06 29	704	0.2−	0.7−	1999 12 08	704	0.0	0.2+	2000 01 06	704	0.1+	0.5−
1997 06 29	704	0.0	0.3−	1999 12 08	704	0.0	0.3−	2000 01 06	704	0.2+	0.2−
1997 06 29	704	0.3−	0.7+	2000 01 05	704	0.0	0.1−	2000 03 04	704	0.6−	0.4+
1997 06 29	704	0.1+	0.3−	2000 01 05	704	0.2−	0.2−	2000 03 04	704	0.1−	0.4−
1997 07 02	704	0.3+	0.3−	2000 01 05	704	0.0	0.6+	2000 03 04	704	0.7+	0.0
1997 07 02	704	0.1+	0.4+	2000 01 05	704	0.0	0.1−	2000 03 04	704	0.3−	0.1−

1997 MQ₂ = 2000 EF₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	220.07305	(2000.0)		P	Q		
<i>n</i>	0.26342733	ω	164.95458	+0.88982916	+0.45626251		
<i>a</i>	2.4100654	Ω	167.89498	−0.42122967	+0.82589731		
<i>e</i>	0.2019943	<i>i</i>	1.46078	−0.17541273	+0.33123731		
<i>P</i>	3.74	<i>H</i>	16.6	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

1997 06 28	704	0.4−	0.1+	1997 06 29	704	1.5−	0.2−	2000 03 08	691	0.2+	0.4−
1997 06 28	704	0.5+	0.1+	1997 07 02	704	0.3+	0.2+	2000 03 08	691	0.2+	0.1+
1997 06 28	704	0.4+	0.2+	1997 07 02	704	1.9+	0.3−	2000 03 08	691	0.0	0.4−
1997 06 29	704	0.4+	0.4−	1997 07 02	704	1.6−	0.6−	2000 03 09	691	0.1−	0.3+
1997 06 29	704	0.1−	0.3−	1997 07 02	704	0.1−	1.2+	2000 03 09	691	0.1+	0.2+
1997 06 29	704	0.5+	0.1−	1997 07 02	704	0.4−	0.2+	2000 03 09	691	0.4−	0.2+

1997 MT₄ = 2000 AH₂₃₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	187.89858	(2000.0)		P	Q		
<i>n</i>	0.19201146	ω	176.89012	+0.12192026	+0.95915104		
<i>a</i>	2.9756690	Ω	100.00742	−0.91614002	+0.20770158		
<i>e</i>	0.1134175	<i>i</i>	15.02365	−0.38186767	−0.19206597		
<i>P</i>	5.13	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 06 28	704	0.3−	0.7+	1997 06 29	704	0.1−	0.3+	2000 01 05	704	0.2+	0.4−
1997 06 28	704	0.5−	0.5−	1997 07 02	704	0.3+	0.4−	2000 01 05	704	0.4+	0.2+
1997 06 28	704	0.4+	0.3+	1997 07 02	704	0.5−	0.5+	2000 01 06	691	0.1+	0.1−
1997 06 29	704	0.1+	0.3+	1997 07 02	704	0.5−	0.8−	2000 01 06	691	0.2−	0.0
1997 06 29	704	0.4−	0.7+	1997 07 02	704	0.3+	0.9+	2000 01 06	691	0.0	0.2−
1997 06 29	704	0.8+	1.9−	2000 01 05	704	0.4−	1.2+				
1997 06 29	704	0.4+	0.0	2000 01 05	704	0.2−	0.7−				

1997 MP₉ = 2000 AE₁₇₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	57.01328	(2000.0)		P	Q		
<i>n</i>	0.18368708	ω	260.01841	+0.89022498	−0.41936802		
<i>a</i>	3.0649047	Ω	124.56387	+0.45418090	+0.84708718		
<i>e</i>	0.1288209	<i>i</i>	12.47230	−0.03491714	+0.32645639		
<i>P</i>	5.37	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 06 27	691	0.2−	0.9+	1998 08 17	704	1.4−	1.0+	2000 01 07	704	0.2−	0.4−
1997 06 27	691	0.2−	0.5+	1999 12 05	704	0.1+	1.5+	2000 01 07	704	0.0	0.5+
1997 06 27	691	0.2−	0.5+	1999 12 05	704	0.2−	0.8+	2000 01 07	704	0.0	1.0−
1997 07 08	691	0.2−	0.3+	1999 12 05	704	0.6+	0.0	2000 01 11	704	0.2−	0.1+
1997 07 08	691	0.3−	0.2+	1999 12 05	704	0.2+	0.5+	2000 01 11	704	0.5+	0.0
1997 07 08	691	0.1−	0.3+	1999 12 05	704	0.0	0.3−	2000 01 11	704	0.0	0.0
1997 07 09	910	1.0+	0.7+	1999 12 14	704	0.0	0.4−	2000 01 11	704	0.2+	0.4−
1997 07 09	910	1.2+	0.8+	1999 12 14	704	0.4−	0.0	2000 01 11	704	0.4−	0.1−
1997 07 09	910	0.5+	0.3+	1999 12 14	704	0.0	0.0	2000 02 02	704	0.3+	0.7+
1998 08 17	704	1.1+	1.6−	1999 12 14	704	0.9−	0.1−	2000 02 02	704	0.3−	1.3+

1998 08 17	704	1.1+	0.7+	1999 12 14	704	0.1−	0.7+	2000 02 02	704	0.0	1.1+
1998 08 17	704	0.6+	0.3+	2000 01 07	704	0.6+	0.4−	2000 02 02	704	0.2−	0.2+
1998 08 17	704	1.6−	0.5+	2000 01 07	704	0.0	0.2−	2000 02 02	704	0.7−	0.8+

1997 ND₂ = 2000 AN₁₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Doppler			
<i>M</i>	292.29960		(2000.0)	P	Q		
<i>n</i>	0.23793876	ω	320.75057	−0.77956167	+0.59188845		
<i>a</i>	2.5792450	Ω	256.74971	−0.50855251	−0.78905690		
<i>e</i>	0.2240963	<i>i</i>	12.14714	−0.36559259	−0.16449098		
<i>P</i>	4.14	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 07 03	691	0.1+	0.3+	1997 07 09	599	(3.2−	2.6+)	2000 01 07	704	0.2+	0.1−
1997 07 03	691	0.4+	0.3+	1997 07 13	691	0.2−	0.0	2000 01 11	704	0.8−	0.0
1997 07 03	691	0.2+	0.2+	1997 07 13	691	0.2+	0.3−	2000 01 11	704	0.1−	0.6−
1997 07 08	691	0.3−	0.2+	1997 07 13	691	0.0	0.0	2000 01 11	704	0.6+	0.7+
1997 07 08	691	0.4−	0.1+	2000 01 07	704	0.4−	0.3−	2000 01 11	704	0.3+	0.3+
1997 07 08	691	0.2−	0.1+	2000 01 07	704	0.6+	0.0				
1997 07 09	599	0.3+	0.7−	2000 01 07	704	0.4−	0.3+				

1997 NM₃ = 1997 ON₁ = 2000 DH₆₁Id. A. Doppler (d, *MPC* 34061), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	306.77766		(2000.0)	P	Q		
<i>n</i>	0.27460629	ω	83.06210	−0.58799073	+0.80854907		
<i>a</i>	2.3442057	Ω	150.88608	−0.75932689	−0.54208984		
<i>e</i>	0.1816483	<i>i</i>	2.67417	−0.27872851	−0.22888208		
<i>P</i>	3.59	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 07 09	684	0.1+	0.0	1997 08 10	684	0.1−	0.2−	2000 03 03	704	0.2+	0.2−
1997 07 09	684	0.1+	0.1−	1997 08 10	684	0.2−	0.1−	2000 03 03	704	0.2+	0.1+
1997 07 09	684	0.0	0.0	1997 08 10	684	0.1+	0.1−	2000 03 03	704	0.2+	0.2−
1997 07 11	684	0.0	0.1−	2000 02 11	704	0.3−	0.5+	2000 03 03	704	0.0	0.1−
1997 07 11	684	0.2−	0.1+	2000 02 11	704	0.9+	0.1−	2000 03 11	704	0.2+	0.2+
1997 07 11	684	0.1+	0.2+	2000 02 11	704	0.3+	0.4+	2000 03 11	704	0.3+	0.5+
1997 07 29	684	0.2+	0.2−	2000 02 26	703	0.2+	0.2−	2000 03 11	704	0.3+	0.1+
1997 07 29	684	0.1+	0.5−	2000 02 26	703	0.6−	0.1+	2000 03 11	704	0.9+	0.2+
1997 07 29	684	0.1+	0.4−	2000 02 26	703	0.5−	0.7−	2000 03 11	704	0.0	0.6+
1997 07 31	684	1.1−	0.7+	2000 02 26	703	1.1−	0.4−	2000 03 11	699	0.7−	0.1−
1997 07 31	684	0.6+	0.5+	2000 02 29	704	0.2+	0.6−	2000 03 11	699	0.6−	0.5−
1997 07 31	684	0.7+	0.3−	2000 02 29	704	0.3+	0.2−	2000 03 11	699	0.0	0.2+
1997 08 01	684	0.1−	0.2+	2000 02 29	704	0.1−	0.3−	2000 03 11	699	0.1−	0.3+
1997 08 01	684	0.0	0.0	2000 02 29	704	0.0	0.3+				
1997 08 01	684	0.3−	0.3+	2000 03 03	704	0.2−	0.1+				

1997 QY

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	212.05791		(2000.0)	P	Q		
<i>n</i>	0.23901559	ω	146.36710	+0.86463406	+0.50230500		
<i>a</i>	2.5714923	Ω	183.52437	−0.48906289	+0.83701246		
<i>e</i>	0.1859125	<i>i</i>	9.24952	−0.11500190	+0.21702495		
<i>P</i>	4.12	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1984 05 30	413	1.2−	0.3+	1997 07 13	691	0.4−	0.1+	1997 09 03	132	0.8+	0.4+
1984 05 30	413	1.3+	0.2−	1997 08 24	132	0.9−	0.2+	1997 09 18	132	0.2−	0.1−
1988 02 23	413	0.3−	1.2+	1997 08 24	132	0.3−	0.5+	1997 09 19	132	(2.2+ 1.8−)	
1988 02 23	413	0.9−	0.4−	1997 08 24	132	0.3−	1.0+	1997 09 30	132	0.6+	1.3−
1989 11 22	413	1.4+	0.9+	1997 08 29	132	0.6−	0.5−	1997 09 30	132	0.5+	0.8−
1989 11 22	413	1.1−	0.5+	1997 08 29	132	(0.8− 2.5−)		1997 10 01	124	(0.2− 2.8+)	
1996 05 07	675	0.5+	0.1−	1997 09 03	132	(3.2− 0.1+)		1997 10 01	124	0.7+	0.3+
1996 05 07	675	0.4+	0.5−	1997 09 03	132	0.7+	0.5−	1997 12 03	910	0.9−	0.3−

1997 07 13	691	1.4−	0.0	1997 09 03	124	1.8+	1.0−	1997 12 03	910	1.1−	0.6−
1997 07 13	691	0.5−	0.3+	1997 09 03	124	1.4+	1.1+	1997 12 03	910	1.4−	0.0

1997 QZ = 2000 EX₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	253.82439		(2000.0)	P	Q		
<i>n</i>	0.26175839	ω	133.59087	+0.60766884	+0.79414153		
<i>a</i>	2.4202987	Ω	173.81138	−0.75019787	+0.57761805		
<i>e</i>	0.2264895	<i>i</i>	4.69345	−0.26065637	+0.18893547		
<i>P</i>	3.77	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 08 24	132	0.3+	0.2−	1997 08 30	958	(2.7−	2.2−)	2000 03 10	704	0.3+	0.4+
1997 08 24	132	0.3−	0.7−	1997 08 30	958	(3.2−	1.6−)	2000 03 10	704	0.1−	0.2+
1997 08 24	132	0.9+	0.3−	1997 08 30	958	(0.8−	3.0−)	2000 03 10	704	0.3+	0.5−
1997 08 29	132	0.3−	0.9−	1997 09 03	132	0.3−	0.5+	2000 03 11	704	0.2−	0.6−
1997 08 29	132	0.2−	1.1−	1997 09 03	132	0.3−	0.3−	2000 03 11	704	0.3−	0.3+
1997 08 29	132	0.2−	1.2+	1997 09 03	132	0.2−	0.9−	2000 03 11	704	0.4+	0.1+
1997 08 29	958	0.0	0.7+	1997 09 30	132	0.9+	0.7+	2000 03 11	704	0.0	0.0
1997 08 30	958	0.3−	0.9+	1997 09 30	132	0.6−	0.3−				
1997 08 30	958	0.4+	0.9+	2000 03 10	704	0.3−	0.3+				

1997 QC₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	298.46010		(2000.0)	P	Q		
<i>n</i>	0.28497901	ω	119.78753	+0.33579169	+0.94187753		
<i>a</i>	2.2869718	Ω	169.81662	−0.88345004	+0.31879611		
<i>e</i>	0.1409136	<i>i</i>	3.41101	−0.32674143	+0.10599884		
<i>P</i>	3.46	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1949 11 21	675	0.3−	0.2−	1997 09 23	327	0.3+	0.1+	1997 10 27	683	0.4−	1.6−
1949 11 21	675	0.1+	1.0+	1997 10 15	568	0.2−	0.3−	1997 10 27	683	0.3+	1.2−
1979 05 19	413	0.3−	0.3+	1997 10 15	568	0.2−	0.3−	1997 10 27	683	0.2−	0.2−
1979 05 19	413	0.1+	0.9−	1997 10 15	568	0.5−	0.5−	1997 10 27	568	0.0	0.1+
1997 08 13	327	0.2−	0.4+	1997 10 16	568	0.4+	0.3+	1997 10 27	568	0.0	0.1+
1997 08 13	327	0.3−	0.0	1997 10 16	568	0.2+	0.1−	1997 11 25	683	0.3+	0.1+
1997 08 13	327	0.1−	0.0	1997 10 17	568	0.0	0.4+	1997 11 25	683	0.5+	0.1+
1997 08 28	721	0.3+	0.3+	1997 10 17	568	0.2−	0.4+	1997 11 25	683	0.5+	0.2+
1997 08 28	721	0.2+	0.2+	1997 10 20	568	0.5+	0.2+	1997 11 30	683	0.4−	0.5+
1997 08 31	721	0.7−	0.3+	1997 10 20	568	0.9+	0.5+	1997 11 30	683	0.8+	0.4+
1997 08 31	721	1.0−	0.8+	1997 10 21	683	0.7+	0.5−	1997 11 30	683	0.3+	0.5−
1997 09 17	327	0.1−	0.2−	1997 10 21	683	0.4+	0.3+	1997 12 03	910	1.0−	0.3−
1997 09 17	327	0.4−	0.1+	1997 10 22	568	0.3+	0.4+	1997 12 03	910	1.2−	0.0
1997 09 17	327	0.4−	0.3−	1997 10 22	568	0.3+	0.4+	1997 12 03	910	1.2−	0.3−
1997 09 23	327	0.3+	0.1−	1997 10 26	683	0.8+	1.1−				
1997 09 23	327	0.2+	0.0	1997 10 26	683	0.4+	0.1−				

1997 QC₂ = 2000 EZ₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	222.41479		(2000.0)	P	Q		
<i>n</i>	0.22419791	ω	175.95375	+0.63247246	+0.77004962		
<i>a</i>	2.6835829	Ω	133.25386	−0.71385172	+0.62140470		
<i>e</i>	0.2866624	<i>i</i>	6.59741	−0.30065645	+0.14449838		
<i>P</i>	4.40	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 08 27	905	1.7−	1.1+	1997 09 28	566	1.0+	0.1−	2000 03 09	704	0.2+	0.2−
1997 08 27	905	0.1+	0.4+	1997 09 28	566	0.1+	0.6−	2000 03 09	704	0.4+	0.4+
1997 08 28	905	0.3−	0.9+	1997 09 28	566	0.2−	0.0	2000 03 09	704	0.2+	0.6+
1997 08 28	905	1.5−	1.0+	1997 09 28	905	0.6+	0.7−	2000 03 09	704	0.2+	0.6+
1997 09 03	385	0.4−	0.8+	1997 09 28	905	0.8+	0.0	2000 03 09	704	0.7+	1.2+
1997 09 03	385	0.3+	0.8+	1997 11 01	385	0.1+	0.8−	2000 03 12	704	0.9+	0.5−
1997 09 09	905	0.1+	0.0	1997 11 01	385	0.7+	0.2+	2000 03 12	704	0.8−	1.4+
1997 09 09	905	0.0	0.4+	2000 03 05	704	0.1−	0.2+	2000 03 12	704	0.1−	0.0

2000 MAR. 20

M.P.C. 39183

1997 09 11	385	0.6−	0.1+	2000 03 05	704	0.3−	0.5+	2000 03 12	704	1.0−	1.1+
1997 09 11	385	0.1−	0.3+	2000 03 05	704	1.2+	0.7+				

1997 RH = 2000 EO₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	226.31222		(2000.0)	P	Q
<i>n</i>	0.22321574	ω	4.28535	+0.78587538	+0.61814854
<i>a</i>	2.6914491	Ω	317.51786	−0.56810681	+0.71078415
<i>e</i>	0.0896139	<i>i</i>	1.45052	−0.24424279	+0.33567585
<i>P</i>	4.42	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 09 01	367	0.1+	0.1+	1997 09 12	402	0.0	0.0	2000 03 10	704	0.4+	0.2−
1997 09 01	367	0.1+	0.8−	1997 09 12	402	0.0	0.2−	2000 03 10	704	0.2+	0.5+
1997 09 02	367	0.4+	1.1+	1997 09 12	402	0.2+	0.4−	2000 03 10	704	0.0	0.1−
1997 09 02	367	0.2−	0.3−	2000 03 09	704	0.0	0.5−	2000 03 10	704	0.5−	0.5+
1997 09 09	367	0.6−	0.6−	2000 03 09	704	0.4+	0.3−	2000 03 11	704	0.1+	0.2+
1997 09 09	367	0.4−	0.1−	2000 03 09	704	0.9−	1.0−	2000 03 11	704	0.2+	0.5+
1997 09 11	402	0.2+	0.0	2000 03 09	704	0.7−	0.2−	2000 03 11	704	0.3+	0.7+
1997 09 11	402	0.1+	0.7+	2000 03 09	704	0.1+	0.5−	2000 03 11	704	0.5+	0.7+
1997 09 11	402	0.2+	0.5+	2000 03 10	704	0.1−	0.3−				

1997 RM₁ = 2000 DJ₉₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	252.94228		(2000.0)	P	Q
<i>n</i>	0.26213509	ω	288.90950	+0.36849543	+0.92962010
<i>a</i>	2.4179795	Ω	2.72417	−0.81626768	+0.32571557
<i>e</i>	0.3507852	<i>i</i>	5.06230	−0.44487998	+0.17238283
<i>P</i>	3.76	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 09 02	566	0.3−	0.5−	1997 09 05	673	0.4−	0.1−	2000 02 11	704	1.0−	0.9+
1997 09 02	566	0.2−	0.7−	1997 09 05	587	0.1−	1.2+	2000 02 11	704	0.1+	1.2+
1997 09 02	566	0.0	0.8−	1997 09 05	620	0.2−	0.5+	2000 02 11	704	0.2+	0.7+
1997 09 03	673	0.1+	0.8+	1997 09 05	620	0.0	0.6+	2000 02 25	703	0.2+	0.1+
1997 09 03	673	0.4+	0.9+	1997 09 05	587	0.1+	0.2−	2000 02 25	703	0.2+	0.2−
1997 09 03	673	0.0	0.6+	1997 09 05	620	0.0	0.5+	2000 02 25	703	0.3−	1.2+
1997 09 03	625	0.9−	1.1+	1997 09 05	587	0.6+	0.3−	2000 02 25	703	0.0	0.6+
1997 09 03	625	(5.1−	2.3+)	1997 09 05	620	0.0	0.6+	2000 02 28	704	0.3+	0.2+
1997 09 04	625	1.4−	0.7+	1997 09 06	608	0.4−	0.2−	2000 02 28	704	0.1+	0.7+
1997 09 04	900	0.7+	0.4−	1997 09 06	608	0.4−	0.1−	2000 02 28	704	0.1+	0.0
1997 09 04	900	0.6+	0.4−	1997 09 06	422	0.2−	0.2−	2000 02 28	704	0.3+	0.7−
1997 09 04	360	0.2+	0.3−	1997 09 06	422	0.1+	0.5−	2000 03 05	704	0.0	0.3−
1997 09 04	360	0.3+	0.2−	1997 09 06	422	0.1+	0.5−	2000 03 05	704	0.3+	0.2−
1997 09 04	360	0.1+	0.3−	1997 09 06	422	0.2−	0.1−	2000 03 05	704	0.2+	0.3+
1997 09 04	587	0.1−	0.2+	1997 09 06	422	0.1−	0.0	2000 03 05	704	1.1+	0.8−
1997 09 04	587	0.2+	0.4−	1997 10 04	861	0.4−	0.7+	2000 03 05	704	1.0+	0.8−
1997 09 04	108	(0.7+	3.5+)	1997 10 04	861	0.2−	0.7+	2000 03 12	704	0.8+	0.2+
1997 09 04	587	0.3−	0.5−	1997 10 04	861	0.3+	0.9+	2000 03 12	704	0.3−	0.5+
1997 09 04	108	1.6+	1.1+	1997 10 05	861	0.8+	0.7+	2000 03 12	704	0.5−	0.0
1997 09 04	108	(1.7+	2.7+)	1997 10 05	861	0.2−	0.3−	2000 03 12	704	0.3−	0.2+
1997 09 05	673	0.4−	0.0	1997 10 05	861	0.7−	0.3−	2000 03 12	704	0.6+	1.6+
1997 09 05	673	0.2−	0.2−	2000 02 11	704	0.6−	0.2−				

1997 RR₉ = 2000 EW₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	201.43709		(2000.0)	P	Q
<i>n</i>	0.22364230	ω	175.32543	+0.96078634	+0.27605162
<i>a</i>	2.6880257	Ω	168.54690	−0.25849060	+0.92581420
<i>e</i>	0.2496441	<i>i</i>	7.57471	−0.10036046	+0.25819288
<i>P</i>	4.41	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 09 13	327	0.0	0.1−	1999 01 18	704	0.2+	0.7+	2000 03 10	704	0.4+	0.7+
1997 09 13	327	0.0	0.1−	1999 01 18	704	0.6−	0.3−	2000 03 10	704	1.0+	1.5+

1997 09 13	327	0.2−	0.0	1999 01 18	704	0.1−	1.8−	2000 03 10	704	0.8+	1.4+
1997 09 13	327	0.1+	0.3+	1999 01 18	704	(4.1−	0.7+)	2000 03 11	704	0.3−	0.2+
1997 09 17	327	0.0	0.0	2000 02 11	704	0.3−	1.5+	2000 03 11	704	0.4−	0.3−
1997 09 17	327	0.1+	0.0	2000 02 11	704	0.8+	0.3−	2000 03 11	704	0.6−	0.3−
1997 09 17	327	0.1−	0.1+	2000 02 11	704	1.5+	0.1−	2000 03 11	704	0.3+	0.8−
1997 09 23	327	0.1−	0.1+	2000 02 11	704	0.0	0.8−	2000 03 11	704	0.8−	1.4−
1997 09 23	327	0.1−	0.1+	2000 02 27	703	0.8+	0.3+	2000 03 14	703	0.7−	0.2+
1997 09 23	327	0.0	0.2+	2000 02 27	703	0.8−	0.3−	2000 03 14	703	0.2+	0.1−
1997 10 31	566	0.3−	0.0	2000 02 27	703	1.0+	0.4−	2000 03 14	703	1.1−	0.3+
1997 10 31	566	0.6+	0.5+	2000 02 27	703	0.7−	0.4−	2000 03 14	703	0.9−	0.2+
1997 10 31	566	0.3−	0.5+	2000 03 10	704	0.4+	0.5+				
1999 01 18	704	0.6+	1.5+	2000 03 10	704	0.3+	0.3+				

1997 RP₁₀ = 2000 CZ₃₅

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	265.74764		(2000.0)	P	Q
<i>n</i>	0.22991590	ω	105.40131	−0.10238738	+0.99135095
<i>a</i>	2.6389027	Ω	158.21130	−0.97626524	−0.08430823
<i>e</i>	0.1395607	<i>i</i>	12.77829	−0.19084811	−0.10057546
<i>P</i>	4.29	<i>H</i>	13.4	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 09 01	566	1.2+	0.5+	2000 02 02	703	0.4−	0.2+	2000 02 29	704	0.3−	0.3−
1997 09 01	566	0.7+	0.6+	2000 02 02	703	0.6−	0.4+	2000 02 29	704	0.2−	0.2−
1997 09 01	566	1.3+	0.2+	2000 02 02	703	0.2−	0.5−	2000 02 29	704	0.1+	0.2−
1997 09 05	292	0.2−	0.1−	2000 02 02	703	0.4−	0.0	2000 02 29	704	0.0	0.2−
1997 09 05	292	0.9−	1.3−	2000 02 02	704	0.0	0.0	2000 03 03	704	0.2+	0.2−
1997 09 05	292	0.0	0.5−	2000 02 02	704	0.4+	0.4−	2000 03 03	704	0.3−	0.5−
1997 09 06	292	0.2+	1.2−	2000 02 02	704	0.2+	0.5−	2000 03 03	704	0.3+	0.2−
1997 09 06	292	1.9−	0.5−	2000 02 02	704	0.1+	0.8−	2000 03 03	704	0.1+	0.1+
1997 09 07	292	0.7+	0.5−	2000 02 02	704	0.6+	1.0−	2000 03 03	704	0.4+	0.2+
1997 09 07	292	0.3+	0.8+	2000 02 05	704	0.4−	0.2−	2000 03 04	704	0.2−	0.1−
1997 09 07	292	0.3−	0.1+	2000 02 05	704	0.1+	0.3−	2000 03 04	704	1.0+	0.2−
1997 09 19	292	(0.7−	2.1−)	2000 02 05	704	0.0	0.5−	2000 03 04	704	0.3+	0.0
1997 09 19	292	0.9−	0.7−	2000 02 06	704	0.2+	0.7−	2000 03 04	704	0.1+	0.1−
1997 09 19	292	(2.8−	1.9+)	2000 02 06	704	0.4−	0.3−	2000 03 04	704	0.2+	0.0
1997 09 22	292	(2.0−	3.3−)	2000 02 06	704	0.3−	0.1−	2000 03 06	704	0.3+	0.3−
1997 09 22	292	(1.6−	2.6−)	2000 02 06	704	0.1+	0.3+	2000 03 06	704	0.4+	0.2−
1997 09 22	292	(0.8−	4.2−)	2000 02 06	704	0.0	0.1−	2000 03 06	704	0.4−	0.2−
1997 09 27	292	0.2+	0.4+	2000 02 12	704	(1.9+	2.5+)	2000 03 06	704	0.4+	0.4+
1997 09 27	292	0.6−	1.1+	2000 02 12	704	1.1+	2.0+	2000 03 06	704	0.1+	0.7−
1997 09 27	292	0.2+	0.3+	2000 02 12	704	(2.4−	2.2+)	2000 03 06	704	0.3−	0.1−
1997 09 30	292	(1.0+	2.3−)	2000 02 12	704	(3.5−	0.1−)	2000 03 06	704	0.2−	0.4−
1997 09 30	292	1.3+	0.7−	2000 02 13	704	(3.5+	0.1−)	2000 03 11	704	0.7−	0.1+
1997 09 30	292	1.1−	1.0−	2000 02 13	704	1.1+	1.9+	2000 03 11	704	0.5−	0.2+
1998 12 15	704	(3.5−	0.7+)	2000 02 13	704	0.3+	0.4+	2000 03 11	704	0.4−	0.2−
1998 12 15	704	1.1−	0.3+	2000 02 13	704	1.8−	1.8+	2000 03 11	704	0.0	0.1−
1998 12 15	704	1.3+	0.1+	2000 02 25	703	0.4−	0.2+	2000 03 11	704	0.0	0.4−
1998 12 15	704	1.1−	0.4−	2000 02 25	703	0.3−	0.1−	2000 03 11	608	(0.2−	2.3−)
1998 12 17	699	0.6+	0.4−	2000 02 25	703	0.4−	0.2+	2000 03 11	608	(0.2−	2.1−)
1998 12 17	699	0.1+	0.8−	2000 02 25	703	0.0	0.1−	2000 03 11	608	0.2+	0.8−
1998 12 17	699	0.1+	1.3+	2000 02 29	704	0.4+	0.2−				

1997 SH₃ = 2000 EH₁₀₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

1997 09 26	046	0.2+	0.8−	1997 10 07	046	0.6+	0.3+	2000 03 11	704	0.5+	1.0+
1997 09 26	046	0.4−	0.2+	1997 10 07	046	0.2+	0.1+	2000 03 11	704	0.8+	0.2−
1997 09 26	046	0.3−	0.1−	1997 10 07	046	0.4+	0.4+	2000 03 11	704	0.6+	0.8+
1997 09 26	046	0.5−	0.1+	1997 10 22	046	0.4−	0.7−	2000 03 12	691	0.4−	0.5−
1997 09 26	046	0.4−	0.4−	1997 10 22	046	0.3−	0.1+	2000 03 12	691	0.6−	0.6−
1997 09 27	046	0.0	0.3+	1997 10 22	046	0.3−	0.0	2000 03 12	691	0.7−	0.1−
1997 09 27	046	0.5−	0.1+	1997 10 23	046	0.3−	0.2+	2000 03 14	691	0.0	0.7−
1997 09 27	046	0.1−	0.1+	1997 10 23	046	0.2−	0.1−	2000 03 14	691	0.5−	0.0
1997 09 29	046	0.3+	0.0	1997 10 23	046	0.4+	0.1+	2000 03 14	691	0.6−	0.0
1997 09 29	046	0.5+	0.1−	1997 10 24	046	0.8+	0.2+				
1997 09 29	046	0.1+	0.2−	1997 10 24	046	0.1−	0.1−				

1997 SY₃ = 1997 RT₆ = 2000 CX₂₃Id. S. Nakano (d, *MPC* 31437), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19113736	ω	0.04641	+0.63628380		+0.75972002	
<i>a</i>	2.9847342	Ω	309.46957	−0.70785212		+0.50585637	
<i>e</i>	0.0932102	<i>i</i>	9.99974	−0.30673816		+0.40857659	
<i>P</i>	5.16	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 09 07	910	0.7+	0.3+	2000 02 01	703	1.8−	0.1−	2000 03 05	704	0.6−	0.1−
1997 09 07	910	0.7+	0.2+	2000 02 01	703	0.4+	1.1+	2000 03 05	704	0.7+	0.6+
1997 09 07	910	0.8+	0.2+	2000 02 01	703	0.4+	0.2+	2000 03 05	704	0.2+	0.2+
1997 09 09	910	0.4+	0.1+	2000 02 01	703	0.1−	0.1+	2000 03 06	704	0.0	0.7+
1997 09 09	910	0.3+	0.1+	2000 02 02	704	0.3+	0.4+	2000 03 06	704	0.4+	0.1−
1997 09 10	910	0.3+	0.1+	2000 02 02	704	0.2−	0.0	2000 03 06	704	0.3+	0.3+
1997 09 25	610	0.2+	0.1+	2000 02 02	704	0.4+	0.5+	2000 03 06	704	0.2+	0.9−
1997 09 25	610	0.5+	0.1−	2000 02 04	704	0.1+	0.2−	2000 03 06	704	0.5+	0.2−
1997 09 25	610	0.7+	0.3−	2000 02 04	704	0.7+	0.4+	2000 03 08	704	0.1+	0.2−
1997 09 26	610	1.4−	0.2+	2000 02 04	704	0.6+	0.2+	2000 03 08	704	0.5−	0.1+
1997 09 26	610	1.9−	0.1+	2000 02 04	704	1.3+	0.4−	2000 03 08	704	0.2−	0.6+
1997 09 26	610	(2.4−	0.1−)	2000 02 04	704	0.8+	0.5−	2000 03 08	704	0.7+	0.9+
1997 09 27	610	0.9−	0.3+	2000 02 12	704	(3.9+	0.9+)	2000 03 08	704	0.1−	0.9+
1997 09 27	610	0.8−	0.2+	2000 02 12	704	2.0+	1.7+	2000 03 09	704	0.3−	0.6+
1997 09 27	610	0.7−	0.2+	2000 02 12	704	(2.6+	2.3+)	2000 03 09	704	0.2+	0.1+
1998 11 16	704	1.7−	1.6−	2000 02 12	704	(1.4+	3.9+)	2000 03 09	704	0.0	0.4+
1998 11 16	704	1.3+	0.6+	2000 02 12	704	(1.1+	2.7+)	2000 03 09	704	0.3−	0.1−
1998 11 16	704	0.8−	0.3+	2000 02 27	703	1.1−	0.0	2000 03 09	704	0.4−	0.9−
1998 11 16	704	1.0+	0.2+	2000 02 27	703	0.6−	0.5−	2000 03 11	704	0.1−	0.3−
2000 01 07	704	1.0−	1.2−	2000 02 27	703	0.7−	0.3−	2000 03 11	704	0.1+	0.3−
2000 01 07	704	1.0−	1.8−	2000 02 27	703	0.7−	0.5+	2000 03 11	704	0.8+	0.1+
2000 01 07	704	0.3−	0.3−	2000 03 05	704	0.9+	0.4+	2000 03 11	704	0.0	0.0
2000 01 07	704	0.5−	0.3+	2000 03 05	704	0.4−	0.6−	2000 03 11	704	0.1+	0.5−

1997 SK₁₀ = 2000 DR₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18035564	ω	152.37175	+0.99803570		+0.06037007	
<i>a</i>	3.1025317	Ω	204.18460	−0.06232325		+0.92960584	
<i>e</i>	0.1787882	<i>i</i>	2.34172	−0.00636847		+0.36357729	
<i>P</i>	5.46	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 09 26	327	0.2−	0.1+	1997 10 19	327	0.2−	0.2+	1998 12 22	704	1.1+	0.3−
1997 09 26	327	0.1−	0.2+	1997 11 02	327	0.7+	0.7+	2000 02 06	704	0.7+	1.1+
1997 09 26	327	0.3−	0.2+	1997 11 02	327	0.5−	0.7+	2000 02 06	704	0.2+	0.8+
1997 09 26	327	0.1−	0.0	1997 11 02	327	0.1+	0.6+	2000 02 06	704	0.2+	1.0+
1997 09 26	327	0.1−	0.0	1998 12 15	704	1.4−	0.0	2000 02 06	704	0.6−	0.9+
1997 09 26	327	0.5−	0.4+	1998 12 15	704	1.2+	0.7+	2000 02 29	704	0.3+	0.7+
1997 09 27	327	0.1−	0.3+	1998 12 15	704	0.5−	1.2−	2000 02 29	704	0.4+	0.9+
1997 09 27	327	0.3−	0.1+	1998 12 15	704	(0.7+	3.0+)	2000 02 29	704	2.0+	1.2+
1997 09 27	327	0.3−	0.4+	1998 12 16	704	(0.2+	2.2−)	2000 02 29	704	0.8+	1.0+
1997 09 29	327	0.2−	0.6+	1998 12 16	704	0.6−	0.2−	2000 03 03	704	0.2+	0.1+
1997 09 29	327	0.3−	0.8+	1998 12 16	704	0.3+	0.9+	2000 03 03	704	0.2−	0.4−

1997 09 29	327	0.1−	0.7+	1998 12 16	704	1.1+	0.6+	2000 03 03	704	0.3+	0.5−
1997 09 29	327	0.4+	0.0	1998 12 16	704	(2.7+	1.7+)	2000 03 03	704	1.3−	0.8−
1997 09 29	327	0.2+	0.8+	1998 12 22	704	0.0	0.5+	2000 03 11	704	0.1−	1.6+
1997 09 29	327	0.3+	0.3+	1998 12 22	704	0.1−	0.4−	2000 03 11	704	0.5+	0.3+
1997 10 19	327	0.2−	0.1+	1998 12 22	704	0.5−	0.8−	2000 03 11	704	0.6−	0.0
1997 10 19	327	0.3−	0.1+	1998 12 22	704	0.8−	1.2−				

1997 SL₁₀ = 2000 ET₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24523931	ω	136.79406	+0.78426012		+0.62041118	
<i>a</i>	2.5277997	Ω	184.86794	−0.58435437		+0.73586757	
<i>e</i>	0.1244848	<i>i</i>	3.44687	−0.20848508		+0.27127273	
<i>P</i>	4.02	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1997 09 26	327	0.1−	0.1−	1997 10 09	327	0.3+	1.3+	2000 03 10	704	0.2−	0.1+
1997 09 26	327	0.1−	0.0	1997 10 09	327	0.1+	0.2+	2000 03 10	704	2.0+	0.8+
1997 09 26	327	0.1−	0.1−	2000 03 09	704	0.1−	0.5−	2000 03 11	704	0.2−	0.7−
1997 09 27	327	0.3+	0.9−	2000 03 09	704	0.2+	1.1+	2000 03 11	704	0.5−	1.0+
1997 09 27	327	0.1+	0.1+	2000 03 09	704	0.3+	0.3−	2000 03 11	704	0.3−	0.4+
1997 09 27	327	0.0	0.1−	2000 03 09	704	0.8−	1.4−	2000 03 11	704	0.4+	0.3+
1997 10 09	327	0.5−	0.1−	2000 03 10	704	0.7−	0.6−				

1997 SR₁₀ = 2000 EA₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24151903	ω	272.48333	+0.12437944		+0.99208210	
<i>a</i>	2.5536918	Ω	4.76789	−0.80669149		+0.11131792	
<i>e</i>	0.1443798	<i>i</i>	12.08575	−0.57773575		+0.05815012	
<i>P</i>	4.08	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 09 26	327	0.2−	0.5−	1997 10 09	327	0.3+	0.2+	2000 03 09	704	0.1−	0.2−
1997 09 26	327	0.2−	0.3−	1997 10 10	691	0.3−	0.2+	2000 03 09	704	0.3−	0.1−
1997 09 26	327	0.1−	0.3−	1997 10 10	691	0.1−	0.2+	2000 03 09	704	0.5−	0.4−
1997 09 29	327	0.4−	0.1+	1997 10 10	691	0.2−	0.3+	2000 03 09	704	0.2−	0.0
1997 09 29	327	0.1+	0.1+	1997 10 18	327	0.2−	0.5−	2000 03 09	704	0.2−	0.0
1997 09 29	327	0.0	0.1+	1997 10 18	327	0.4+	0.1−	2000 03 10	704	0.4−	0.0
1997 09 30	327	0.7+	0.5+	1997 10 18	327	0.4−	0.1−	2000 03 10	704	0.1+	0.0
1997 09 30	327	0.3−	0.0	2000 03 04	703	0.1−	0.8−	2000 03 10	704	0.1−	0.1−
1997 09 30	327	0.1−	0.1−	2000 03 04	703	0.1+	0.6+	2000 03 10	704	0.8+	0.5+
1997 10 09	327	0.5+	0.3+	2000 03 04	703	0.4+	0.4+	2000 03 10	704	0.4+	0.2+
1997 10 09	327	0.4+	0.2+	2000 03 04	703	0.2+	0.1−				

1997 SF₁₆ = 1991 PV₂₆ = 2000 DC₆₂

Id. G. V. Williams, S. Nakano, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

|--|

2000 MAR. 20

M.P.C. 39185

1997 10 10 376 0.2− 0.0 2000 03 03 704 0.1− 0.2+ 2000 03 11 704 0.1− 0.4+
 1997 10 10 376 0.5− 0.7+ 2000 03 03 704 0.3+ 0.9+ 2000 03 11 704 0.1− 1.2+

1997 SS₁₆ = 2000 DD₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	241.63894	(2000.0)	P	Q
<i>n</i>	0.19337255	<i>ω</i> 27.86521	+0.18780155	+0.98202474
<i>a</i>	2.9616893	<i>Ω</i> 252.96441	−0.90479645	+0.16547254
<i>e</i>	0.0839524	<i>i</i> 1.13389	−0.38219623	+0.09080887
<i>P</i>	5.10	<i>H</i> 14.8	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 09 28	691	0.3+	0.1−	1997 10 03	691	0.3−	0.1+	2000 02 29	704	0.4+	0.8−
1997 09 28	691	0.1+	0.2−	1997 10 03	691	0.2−	0.2+	2000 03 03	704	0.4+	0.1+
1997 09 28	691	0.0	0.0	1997 10 03	691	0.4+	0.1+	2000 03 03	704	0.2−	0.3+
1997 10 01	691	0.0	0.0	2000 02 29	704	0.5−	0.1−	2000 03 03	704	0.1−	0.0
1997 10 01	691	0.2−	0.1−	2000 02 29	704	0.2+	0.9+	2000 03 03	704	0.0	0.2−
1997 10 01	691	0.1−	0.0	2000 02 29	704	0.3−	0.4−	2000 03 03	704	0.2+	0.2+

1997 SN₂₅ = 2000 EM₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	210.60171	(2000.0)	P	Q
<i>n</i>	0.19690477	<i>ω</i> 16.73003	+0.89376081	+0.44838632
<i>a</i>	2.9261633	<i>Ω</i> 316.62345	−0.41348762	+0.81334708
<i>e</i>	0.1000157	<i>i</i> 0.99182	−0.17383789	+0.37069696
<i>P</i>	5.01	<i>H</i> 13.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 09 30	358	0.6+	0.5−	1997 10 10	358	0.3+	0.1+	2000 03 08	704	0.6+	1.7+
1997 09 30	358	0.4−	0.4−	1997 10 22	358	1.2−	0.2+	2000 03 08	704	1.0+	0.5+
1997 10 01	358	1.9−	1.7+	1997 10 22	358	0.2+	0.3−	2000 03 08	704	0.7+	0.4+
1997 10 01	358	1.4−	0.8+	1997 10 23	358	1.2−	0.0	2000 03 08	704	1.8+	1.1+
1997 10 02	358	0.0	0.1−	1997 10 23	358	1.3−	0.9+	2000 03 10	704	0.6−	0.4+
1997 10 02	358	(1.0−	2.1−)	1997 10 30	704	0.5+	0.1−	2000 03 10	704	0.7−	0.7+
1997 10 02	910	0.5+	0.8+	1997 10 30	704	0.9+	0.1−	2000 03 10	704	0.8−	0.4+
1997 10 02	910	0.4+	0.8+	1997 10 30	704	0.8+	0.1−	2000 03 10	704	0.2−	0.6+
1997 10 03	910	0.3+	0.9+	1997 10 30	704	1.3+	0.7−	2000 03 10	704	0.9−	0.2+
1997 10 04	358	(2.1+	1.5+)	1997 10 30	704	0.8+	0.5−	2000 03 11	704	0.4+	0.1−
1997 10 04	358	0.9−	0.3−	1998 12 17	704	0.9+	0.2+	2000 03 11	704	0.0	0.6+
1997 10 05	358	0.8+	1.1+	1998 12 17	704	0.4−	0.4−	2000 03 11	704	0.3+	0.3−
1997 10 05	358	1.2+	0.9+	1998 12 17	704	0.6+	1.3−	2000 03 11	704	0.3−	0.4−
1997 10 09	358	(2.6−	0.5−)	1998 12 17	704	2.0−	0.0	2000 03 11	704	0.6−	0.3−
1997 10 09	358	0.6−	0.8+	1998 12 17	704	0.5+	0.3−				
1997 10 10	358	1.1−	0.5−	2000 03 08	704	2.0+	0.1+				

1997 SJ₃₁ = 2000 EN₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	226.44109	(2000.0)	P	Q
<i>n</i>	0.18639638	<i>ω</i> 311.70750	+0.28648327	+0.95807104
<i>a</i>	3.0351331	<i>Ω</i> 334.93860	−0.87532848	+0.25952013
<i>e</i>	0.0383241	<i>i</i> 0.70562	−0.38952201	+0.12144619
<i>P</i>	5.29	<i>H</i> 14.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 09 28	691	0.1−	0.4−	1997 10 23	691	0.2−	1.2+	2000 03 05	704	0.2−	0.9+
1997 09 28	691	0.0	0.1+	1997 10 23	691	0.0	0.8−	2000 03 05	704	0.4+	0.4−
1997 09 28	691	0.1−	0.1−	1997 10 23	691	(2.7−	1.1−)	2000 03 05	704	0.2+	0.2+
1997 10 07	691	0.1−	0.1−	2000 02 05	695	0.0	0.0	2000 03 10	691	0.1+	0.3−
1997 10 07	691	0.5+	0.6−	2000 02 05	695	0.0	0.0	2000 03 10	691	0.1+	0.3−
1997 10 07	691	0.5+	0.3+	2000 03 03	704	0.3−	1.0−	2000 03 10	691	0.3+	0.2−
1997 10 09	691	0.4−	0.1−	2000 03 03	704	0.8+	0.0	2000 03 10	691	0.0	0.3−
1997 10 09	691	0.1+	0.3+	2000 03 03	704	0.6+	0.2+	2000 03 10	691	0.3−	0.1−
1997 10 09	691	0.1−	0.1+	2000 03 05	704	1.6−	1.1+	2000 03 10	691	0.3−	0.0

1997 TM₁ = 2000 EL₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	270.60962	(2000.0)	P	Q
<i>n</i>	0.26339793	<i>ω</i> 104.34935	+0.29886481	+0.95429512
<i>a</i>	2.4102447	<i>Ω</i> 183.04043	−0.88127091	+0.27567268
<i>e</i>	0.1560906	<i>i</i> 0.86609	−0.36611666	+0.11543567
<i>P</i>	3.74	<i>H</i> 15.6	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1997 09 01	566	0.6−	0.3+	1997 10 04	910	0.1−	0.0	2000 03 10	704	0.3−	0.4+
1997 09 01	566	0.1−	0.0	1997 10 04	910	0.0	0.1−	2000 03 10	704	0.8+	0.7−
1997 09 01	566	0.7+	0.5−	1997 10 04	910	0.1−	0.3−	2000 03 10	704	0.0	0.8−
1997 10 01	910	0.0	0.4+	2000 03 09	704	0.3−	0.1−	2000 03 11	704	0.3+	1.1+
1997 10 01	910	0.0	0.3+	2000 03 09	704	0.2+	0.4+	2000 03 11	704	0.1+	0.4+
1997 10 01	910	0.1+	0.3+	2000 03 09	704	0.3+	0.4+	2000 03 11	704	0.1+	0.4+
1997 10 03	910	0.3+	0.2−	2000 03 09	704	0.6−	0.5+	2000 03 11	704	0.7−	0.3−
1997 10 03	910	0.1−	0.1+	2000 03 09	704	0.5−	0.1−	2000 03 11	704	0.1−	0.9−
1997 10 03	910	0.3−	0.0	2000 03 10	704	0.8+	0.6−				

1997 TZ₁₀ = 2000 EH₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	327.50317	(2000.0)	P	Q
<i>n</i>	0.23158781	<i>ω</i> 39.13924	−0.79153800	+0.61111388
<i>a</i>	2.6261866	<i>Ω</i> 178.52275	−0.58387051	−0.75492027
<i>e</i>	0.1374581	<i>i</i> 6.06481	−0.18045171	−0.23798155
<i>P</i>	4.26	<i>H</i> 16.6	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 09 06	910	0.3+	0.3+	1997 10 03	691	0.4+	0.7−	2000 03 10	704	0.1−	0.4+
1997 09 06	910	0.0	0.2−	1997 10 07	691	0.6−	0.2+	2000 03 11	704	0.5+	1.1−
1997 09 06	910	0.0	0.0	1997 10 07	691	0.6+	0.2−	2000 03 11	704	0.6−	0.1+
1997 09 06	910	0.1−	0.0	1997 10 07	691	0.3−	1.4+	2000 03 11	704	0.6+	0.5−
1997 09 06	910	0.2−	0.1−	2000 03 10	704	0.2+	0.3+	2000 03 11	704	0.2−	0.4−
1997 09 06	910	0.3+	0.2+	2000 03 10	704	0.3−	0.2+	2000 03 11	704	0.2+	0.3−
1997 10 03	691	0.3−	0.2−	2000 03 10	704	0.3+	0.7+				
1997 10 03	691	0.0	0.4−	2000 03 10	704	0.6−	0.8+				

1997 TJ₁₁ = 2000 DJ₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	234.48342	(2000.0)	P	Q
<i>n</i>	0.21459854	<i>ω</i> 315.16829	+0.62916836	+0.77705719
<i>a</i>	2.7630254	<i>Ω</i> 353.74150	−0.65827227	+0.52028560
<i>e</i>	0.2307394	<i>i</i> 9.58203	−0.41330955	+0.35423864
<i>P</i>	4.59	<i>H</i> 14.1	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 10 03	691	0.3+	0.0	1997 10 10	691	0.0	0.1+	2000 03 03	704	0.1+	0.3+
1997 10 03	691	0.3+	0.3−	1997 10 10	691	0.1+	0.1−	2000 03 03	704	0.3−	1.1−
1997 10 03	691	0.3+	0.2−	1997 10 10	608	0.0	0.4+	2000 03 03	704	0.8−	0.5−
1997 10 08	691	0.3+	0.1−	1997 10 10	608	0.1−	0.7+	2000 03 03	704	0.6−	0.7−
1997 10 08	691	1.0+	0.0	1997 10 11	691	0.3+	0.1−	2000 03 11	704	0.2−	0.7−
1997 10 08	691	0.0	0.4−	1997 10 11	691	0.3+	0.0	2000 03 11	704	0.2+	0.2−
1997 10 09	691	0.5−	0.0	1997 10 11	691	0.3+	0.1−	2000 03 11	704	0.2+	0.2−
1997 10 09	691	0.6−	0.0	2000 02 29	704	1.1+	0.7+	2000 03 11	704	0.2+	0.6−
1997 10 09	608	0.8−	0.2+	2000 02 29	704	0.3+	0.0	2000 03 11	704	0.4+	0.5+
1997 10 09	608	1.0−	0.1+	2000 02 29	704	0.3+	1.5+				
1997 10 10	691	0.0	0.2−	2000 03 03	704	0.8−	0.9+				

1997 TB₁₈ = 1997 TH₂₄ = 2000 DW₁₅Id. G. V. Williams (d, *MPC* 30915; unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	253.31186		(2000.0)	Williams	
		<i>P</i>	<i>Q</i>		
<i>n</i>	0.19245934	ω	286.95540	+0.30097009	+0.95363212
<i>a</i>	2.9710506	Ω	0.56859	-0.79844951	+0.25294961
<i>e</i>	0.0899042	<i>i</i>	9.67798	-0.52143589	+0.16310203
<i>P</i>	5.12	<i>H</i>	12.9	<i>G</i>	0.15

Residuals in seconds of arc

1997 10 04	141	(3.1+	3.0+)	1997 10 20	327	0.1+	0.4+	2000 02 27	703	0.5-	0.2+
1997 10 04	141	(4.3+	3.4+)	1997 10 25	124	(4.2+	0.4-)	2000 02 27	703	0.1-	0.2-
1997 10 04	141	(3.8+	3.8+)	1997 10 25	124	0.4+	1.4+	2000 02 27	703	0.3-	0.1-
1997 10 05	327	1.1-	0.7+	1997 10 27	959	(1.4+	2.2-)	2000 03 02	703	0.4-	0.1+
1997 10 05	327	0.1+	0.5+	1997 10 27	959	0.0	0.0	2000 03 02	703	0.3-	0.6+
1997 10 05	327	1.0+	1.0+	1997 10 30	141	0.9+	0.4+	2000 03 02	703	0.2+	0.3+
1997 10 08	132	0.3-	0.3+	1997 10 30	141	0.2-	0.8-	2000 03 02	703	0.1+	0.9+
1997 10 08	132	(2.1+	0.6-)	1997 10 30	141	0.6-	0.4+	2000 03 08	704	0.5+	0.1+
1997 10 08	132	(1.8-	2.7+)	1997 11 02	141	0.7+	0.1-	2000 03 08	704	0.7-	0.8+
1997 10 09	627	0.1-	1.5-	1997 11 02	141	0.3+	0.3-	2000 03 08	704	1.6+	0.0
1997 10 09	627	1.0-	0.7-	1997 11 02	141	0.1+	0.9+	2000 03 08	704	0.1+	0.3+
1997 10 09	627	0.7-	0.0	1997 11 02	141	1.2+	0.5+	2000 03 08	704	0.9+	0.5+
1997 10 11	327	0.7-	0.4+	1998 12 17	704	0.7+	0.5-	2000 03 11	704	0.3+	0.3+
1997 10 11	327	0.5-	0.0	1998 12 17	704	0.1-	0.8+	2000 03 11	699	0.3-	0.3+
1997 10 11	327	0.6-	0.1+	1998 12 17	704	1.2+	0.8-	2000 03 11	704	0.0	0.1-
1997 10 11	327	0.7-	0.4+	1998 12 17	704	0.7-	1.1-	2000 03 11	704	0.1+	0.1+
1997 10 13	327	0.7-	0.0	1998 12 17	704	1.4-	0.5-	2000 03 11	699	0.5-	0.1+
1997 10 13	327	0.4-	0.3-	2000 02 11	704	0.3+	0.3-	2000 03 11	704	0.2+	0.0
1997 10 13	327	0.5-	0.5-	2000 02 11	704	0.2+	0.3-	2000 03 11	699	0.2-	0.2-
1997 10 13	327	0.1-	0.4-	2000 02 11	704	0.8+	0.5-	2000 03 11	704	0.4+	0.1+
1997 10 20	327	0.5+	0.7+	2000 02 11	704	0.4-	0.5+	2000 03 11	699	0.4-	0.1+
1997 10 20	327	0.7+	0.1+	2000 02 27	703	0.7+	0.4-				

1997 TA₂₅ = 2000 DR₅₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	182.20362		(2000.0)	Williams	
		<i>P</i>	<i>Q</i>		
<i>n</i>	0.18440531	ω	147.27564	+0.92245859	+0.38607057
<i>a</i>	3.0569413	Ω	190.01709	-0.35949358	+0.85465312
<i>e</i>	0.1400875	<i>i</i>	1.46114	-0.14083510	+0.34715638
<i>P</i>	5.34	<i>H</i>	13.9	<i>G</i>	0.15

Residuals in seconds of arc

1997 10 07	824	0.0	0.1-	2000 02 02	704	0.6+	1.1+	2000 03 11	704	0.8+	1.0+
1997 10 07	824	0.0	0.1+	2000 02 02	704	0.1-	1.5+	2000 03 11	704	0.2+	0.1-
1997 10 07	824	0.2+	0.1-	2000 02 28	691	0.9-	0.5-	2000 03 11	704	0.2-	0.0
1997 10 08	824	0.1-	0.4+	2000 02 28	691	0.7-	0.4-	2000 03 11	699	0.7+	0.3-
1997 10 08	824	0.0	0.3+	2000 02 28	691	0.6-	0.6-	2000 03 11	704	0.2-	0.7+
1997 10 08	824	0.1+	0.4+	2000 02 29	704	0.5+	0.4-	2000 03 11	704	0.0	0.2+
1997 10 20	824	0.2+	0.9-	2000 02 29	704	0.4+	0.2-	2000 03 11	699	0.2+	0.2-
1997 10 20	824	0.2+	0.3-	2000 02 29	704	0.8+	0.3-	2000 03 11	699	0.6-	0.3+
1997 10 20	824	0.4-	0.1-	2000 02 29	704	0.6+	0.9+	2000 03 11	699	0.4+	0.1-
1997 10 26	824	0.0	0.1+	2000 03 03	704	0.0	0.6-	2000 03 15	691	0.3-	0.2-
1997 10 26	824	0.0	0.1-	2000 03 03	704	0.5-	0.2-	2000 03 15	691	0.3-	0.4-
1997 10 26	824	0.1-	0.0	2000 03 03	704	0.1+	0.1-	2000 03 15	691	0.5-	0.4-
2000 02 02	704	0.1-	0.5-	2000 03 03	704	0.5-	0.2-				
2000 02 02	704	0.2+	0.1-	2000 03 03	704	0.1-	0.1+				

1997 TM₂₇ = 1976 SN = 1976 SR₇ = 2000 EQ₂₅

Id. G. V. Williams, H. Oishi (d, JAM 1336)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	238.07187		(2000.0)	Williams	
		<i>P</i>	<i>Q</i>		
<i>n</i>	0.23554368	ω	312.45710	+0.80300527	+0.59590942
<i>a</i>	2.5966998	Ω	10.97483	-0.53262669	+0.72407680
<i>e</i>	0.2420647	<i>i</i>	2.59847	-0.26737864	+0.34728195
<i>P</i>	4.18	<i>H</i>	13.5	<i>G</i>	0.15

Residuals in seconds of arc

1976 09 25	095	1.7+	0.3-	1997 12 25	566	0.4-	0.5-	2000 03 09	691	0.6-	0.0
1976 09 29	049	0.4-	1.3-	1997 12 25	566	0.1-	0.0	2000 03 09	691	0.5-	0.2-
1976 09 29	049	0.7-	0.6-	1997 12 25	566	0.4-	0.1+	2000 03 10	704	0.8+	0.2-
1976 09 30	049	0.1+	0.4+	1998 12 21	704	0.2-	0.9-	2000 03 10	704	0.5+	0.2+
1976 09 30	049	0.2+	0.0	1998 12 21	704	(0.6+	2.8-)	2000 03 10	704	0.9+	0.4-
1997 10 08	894	0.8-	0.7+	1998 12 21	704	0.8+	0.1-	2000 03 10	704	0.4+	0.7-
1997 10 08	894	0.8+	0.6+	1998 12 21	704	1.3-	1.9-	2000 03 10	704	(1.4+	2.3-)
1997 10 25	894	0.8-	1.2+	1998 12 21	704	(5.2-	0.9+)	2000 03 11	704	0.3+	0.4+
1997 10 25	894	1.6-	0.5+	2000 03 04	688	0.0	1.9+	2000 03 11	704	0.2-	0.2+
1997 10 26	894	1.3-	0.6+	2000 03 04	688	0.1-	0.4+	2000 03 11	704	0.1-	0.7+
1997 10 26	894	1.3-	0.7+	2000 03 08	704	0.6+	0.7+	2000 03 11	704	0.5+	1.1+
1997 10 30	704	(2.1+	0.8+)	2000 03 08	691	0.5-	0.3-	2000 03 11	704	0.0	0.5+
1997 10 30	704	1.6+	0.0	2000 03 08	704	0.2-	0.3+	2000 03 11	704	0.8+	0.5+
1997 10 30	704	0.3+	1.2+	2000 03 08	704	0.7+	0.5+	2000 03 11	704	0.3+	0.4+
1997 10 30	704	0.3+	0.8+	2000 03 08	691	0.6-	0.2-	2000 03 11	704	0.4+	0.7+
1997 10 30	704	0.9+	0.4+	2000 03 08	704	1.1+	1.7+	2000 03 11	704	0.3-	0.3-
1997 10 30	566	0.4-	0.0	2000 03 08	704	0.6+	0.5+	2000 03 11	704	1.0-	1.9-
1997 10 30	566	0.1+	0.1+	2000 03 08	691	0.6-	0.2-				
1997 10 30	566	0.2-	0.2-	2000 03 09	691	0.5-	0.2-				

1997 UN₈ = 1983 RY₆ = 2000 DK₁₀₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	256.53880		(2000.0)	Williams	
		<i>P</i>	<i>Q</i>		
<i>n</i>	0.21599165	ω	259.71128	+0.26396362	+0.96303955
<i>a</i>	2.7511319	Ω	25.78826	-0.82964924	+0.25506645
<i>e</i>	0.2185929	<i>i</i>	7.08339	-0.49194038	+0.08657903
<i>P</i>	4.56	<i>H</i>	13.1	<i>G</i>	0.15

Residuals in seconds of arc

1983 09 06	095	0.5-	0.5+	1997 11 02	358	1.0-	1.6+	2000 02 29	704	0.1+	0.6+
1996 03 24	809	0.7+	0.4-	1997 11 03	358	1.0-	0.6+	2000 02 29	704	0.3-	0.1-
1996 03 24	809	0.9+	0.6-	1997 11 03	358	(0.3+	2.2+)	2000 02 29	704	0.1-	0.4+
1996 03 24	809	0.1-	0.1-	1997 11 03	358	(3.5-	0.6-)	2000 02 29	704	0.7-	0.1-
1996 05 20	566	0.6+	1.0+	1998 12 14	704	1.1+	1.9-	2000 03 02	703	0.8-	0.1+
1996 05 20	566	0.4+	0.9+	1998 12 14	704	0.5-	0.1+	2000 03 02	703	0.1-	0.2+
1996 05 20	566	0.1-	1.5+	1998 12 14	704	(0.4+	2.4-)	2000 03 02	703	0.2+	0.5+
1997 10 11	399	0.4-	0.6+	1998 12 14	704	0.6+	0.5-	2000 03 02	703	0.5+	0.0
1997 10 11	399	1.3+	0.7-	1998 12 14	704	(1.2-	2.8-)	2000 03 05	704	0.2+	0.1+
1997 10 22	358	0.6-	1.8-	2000 02 04	704	0.0	0.2-	2000 03 05	704	0.7-	0.1-
1997 10 22	358	0.6-	1.0-	2000 02 04	704	0.7+	0.5+	2000 03 05	704	0.1+	0.2+
1997 10 23	358	0.5-	1.2+	2000 02 04	704	0.8+	0.0	2000 03 05	704	0.1-	0.2-
1997 10 23	358	0.4-	0.4+	2000 02 04	704	0.4-	0.8+	2000 03 05	704	0.3-	0.1+
1997 10 30	704	0.5-	1.1+	2000 02 04	704	0.3-	0.2-	2000 03 12	704	0.1+	0.1+
1997 10 30	704	0.1+	1.1+	2000 02 11	704	0.3+	0.2+	2000 03 12	704	0.2-	0.1-
1997 10 30	704	0.1-	0.9+	2000 02 11	704	0.4+	0.6+	2000 03 12	704	0.0	0.4+
1997 10 30	704	0.4-	0.5-	2000 02 11	704	0.6+	0.2+	2000 03 12	704	0.1+	0.2+
1997 10 30	704	0.2-	0.9+	2000 02 11	704	0.5+	0.7+	2000 03 12	704	0.1+	0.3+
1997 11 02	358	0.6+	1.4+	2000 02 29	704	0.3+	0.2+				

1997 UX₈ = 2000 DM₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	224.66910		(2000.0)	Williams	
		<i>P</i>	<i>Q</i>		
<i>n</i>	0.17283066	ω	222.58454	+0.28037406	+0.95520979
<i>a</i>	3.1919460	Ω	63.90026	-0.84986769	+0.29288066
<i>e</i>	0.1211233	<i>i</i>	6.05210	-0.44622336	+0.04236946
<i>P</i>	5.70	<i>H</i>	13.1	<i>G</i>	0.15

Residuals in seconds of arc

1997 10 27	360	0.4-	0.3+	1998 12 14	704	0.4+	0.6-	2000 02 11	704	0.5+	0.8-
1997 10 27	360	0.5-	0.5+	1998 12 14	704	0.3-	0.2+	2000 02 11	704	0.2-	1.0+
1997 10 27	360	0.5-	0.3+	1998 12 14	704	1.1+	0.5+	2000 02 11	704	0.3+	0.8+
1997 10 29	566	0.8-	0.8+	1998 12 14	704	0.9-	1.1-	2000 02 11	704	(0.0	2.3+)
1997 10 29	566	0.8-	0.4+	1998 12 14	704	(5.2-	1.1-)	2000 02 28	704	0.4-	0.1+
1997 10 29	566	0.1-	0.2+	1998 12 17	704	1.5+	1.3-	2000 02 28	704	0.2+	0.5+
1997 10 29	360	0.3+	0.6+	1998 12 17	704	0.9-	1.3-	2000 02 28	704	0.3+	0.6+

2000 MAR. 20

M.P.C. 39187

1997 10 29	360	0.1+	0.9+	1998 12 17	704	(2.3+	1.4-)	2000 02 28	704	0.3+	0.2+
1997 11 01	360	0.1+	0.1+	1998 12 17	704	0.2+	1.4-	2000 02 28	704	0.2+	1.3+
1997 11 01	360	0.1-	0.3+	1998 12 17	704	(2.9-	1.4-)	2000 03 04	704	0.0	0.2-
1997 11 01	360	0.0	0.0	2000 01 30	704	0.2+	0.1-	2000 03 04	704	0.1-	0.3+
1997 11 05	360	0.0	0.1+	2000 01 30	704	0.1-	0.3+	2000 03 04	704	0.4+	0.1-
1997 11 05	360	0.2+	0.0	2000 01 30	704	0.7-	0.6+	2000 03 04	704	0.3+	0.3-
1997 11 05	360	0.2+	0.2-	2000 01 30	704	0.1+	1.4+	2000 03 04	704	0.3+	0.2-

1997 UG₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	211.43183	(2000.0)		P	Q		
<i>n</i>	0.25917628	ω	282.15115	+0.54386477	-0.83849999		
<i>a</i>	2.4363474	Ω	134.84854	+0.78718049	+0.49588570		
<i>e</i>	0.1622954	<i>i</i>	2.71632	+0.29078856	+0.22586532		
<i>P</i>	3.80	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1984 05 30	413	1.5-	0.1-	1997 11 01	358	0.5-	0.5-	1997 11 29	704	0.2-	0.4-
1984 05 30	413	1.4+	0.7+	1997 11 01	358	0.7-	0.9+	1998 02 22	327	0.0	0.4-
1987 01 01	675	1.5-	1.0+	1997 11 03	358	0.1+	0.5+	1998 02 22	327	0.3+	0.7+
1987 01 01	675	1.5+	1.0-	1997 11 03	358	0.7-	0.4-	1998 02 22	327	0.0	0.0
1989 09 24	413	0.5+	0.7-	1997 11 24	358	(3.1-	1.5-)	1998 02 23	327	0.2+	0.3+
1989 09 24	413	0.2+	1.0+	1997 11 24	358	0.4+	0.5+	1998 02 23	327	0.1-	0.3+
1993 11 07	413	1.5-	0.1+	1997 11 29	704	0.4+	0.6-	1998 02 23	327	0.5-	0.3-
1993 11 07	413	0.2+	0.3+	1997 11 29	704	1.3+	0.8-	1998 02 26	327	0.5+	0.7+
1997 10 29	358	0.0	1.0-	1997 11 29	704	0.4+	0.5+	1998 02 26	327	0.3+	0.1+
1997 10 29	358	0.7-	0.1+	1997 11 29	704	0.5+	0.4+	1998 02 26	327	0.2-	0.1+

1997 UD₂₁ = 2000 EF₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	182.98058	(2000.0)		P	Q		
<i>n</i>	0.17370318	ω	358.56945	+0.96134872	+0.27456688		
<i>a</i>	3.1812481	Ω	345.44429	-0.25179539	+0.84654231		
<i>e</i>	0.1564746	<i>i</i>	4.68660	-0.11138992	+0.45604730		
<i>P</i>	5.67	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 10 31	327	0.6-	0.0	1997 11 19	327	0.4+	0.3-	2000 03 09	691	0.4-	0.0
1997 10 31	327	0.2-	0.3+	1997 11 19	327	1.2+	1.3-	2000 03 09	691	0.1-	0.0
1997 10 31	327	0.6-	0.2+	2000 02 25	691	0.4+	0.4-	2000 03 11	704	0.5-	0.7+
1997 10 31	327	0.8-	0.2+	2000 02 25	691	0.4+	0.7-	2000 03 11	704	1.2-	0.9-
1997 11 01	327	0.0	0.1+	2000 02 25	691	0.1-	0.2-	2000 03 11	704	0.1-	0.0
1997 11 01	327	0.2-	0.1+	2000 03 03	704	0.3-	0.6+	2000 03 11	704	0.9-	1.0-
1997 11 01	327	0.0	0.7+	2000 03 03	691	0.0	0.3-	2000 03 11	704	(1.3-	2.3-)
1997 11 03	327	0.1-	0.1-	2000 03 03	704	0.2+	1.1+	2000 03 11	704	0.1+	1.0-
1997 11 03	327	0.9-	0.0	2000 03 03	704	0.9+	1.3+	2000 03 11	704	0.6+	0.3-
1997 11 03	327	0.3-	0.1+	2000 03 03	691	0.0	0.6-	2000 03 11	704	0.2-	0.3-
1997 11 05	327	0.5+	0.3-	2000 03 03	704	0.5+	1.1+	2000 03 12	691	0.3+	0.2+
1997 11 05	327	0.5+	0.2-	2000 03 03	691	0.0	0.2-	2000 03 12	691	0.2+	0.1+
1997 11 05	327	0.6+	0.4+	2000 03 03	704	0.2+	0.8+	2000 03 12	691	0.2+	0.2+
1997 11 19	327	0.7+	0.0	2000 03 09	691	0.3-	0.1+				

1997 UA₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	273.76152	(2000.0)		P	Q		
<i>n</i>	0.28425842	ω	252.40675	+0.99521895	+0.01479494		
<i>a</i>	2.2908351	Ω	106.66106	+0.02200718	+0.92907190		
<i>e</i>	0.2015263	<i>i</i>	5.78366	-0.09515734	+0.36960318		
<i>P</i>	3.47	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 03 25	413	0.1+	0.4-	1997 11 09	408	0.5-	0.2+	1998 02 23	327	0.2-	0.6-
1996 03 25	413	0.8+	0.2+	1997 11 09	408	0.3+	0.2+	1998 02 27	327	0.2-	0.6+
1996 04 18	413	0.8-	0.4+	1997 11 09	408	1.2-	0.5+	1998 02 27	327	0.2+	0.2-
1997 10 25	408	(2.8+	0.9+)	1997 11 28	566	0.4+	0.6+	1998 02 27	327	0.1-	0.1+

1997 10 25	408	0.3+	0.2-	1997 11 28	566	0.6+	0.8+	1998 02 27	327	0.9-	1.6-
1997 10 25	408	0.9+	0.6-	1997 11 28	566	1.6+	1.0+	1998 02 27	327	0.1+	0.3-
1997 10 27	408	0.7-	0.3-	1998 02 02	691	0.1+	0.1-	1998 02 27	327	0.2-	0.3-
1997 10 27	408	0.8-	1.3-	1998 02 02	691	0.2-	0.3-	1998 02 27	327	0.1-	0.5-
1997 10 27	408	0.9-	1.8-	1998 02 02	691	0.3-	0.1-	1999 04 12	704	1.3+	0.8-
1997 10 30	566	0.1+	0.5+	1998 02 23	327	1.2+	1.8+	1999 04 12	704	1.3-	0.7+
1997 10 30	566	0.1+	0.7+	1998 02 23	327	0.0	0.0	1999 04 12	704	(2.2+	4.1-)
1997 10 30	566	0.0	0.6+	1998 02 23	327	0.3+	0.2+	1999 04 12	704	(2.5-	0.5-)

1997 VA₁ = 1999 CR₁₄₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	260.03871	(2000.0)		P	Q		
<i>n</i>	0.26976983	ω	17.94558	+0.90449235	+0.42603839		
<i>a</i>	2.3721408	Ω	316.82106	-0.39472662	+0.81882401		
<i>e</i>	0.2205708	<i>i</i>	1.64288	-0.16150690	+0.38473175		
<i>P</i>	3.65	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 10 28	809	0.6+	0.8-	1997 11 03	046	0.8-	1.7+	1997 11 04	046	0.2+	0.3+
1997 10 28	809	1.0-	1.0+	1997 11 03	046	1.4-	1.0-	1997 11 04	046	0.2+	0.1-
1997 11 02	046	0.4+	0.1-	1997 11 03	046	1.1-	0.7-	1999 02 10	691	0.0	0.1+
1997 11 02	046	0.5+	0.0	1997 11 04	046	0.7-	0.9-	1999 02 10	691	0.2+	0.1-
1997 11 02	046	0.7+	0.2-	1997 11 04	046	0.0	0.7-	1999 02 10	691	0.4+	1.9+
1997 11 02	046	0.2+	0.1+	1997 11 04	046	0.5+	0.1+	1999 02 14	691	0.1-	0.7-
1997 11 02	046	0.4+	0.1+	1997 11 04	046	0.3+	0.3+	1999 02 14	691	0.2+	0.6-
1997 11 03	046	0.1-	0.1+	1997 11 04	046	0.7+	0.5+	1999 02 14	691	0.8-	0.6-

1997 VM₆ = 1988 VE₉

Id. A. Gnädig, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	222.14862	(2000.0)		P	Q		
<i>n</i>	0.23641400	ω	159.81594	+0.09020594	-0.97404819		
<i>a</i>	2.5903230	Ω	284.56134	+0.88177896	+0.17500598		
<i>e</i>	0.1248622	<i>i</i>	12.38489	+0.46295653	-0.14353757		
<i>P</i>	4.17	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1954 07 28	675	1.1-	0.8-	1997 11 10	557	0.2+	0.1-	1998 01 08	557	0.3-	0.1+
1954 07 28	675	1.3+	0.6+	1997 11 11	557	0.0	0.2-	1998 01 17	557	0.3+	0.2+
1988 09 18	675	0.3-	0.1-	1997 11 11	557	0.0	0.2-	1998 01 17	557	0.3+	0.0
1988 09 18	675	0.0	1.1-	1997 11 19	557	0.3+	0.3+	1998 01 29	566	0.0	0.3-
1988 11 13	054	0.4+	0.2+	1997 11 19	557	(2.2-	0.6+)	1998 01 29	566	0.0	0.3-
1991 09 07	413	1.5+	0.7-	1997 11 19	557	0.1-	0.0	1998 01 29	566	0.3-	0.2-
1991 09 07	413	1.0-	1.6-	1997 11 19	557	0.2+	0.1+	1998 02 25	566	0.4-	0.3-
1992 09 30	675	(1.3+	3.1-)	1997 11 19	557	0.5-	0.2-	1998 02 25	566	0.2-	0.2-
1992 09 30	675	(1.3+	4.0-)	1997 11 19	557	0.1-	0.4-	1998 02 25	566	0.2-	0.4-
1997 11 10	557	0.1+	0.2-	1998 01 08	557	0.3-	0.0				

1997 VA₈

Id. A. Gnädig (1992, 1993 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	338.04816	(2000.0)		P	Q		
<i>n</i>	0.27254945	ω	258.44643	+0.47512090	+0.87547677		
<i>a</i>	2.3559849	Ω	40.30795	-0.74472033	+0.45354935		
<i>e</i>	0.1020745	<i>i</i>	7.84711	-0.46867021	+0.16683350		
<i>P</i>	3.62	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

M.P.C. 39188

1997 11 06	327	0.5−	0.7+	1997 11 29	704	0.6+	1.0−	1999 02 23	699	0.4+	0.0
1997 11 06	327	0.4−	0.7+	1997 11 29	704	(4.6−	1.5−)	1999 04 18	703	1.3+	0.1+
1997 11 07	327	0.0	1.0+	1997 12 04	704	0.1−	0.5−	1999 04 18	703	0.5−	0.1+
1997 11 07	327	0.1+	1.1+	1997 12 04	704	1.6+	0.8−	1999 04 18	703	0.9−	0.7+
1997 11 07	327	0.1+	1.0+	1997 12 04	704	0.9−	1.5−	1999 04 18	703	1.1−	1.3+
1997 11 07	327	0.1+	1.1+	1997 12 04	704	0.3+	0.2+				
1997 11 19	327	0.9−	0.9−	1997 12 04	704	(1.5+	2.4−)				

1997 WL₄₆ = 1999 KX₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	214.18262		(2000.0)	P	Q						
<i>n</i>	0.26164375	<i>ω</i>	247.26991	+0.40833120	−0.91283349						
<i>a</i>	2.4210057	<i>Ω</i>	178.62926	+0.84936664	+0.37961776						
<i>e</i>	0.2011704	<i>i</i>	1.92778	+0.33442780	+0.15041731						
<i>P</i>	3.77	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

1997 09 27	910	0.3+	0.1−	1997 11 29	704	0.1−	0.4+	1999 05 16	691	0.1+	0.3+
1997 09 27	910	0.1−	0.0	1997 11 29	704	0.9−	0.3+	1999 05 16	691	0.6+	0.2−
1997 09 27	910	0.3−	0.3+	1997 11 29	704	0.3−	0.6+	1999 05 16	691	0.5+	0.1+
1997 11 26	704	0.0	1.5+	1997 12 04	704	0.6+	0.6−	1999 05 19	691	0.1−	0.2−
1997 11 26	704	0.2−	1.2+	1997 12 04	704	0.0	1.2−	1999 05 19	691	0.6−	0.2+
1997 11 26	704	0.3+	0.6+	1997 12 04	704	0.7+	0.7−	1999 05 19	691	0.2−	0.5+
1997 11 29	704	0.2−	0.0	1997 12 04	704	0.1+	0.8−				
1997 11 29	704	0.3−	0.1−	1997 12 04	704	0.0	1.0−				

1997 XX₁

Id. A. Gnädig (1989, 1990, 1993 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	227.14664		(2000.0)	P	Q						
<i>n</i>	0.24619456	<i>ω</i>	282.76204	+0.78677984	−0.60749359						
<i>a</i>	2.5212568	<i>Ω</i>	114.75156	+0.60263943	+0.71780278						
<i>e</i>	0.1665786	<i>i</i>	6.90762	+0.13342863	+0.34016277						
<i>P</i>	4.00	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3				

Residuals in seconds of arc

1989 11 30	675	0.7−	0.6+	1997 12 03	905	1.0+	1.3−	1999 03 23	703	0.4+	0.3+
1989 11 30	675	0.1+	0.0	1997 12 10	886	0.7+	0.1+	1999 03 23	703	0.2−	0.3+
1990 01 26	675	0.6+	0.2+	1997 12 10	886	0.1+	0.0	1999 03 23	703	0.8−	1.0+
1990 01 26	675	0.2+	0.3−	1997 12 29	566	0.2−	0.4+	1999 03 23	703	0.8−	1.8+
1993 11 09	675	0.1−	0.4+	1997 12 29	566	0.1+	0.4+	1999 04 12	704	0.1−	0.2−
1997 11 07	675	0.5−	0.4+	1997 12 29	566	0.0	0.5+	1999 04 12	704	(2.8−	0.3+)
1997 11 07	675	0.0	0.6+	1997 12 31	385	0.3+	0.2−	1999 04 12	704	1.0+	0.8−
1997 12 02	905	1.0+	1.3−	1997 12 31	385	0.1+	0.1+	1999 04 12	704	1.2+	1.1−
1997 12 02	905	0.5+	0.5−	1998 01 05	886	1.7−	0.2+	1999 04 12	704	0.6−	1.4−
1997 12 03	905	0.2−	0.0	1998 01 05	886	1.5−	0.3−				

1997 XY₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	234.41902		(2000.0)	P	Q						
<i>n</i>	0.21095118	<i>ω</i>	321.55801	−0.14394607	−0.98762573						
<i>a</i>	2.7947829	<i>Ω</i>	136.61651	+0.92886657	−0.15654148						
<i>e</i>	0.0306159	<i>i</i>	5.19963	+0.34130107	+0.00949692						
<i>P</i>	4.67	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1				

Residuals in seconds of arc

1956 04 09	675	0.2−	0.6−	1997 12 06	910	1.4−	1.2−	1998 04 19	704	(0.5+	2.7−)
1956 04 09	675	0.8+	1.7−	1997 12 06	910	1.7−	1.0−	1998 04 19	704	0.3−	0.2−
1984 03 11	413	2.0−	1.7+	1998 03 22	691	0.5+	0.5−	1998 04 20	704	0.4+	0.3+
1984 03 11	413	1.4−	1.3+	1998 03 22	691	0.5+	0.6−	1998 04 20	704	0.6+	0.7+
1990 09 23	413	0.9−	0.8−	1998 03 22	691	0.8+	0.9−	1998 04 20	704	0.3+	0.9+
1990 09 23	413	0.4−	0.8−	1998 03 28	704	0.1+	0.2+	1998 04 20	704	0.4−	0.6+
1990 09 23	413	0.1+	0.0	1998 03 28	704	0.3+	0.5+	1998 04 20	704	0.4+	1.1+
1991 10 18	675	1.6−	0.2−	1998 03 28	704	0.6+	0.4−	1998 04 22	704	0.2−	0.1−

2000 MAR. 20

1991 10 18	675	0.6+	0.1+	1998 03 28	704	0.7+	0.5+	1998 04 22	704	0.4−	0.1+
1991 11 10	675	2.0+	1.7+	1998 03 28	704	1.1+	0.9−	1998 04 22	704	0.2+	0.4+
1993 04 15	675	0.2−	0.1−	1998 03 29	704	0.2+	0.4−	1998 04 22	704	1.0+	0.3−
1996 10 10	675	0.8+	0.5+	1998 03 29	704	0.9+	0.3+	1998 04 22	704	1.0−	0.8+
1996 10 12	675	1.6−	0.2−	1998 03 29	704	0.5+	0.2−	1999 06 15	704	0.7+	0.1+
1997 12 04	910	1.3−	0.8−	1998 03 29	704	1.5+	0.4+	1999 06 15	704	0.6+	0.2+
1997 12 04	910	1.9−	1.5−	1998 03 29	704	0.4−	0.4+	1999 06 15	704	0.6−	0.5+
1997 12 04	910	1.9−	0.9−	1998 04 19	704	0.1+	0.1+	1999 06 15	704	0.5−	0.6−
1997 12 06	910	1.5−	1.2−	1998 04 19	704	0.3+	0.4+	1999 06 15	704	0.1−	0.7−

1997 XH₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	234.18808		(2000.0)	P	Q						
<i>n</i>	0.28048968	<i>ω</i>	140.98590	−0.60224616	−0.79816920						
<i>a</i>	2.3113096	<i>Ω</i>	346.02393	+0.71598578	−0.53172548						
<i>e</i>	0.0818075	<i>i</i>	3.56465	+0.35307778	−0.28318536						
<i>P</i>	3.51	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	2				

Residuals in seconds of arc

1954 09 06	675	0.7−	0.1+	1998 02 27	566	0.1−	0.1+	1998 03 20	704	0.4+	0.1−
1954 09 06	675	0.5+	0.2−	1998 02 27	566	0.2+	0.1+	1998 03 20	704	1.7−	0.1−
1991 01 23	675	0.7+	0.1+	1998 03 03	704	0.4+	0.9−	1998 03 20	704	0.6+	2.7+
1991 01 23	675	1.3+	1.1+	1998 03 03	704	0.9+	0.3−	1998 03 20	704	0.1+	0.6−
1993 10 19	675	0.6+	0.6−	1998 03 03	704	(2.0+	0.6−)	1998 03 22	704	0.7−	1.1−
1997 12 06	910	0.4−	0.2+	1998 03 03	704	0.6+	0.1−	1998 03 22	704	1.7+	0.5−
1997 12 06	910	0.2−	0.1−	1998 03 03	704	0.2+	0.3−	1998 03 22	704	0.2−	0.3−
1997 12 06	910	0.1+	0.5−	1998 03 04	704	1.8−	1.1+	1998 03 22	704	0.0	1.3−
1997 12 07	910	0.5−	0.2+	1998 03 04	704	1.5−	1.3+	1998 03 22	704	(2.6−	0.1−)
1997 12 07	910	0.1+	0.2+	1998 03 04	704	(2.1−	0.1+)	1998 03 26	704	1.3+	0.9−
1997 12 07	910	0.4−	0.7+	1998 03 04	704	1.4−	0.2−	1998 03 26	704	0.1−	0.0
1998 02 27	566	0.4+	0.3+	1998 03 04	704	(2.2−	0.8+)	1998 03 26	704	0.2−	0.4−

1997 YV = 1971 UM₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	269.26523		(2000.0)	P	Q						
<i>n</i>	0.26894729	<i>ω</i>	220.31213	+0.91961889	−0.39261878						
<i>a</i>	2.3769749	<i>Ω</i>	162.79324	+0.37026072	+0.85593107						
<i>e</i>	0.2128033	<i>i</i>	2.38536	+0.13117964	+0.33650037						
<i>P</i>	3.66	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4				

Residuals in seconds of arc

1971 10 21	095	0.2−	0.5+	1997 12 26	358	0.2+	0.5−	1999 04 12	704	1.0+	0.1−
1997 12 20	411	0.3+	0.5−	1997 12 28	411	(0.4+	2.5−)	1999 04 12	704	1.6−	1.5+
1997 12 20	411	0.7−	0.9+	1997 12 28	411	0.4−	1.7−	1999 04 12	704	0.6−	0.3+
1997 12 21	411	0.0	0.2+	1998 01 04	411	0.1+	0.9+	1999 04 12	704	(4.1−	1.3+)
1997 12 21	411	0.5−	0.2+	1998 01 04	411	0.5−	0.5+	1999 05 16	703	0.0	0.3+
1997 12 24	358	0.4−	1.4−	1998 01 16	411	0.0	0.6+	1999 05 16	703	0.6+	1.1−
1997 12 24	358	(2.8+	0.2−)	1998 01 16	411	0.9+	0.6+	1999 05 16	703	0.2+	0.1−
1997 12 26	358	1.0+	0.1+	1999 04 12	704	0.6+	0.3−	1999 05 16	703	(0.1+	2.3−)

1998 BJ₈

Id. A. Gnädig (1991 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	175.28120		(2000.0)	P	Q						
<i>n</i>	0.19159969	<i>ω</i>	333.35767	−0.22072259	−0.96709745						
<i>a</i>	2.9799308	<i>Ω</i>	129.12043	+0.92142118	−0.24928719						
<i>e</i>	0.1720115	<i>i</i>	9.38468	+0.31978829	+0.05077810						
<i>P</i>	5.14	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3				

Residuals in seconds of arc

1991 09 11	675	0.8+	0.8−	1998 01 26	411	0.9+	0.4+	1998 03 04	704	0.0	0.3+
1991 09 11	675	0.8−	1.0+	1998 01 31	411	0.8−	0.7−	1998 03 04	704	0.1−	0.2+
1998 01 07	691	0.7+	0.1−	1998 01 31	411	0.7−	0.1−	1998 03 04	704	0.2−	0.1−
1998 01 07	691	0.5+	0.3−	1998 02 21	411	0.2−	0.3+	1998 03 04	704	0.5+	0.6+

2000 MAR. 20

M.P.C. 39189

1998 01 07	691	0.2+	0.2−	1998 02 21	411	0.4+	0.3−	1998 03 04	704	0.3+	0.2−
1998 01 24	566	0.5+	0.4−	1998 03 01	699	1.3−	0.9+	1999 06 06	703	1.1+	1.6−
1998 01 24	566	0.5+	0.3−	1998 03 01	699	0.6−	0.2−	1999 06 06	703	0.4+	1.0+
1998 01 24	566	0.4+	0.3−	1998 03 01	699	1.0+	0.0	1999 06 06	703	0.7−	0.2−
1998 01 25	411	0.3−	0.2−	1998 03 03	699	0.2−	0.6+	1999 06 06	703	0.9−	0.7+
1998 01 25	411	0.1+	0.2+	1998 03 03	699	1.4−	0.9+				
1998 01 26	411	0.4+	0.2−	1998 03 03	699	0.6−	0.8−				

1998 BU₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	41.60287		(2000.0)	P	Q
<i>n</i>	0.00509794	ω	282.27176	+0.55108705	−0.81462936
<i>a</i>	33.4353563	Ω	132.75638	+0.82877977	+0.50913571
<i>e</i>	0.3892132	<i>i</i>	14.25359	+0.09709354	+0.27777659
<i>P</i>	193.33	<i>H</i>	7.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 01 22	691	0.2−	0.2−	1998 02 03	691	0.4+	0.0	2000 03 12	709	0.3+	0.1−
1998 01 22	691	0.3+	0.0	2000 02 05	695	0.0	0.1−	2000 03 12	709	0.3+	0.0
1998 01 22	691	0.1+	0.1−	2000 02 05	695	0.1−	0.0	2000 03 12	709	0.2−	0.5+
1998 01 29	691	0.1+	0.1+	2000 03 01	695	0.1+	0.3−	2000 03 12	709	0.3−	0.1+
1998 01 29	691	0.5−	0.4+	2000 03 01	695	0.0	0.1+	2000 03 12	709	0.2+	0.1−
1998 01 29	691	0.2−	0.3−	2000 03 01	695	0.3−	0.3+	2000 03 12	709	0.4−	0.0
1998 02 03	691	0.1+	0.0	2000 03 03	688	0.3+	0.1−				
1998 02 03	691	0.1−	0.0	2000 03 03	688	0.3+	0.3−				

1998 CL

Id. A. Gnädig (1991 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	272.04925		(2000.0)	P	Q
<i>n</i>	0.27220194	ω	277.20331	+0.72392947	−0.68782628
<i>a</i>	2.3579897	Ω	126.27231	+0.65609905	+0.66264848
<i>e</i>	0.2074921	<i>i</i>	3.77745	+0.21321390	+0.29629715
<i>P</i>	3.62	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1991 01 23	675	0.1−	1.0+	1998 02 02	867	0.0	0.7+	1998 03 25	867	0.1−	0.1+
1991 01 23	675	0.8+	1.0+	1998 02 05	867	0.2−	0.5+	1998 03 25	867	0.2+	0.1−
1998 01 26	691	0.6−	1.9−	1998 02 05	867	0.2−	0.5+	1998 03 25	867	0.1−	0.1−
1998 01 26	566	0.1+	0.2−	1998 02 05	867	0.1−	0.3+	1999 05 13	704	0.6−	0.2+
1998 01 26	566	0.1−	0.1−	1998 02 18	867	0.5−	0.5−	1999 05 13	704	(0.5−	2.8−)
1998 01 26	566	0.3−	0.0	1998 02 18	867	0.8−	0.1+	1999 05 13	704	0.4−	1.3−
1998 01 29	691	0.4−	0.1−	1998 02 18	867	0.2−	0.4−	1999 05 13	704	(5.3−	0.2+)
1998 01 29	691	0.4−	0.0	1998 02 22	867	0.0	0.4−	1999 05 17	703	0.1+	0.9+
1998 02 01	867	0.6+	0.3+	1998 02 22	867	0.0	0.5−	1999 05 17	703	1.6+	0.4+
1998 02 01	867	0.0	0.6+	1998 02 22	867	0.2+	0.4−	1999 05 17	703	0.5−	0.2+
1998 02 01	867	0.2+	0.3+	1998 03 02	867	0.9+	0.6−	1999 05 17	703	0.3−	0.7−
1998 02 02	867	0.1−	0.7+	1998 03 02	867	1.0+	0.6−				
1998 02 02	867	0.1−	0.7+	1998 03 02	867	0.8+	0.7−				

1998 DN₁₄ = 1999 LT₃₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	250.52109		(2000.0)	P	Q
<i>n</i>	0.24575113	ω	309.16799	+0.49991040	−0.86301929
<i>a</i>	2.5242888	Ω	110.69267	+0.81665535	+0.44176353
<i>e</i>	0.1540814	<i>i</i>	4.45799	+0.28838106	+0.24503609
<i>P</i>	4.01	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 02 22	566	0.3−	0.3−	1998 03 03	704	0.4−	0.4+	1999 05 18	704	1.5−	0.9−
1998 02 22	566	0.5−	0.3−	1998 03 04	704	0.1−	0.4+	1999 06 11	703	0.2+	1.0+
1998 02 22	566	0.5−	0.1−	1998 03 04	704	0.2+	1.6+	1999 06 11	703	0.9+	0.1−
1998 02 27	566	0.5+	0.9−	1998 03 04	704	0.8−	1.1+	1999 06 11	703	1.2+	0.3+
1998 02 27	566	0.2+	0.7−	1998 03 04	704	1.0+	0.5+	1999 06 11	703	0.3+	0.2−

1998 02 27	566	0.3+	1.0−	1998 03 04	704	(4.9−	2.3+)	1999 06 15	704	0.9−	0.5−
1998 03 03	704	0.6+	0.1−	1999 05 18	704	1.3+	0.7+	1999 06 15	704	0.3−	0.3−
1998 03 03	704	0.6−	0.9−	1999 05 18	704	0.6−	0.7−	1999 06 15	704	0.9−	0.7−
1998 03 03	704	0.3+	0.3+	1999 05 18	704	0.1+	0.7+	1999 06 15	704	0.3−	0.1−
1998 03 03	704	0.1+	0.1+	1999 05 18	704	0.5+	0.6+				

1998 DR₂₃ = 1995 SR₃₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	155.82036		(2000.0)	P	Q
<i>n</i>	0.19253994	ω	284.13274	−0.87414108	−0.48533041
<i>a</i>	2.9702214	Ω	226.83677	+0.45467356	−0.80458868
<i>e</i>	0.0515417	<i>i</i>	1.43090	+0.17073173	−0.34218628
<i>P</i>	5.12	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1995 09 24	691	0.5+	0.1−	1995 09 29	691	0.1−	0.2+	1998 03 05	595	0.0	0.0
1995 09 24	691	0.2+	0.0	1998 02 19	595	0.4+	0.4−	1998 03 05	595	0.3+	0.0
1995 09 24	691	0.3+	0.0	1998 02 19	595	1.0−	0.7−	1998 03 06	595	0.0	0.1−
1995 09 29	691	0.4−	0.1−	1998 02 20	595	0.2−	0.2+				
1995 09 29	691	0.5−	0.0	1998 02 20	595	0.5+	0.9+				

1998 FK₅ = 2000 DE

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	147.74962		(2000.0)	P	Q
<i>n</i>	0.41679233	ω	322.97910	+0.94624855	+0.28473529
<i>a</i>	1.7749641	Ω	22.03714	−0.09450815	+0.69705798
<i>e</i>	0.1207474	<i>i</i>	24.13633	−0.30932488	+0.65805470
<i>P</i>	2.36	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 03 24	704	0.1−	0.0	1998 03 29	704	0.2+	1.4−	1998 05 22	688	0.5−	0.0
1998 03 24	704	0.0	0.4+	1998 04 20	704	0.2−	0.4−	1998 05 22	688	0.0	0.2+
1998 03 24	704	0.2−	0.6−	1998 04 20	704	0.1+	0.0	1998 05 22	688	0.1−	0.1+
1998 03 24	704	0.7−	0.0	1998 04 20	704	0.4−	0.0	1999 12 17	704	0.2−	0.4+
1998 03 24	704	0.6+	1.4−	1998 04 20	704	0.3−	0.0	1999 12 17	704	0.2−	0.9−
1998 03 25	699	0.5+	0.5+	1998 04 20	704	0.2−	0.1+	1999 12 17	704	0.1−	0.1−
1998 03 25	699	0.9+	0.6−	1998 04 22	704	0.7−	0.3−	1999 12 17	704	0.5−	0.2+
1998 03 25	699	0.7+	0.0	1998 04 22	704	1.4−	1.5−	1999 12 17	704	0.3+	0.5−
1998 03 25	704	0.1−	0.0	1998 04 22	704	0.6−	0.5−	2000 02 16	704	0.0	0.7+
1998 03 25	704	1.4+	0.1+	1998 04 22	704	0.8−	0.3−	2000 02 16	704	0.6+	0.0
1998 03 25	704	0.6−	0.5+	1998 04 22	704	0.1−	0.5−	2000 02 16	704	0.4−	0.5+
1998 03 25	704	0.5+	1.0+	1998 04 24	699	0.4−	0.1+	2000 02 16	704	0.1+	1.0+
1998 03 25	704	0.7+	0.8+	1998 04 24	699	0.5−	0.8+	2000 02 25	704	0.1−	0.2+
1998 03 29	704	0.7−	0.2−	1998 04 24	699	0.1−	0.5+	2000 02 25	704	0.3−	0.2+
1998 03 29	704	0.4+	0.5−	1998 05 01	699	1.0+	1.1+	2000 02 25	704	0.5+	0.0
1998 03 29	704	0.3+	0.0	1998 05 01	699	1.1+	1.1+	2000 02 25	704	0.0	0.6−
1998 03 29	704	0.4−	0.1+	1998 05 01	699	0.5+	0.6+	2000 02 25	704	0.2−	0.9−

1998 FX₃₀ = 1996 TH₆₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	235.42786		(2000.0)	P	Q
<i>n</i>	0.27003671	ω	109.49623	−0.45185544	−0.89198434
<i>a</i>	2.3705776	Ω	7.41143	+0.77309401	−0.39925728
<i>e</i>	0.1429304	<i>i</i>	6.14403	+0.44514302	−0.21203199
<i>P</i>	3.65	<i>H</i>	15.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1996 10 06	809	0.5+	0.2+	1998 03 20	704	0.2+	0.6−	1998 03 22	704	0.6+	1.4−
1996 10 06	809	0.2+	1.2−	1998 03 20	704	(0.6−	2.7+)	1998 03 29	704	0.8−	0.5−
1996 10 06	809	0.7−	1.2−	1998 03 20	704	1.5−	0.0	1998 03 29	704	0.2+	0.8+
1996 10 07	809	(1.3+	2.6+)	1998 03 20	704	0.1+	1.7+	1998 03 29	704	1.0+	1.2−
1996 10 07	809	0.0	1.1+	1998 03 20	704	0.3−	0.7−	1998 03 29	704	0.4+	1.1−
1996 10 07	809	0.0	1.1+	1998 03 22	704	0.5+	1.9+	1998 03 29	704	1.6−	0.8−

M.P.C. 39190

2000 MAR. 20

1998 02 27	566	0.2−	0.2−	1998 03 22	704	1.2+	0.7+	1998 04 02	809	0.2−	0.1+
1998 02 27	566	0.3−	0.1−	1998 03 22	704	1.0+	0.9+	1998 04 02	809	0.5−	0.7+
1998 02 27	566	0.1−	0.2−	1998 03 22	704	0.2+	0.2−	1998 04 02	809	(2.8−	0.5+)

1998 FB₃₁ = 1999 NV₆₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	188.52980		(2000.0)	P		Q	
<i>n</i>	0.24073927	ω	346.88352	−0.89312807		−0.44662387	
<i>a</i>	2.5592031	Ω	166.21099	+0.43025912		−0.88288647	
<i>e</i>	0.0919899	<i>i</i>	12.94155	+0.13114629		−0.14504690	
<i>P</i>	4.09	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 12 11	327	0.3+	1.2−	1998 03 22	704	0.1−	0.6+	1998 04 03	809	(2.0+	2.5+)
1997 12 11	327	0.8+	0.5−	1998 03 22	704	0.3+	0.4+	1998 04 19	704	0.8+	0.9−
1997 12 11	327	0.3+	0.6−	1998 03 22	704	0.3+	0.1+	1998 04 19	704	0.8+	1.2+
1998 02 22	566	1.2−	0.3−	1998 03 26	704	1.1−	0.1−	1998 04 19	704	1.0−	0.0
1998 02 22	566	0.8−	0.4−	1998 03 26	704	1.3−	0.5+	1998 04 19	704	0.3−	1.1−
1998 02 22	566	0.8−	0.6−	1998 03 26	704	0.5−	0.7+	1998 04 19	704	0.3+	0.3+
1998 02 28	809	(1.5−	3.5+)	1998 03 29	704	0.6−	0.7+	1999 07 13	704	(1.0−	2.4−)
1998 02 28	809	(3.0−	4.6+)	1998 03 29	704	0.6+	0.3+	1999 07 13	704	0.6−	0.4−
1998 02 28	809	(3.2−	4.6+)	1998 03 29	704	0.4+	0.3−	1999 07 13	704	0.4−	0.2−
1998 03 20	704	0.7+	0.5+	1998 03 29	704	0.3+	0.6−	1999 07 13	704	0.4+	1.6−
1998 03 20	704	1.6+	0.8+	1998 03 29	704	0.2−	1.2−	1999 07 13	704	0.3−	0.7−
1998 03 20	704	0.4+	0.4+	1998 04 02	809	(3.0+	0.8+)	1999 07 22	704	0.1+	1.6+
1998 03 20	704	1.5+	0.4−	1998 04 02	809	(2.9+	0.3−)	1999 07 22	704	0.4+	0.0
1998 03 20	704	(2.4+	1.0−)	1998 04 02	809	(2.9+	0.4+)	1999 07 22	704	0.5+	0.2+
1998 03 22	704	0.6−	0.5+	1998 04 03	809	(2.2+	2.5+)	1999 07 22	704	0.1−	0.1+
1998 03 22	704	0.3−	0.3−	1998 04 03	809	(1.6+	3.5+)				

1998 FR₃₇ = 1984 BW₂ = 1986 OP

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	12.00780		(2000.0)	P		Q	
<i>n</i>	0.21824831	ω	168.64397	+0.69996086		+0.71210553	
<i>a</i>	2.7321348	Ω	145.73828	−0.66258569		+0.67593697	
<i>e</i>	0.0357028	<i>i</i>	5.54620	−0.26652391		+0.18977598	
<i>P</i>	4.52	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1984 01 25	675	0.3+	0.3+	1998 03 20	704	0.1−	0.2−	1998 03 29	704	0.5−	0.8−
1984 01 26	675	0.1−	0.4+	1998 03 20	704	0.4+	0.3+	1998 03 29	704	0.2+	1.1−
1986 07 27	413	1.0+	0.0	1998 03 20	704	1.5−	0.8+	1999 06 15	704	0.6+	0.1−
1986 07 27	413	1.3−	0.5+	1998 03 20	704	0.5−	0.6+	1999 06 15	704	0.7+	0.2+
1986 08 01	413	(2.0−	2.9−)	1998 03 22	704	0.5+	0.2+	1999 06 15	704	0.2+	0.0
1986 08 01	413	0.2+	0.5−	1998 03 22	704	0.5+	1.3+	1999 06 15	704	0.8+	0.0
1998 02 24	566	0.7+	1.0−	1998 03 22	704	0.4−	1.3+	1999 07 19	704	0.3−	0.1+
1998 02 24	566	0.8+	1.0−	1998 03 22	704	0.1−	0.3+	1999 07 19	704	1.0−	0.1+
1998 02 24	566	0.9+	1.1−	1998 03 22	704	0.3−	1.2+	1999 07 19	704	0.1−	0.1−
1998 02 26	809	(1.8+	2.8+)	1998 03 29	704	0.1−	0.4−	1999 07 19	704	0.9−	0.3+
1998 02 26	809	(2.8+	1.3+)	1998 03 29	704	0.8−	0.1−				
1998 02 26	809	(3.4+	2.1+)	1998 03 29	704	0.2+	1.0−				

1998 FT₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Gnädig			
<i>M</i>	238.61190		(2000.0)	P		Q	
<i>n</i>	0.18510154	ω	65.96718	+0.55630339		−0.83037560	
<i>a</i>	3.0492710	Ω	350.04782	+0.68021741		+0.47693464	
<i>e</i>	0.1570637	<i>i</i>	10.55846	+0.47731626		+0.28811406	
<i>P</i>	5.32	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1987 01 01	675	0.5+	0.8+	1998 03 22	704	0.5−	0.6−	1998 04 01	704	0.4−	1.7+
1996 10 11	675	0.9−	0.3+	1998 03 26	566	0.8−	0.2+	1998 04 01	704	0.1+	0.7−

1996 10 11	675	0.8+	0.8−	1998 03 26	566	0.4−	0.3+	1998 04 01	704	0.0	1.4−
1997 12 07	910	0.4−	0.0	1998 03 26	566	0.4−	0.3+	1998 04 01	704	0.4−	0.8+
1997 12 07	910	0.3+	0.0	1998 03 28	704	0.7+	0.9−	1998 04 18	704	0.5−	0.4−
1997 12 07	910	0.1+	0.3−	1998 03 28	704	0.6−	0.0	1998 04 18	704	1.7+	0.0
1998 03 20	704	0.7−	2.0+	1998 03 28	704	0.4+	0.2−	1998 04 18	704	(1.9−	2.0−)
1998 03 20	704	1.4+	0.7+	1998 03 28	704	0.1+	1.6−	1998 04 18	704	1.5−	0.6+
1998 03 20	704	0.7+	0.9+	1998 03 28	704	0.4+	1.3−	1998 04 19	704	0.1−	0.1−
1998 03 20	704	0.4−	0.8+	1998 03 29	704	0.0	0.5−	1998 04 19	704	(0.4+	2.6+)
1998 03 20	704	(1.9−	3.0+)	1998 03 29	704	0.4−	0.1+	1998 04 19	704	0.9+	0.8+
1998 03 22	704	0.3+	0.5−	1998 03 29	704	0.8−	0.2+	1998 04 19	704	1.3+	0.9−
1998 03 22	704	0.9−	0.1−	1998 03 29	704	0.2−	0.5+	1998 04 19	704	(4.9−	0.5−)
1998 03 22	704	0.0	0.6−	1998 03 29	704	(1.2+	3.9−)				
1998 03 22	704	0.4+	1.4−	1998 04 01	704	0.0	0.8+				

1998 FG₅₅ = 1983 VA₆ = 1991 RU₅ = 1999 RG₅₂Id. A. Doppler (*MPC* 38464), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	46.91453		(2000.0)	P		Q	
<i>n</i>	0.23913067	ω	280.14494	+0.77868725		+0.62596563	
<i>a</i>	2.5706672	Ω	41.11982	−0.54730823		+0.71088584	
<i>e</i>	0.1817908	<i>i</i>	3.71248	−0.30675703		+0.32063743	
<i>P</i>	4.12	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1983 11 09	033	0.8+	0.1−	1998 03 20	704	0.2+	0.3+	1999 09 11	704	0.1+	0.1−
1983 11 10	033	1.1+	0.3+	1998 03 22	704	0.3+	0.1−	1999 09 11	704	0.4−	0.5+
1991 09 13	675	0.1+	1.5−	1998 03 22	704	0.0	1.6−	1999 09 11	704	0.0	0.8+
1991 09 13	675	0.4+	1.4−	1998 03 22	704	0.1−	1.8−	1999 09 11	704	0.2+	0.3+
1991 09 16	675	0.4−	1.5−	1998 03 22	704	1.9+	1.2−	1999 09 11	704	0.9−	0.8+
1991 09 16	675	0.0	1.9−	1998 03 22	704	0.6−	0.3−	1999 11 09	699	0.9+	1.2+
1998 02 28	809	1.6−	1.2+	1999 07 16	704	1.4+	0.4−	1999 11 09	699	0.5−	0.6+
1998 02 28	809	2.5+	0.3−	1999 07 16	704	0.4+	0.8−	1999 11 09	699	1.5−	1.5+
1998 03 02	809	0.4−	0.1+	1999 07 16	704	0.1+	1.3−	1999 11 10	704	0.8+	0.4−
1998 03 02	809	0.1−	0.1−	1999 09 07	704	0.3−	0.1−	1999 11 10	704	0.3+	0.1−
1998 03 20	704	1.9−	0.4−	1999 09 07	704	0.0	0.2+	1999 11 10	704	0.0	0.8−
1998 03 20	704	0.3−	1.2−	1999 09 07	704	0.1−	0.5+	1999 11 10	704	0.2−	0.5−
1998 03 20	704	0.2−	0.7+	1999 09 07	704	0.3+	0.2+				
1998 03 20	704	2.1−	1.3+	1999 09 07	704	0.3+	0.6+				

1998 FO₇₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Gnädig			
<i>M</i>	254.35826		(2000.0)	P		Q	
<i>n</i>	0.28061682	ω	186.70535	+0.13594650		−0.98910724	
<i>a</i>	2.3106114	Ω	255.49241	+0.91165059		+0.14719502	
<i>e</i>	0.1102847	<i>i</i>	3.34215	+0.38782954		+0.00070971	
<i>P</i>	3.51	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1982 09 12	413	0.6−	0.2+	1998 03 31	557	0.9−	0.4−	1998 04 08	557	0.2+	0.9+
1982 09 12	413	0.5+	0.2+	1998 03 31	557	1.5−	0.2−	1998 04 20	557	0.1−	0.9−
1992 07 22	413	0.1−	0.6−	1998 04 01	557	0.7−	1.3−	1998 04 20	557	0.7+	0.4+
1995 05 29	413	0.1−	0.2+	1998 04 01	557	0.8+	0.3+	1998 04 27	557	1.0+	0.2+
1995 05 29	413	0.5+	0.2+	1998 04 01	557	0.1−	0.5+	1998 04 27	557	0.1+	0.5+
1998 01 26	566	0.4+	0.1−	1998 04 01	557	0.3+	0.2+	1998 04 27	557	0.5+	0.0
1998 01 26	566	0.4+	0.1−	1998 04 01	557	0.6−	0.0	1998 05 15	557	0.2−	0.8+
1998 01 26	566	0.4+	0.1−	1998 04 01	557	1.6−	0.6−	1998 05 15	557	1.8−	0.8−
1998 03 31	557	0.4−	0.2+	1998 04 08	557	1.1+	1.0+				
1998 03 31	557	0.6−	0.3+	1998 04 08	557	1.9+	0.4−				

2000 MAR. 20

M.P.C. 39191

1998 HN₄ = 1999 XK₂₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	127.62325	(2000.0)	P		Q	
<i>n</i>	0.30691806	ω	266.48157	+0.75567499	+0.64472996	
<i>a</i>	2.1766458	Ω	53.33471	-0.52928884	+0.70479306	
<i>e</i>	0.2965315	<i>i</i>	8.25952	-0.38575723	+0.29595610	
<i>P</i>	3.21	<i>H</i>	16.4	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1998 04 21	704	0.4+	1.6+	1998 04 23	046	0.0	0.3-	1998 04 25	691	0.6+	0.4-
1998 04 21	704	0.3+	0.2+	1998 04 23	046	1.0-	0.6+	1998 04 25	691	0.8+	0.6+
1998 04 21	704	0.4+	0.5-	1998 04 23	046	0.3-	0.2+	1998 04 25	691	0.6+	0.0
1998 04 21	704	(5.0-	0.1-)	1998 04 23	046	0.2-	0.0	1998 05 02	691	0.1-	0.2-
1998 04 22	691	0.2+	0.2-	1998 04 23	691	0.7-	0.1+	1998 05 02	691	0.2-	0.3+
1998 04 22	691	0.3+	0.3+	1998 04 23	691	0.5-	0.1-	1998 05 02	691	0.1-	0.4+
1998 04 22	704	(0.5-	2.2-)	1998 04 23	691	0.4-	0.1-	1998 12 12	704	0.5+	0.3+
1998 04 22	704	1.8-	0.8-	1998 04 23	046	0.3-	0.4-	1998 12 12	704	0.0	0.7+
1998 04 22	691	0.3+	0.1+	1998 04 23	046	0.3+	0.4-	1998 12 12	704	1.7+	0.2+
1998 04 22	704	1.0+	0.7+	1998 04 23	046	0.0	0.6-	1998 12 16	704	0.3-	0.3-
1998 04 22	704	0.4-	0.4-	1998 04 23	046	0.9+	0.2-	1998 12 16	704	0.9-	0.9-
1998 04 22	704	(3.9-	0.8-)	1998 04 23	118	0.1-	0.1-	1998 12 16	704	0.9-	0.0
1998 04 23	557	0.3+	0.1-	1998 04 23	118	1.4-	0.0				
1998 04 23	557	1.0+	0.2+	1998 04 23	118	0.0	0.2-				

1998 HZ₁₈ = 1981 SV₃ = 1992 UC = 1999 NE₄₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	13.77631	(2000.0)	P		Q	
<i>n</i>	0.27124678	ω	76.41503	+0.98086444	-0.19350301	
<i>a</i>	2.3635220	Ω	294.73877	+0.16823053	+0.89791686	
<i>e</i>	0.2139619	<i>i</i>	1.35541	+0.09799710	+0.39535035	
<i>P</i>	3.63	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1981 09 25	095	0.7+	1.0-	1998 04 18	704	(2.1-	0.5-)	1999 07 14	704	0.2-	0.8+
1992 10 20	372	(0.3-	2.7-)	1998 04 18	704	1.6-	0.5+	1999 07 14	704	0.0	0.4-
1992 10 21	372	0.9-	0.6+	1998 04 19	704	1.8+	1.2-	1999 07 14	704	0.5+	0.6-
1998 03 29	704	0.2+	1.3-	1998 04 19	704	1.2+	0.9+	1999 07 14	704	0.6-	0.0
1998 03 29	704	0.6-	0.0	1998 04 19	704	1.2+	1.0+	1999 07 16	704	0.2+	0.1-
1998 03 29	704	1.2-	0.4+	1998 04 19	704	(2.6+	0.6+)	1999 07 16	704	0.1+	0.1-
1998 03 29	704	(2.7-	0.5-)	1998 04 20	704	0.2+	0.7+	1999 07 16	704	0.1-	0.3-
1998 04 01	704	1.2+	0.5-	1998 04 20	704	0.0	0.9+	1999 08 07	699	0.5-	0.6+
1998 04 01	704	1.9-	0.2-	1998 04 20	704	1.1+	1.0-	1999 08 07	699	0.0	0.1+
1998 04 01	704	(0.3-	2.4-)	1998 04 20	704	(0.1+	2.7-)	1999 08 07	699	1.0-	0.1-
1998 04 01	704	(3.6-	1.1+)	1998 04 22	704	1.4+	0.8-	1999 11 10	704	0.6+	0.1+
1998 04 18	704	1.0-	0.5-	1998 04 22	704	(2.0+	1.5+)	1999 11 10	704	1.0+	0.9+
1998 04 18	704	(3.0-	1.7+)	1998 04 22	704	1.8-	0.9+	1999 11 10	704	1.6+	0.2+
1998 04 18	704	1.4+	1.0+	1998 04 22	704	1.2-	0.5-				

1998 HH₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	149.62680	(2000.0)	P		Q	
<i>n</i>	0.27515624	ω	157.29735	+0.10407484	+0.99026845	
<i>a</i>	2.3410812	Ω	118.56816	-0.92788993	+0.13012020	
<i>e</i>	0.2392614	<i>i</i>	6.03890	-0.35803450	-0.04936730	
<i>P</i>	3.58	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1994 02 12	809	0.5+	0.8+	1998 04 23	566	0.6-	0.9-	1998 05 25	704	0.8+	0.9+
1994 02 12	809	0.3+	1.8+	1998 04 23	566	1.2-	0.6-	1998 05 25	704	0.6-	0.3+
1994 02 12	809	0.3+	0.4+	1998 04 23	566	0.2+	0.4-	1998 05 27	699	1.3+	0.4+
1994 02 15	675	(0.4+	2.9-)	1998 04 24	704	1.3-	0.1-	1998 05 27	699	0.4+	1.0+
1995 11 23	413	0.2+	0.4-	1998 04 24	704	0.9-	0.5+	1998 05 27	699	0.1-	0.6+
1995 11 23	413	0.0	0.8-	1998 04 24	704	0.5-	0.1+	1998 06 02	699	0.1+	0.9+
1998 02 02	691	(2.8+	2.8+)	1998 05 02	566	0.7-	0.4-	1998 06 02	699	0.1+	0.7+

1998 02 02	691	(0.1-	2.3+)	1998 05 02	566	0.7-	0.3-	1998 06 02	699	1.0+	0.3+
1998 02 02	691	0.1-	1.0-	1998 05 02	566	1.1-	0.3-	1998 06 18	704	1.0+	0.3+
1998 03 24	691	0.4-	0.1-	1998 05 22	566	1.5+	1.7-	1998 06 18	704	1.1+	0.3+
1998 03 24	691	0.3-	0.3-	1998 05 22	566	(2.5+	0.8-)	1998 06 18	704	1.2-	0.3+
1998 03 24	691	0.1-	0.4-	1998 05 22	566	1.4+	1.7-	1999 11 04	704	0.1-	0.7+
1998 04 04	691	1.0-	0.2-	1998 05 23	704	0.7+	0.1+	1999 11 04	704	0.2+	0.7+
1998 04 04	691	0.9-	0.8-	1998 05 23	704	1.7+	0.3+	1999 11 04	704	0.3+	1.8-
1998 04 04	691	0.7-	0.4-	1998 05 23	704	0.9+	0.6-	1999 11 04	704	0.4+	1.2-
1998 04 23	704	0.3-	0.5-	1998 05 23	704	0.1+	0.5+	1999 12 05	703	0.1+	0.1+
1998 04 23	704	1.4-	0.4-	1998 05 23	704	0.3+	0.4-	1999 12 05	703	0.4+	1.5+
1998 04 23	704	0.9-	0.1+	1998 05 25	704	0.6+	0.4+	1999 12 05	703	0.6+	0.2+
1998 04 23	704	0.7-	0.1-	1998 05 25	704	0.7+	0.1+	1999 12 05	703	1.4-	1.2-

1998 HG₆₈ = 1979 QK₃ = 1991 PC₂₂ = 1992 WW₇Id. A. Doppler (*MPC* 38467), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	244.33151	(2000.0)	P		Q	
<i>n</i>	0.24172168	ω	131.58348	-0.32366265	-0.94574659	
<i>a</i>	2.5522643	Ω	337.25384	+0.84478778	-0.27533916	
<i>e</i>	0.1822110	<i>i</i>	4.21048	+0.42611747	-0.17248693	
<i>P</i>	4.08	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i> 1

Residuals in seconds of arc

1979 08 22	809	1.0+	0.1-	1992 12 01	691	0.0	0.3+	1998 04 22	704	0.9-	1.0+
1979 08 22	809	0.1+	0.7-	1998 03 25	910	1.4+	0.8-	1998 04 22	704	1.2+	0.8+
1979 08 22	809	0.0	0.0	1998 03 25	910	1.4+	0.5-	1998 04 22	704	1.2-	0.0
1979 08 23	809	0.0	1.1-	1998 03 25	910	1.2+	0.6-	1998 04 22	704	0.5-	0.1+
1979 08 23	809	0.1-	1.4-	1998 04 01	704	1.0+	0.2-	1998 04 22	704	0.4-	0.4+
1991 08 02	809	1.4+	0.6+	1998 04 01	704	1.3+	0.2+	1998 04 25	699	(3.3-	0.7-)
1991 08 02	809	0.6-	1.5+	1998 04 01	704	1.3+	1.1+	1998 04 25	699	0.3-	0.1-
1991 08 02	809	0.6-	1.0+	1998 04 01	704	(3.1-	2.3+)	1998 04 25	699	0.2-	0.4-
1992 11 29	691	0.2-	0.1+	1998 04 21	704	1.1-	1.1-	1999 07 14	704	0.7-	0.2+
1992 11 29	691	0.0	0.1+	1998 04 21	704	1.8-	0.7-	1999 07 14	704	0.3-	0.1+
1992 11 29	691	0.0	0.5+	1998 04 21	704	0.2+	0.4+	1999 07 14	704	0.0	0.8+
1992 12 01	691	0.0	0.2+	1998 04 21	704	0.7-	0.5+				
1992 12 01	691	0.1-	0.3+	1998 04 21	704	1.4-	0.4+				

1998 HN₈₀ = 1991 EC₃ = 1999 VA₁₄₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	156.42499	(2000.0)	P		Q	
<i>n</i>	0.29447231	ω	252.57278	-0.03733736	+0.99925873	
<i>a</i>	2.2375517	Ω	15.29657	-0.90282536	-0.02970877	
<i>e</i>	0.1491323	<i>i</i>	2.03685	-0.42838335	-0.02448238	
<i>P</i>	3.35	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1991 03 11	809	0.3-	0.6+	1998 05 16	704	0.8+	0.6+	1999 11 14	704	0.1+	0.0
1991 03 11	809	0.0	0.1+	1998 05 16	704	0.1-	0.4+	1999 11 14	703	0.1+	1.0+
1991 03 11	809	0.1+	0.0	1998 05 16	704	0.3-	1.0-	1999 11 14	704	0.1+	0.3+
1991 03 13	809	0.3-	0.2-	1998 05 25	699	0.6-	0.2-	1999 11 14	703	1.1-	1.0+
1991 03 13	809	0.1+	0.2-	1998 05 25	699	0.1-	1.3+	1999 11 14	704	0.2-	0.1-
1991 03 13	809	0.5+	0.1-	1998 05 25	699	0.1+	1.1+	1999 11 14	703	0.4+	0.9+
1998 03 31	910	0.8-	0.2-	1999 10 03	703	0.5-	0.2-	1999 11 14	703	0.3+	0.3+
1998 03 31	910	0.8-	0.1-	1999 10 03	703	0.2-	0.3+	1999 11 16	704	0.0	0.5-
1998 03 31	910	0.9-	0.4-	1999 10 03	703	0.1-	0.5+	1999 11 16	704	0.2+	1.0-
1998 04 21	704	0.0	1.2-	1999 10 03	703	0.3-	1.3+	1999 11 16	704	0.7-	0.3+
1998 04 21	704	0.2+	0.5-	1999 11 04	704	1.1+	0.2-	1999 11 16	704	0.1+	0.1-
1998 04 21	704	0.4+	0.4+	1999 11 04	704	0.6+	0.5-	1999 11 16	704	0.1-	0.6+
1998 04 21	704	0.0	0.1+	1999 11 04	704	0.3+	0.3-	1999 12 04	703	0.1-	0.3+
1998 04 21	704	0.3+	0.2-	1999 11 04	704	0.7+	0.1-	1999 12 04	703	0.8+	0.0
1998 04 22	704	0.1-	0.1+	1999 11 04	704	0.5+	0.3-	1999 12 04	703	1.3-	0.0
1998 04 22	704	0.8+	0.6+	1999 11 11	703	0.4-	0.6+	1999 12 04	703	0.4+	0.2-
1998 04 22	704	0.7+	0.6+	1999 11 11	703	0.8-	0.1+	2000 01 06	704	1.9-	0.0
1998 04 22	704	1.1+	0.3+	1999 11 11	703	0.8-	0.1+	2000 01 06	704	(2.3-	0.4+)
1998 04 22	704	0.2-	0.1+	1999 11 11	703	0.1-	0.6+	2000 01 06	704	0.2-	0.3-

1998 05 16 704 0.3+ 0.7+ 1999 11 14 704 0.1- 0.2+ 2000 01 06 704 0.0 0.0
 1998 05 16 704 0.7+ 1.6+ 1999 11 14 704 0.5+ 0.4+

1998 HE₈₇ = 1999 VL₁₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	54.13553		(2000.0)	P	Q
<i>n</i>	0.29344805	ω	104.21844	+0.99762895	-0.03445406
<i>a</i>	2.2427553	Ω	257.78162	+0.00886581	+0.92279011
<i>e</i>	0.0563857	<i>i</i>	3.49478	+0.06824869	+0.38375948
<i>P</i>	3.36	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1996 11 30	327	0.1+	0.5+	1999 09 05	703	1.0+	1.1+	1999 10 04	704	0.2-	0.1-
1996 11 30	327	0.4+	0.1-	1999 09 05	703	0.3-	0.3-	1999 10 20	704	0.2-	0.4+
1996 11 30	327	0.6-	0.3-	1999 09 05	703	1.3-	0.4-	1999 10 20	704	0.5+	1.2+
1998 04 21	704	0.4+	0.6-	1999 09 05	703	1.4-	0.1+	1999 10 20	704	0.2+	0.3+
1998 04 21	704	0.9-	1.4+	1999 09 18	704	0.0	1.0-	1999 10 20	704	0.3-	1.1+
1998 04 21	704	1.3-	1.2-	1999 09 18	704	0.6+	0.2-	1999 10 20	704	0.9+	0.9+
1998 04 21	704	1.0-	0.7+	1999 09 18	704	0.2+	0.1-	1999 11 05	704	0.4-	0.1+
1998 04 21	704	(0.5-	2.1-)	1999 09 18	704	0.3+	0.3-	1999 11 05	704	0.1-	0.6-
1998 04 22	704	0.2+	0.2+	1999 09 18	704	0.2-	1.0-	1999 11 05	704	0.2-	0.7-
1998 04 22	704	0.2-	0.3-	1999 09 18	703	0.4+	0.4+	1999 11 05	704	0.7-	0.8-
1998 04 22	704	0.2-	0.4+	1999 09 18	703	0.4-	0.2+	1999 11 14	704	0.3-	0.9+
1998 04 22	704	0.7+	1.4-	1999 09 18	703	0.0	0.3+	1999 11 14	704	0.3-	0.0
1998 04 22	704	0.2+	0.4+	1999 09 18	703	1.0-	0.0	1999 11 14	704	0.6+	0.4-
1998 04 25	699	0.3+	0.5-	1999 10 01	703	0.3+	0.2+	1999 11 14	704	0.6+	0.1+
1998 04 25	699	1.4+	0.8-	1999 10 01	703	0.1+	0.2+	1999 11 14	704	0.9-	0.4-
1998 04 25	699	0.1-	1.8-	1999 10 01	703	0.0	0.0	1999 11 16	704	0.5-	0.2+
1998 05 24	691	0.2-	0.8+	1999 10 01	703	0.0	0.0	1999 11 16	704	1.5+	0.9-
1998 05 24	691	0.2+	0.3+	1999 10 04	704	0.2+	0.3-	1999 11 16	704	0.2+	0.1+
1998 05 31	691	0.2-	0.2+	1999 10 04	704	1.2+	0.6-	1999 11 16	704	0.1-	0.8-
1998 05 31	691	0.2-	0.8+	1999 10 04	704	0.2+	0.5-				
1998 05 31	691	0.4+	0.4+	1999 10 04	704	0.0	0.2-				

1998 HR₉₇ = 1999 VQ₁₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	150.62204		(2000.0)	P	Q
<i>n</i>	0.29812518	ω	310.65539	+0.16982847	+0.98533921
<i>a</i>	2.2192366	Ω	329.11108	-0.89431738	+0.14716052
<i>e</i>	0.1255215	<i>i</i>	1.81687	-0.41395013	+0.08631580
<i>P</i>	3.31	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 04 21	704	0.4-	0.5-	1998 05 01	704	0.6+	0.6+	1999 11 05	704	0.8+	1.2+
1998 04 21	704	0.3+	0.2-	1998 05 01	704	0.3+	0.1-	1999 11 05	704	0.2+	0.4+
1998 04 21	704	0.2+	0.5+	1998 05 22	704	1.3+	0.4+	1999 11 14	704	0.4+	0.3-
1998 04 21	704	0.2-	0.9+	1998 05 22	704	0.4+	0.3+	1999 11 14	704	0.2+	0.3-
1998 04 21	704	0.5+	1.5+	1998 05 22	704	0.9+	0.1+	1999 11 14	704	0.0	0.6-
1998 04 22	704	0.4-	0.2+	1998 05 22	704	1.4+	1.0-	1999 11 14	704	0.1-	0.2-
1998 04 22	704	0.8-	0.0	1998 05 22	704	0.1-	0.3-	1999 11 14	704	0.3+	0.5-
1998 04 22	704	0.1-	1.1-	1998 05 24	704	1.5+	0.5-	1999 11 16	704	0.0	0.0
1998 04 22	704	1.3-	0.6-	1998 05 24	704	0.3+	0.7-	1999 11 16	704	0.4-	0.5-
1998 04 25	699	0.7-	0.4+	1998 05 24	704	1.8-	1.2+	1999 11 16	704	0.9-	0.2-
1998 04 25	699	0.7+	0.5-	1998 05 24	704	1.2-	1.3+	1999 11 16	704	0.5-	0.9+
1998 04 25	699	0.1+	0.4-	1998 05 24	704	1.0-	0.3-	1999 11 16	704	0.7-	0.2-
1998 05 01	704	0.8-	0.0	1999 11 05	704	0.5+	0.8+				
1998 05 01	704	0.5+	0.2+	1999 11 05	704	0.2-	0.6+				

1998 HJ₁₀₂ = 1999 VN₁₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	146.18859		(2000.0)	P	Q
<i>n</i>	0.28668689	ω	243.00229	+0.30181272	+0.95003750
<i>a</i>	2.2778799	Ω	44.80596	-0.82976862	+0.30288655
<i>e</i>	0.1605729	<i>i</i>	6.48652	-0.46946045	+0.07542200
<i>P</i>	3.44	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 04 22	704	1.8+	0.7+	1998 05 05	699	0.4-	0.4-	1999 11 03	704	0.1-	0.9+
1998 04 22	704	0.5-	0.3-	1998 05 22	704	0.1+	0.1+	1999 11 03	704	0.3-	0.0
1998 04 22	704	0.9-	0.6-	1998 05 22	704	0.7+	0.7+	1999 11 14	704	0.1+	0.1-
1998 04 22	704	1.2+	0.8-	1998 05 22	704	0.3-	1.0-	1999 11 14	704	0.4-	0.5-
1998 04 22	704	0.4-	0.6-	1998 05 22	704	1.0-	1.0+	1999 11 14	704	0.0	0.2-
1998 04 25	809	1.3+	1.9+	1998 05 22	704	0.3+	0.1+	1999 11 14	704	0.5-	0.2-
1998 04 25	809	0.2+	0.9+	1998 05 24	704	0.3-	0.7-	1999 11 14	704	0.3-	0.2-
1998 04 25	809	0.5+	0.0	1998 05 24	704	0.6-	0.8-	1999 11 16	704	0.1-	0.6+
1998 04 28	809	(3.0+	2.1+)	1998 05 24	704	1.3-	1.1-	1999 11 16	704	0.3+	0.2+
1998 04 28	809	(2.1+	2.2+)	1998 05 24	704	0.6-	0.5-	1999 11 16	704	0.2+	0.4-
1998 04 28	809	1.9+	1.9+	1998 05 24	704	0.2-	0.2+	1999 11 16	704	0.0	0.6+
1998 05 01	704	0.2+	0.3-	1998 06 16	704	0.9+	0.3+	1999 12 15	704	0.0	0.9-
1998 05 01	704	0.6-	0.5-	1998 06 16	704	(0.5-	3.0+)	1999 12 15	704	0.7-	0.6-
1998 05 01	704	0.7-	0.2-	1998 06 16	704	0.3+	1.0+	1999 12 15	704	1.0+	0.7+
1998 05 01	704	0.5-	0.3-	1998 06 16	704	(2.2-	2.6+)	1999 12 15	704	1.2+	0.1-
1998 05 05	699	0.5-	0.1-	1999 11 03	704	0.5-	1.6+				
1998 05 05	699	0.0	0.2+	1999 11 03	704	0.1-	0.3-				

1998 HN₁₄₃ = 2000 AE₁₆₅

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	57.48160		(2000.0)	P	Q
<i>n</i>	0.17724781	ω	267.33366	+0.66092862	+0.71375590
<i>a</i>	3.1386927	Ω	46.98130	-0.49824500	+0.64832336
<i>e</i>	0.3412545	<i>i</i>	18.48324	-0.56118204	+0.26500818
<i>P</i>	5.56	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 03 24	704	0.7+	0.7+	1998 05 16	704	(2.1-	1.2+)	1999 11 07	704	0.4+	1.1-
1998 03 24	704	1.2+	0.9-	1998 05 16	704	0.2-	1.1-	1999 11 27	699	0.1+	0.1+
1998 03 24	704	1.2+	1.8-	1998 05 16	704	(7.0-	1.1-)	1999 11 27	699	0.6-	0.0
1998 03 24	704	(5.1-	1.0+)	1999 09 14	704	0.2+	0.1-	1999 11 27	699	0.1-	0.8+
1998 04 21	704	0.4-	0.2+	1999 09 14	704	0.7+	0.2-	1999 12 03	704	0.5-	1.2+
1998 04 21	704	0.0	0.2+	1999 09 14	704	0.9+	0.0	1999 12 03	704	0.1+	0.2-
1998 04 21	704	0.5-	0.1+	1999 09 14	704	0.5+	0.0	1999 12 03	704	0.0	0.7+
1998 04 21	704	0.1-	0.1+	1999 09 14	704	0.4+	0.1+	1999 12 03	704	0.2+	0.2-
1998 04 21	704	1.0-	0.2+	1999 10 02	704	0.8-	0.1+	1999 12 03	704	0.4-	1.2+
1998 04 22	704	0.2-	0.4+	1999 10 02	704	1.1-	0.2+	1999 12 13	699	1.1-	0.5+
1998 04 22	704	0.8-	0.2-	1999 10 02	704	0.6-	0.3+	1999 12 13	699	0.4+	0.3-
1998 04 22	704	0.0	0.5-	1999 10 02	704	0.6-	0.2+	1999 12 13	699	1.4-	1.0-
1998 04 22	704	0.2-	0.8-	1999 10 02	704	0.2-	0.3+	2000 01 08	704	0.7+	0.8+
1998 04 22	704	0.4+	0.6-	1999 10 05	703	0.3-	0.5-	2000 01 08	704	1.3+	1.9-
1998 05 01	704	0.4-	0.4-	1999 10 05	703	0.5+	0.4+	2000 01 08	704	0.1+	0.9-
1998 05 01	704	0.6-	0.1+	1999 10 05	703	0.6+	0.0	2000 01 08	704	0.8+	1.0-
1998 05 01	704	0.4-	0.7+	1999 10 05	703	0.2+	0.1-	2000 01 10	704	0.7-	0.3+
1998 05 01	704	0.6-	0.4+	1999 11 07	704	0.1+	0.1-	2000 01 10	704	0.3+	1.3-
1998 05 01	704	0.0	1.3+	1999 11 07	704	0.4+	1.4-	2000 01 10	704	0.5+	1.3+
1998 05 16	704	0.2+	0.8-	1999 11 07	704	0.5+	0.8-	2000 01 10	704	1.3+	0.6-

1998 HE₁₄₈ = 1999 VC₁₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	132.56228		(2000.0)	P	Q
<i>n</i>	0.23359570	ω	55.00830	-0.07705866	+0.99673400
<i>a</i>	2.6111160	Ω	210.59917	-0.92952005	-0.08058192
<i>e</i>	0.2060836	<i>i</i>	2.71950	-0.36063062	-0.00528095
<i>P</i>	4.22	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1995 10 15	327	(4.8-	5.0+)	1998 05 23	699	0.3+	0.9+	1998 06 16	704	0.5-	0.0
1995 10 15	327	(3.6-	3.6+)	1998 05 23	699	0.0	0.9+	1998 06 16	704	(0.8-	2.4+)

2000 MAR. 20

M.P.C. 39193

1998 04 28	809	(0.7+ 6.2+)	1998 06 03	704	0.9- 0.1+	1999 11 02	703	0.0 0.4-
1998 04 28	809	(0.4+ 6.4+)	1998 06 03	704	0.2- 1.5-	1999 11 02	703	0.9- 0.2+
1998 04 28	809	(0.2+ 7.8+)	1998 06 03	704	1.2- 0.0	1999 11 02	703	1.4- 0.1+
1998 05 22	704	0.2- 0.0	1998 06 03	704	0.6+ 0.5+	1999 11 12	704	0.6+ 0.5+
1998 05 22	704	0.2+ 0.2+	1998 06 03	704	0.4- 0.6+	1999 11 12	704	0.5+ 0.5-
1998 05 22	704	0.3- 0.0	1998 06 15	684	0.5+ 0.0	1999 11 12	704	0.1- 0.6-
1998 05 22	704	0.2- 0.3-	1998 06 15	684	0.3+ 0.3+	1999 11 12	704	0.6+ 0.1-
1998 05 22	699	0.1- 0.2+	1998 06 16	684	0.2+ 0.2-	1999 11 12	704	0.1+ 0.3-
1998 05 22	704	0.2+ 0.3-	1998 06 16	684	0.1+ 0.1-	1999 11 16	704	1.0+ 1.0+
1998 05 22	699	0.4- 0.3+	1998 06 16	704	(2.3+ 1.1+)	1999 11 16	704	0.1+ 0.0
1998 05 22	699	0.5+ 0.0	1998 06 16	704	0.7- 0.2-	1999 11 16	704	(2.0+ 0.9-)
1998 05 23	699	0.5+ 0.9+	1998 06 16	704	0.9+ 0.3-	1999 11 16	704	(3.2+ 0.8-)

1998 HJ₁₄₉ = 1999 VE₁₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	159.22521		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.27662013	ω	254.98481	-0.05242435		+0.99859196	
<i>a</i>	2.3328145	Ω	12.01887	-0.90060514		-0.04376786	
<i>e</i>	0.1904742	<i>i</i>	2.23230	-0.43146503		-0.02997457	
<i>P</i>	3.56	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 04 25	809	1.2- 0.2+	1998 05 22	704	1.7- 1.7+	1998 05 24	704	(5.5- 2.3+)
1998 04 25	809	1.0- 0.4-	1998 05 22	704	(2.9- 0.6-)	1999 11 14	704	0.8+ 0.5+
1998 04 25	809	0.6- 0.6-	1998 05 23	699	0.2+ 0.2+	1999 11 14	704	0.1+ 0.2-
1998 04 28	809	(2.4+ 1.7+)	1998 05 23	699	0.0 0.3-	1999 11 14	704	0.7- 1.0+
1998 04 28	809	1.7+ 0.9+	1998 05 23	699	0.5+ 0.2-	1999 11 14	704	0.3- 0.6+
1998 04 28	809	1.4+ 0.4+	1998 05 24	704	0.2- 1.0-	1999 11 16	704	0.3- 1.0-
1998 05 22	704	0.5+ 0.7-	1998 05 24	704	0.1- 0.6+	1999 11 16	704	0.1+ 0.5+
1998 05 22	704	0.7+ 0.3-	1998 05 24	704	0.5- 0.6+	1999 11 16	704	0.1+ 0.9-
1998 05 22	704	0.6- 0.7-	1998 05 24	704	0.8+ 0.1+			

1998 KU₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	158.22673		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.29187457	ω	119.14498	+0.82579040		+0.56267839	
<i>a</i>	2.2508085	Ω	206.66889	-0.54252111		+0.77401417	
<i>e</i>	0.5536826	<i>i</i>	4.88903	-0.15408134		+0.29033617	
<i>P</i>	3.38	<i>H</i>	16.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1998 04 22	704	0.3- 0.0	1998 06 14	046	0.4- 0.3+	1998 10 04	422	0.2+ 0.2+
1998 04 22	704	0.3+ 0.4-	1998 06 15	670	0.7- 0.3-	1998 10 04	422	0.2+ 0.4+
1998 04 22	704	0.5- 1.4-	1998 06 15	670	0.8- 0.6+	1998 10 09	689	0.0 0.4-
1998 04 22	704	0.8+ 1.4-	1998 06 16	712	0.4- 0.1+	1998 10 09	046	0.4+ 0.0
1998 04 22	704	(2.1- 0.5-)	1998 06 16	712	1.2- 0.3+	1998 10 09	046	0.2+ 0.0
1998 05 01	704	0.4+ 0.2-	1998 06 16	712	0.1+ 1.9-	1998 10 09	046	0.2+ 0.0
1998 05 01	704	0.6- 0.9+	1998 06 16	712	0.3- 1.3-	1998 10 09	046	0.1+ 0.1+
1998 05 01	704	1.1- 0.5-	1998 06 16	704	1.0- 0.1-	1998 10 09	046	0.3+ 0.1+
1998 05 01	704	0.1- 1.9+	1998 06 16	704	0.4- 0.5+	1998 10 09	151	0.1+ 0.0
1998 05 05	699	0.7+ 0.2+	1998 06 16	704	0.5- 0.1+	1998 10 09	151	0.1- 0.1-
1998 05 05	699	0.5+ 1.7-	1998 06 16	704	1.6- 0.4-	1998 10 09	151	0.0 0.1+
1998 05 05	699	0.6- 0.1-	1998 06 16	704	1.7- 1.4-	1998 10 11	629	0.4+ 0.7-
1998 05 22	704	0.9+ 0.2-	1998 06 17	712	(1.0- 2.5-)	1998 10 11	629	0.4- 0.4-
1998 05 22	704	0.9+ 1.0+	1998 06 17	712	(2.2- 0.5+)	1998 10 11	629	0.1+ 0.6-
1998 05 22	704	0.1+ 0.0	1998 06 17	712	0.9- 0.4-	1998 10 11	629	0.8+ 0.9-
1998 05 22	704	0.0 0.1+	1998 06 17	712	(0.6+ 2.4+)	1998 10 11	629	0.9- 0.0
1998 05 22	704	0.3+ 0.4-	1998 06 17	360	0.2- 0.1-	1998 10 12	704	0.9- 0.1-
1998 05 23	704	0.1+ 0.1+	1998 06 17	360	0.1- 0.1+	1998 10 12	704	0.3- 0.7+
1998 05 23	704	0.0 0.5+	1998 06 17	360	0.2- 0.1+	1998 10 12	704	0.5- 0.3+
1998 05 23	704	0.7+ 0.1+	1998 06 17	402	0.0 0.1+	1998 10 12	704	0.7- 1.2+
1998 05 23	704	0.4+ 0.8+	1998 06 17	402	0.2- 0.2+	1998 10 12	704	0.9- 0.0
1998 05 23	704	0.1+ 0.8-	1998 06 17	402	0.1+ 0.2+	1998 10 13	750	0.5+ 0.5+
1998 05 23	670	0.3+ 0.5+	1998 06 18	712	0.5- 0.0	1998 10 13	750	0.6+ 0.4+
1998 05 23	670	0.0 0.0	1998 06 18	712	0.4+ 0.2+	1998 10 13	046	0.2+ 0.2+
1998 05 23	670	0.7+ 0.5+	1998 06 18	712	0.4- 0.0	1998 10 13	046	0.3+ 0.1+

1998 05 23	426	0.2- 0.0	1998 06 19	587	0.1- 0.4-	1998 10 13	046	0.2+ 0.1+
1998 05 23	426	0.2+ 0.0	1998 06 19	587	0.8- 0.0	1998 10 13	049	(2.6- 0.0)
1998 05 23	426	0.3- 0.5+	1998 06 21	046	0.4+ 0.8+	1998 10 13	049	(2.5- 0.4-)
1998 05 23	426	0.0 0.0	1998 06 21	046	0.3- 0.7+	1998 10 13	049	(2.1- 0.2-)
1998 05 24	816	0.1- 0.3+	1998 06 21	046	0.4+ 0.4+	1998 10 15	422	0.1- 0.1-
1998 05 24	816	0.0 0.4+	1998 06 21	046	1.5+ 0.6+	1998 10 15	422	0.0 0.1+
1998 05 24	816	0.2- 0.3+	1998 06 21	046	1.3+ 0.5+	1998 10 15	422	0.1- 0.0
1998 05 24	816	0.1- 0.2+	1998 06 22	860	0.0 0.1+	1998 10 15	143	0.9- 0.1+
1998 05 24	824	0.3+ 0.3+	1998 06 22	860	0.1+ 0.0	1998 10 15	143	0.3+ 0.2+
1998 05 24	824	1.0- 0.1+	1998 06 22	860	0.0 0.3+	1998 10 15	143	0.7- 0.1-
1998 05 24	824	0.4+ 0.0	1998 06 22	046	0.3- 0.1+	1998 10 15	143	0.3- 0.1+
1998 05 24	704	0.1- 0.0	1998 06 22	046	0.4- 0.2+	1998 10 16	049	(2.1- 0.0)
1998 05 24	704	0.0 0.2+	1998 06 22	046	0.3- 0.7+	1998 10 16	049	(2.3- 0.0)
1998 05 24	704	0.5+ 0.2-	1998 06 23	712	0.3- 0.1-	1998 10 16	049	1.2- 0.0
1998 05 24	704	0.4+ 0.6+	1998 06 23	712	0.2- 0.5-	1998 10 16	151	0.9+ 0.1-
1998 05 24	704	0.2+ 0.1+	1998 06 23	712	0.1- 0.0	1998 10 16	046	1.3+ 0.0
1998 05 24	704	0.5+ 0.7+	1998 06 23	712	0.3- 0.4-	1998 10 16	046	1.3+ 0.1+
1998 05 24	704	0.8+ 0.3+	1998 06 23	712	0.4- 0.4-	1998 10 16	046	1.2+ 0.2+
1998 05 24	704	0.3+ 0.4+	1998 06 23	860	0.3+ 0.3+	1998 10 16	046	1.2+ 0.1+
1998 05 24	704	0.4+ 0.0	1998 06 23	860	0.5+ 0.3-	1998 10 16	151	0.9+ 0.2-
1998 05 24	704	0.9+ 0.6-	1998 06 23	860	0.2+ 0.0	1998 10 17	670	0.8+ 0.4-
1998 05 24	704	0.0 0.6+	1998 06 24	712	0.1+ 0.2+	1998 10 17	670	0.9+ 0.1-
1998 05 24	704	0.4+ 0.0	1998 06 24	712	0.4+ 0.3+	1998 10 17	670	1.0+ 0.1-
1998 05 24	704	0.4- 0.1-	1998 06 24	712	0.2- 0.2+	1998 10 17	952	0.9- 0.1-
1998 05 24	704	0.2- 1.0+	1998 06 24	712	0.1+ 0.4+	1998 10 17	952	0.7- 0.2+
1998 05 24	704	0.5+ 0.4+	1998 06 29	046	0.6- 1.0-	1998 10 17	952	0.6- 0.6+
1998 05 24	670	0.9+ 0.5+	1998 06 29	046	0.3- 1.2-	1998 10 19	635	0.4- 0.5-
1998 05 24	670	0.4+ 0.2-	1998 06 29	046	0.2- 0.5-	1998 10 19	635	0.8- 0.3+
1998 05 24	670	0.7+ 0.5-	1998 06 30	587	0.2+ 0.5-	1998 10 19	635	0.6- 0.3-
1998 05 24	670	1.1+ 0.5-	1998 06 30	587	0.1- 0.1-	1998 10 20	825	0.0 0.8-
1998 05 24	426	0.1- 0.0	1998 07 10	670	0.5- 0.1-	1998 10 20	825	1.3+ 0.2+
1998 05 24	426	0.1- 0.3+	1998 07 10	670	0.3+ 1.2-	1998 10 20	635	0.3- 0.3+
1998 05 24	422	0.0 0.6+	1998 07 14	046	(0.1- 2.2-)	1998 10 20	635	1.0- 0.1+
1998 05 24	422	0.2+ 0.6+	1998 07 14	046	0.3- 1.4-	1998 10 21	825	0.0 0.7+
1998 05 24	426	0.3- 0.4+	1998 07 14	046	0.7- 1.2-	1998 10 21	825	(2.1- 0.1+)
1998 05 24	422	0.0 0.6+	1998 07 17	587	0.6- 0.5-	1998 10 21	360	0.0 0.2-
1998 05 24	426	0.1+ 0.2+	1998 07 17	587	0.8- 1.0-	1998 10 21	360	0.2- 0.5-
1998 05 25	816	0.2- 0.6+	1998 07 17	118	0.1- 0.5-	1998 10 21	360	0.4- 0.2-
1998 05 25	816	0.1+ 0.2+	1998 07 17	587	0.4- 0.9-	1998 10 21	118	0.1- 0.3-
1998 05 25	824	0.3+ 0.6+	1998 07 17	118	0.7- 0.5-	1998 10 21	118	0.4- 0.3-
1998 05 25	816	0.6+ 0.1+	1998 07 19	046	0.8- 0.9-	1998 10 21	825	0.1+ 0.2-
1998 05 25	824	0.0 0.4+	1998 07 19	046	0.8- 0.7-	1998 10 21	825	0.1+ 0.7-
1998 05 25	816	0.3+ 0.4+	1998 07 19	046	0.7- 0.5-	1998 10 21	825	0.3+ 0.1-
1998 05 25	824	0.3- 0.8+	1998 07 22	402	0.5- 0.5-	1998 10 22	151	0.3- 0.4-
1998 05 25	704	0.2+ 0.0	1998 07 22	402	0.6- 0.5-	1998 10 22	151	0.0 0.5-
1998 05 25	704	0.1- 1.0+	1998 07 22	402	0.6- 0.4-	1998 10 22	151	0.1+ 0.2-
1998 05 25	704	0.4- 0.5+	1998 07 22	587	0.8- 0.7-	1998 10 25	143	0.0 0.0
1998 05 25	704	1.6+ 0.3-	1998 07 22	587	0.8- 0.3+	1998 10 25	143	1.0- 0.0
1998 05 25	699	0.3+ 0.2+	1998 08 06	557	0.3- 0.6-	1998 10 25	143	0.9- 0.3-
1998 05 25	699	0.3+ 1.0+	1998 08 06	557	0.0 0.6-	1998 10 25	143	0.0 0.1-
1998 05 25	699	0.2+ 0.5+	1998 08 06	557	0.2+ 0.5-	1998 10 25	143	1.2- 0.

1998 05 27	700	0.1+	0.2+	1998 08 24	711	0.7+	0.2-	1998 11 10	143	0.0	0.4-
1998 05 27	700	0.5-	0.2+	1998 08 25	711	0.4+	0.4-	1998 11 10	143	0.5-	0.3-
1998 05 27	422	0.1+	0.0	1998 08 25	711	0.5+	0.4-	1998 11 10	143	0.7-	0.7-
1998 05 27	422	0.0	0.0	1998 08 26	118	0.7+	0.8-	1998 11 11	118	1.6-	1.2+
1998 05 27	422	0.1-	0.0	1998 08 29	670	0.3-	0.3+	1998 11 11	118	(0.4-	2.2+)
1998 05 27	402	0.4+	0.2+	1998 08 29	670	1.2+	0.2+	1998 11 11	118	0.5-	1.6+
1998 05 27	402	0.3+	0.2+	1998 08 29	670	0.4+	0.4-	1998 11 12	825	0.5+	0.5+
1998 05 27	402	0.5+	0.2+	1998 08 29	658	1.0-	1.0-	1998 11 12	825	0.3-	0.2+
1998 05 27	557	0.1-	0.4+	1998 08 29	658	1.3-	0.8-	1998 11 12	825	0.8+	0.2+
1998 05 27	557	0.2-	0.1+	1998 08 29	658	1.6-	0.8-	1998 11 16	825	0.6+	1.6-
1998 05 27	557	0.5+	0.3+	1998 09 07	046	0.3+	0.1-	1998 11 16	825	0.5-	0.1+
1998 05 28	670	1.0-	1.0+	1998 09 07	046	0.1+	0.4+	1998 11 16	825	0.2-	0.4+
1998 05 28	670	0.3+	0.8-	1998 09 07	046	0.5+	0.6+	1998 11 18	143	0.4-	0.2+
1998 05 28	670	0.0	0.4-	1998 09 07	046	0.4-	0.1+	1998 11 18	143	0.2+	0.0
1998 05 30	422	0.5+	0.2+	1998 09 09	360	0.7+	0.2+	1998 11 18	143	0.1+	0.3-
1998 05 30	422	0.0	0.7+	1998 09 09	360	0.4+	0.3+	1998 11 19	825	0.1+	0.1-
1998 05 30	422	0.0	0.8+	1998 09 09	360	0.1+	0.2+	1998 11 19	825	0.2-	0.3-
1998 05 31	670	0.2+	0.5+	1998 09 19	670	0.4+	0.5+	1998 11 19	897	0.2+	0.0
1998 05 31	670	1.3+	0.5-	1998 09 19	670	0.3+	0.8+	1998 11 19	897	0.2+	0.0
1998 05 31	670	1.0-	0.6+	1998 09 19	670	0.1-	0.7+	1998 11 19	897	0.0	0.4-
1998 06 01	046	0.3+	0.2-	1998 09 19	670	0.0	1.0+	1998 11 19	143	0.6+	0.2-
1998 06 01	046	0.3+	0.0	1998 09 19	426	0.2+	0.4+	1998 11 19	143	(0.9+	3.2+)
1998 06 01	046	0.2+	0.1-	1998 09 19	426	0.2+	0.5+	1998 11 19	143	0.9-	1.1+
1998 06 02	046	0.3+	0.0	1998 09 19	426	0.3+	0.5+	1998 11 25	699	0.8+	1.3-
1998 06 02	046	0.4+	0.0	1998 09 19	426	0.2+	0.4+	1998 11 25	699	0.1-	0.5+
1998 06 02	046	0.4+	0.1+	1998 09 19	118	0.3-	0.9+	1998 11 25	699	1.7-	0.8+
1998 06 02	118	0.4+	0.0	1998 09 19	118	0.1-	1.2+	1998 11 26	402	0.0	0.3+
1998 06 02	118	0.4+	0.0	1998 09 19	118	0.2+	0.8+	1998 11 26	402	0.1+	0.4+
1998 06 03	046	0.0	0.2+	1998 09 22	118	0.3-	0.2+	1998 11 26	402	0.1+	0.3+
1998 06 03	046	0.2+	0.3+	1998 09 22	118	0.1-	0.2+	1998 12 08	704	1.4+	0.6-
1998 06 03	046	0.2+	0.0	1998 09 23	658	0.9-	0.1+	1998 12 08	704	0.6+	0.3+
1998 06 04	046	0.2+	0.2+	1998 09 23	658	1.2-	0.1+	1998 12 08	704	(2.6+	1.4-)
1998 06 04	046	0.2+	0.2+	1998 09 23	658	1.0-	0.1+	1998 12 08	704	0.4-	1.5-
1998 06 04	046	0.1-	0.1+	1998 09 24	658	0.5-	0.7+	1998 12 08	704	(1.6-	3.0+)
1998 06 04	557	0.8+	0.5+	1998 09 24	658	0.2-	0.4+	1998 12 15	046	0.3+	0.0
1998 06 04	557	0.4-	0.1-	1998 09 24	658	0.1-	0.6+	1998 12 15	046	0.2-	0.3+
1998 06 04	557	0.4-	0.1+	1998 09 24	118	0.0	0.0	1998 12 15	046	0.1-	0.3-
1998 06 09	046	0.0	0.0	1998 09 24	118	0.5+	0.0	2000 02 10	413	0.4+	0.3+
1998 06 09	046	0.1+	0.4-	1998 10 02	757	(2.3+	0.2-)	2000 02 10	413	0.2+	0.0
1998 06 09	046	0.5+	0.1+	1998 10 02	757	1.0+	0.6-	2000 02 10	413	0.1-	0.2+
1998 06 14	046	0.4-	0.2+	1998 10 02	689	0.3+	0.1+	2000 02 26	413	0.2-	0.2+
1998 06 14	046	0.6-	0.2+	1998 10 04	422	0.2+	0.2+	2000 02 26	413	0.1-	0.0

1998 KS₃ = 2000 AN₇₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	107.39443		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.28294064	ω	128.05188	+0.91028598	+0.41194552
a	2.2979425	Ω	207.69120	-0.40206463	+0.85615521
e	0.2255238	i	5.06065	-0.09860766	+0.31192811
P	3.48	H	14.4	G 0.15	U 4

Residuals in seconds of arc

1998 04 22	704	0.4+	0.6-	1998 05 23	699	0.0	0.3+	1999 12 06	704	0.5-	0.0
1998 04 22	704	0.1-	0.7+	1998 05 24	704	0.2+	0.1-	1999 12 14	704	0.7+	0.0
1998 04 22	704	0.5-	0.6-	1998 05 24	704	0.2-	0.5-	1999 12 14	704	1.2+	0.2-
1998 04 22	704	0.3-	0.4+	1998 05 24	704	1.2+	0.5-	1999 12 14	704	0.7+	0.1-
1998 04 22	704	1.2-	0.5+	1998 05 24	704	0.4+	0.7-	1999 12 14	704	0.1+	0.4+
1998 05 22	704	0.3-	0.0	1998 05 24	699	0.2+	0.4+	1999 12 14	704	0.2+	0.2+
1998 05 22	704	0.1-	0.7+	1998 05 24	699	0.1-	0.1+	2000 01 05	704	0.5+	0.1-
1998 05 22	704	0.5-	0.6-	1998 05 24	699	0.7+	0.1+	2000 01 05	704	0.1+	0.2-
1998 05 22	704	0.5-	0.5+	1998 06 27	699	0.8+	1.3-	2000 01 05	704	0.2+	0.0
1998 05 22	699	0.2-	0.3-	1998 06 27	699	0.3+	0.2-	2000 01 05	704	0.1+	0.2+
1998 05 22	704	0.3-	0.9+	1998 06 27	699	0.3-	0.1+	2000 01 05	704	0.6-	0.4+
1998 05 22	699	0.4+	0.6-	1999 12 06	704	0.0	0.2-	2000 01 06	704	1.4-	0.4-
1998 05 22	699	0.5-	0.5+	1999 12 06	704	0.4-	0.0	2000 01 06	704	0.1-	0.1-

1998 05 23	699	0.4+	0.2+	1999 12 06	704	0.0	0.6-	2000 01 06	704	0.3+	0.1-
1998 05 23	699	0.3+	0.1-	1999 12 06	704	0.8-	0.2+	2000 01 06	704	0.3-	0.3+

1998 KT₇ = 1999 VM₁₀₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	107.40155		(2000.0)		P		Q
n	0.23030667	ω	241.94720		+0.56136347		+0.80021373
a	2.6359169	Ω	63.75570		-0.65240378		+0.58479406
e	0.2770851	i	13.60763		-0.50915652		+0.13294321
P	4.28	H	16.0	G	0.15	U	5

Residuals in seconds of arc

1998 05 22	704	0.7-	0.2-	1998 05 24	704	0.1-	0.8-	1999 11 09	704	0.4-	0.1+
1998 05 22	704	0.1-	0.2-	1998 05 24	699	0.5+	0.6-	1999 11 09	704	0.2+	0.4+
1998 05 22	704	1.2+	0.2-	1998 05 24	704	(2.5-	1.6+)	1999 11 09	704	0.3+	0.3-
1998 05 22	704	0.6-	0.3+	1998 05 24	699	0.9+	0.1-	1999 11 09	704	1.3+	0.2-
1998 05 23	699	1.2-	0.5-	1998 05 24	699	0.4+	0.2+	1999 11 10	704	0.2-	0.5-
1998 05 23	699	0.9+	0.7+	1998 05 24	704	0.5-	0.7+	1999 11 10	704	0.5+	0.9+
1998 05 23	699	0.4-	0.6+	1998 05 24	704	(2.8-	0.4-)	1999 11 10	704	1.0-	0.0
1998 05 24	704	0.4-	0.2+	1999 11 09	704	0.4+	0.0	1999 11 10	704	0.9-	0.5-

1998 KG₂₈ = 1991 GJ₂ = 1999 RW₂₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	275.17293		(2000.0)		P		Q
n	0.29235128	ω	125.22683		-0.78645330		-0.61695507
a	2.2483611	Ω	16.74171		+0.52850189		-0.69672293
e	0.0920553	i	5.83511		+0.31965131		-0.36598306
P	3.37	H	14.7	G	0.15	U	3

Residuals in seconds of arc

1991 04 08	809	1.5+	1.9+	1998 05 24	704	0.1-	1.0+	1999 09 14	704	0.1+	0.6-
1991 04 08	809	1.0-	0.6-	1998 05 24	704	0.3-	0.5+	1999 09 14	704	0.2+	0.6-
1991 04 08	809	1.2-	1.5-	1998 05 24	704	(0.3+	2.6+)	1999 09 30	703	0.5-	0.2+
1991 04 10	809	0.3-	1.4-	1998 05 24	704	(0.0	3.3+)	1999 09 30	703	0.8-	0.9+
1991 04 10	809	0.4-	0.8-	1999 09 07	704	0.1+	0.1-	1999 09 30	703	0.2-	0.7+
1991 04 10	809	(2.9-	2.0-)	1999 09 07	704	0.2+	0.6-	1999 09 30	703	0.5-	0.2+
1998 04 28	809	0.8+	0.0	1999 09 07	704	1.0+	0.1-	1999 10 02	704	0.2+	0.3-
1998 04 28	809	1.3+	1.4-	1999 09 07	704	0.2+	0.5+	1999 10 02	704	0.3+	0.7+
1998 04 28	809	0.7+	1.6-	1999 09 07	704	0.2+	0.0	1999 10 02	704	0.4+	0.2-
1998 05 05	699	0.8-	0.7+	1999 09 08	704	0.6+	0.4-	1999 10 02	704	0.3+	0.0
1998 05 05	699	(0.4+	2.5+)	1999 09 08	704	0.4-	0.3+	1999 12 07	704	0.4-	0.6-
1998 05 05	699	0.1-	0.5+	1999 09 08	704	0.1-	0.2+	1999 12 07	704	0.1+	0.6-
1998 05 22	704	0.5+	0.1+	1999 09 08	704	0.0	0.1+	1999 12 07	704	0.8+	0.8+
1998 05 22	704	1.2-	0.1-	1999 09 08	704	0.5-	0.0	1999 12 07	704	0.1+	1.3-
1998 05 22	704	0.0	1.1+	1999 09 14	704	0.1-	0.8-	1999 12 07	704	0.2+	0.7-
1998 05 22	704	0.5-	0.2-	1999 09 14	704	0.2+	0.6-				
1998 05 22	704	0.2-	0.4-	1999 09 14	704	0.2+	0.4-				

1998 KA₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	3.02927		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.29453991	ω	317.93283	+0.49607884	-0.86318030
a	2.2372093	Ω	102.12604	+0.82004485	+0.43021210
e	0.1795247	i	5.51397	+0.28536335	+0.26426752
P	3.35	H	14.8	G 0.15	U 4

2000 MAR. 20

M.P.C. 39195

1998 05 05	699	0.3+	0.3+	1999 07 16	704	0.3-	0.2-	1999 09 30	704	0.6-	0.3-
1998 05 05	699	0.7+	0.3-	1999 07 16	704	0.6+	0.2+	1999 11 08	704	0.0	1.1-
1998 05 22	704	0.2+	0.5+	1999 09 05	699	0.2+	0.4+	1999 11 08	704	1.4+	0.7-
1998 05 22	704	0.9-	0.1-	1999 09 05	699	0.2+	0.7+	1999 11 08	704	1.5+	0.3+
1998 05 22	704	(2.7+	0.7+)	1999 09 05	699	0.1+	0.8+	1999 11 08	704	0.2-	0.6-
1998 05 22	704	0.4+	0.4-	1999 09 08	703	0.6+	0.2+	1999 11 08	704	0.2-	0.1+
1998 05 22	699	0.3+	0.9+	1999 09 08	703	0.2+	0.2+	1999 12 09	699	0.3+	1.5+
1998 05 22	704	0.8-	0.9+	1999 09 08	703	0.2-	1.3+	1999 12 09	699	0.7-	0.6-
1998 05 22	699	0.8-	0.3-	1999 09 08	703	0.1-	0.7+	1999 12 09	699	1.1-	1.1+
1998 05 22	699	0.3+	0.3-	1999 09 14	704	0.5-	0.6-				
1998 05 24	704	0.0	1.0-	1999 09 14	704	0.3-	0.3-				

1998 KS₃₂ = 1999 RL₁₃₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	15.20268		(2000.0)	P		Q	
<i>n</i>	0.18998511	ω	112.61575	+0.98969056		+0.01758791	
<i>a</i>	2.9967902	Ω	246.62046	-0.06503644		+0.93939869	
<i>e</i>	0.1169505	<i>i</i>	8.90822	+0.12760432		+0.34237518	
<i>P</i>	5.19	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 04 28	809	0.9+	1.1+	1999 09 09	704	0.5+	0.3-	1999 09 19	699	0.6-	0.6-
1998 04 28	809	0.5+	0.6+	1999 09 09	704	0.2+	0.2-	1999 09 19	699	0.0	0.1+
1998 04 28	809	1.1+	0.1-	1999 09 09	704	0.1+	0.3-	1999 09 19	699	0.3-	0.2-
1998 05 22	704	(1.9-	2.4+)	1999 09 09	704	0.3+	0.1+	1999 09 30	703	0.0	0.3+
1998 05 22	704	1.6-	0.9-	1999 09 10	704	0.1+	0.7-	1999 09 30	703	0.2+	0.5+
1998 05 22	704	0.7-	0.1-	1999 09 10	704	0.3-	1.1-	1999 09 30	703	0.4+	1.2+
1998 05 22	704	0.4-	0.5+	1999 09 10	704	0.5-	0.2-	1999 09 30	703	0.1-	0.0
1998 05 24	704	0.6+	1.3-	1999 09 14	704	0.1-	0.4-	1999 10 02	704	0.4+	0.4+
1998 05 24	704	1.3+	0.0	1999 09 14	704	0.1+	0.0	1999 10 02	704	0.3-	0.5-
1998 05 24	704	0.4-	0.5+	1999 09 14	703	0.2-	0.1+	1999 10 02	704	0.3-	0.2+
1998 05 24	704	0.7-	0.8-	1999 09 14	704	0.1+	0.1-	1999 10 02	704	0.1+	0.2-
1998 05 24	704	0.8-	0.8+	1999 09 14	703	0.1+	0.1-	1999 10 02	704	0.1+	0.9+
1998 05 25	699	0.4+	0.7+	1999 09 14	704	0.2-	0.3+	1999 11 07	704	0.3-	0.4+
1998 05 25	699	0.1+	0.6-	1999 09 14	703	0.1+	0.3-	1999 11 07	704	0.1+	1.1+
1998 05 25	699	0.3-	0.4+	1999 09 14	704	0.1+	0.5+	1999 11 07	704	0.7+	0.2-
1999 09 09	704	0.3+	0.1+	1999 09 14	703	0.2-	0.4-	1999 11 07	704	0.9-	0.6+

1998 KM₄₅ = 1999 VW₈₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	215.02131		(2000.0)	P		Q	
<i>n</i>	0.30093339	ω	338.15482	-0.76672674		+0.63882289	
<i>a</i>	2.2054089	Ω	241.70807	-0.57780603		-0.72982575	
<i>e</i>	0.1072699	<i>i</i>	4.13708	-0.27976830		-0.24343312	
<i>P</i>	3.28	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 05 22	704	0.0	0.5+	1999 10 29	703	0.0	0.1+	1999 11 14	704	0.6-	0.4-
1998 05 22	704	0.3+	1.0+	1999 11 04	704	1.1+	0.0	1999 11 14	704	0.0	0.1+
1998 05 22	704	0.2-	0.2+	1999 11 04	704	0.3+	0.8-	1999 11 14	704	0.3-	0.2-
1998 05 22	704	0.2-	0.0	1999 11 04	704	0.3+	1.1-	1999 11 16	704	0.5+	1.0+
1998 05 24	704	(3.6-	2.5+)	1999 11 04	704	0.6+	1.0-	1999 11 16	704	0.2-	1.0+
1998 05 24	704	1.0-	0.2+	1999 11 04	704	0.8+	1.1-	1999 11 16	704	0.9+	0.8+
1998 05 24	704	0.1-	0.1-	1999 11 07	704	1.3+	0.0	1999 11 16	704	0.5-	0.2+
1998 05 24	704	0.4-	0.6-	1999 11 07	704	1.0+	1.2-	1999 12 04	699	0.1+	0.1+
1998 05 24	704	0.6-	1.3-	1999 11 07	704	0.4-	0.3-	1999 12 04	699	0.7-	0.7+
1998 06 03	704	0.2-	0.2-	1999 11 07	704	1.5+	1.1-	1999 12 04	699	0.3+	0.8+
1998 06 03	704	0.4+	0.1-	1999 11 11	703	0.6-	1.0+	1999 12 07	704	0.4+	0.0
1998 06 03	704	1.3+	0.3+	1999 11 11	703	0.1+	1.4+	1999 12 07	704	0.5+	0.6-
1998 06 03	704	0.6+	0.2+	1999 11 11	703	0.4-	0.4+	1999 12 07	704	0.7-	0.5-
1998 07 02	699	0.2+	0.2+	1999 11 11	703	1.9-	1.0+	1999 12 07	704	1.0-	0.5-
1998 07 02	699	0.3+	0.0	1999 11 12	699	0.3+	0.3-	2000 01 07	704	0.5-	0.4+
1998 07 02	699	0.3-	0.1-	1999 11 12	699	0.9-	1.5-	2000 01 07	704	1.2+	0.9-
1999 10 29	703	0.6-	0.3+	1999 11 12	699	0.9-	0.7+	2000 01 07	704	0.4+	0.4+

1999 10 29	703	0.9-	0.4+	1999 11 14	704	0.3-	0.1+
1999 10 29	703	0.4+	0.6+	1999 11 14	704	0.7-	0.1-

1998 KV₄₆ = 1999 VD₁₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	183.19097		(2000.0)	P		Q	
<i>n</i>	0.27861721	ω	10.69564	-0.47131516		+0.88050066	
<i>a</i>	2.3216536	Ω	231.20464	-0.81392259		-0.45641609	
<i>e</i>	0.1857766	<i>i</i>	3.73712	-0.33969402		-0.12807392	
<i>P</i>	3.54	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 05 22	704	0.2-	0.9-	1998 06 20	566	0.1+	0.1-	1999 10 06	704	1.4+	0.0
1998 05 22	704	0.3+	0.1+	1998 06 20	566	0.0	0.3+	1999 10 06	704	1.5-	0.1-
1998 05 22	704	0.8+	0.7-	1998 06 24	704	0.7-	0.3-	1999 11 12	704	0.7+	0.1+
1998 05 22	704	0.1+	0.1-	1998 06 24	704	0.1+	1.1+	1999 11 12	704	0.2+	0.2+
1998 05 22	704	1.4-	0.9-	1998 06 24	704	0.4+	1.8-	1999 11 12	704	0.2+	0.4-
1998 05 24	704	0.4+	0.3+	1998 06 24	704	0.3+	0.5-	1999 11 12	704	0.5-	0.3+
1998 05 24	704	0.4+	0.1+	1998 06 26	704	0.4+	1.8+	1999 11 12	704	0.1-	0.0
1998 05 24	704	0.3+	0.8+	1998 06 26	704	0.7-	0.9-	1999 11 16	704	0.2+	1.3-
1998 05 24	704	0.7-	0.8-	1998 06 26	704	1.0-	0.5+	1999 11 16	704	0.3-	0.1+
1998 05 24	704	0.3+	0.2+	1998 06 26	704	0.9+	1.2+	1999 11 16	704	0.4+	0.1+
1998 06 20	566	0.0	0.1+	1999 10 06	704	0.4-	0.1+				

1998 KV₅₂ = 1999 RP₁₃₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	82.97129		(2000.0)	P		Q	
<i>n</i>	0.17221539	ω	96.57670	+0.07171681		+0.99728140	
<i>a</i>	3.1995439	Ω	177.35256	-0.99679736		+0.07226331	
<i>e</i>	0.0993282	<i>i</i>	21.49712	-0.03537976		-0.01441609	
<i>P</i>	5.72	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 05 23	704	0.8+	0.5-	1998 06 04	704	1.5+	0.0	1999 09 09	704	0.1-	0.6+
1998 05 23	704	1.5-	0.2-	1998 06 04	704	1.4-	1.2-	1999 09 09	704	0.2-	0.4+
1998 05 23	704	1.0+	0.9-	1998 06 04	704	1.9-	0.4+	1999 09 09	704	0.1-	1.1+
1998 05 23	704	(0.8+	2.3-)	1998 06 04	704	1.2-	0.2+	1999 09 09	704	0.6+	0.6+
1998 05 26	704	0.7+	1.2+	1999 09 04	703	0.5-	0.5-	1999 09 14	704	0.9+	0.0
1998 05 26	704	0.6+	1.6+	1999 09 04	703	0.3-	0.2-	1999 09 14	704	0.2-	0.5-
1998 05 26	704	0.7+	0.2+	1999 09 04	703	0.5-	0.7-	1999 09 14	704	0.8+	0.2-
1998 05 26	704	1.0+	0.5-	1999 09 04	703	1.6-	0.9-				
1998 05 26	704	0.3-	0.3-	1999 09 09	704	1.1+	0.3+				

1998 KG₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Marsden			
<i>M</i>	110.16015		(2000.0)	P		Q	
<i>n</i>	0.00339778	ω	210.09809	-0.99304892		+0.11757429	
<i>a</i>	43.8200464	Ω	336.65214	-0.10503877		-0.90628564	
<i>e</i>	0.0839909	<i>i</i>	0.79359	-0.05311026		-0.40598352	
<i>P</i>	290	<i>H</i>	6.6	<i>G</i>	0.15		

Residuals in seconds of arc

1998 05 20	807	0.2-	0.0	1998 05 29	807	0.0	0.1+	1998 05 30	807	0.1-	0.0
1998 05 20	807	0.0	0.0	1998 05 29	807	0.0	0.0	1998 05 30	807	0.0	0.0
1998 05 20	807	0.1+	0.0	1998 05 29	807	0.0	0.0	1998 05 30	807	0.0	0.1+
1998 05 20	807	0.2-	0.1-	1998 05 29	807	0.0	0.0	1998 05 30	807	0.0	0.1-
1998 05 20	807	0.0	0.1-	1998 05 29	807	0.0	0.0	1998 06 30	568	0.7+	0.1+
1998 05 20	807	0.0	0.1-	1998 05 29	807	0.0	0.0	1998 06 30	568	0.8+	0.1+
1998 05 20	807	0.2-	0.1-	1998 05 29	807	0.0	0.1-	1998 07 01	568	1.0+	0.1+
1998 05 20	807	0.2-	0.1-	1998 05 29	807	0.0	0.0	1998 10 15	568	0.2-	0.6+
1998 05 20	807	0.2-	0.0	1998 05 30	807	0.0	0.0	1998 10 16	568	0.6-	0.1+
1998 05 20	807	0.0	0.1-	1998 05 30	807	0.0	0.0	1999 05 21	697	0.6-	0.3+
1998 05 20	807	0.2-	0.1-	1998 05 30	807	0.0	0.1+	1999 05 22	697	0.4+	0.2-
1998 05 20	807	0.2-	0.1-	1998 05 30	807	0.1-	0.0	1999 05 22	697	0.1+	0.4+

M.P.C. 39196

1998 05 20	807	0.2−	0.1−	1998 05 30	807	0.0	0.1+	1999 05 22	697	0.8+	0.2+
1998 05 20	807	0.2−	0.0	1998 05 30	807	0.1−	0.0	1999 05 22	697	0.2+	0.3+
1998 05 29	807	0.0	0.1+	1998 05 30	807	0.0	0.0	1999 05 23	697	0.5−	0.5−
1998 05 29	807	0.0	0.1+	1998 05 30	807	0.1−	0.1−	1999 05 24	697	0.2−	0.5−
1998 05 29	807	0.0	0.0	1998 05 30	807	0.0	0.0	1999 05 24	697	0.2−	0.3−

1998 MG = 1999 XT₂₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Doppler			
<i>M</i>	81.37192		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.18503736	ω	47.09065	+0.93603748		+0.31471956	
<i>a</i>	3.0499760	Ω	294.00281	−0.35158667		+0.81750796	
<i>e</i>	0.1728050	<i>i</i>	9.92370	−0.01485405		+0.48231974	
<i>P</i>	5.33	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 06 17	691	0.7+	0.6−	1998 06 23	691	0.8−	0.3−	1999 12 12	704	0.9+	0.3+
1998 06 17	691	0.4+	0.3−	1998 06 30	691	0.5+	0.3+	1999 12 16	704	0.6−	0.6+
1998 06 17	691	0.3+	0.3+	1998 06 30	691	0.3+	0.1−	1999 12 16	704	0.1+	0.4+
1998 06 18	691	0.1−	0.3+	1998 06 30	691	0.3+	0.3+	1999 12 16	704	0.6−	0.5−
1998 06 18	691	0.0	0.4+	1999 12 12	704	0.7−	0.0	1999 12 16	704	0.3+	0.8−
1998 06 18	691	0.1+	0.5+	1999 12 12	704	1.1+	0.7−	1999 12 16	704	0.4+	0.2+
1998 06 23	691	1.0−	0.8−	1999 12 12	704	0.4−	0.1+				
1998 06 23	691	0.8−	0.1−	1999 12 12	704	0.5−	0.4+				

1998 MB₁ = 2000 AJ₉₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	38.97957		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.27349930	ω	147.20616	+0.88855912		−0.45670727	
<i>a</i>	2.3505270	Ω	240.02751	+0.40938319		+0.83203556	
<i>e</i>	0.1240739	<i>i</i>	2.86990	+0.20704612		+0.31485757	
<i>P</i>	3.60	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 05 24	704	0.2−	1.6+	1999 10 03	704	0.1−	0.7−	1999 11 16	704	0.7−	0.1+
1998 05 24	704	0.5−	1.9−	1999 11 03	703	0.2−	0.3+	1999 11 16	704	0.4−	0.1−
1998 05 24	704	0.6+	0.7−	1999 11 03	703	0.4−	0.4+	1999 11 16	704	0.1+	0.1−
1998 05 24	704	(5.1−	2.1−)	1999 11 03	703	0.4−	0.5+	1999 12 04	699	0.8+	0.1+
1998 06 19	691	0.5−	0.4+	1999 11 03	703	0.3−	0.1+	1999 12 04	699	0.4+	0.2+
1998 06 19	691	0.7−	0.1+	1999 11 04	704	0.7+	0.0	1999 12 04	699	0.0	0.3+
1998 06 19	691	0.7−	0.2+	1999 11 04	704	0.9+	0.3+	2000 01 04	704	0.2−	0.3+
1998 06 20	691	0.8+	0.7+	1999 11 04	704	0.0	0.4−	2000 01 04	704	0.3−	0.6+
1998 06 20	691	1.0+	0.1+	1999 11 04	704	0.1−	0.0	2000 01 04	704	0.5−	0.5+
1998 06 20	691	0.8+	0.3+	1999 11 04	704	0.1−	0.2−	2000 01 04	704	0.3+	0.3+
1998 06 26	691	0.1+	0.2+	1999 11 14	704	0.5+	0.2−	2000 01 04	704	0.6−	0.1+
1998 06 26	691	0.5−	0.6+	1999 11 14	704	0.2−	0.1−	2000 01 07	704	0.2+	0.0
1998 06 26	691	0.0	0.3−	1999 11 14	704	0.2+	0.7−	2000 01 07	704	0.2+	0.0
1999 10 03	704	0.4+	0.0	1999 11 14	704	0.0	0.2−	2000 01 07	704	0.8+	0.0
1999 10 03	704	0.4+	0.4+	1999 11 14	704	0.1−	0.6−	2000 01 07	704	0.3−	0.1−
1999 10 03	704	0.1+	0.4−	1999 11 16	704	0.2−	0.5+	2000 01 07	704	0.3+	0.3−
1999 10 03	704	0.1−	0.1−	1999 11 16	704	1.2−	0.4+				

1998 MP₂ = 1999 VA₁₁₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	40.29731		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.19028512	ω	110.42021	+0.96036561		−0.20965542	
<i>a</i>	2.9936395	Ω	262.03353	+0.13078012		+0.92086641	
<i>e</i>	0.0398115	<i>i</i>	10.68920	+0.24615942		+0.32870908	
<i>P</i>	5.18	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 06 19	910	0.3−	0.2−	1998 06 26	809	1.3+	0.6−	1999 11 09	703	1.1−	0.0
1998 06 19	910	0.1+	0.1−	1998 06 26	809	0.8+	0.1+	1999 11 09	703	0.5−	0.3−
1998 06 19	910	0.3−	0.2−	1999 10 28	703	0.6−	0.6+	1999 11 11	703	0.4−	0.1+

2000 MAR. 20

1998 06 20	910	0.3−	0.0	1999 10 28	703	0.4+	0.7+	1999 11 11	703	1.3+	0.4−
1998 06 20	910	0.3−	0.0	1999 10 28	703	0.3+	0.6−	1999 11 11	703	0.1−	0.6+
1998 06 20	910	0.3−	0.2+	1999 10 28	703	0.2+	0.4+	1999 11 11	703	0.3+	0.1+
1998 06 21	910	0.3−	0.4+	1999 11 03	704	1.3+	0.8+	1999 12 08	704	0.6+	1.1−
1998 06 21	910	0.4−	0.6+	1999 11 03	704	0.2−	0.2−	1999 12 08	704	0.0	0.2+
1998 06 21	910	0.3−	0.4+	1999 11 03	704	0.1+	0.1−	1999 12 08	704	1.0+	0.1+
1998 06 26	910	0.5−	0.1−	1999 11 03	704	0.1−	0.7−	1999 12 08	704	1.0−	1.1−
1998 06 26	910	0.4−	0.2−	1999 11 03	704	0.1−	0.1+	2000 01 06	704	1.0−	0.2+
1998 06 26	910	0.2−	0.1−	1999 11 09	703	1.1−	0.2−	2000 01 06	704	0.2+	0.7+
1998 06 26	809	1.4+	0.2−	1999 11 09	703	0.1+	0.1−	2000 01 06	704	0.3+	0.2+

1998 MD₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	185.45702		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.24389510	ω	54.91437	−0.74875679		+0.66186749	
<i>a</i>	2.5370790	Ω	166.40647	−0.64701969		−0.71801200	
<i>e</i>	0.2134822	<i>i</i>	8.80622	−0.14397496		−0.21538384	
<i>P</i>	4.04	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 06 19	704	0.6−	0.4+	1999 10 03	703	0.5−	0.6+	1999 11 01	703	0.1−	0.2−
1998 06 19	704	0.9−	1.5+	1999 10 03	703	0.5−	0.8+	1999 11 01	703	0.2−	0.5−
1998 06 19	704	0.9+	1.3+	1999 10 03	703	0.1+	0.5+	1999 11 01	703	0.0	0.2+
1998 06 19	704	(2.4−	0.4+)	1999 10 03	703	0.2−	0.5+	1999 11 01	703	0.1−	0.2−
1998 06 25	704	0.1+	1.1−	1999 10 04	704	0.8+	0.1−	1999 11 27	699	0.1+	0.6+
1998 06 25	704	0.2+	0.0	1999 10 04	704	0.5−	0.5−	1999 11 27	699	0.3−	0.4+
1998 06 25	704	0.1+	0.9−	1999 10 04	704	0.5+	0.4−	1999 11 27	699	0.9+	1.1−
1998 06 25	704	0.2+	1.1−	1999 10 04	704	0.5+	0.1+				
1998 06 25	704	0.0	0.3−	1999 10 04	704	0.4−	0.6−				

1998 MG₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	117.57978		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.26460236	ω	224.54794	+0.96686887		−0.25416255	
<i>a</i>	2.4029251	Ω	150.15201	+0.24551792		+0.90035336	
<i>e</i>	0.2230144	<i>i</i>	2.73983	+0.06989663		+0.35322121	
<i>P</i>	3.72	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1987 08 24	675	(8.8−	5.0−)	1998 08 17	704	0.4+	0.3−	1998 09 14	704	0.6+	0.5+
1987 08 24	675	(0.4−	4.4−)	1998 08 17	704	1.9+	0.9−	1998 10 14	910	0.1+	0.0
1991 12 13	675	0.8−	0.4−	1998 08 17	704	0.9−	0.6−	1998 10 14	910	0.0	0.3−
1991 12 13	675	0.8+	0.2+	1998 08 17	704	0.2+	0.0	1998 10 14	910	0.1+	0.1−
1998 06 24	691	0.9+	0.2−	1998 08 23	699	0.8+	0.5+	2000 03 03	704	0.8+	0.5−
1998 06 24	691	0.5+	0.3−	1998 08 23	704	0.8+	1.2−	2000 03 03	704	0.2+	0.2−
1998 06 24	691	0.8+	0.3−	1998 08 23	704	0.0	0.5−	2000 03 03	704	0.9−	0.2+
1998 06 28	691	1.0−	0.0	1998 08 23	699	0.0	0.6+	2000 03 03	704	0.9+	0.7+
1998 06 28	691	0.7−	0.3+	1998 08 23	704	1.2−	0.4+	2000 03 03	704	0.3−	0.0
1998 06 28	691	0.7−	0.1+	1998 08 23	704	1.3−	0.4+	2000 03 10	691	0.2−	0.5+
1998 07 26	691	0.2−	0.1−	1998 08 23	699	0.1−	0.8+	2000 03 10	691	0.3−	0.1+
1998 07 26	691	0.2+	0.0	1998 09 14	704	(2.4+	2.0+)	2000 03 10	691	0.2−	0.3−
1998 07 26	691	0.0	0.1+	1998 09 14	704	0.2+	0.8−				
1998 08 17	704	1.0−	1.0+	1998 09 14	704	0.6−	1.1+				

1998 MQ₁₇ = 1982 SC₉ = 2000 AK₅₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	29.24634		(2000.0)	P		Q	
n	0.17803215	ω	108.22655	+0.85614147		−0.50403908	
a	3.1294673	Ω	282.17922	+0.41909193		+0.80619956	
e	0.1440842	i	6.68969	+0.30229744		+0.30981747	
P	5.54	H	13.6	G	0.15	U	2

2000 MAR. 20

M.P.C. 39197

Residuals in seconds of arc

1982 09 20	095	0.2+	0.5−	1999 10 05	704	0.2+	0.9−	1999 12 08	704	0.0	0.1−
1998 06 28	684	0.7+	0.5−	1999 10 05	704	0.6−	0.3−	1999 12 08	704	0.2−	0.9−
1998 06 28	684	0.7+	0.0	1999 11 03	704	0.1−	1.1+	1999 12 13	703	0.6+	0.2+
1998 06 29	684	0.5+	0.4−	1999 11 03	704	0.2+	0.2+	1999 12 13	703	0.0	0.3+
1998 06 29	684	0.4+	0.2−	1999 11 03	704	0.3−	0.0	1999 12 13	703	0.2+	0.5+
1998 07 03	684	0.9−	0.5+	1999 11 03	704	0.1−	0.0	1999 12 13	703	0.2+	0.7+
1998 07 03	684	1.2−	0.8+	1999 11 03	704	0.7+	0.3−	2000 01 04	704	0.2+	0.5+
1998 07 15	684	0.2+	0.0	1999 11 09	699	0.2−	0.1−	2000 01 04	704	0.2+	0.1+
1998 07 15	684	0.2−	0.2+	1999 11 09	699	0.5+	0.5−	2000 01 04	704	0.4+	0.8+
1998 07 16	684	0.1+	0.3−	1999 11 09	699	0.7−	0.6+	2000 01 04	704	0.8−	0.3+
1998 07 16	684	0.2−	0.2−	1999 11 10	703	0.1−	0.1+	2000 01 04	704	1.1+	0.9−
1999 09 04	703	0.1+	1.0+	1999 11 10	703	0.1−	0.2+	2000 01 06	704	0.1+	0.4+
1999 09 04	703	0.2+	0.8+	1999 11 10	703	0.1−	0.4+	2000 01 06	704	0.1−	0.0
1999 09 04	703	0.6+	1.4+	1999 11 10	703	0.7−	0.0	2000 01 06	704	0.3−	0.6−
1999 09 04	703	0.9−	0.4−	1999 12 08	704	0.9+	0.3+	2000 01 06	704	0.2−	0.4−
1999 10 05	704	0.2−	1.3−	1999 12 08	704	0.0	0.2−	2000 01 06	704	0.5−	1.2−
1999 10 05	704	0.2−	0.7−	1999 12 08	704	0.0	0.5−				

1998 MJ₃₂ = 1999 XN₁₈₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	169.40874	(2000.0)	P		Q	
<i>n</i>	0.26855823	ω	348.79988	+0.14452057	+0.97125246	
<i>a</i>	2.3792700	Ω	289.29431	−0.89166234	+0.04494459	
<i>e</i>	0.1736781	<i>i</i>	11.56148	−0.42901291	+0.23377050	
<i>P</i>	3.67	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 06 24	704	0.4+	0.6−	1998 07 01	809	(3.0+	0.4+)	1999 12 12	704	0.3+	0.8+
1998 06 24	704	0.3−	0.2+	1998 07 03	699	0.5+	0.2+	1999 12 15	704	0.9+	0.3+
1998 06 24	704	1.0+	1.1−	1998 07 03	699	0.9+	0.5−	1999 12 15	704	1.2−	1.0−
1998 06 24	704	(0.2−	2.5−)	1998 07 03	699	0.0	0.3−	1999 12 15	704	0.4−	0.0
1998 06 26	704	0.4+	0.0	1998 07 26	704	1.1−	0.2−	1999 12 15	704	0.4−	0.3−
1998 06 26	704	0.6−	0.1−	1998 07 26	704	0.1+	0.6+	1999 12 16	704	0.6−	0.4+
1998 06 26	704	1.6−	0.8+	1998 07 26	704	0.3+	0.8+	1999 12 16	704	0.5−	0.3+
1998 06 26	704	0.5−	1.2+	1998 07 26	704	0.7+	0.5−	1999 12 16	704	0.4−	0.1+
1998 06 28	809	(2.1+	3.3+)	1998 07 26	704	0.4−	0.7−	1999 12 16	704	0.0	0.0
1998 06 28	809	(2.6+	2.6+)	1999 12 12	704	0.3+	0.5−	1999 12 16	704	0.1+	0.4−
1998 06 28	809	(2.3+	2.4+)	1999 12 12	704	0.3+	0.6−	2000 01 02	704	0.3−	0.0
1998 07 01	809	(3.1+	0.6+)	1999 12 12	704	0.2+	0.2−	2000 01 02	704	0.7+	0.4+
1998 07 01	809	(2.6+	0.5+)	1999 12 12	704	1.2+	0.8+	2000 01 02	704	0.0	0.2−

1998 MK₃₃ = 2000 AH₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	98.92262	(2000.0)	P		Q	
<i>n</i>	0.22604489	ω	235.80816	+0.96161636	+0.18487902	
<i>a</i>	2.6689448	Ω	112.79721	−0.11609545	+0.94367234	
<i>e</i>	0.2308313	<i>i</i>	12.70592	−0.24862789	+0.27441259	
<i>P</i>	4.36	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1998 06 24	704	0.2−	0.6+	1998 06 26	704	0.2+	1.2−	2000 01 05	704	0.7+	0.5+
1998 06 24	704	1.3+	0.5+	1998 06 28	809	(1.0+	2.1+)	2000 01 05	704	0.4+	0.6−
1998 06 24	704	0.7+	0.7+	1998 06 28	809	1.2+	1.0+	2000 01 05	704	0.5−	0.1−
1998 06 24	704	0.2−	1.3−	1998 06 28	809	0.5+	1.5+	2000 01 05	704	0.3+	0.1−
1998 06 24	704	0.9−	0.6+	1998 07 01	809	0.3−	0.4−	2000 01 06	704	0.5−	0.1+
1998 06 26	704	1.8−	0.4−	1998 07 01	809	0.5+	0.2+	2000 01 06	704	0.0	0.0
1998 06 26	704	(2.2−	1.4−)	1998 07 01	809	0.3−	0.2−	2000 01 06	704	0.3−	0.5+
1998 06 26	704	0.8−	1.7−	2000 01 05	704	0.1−	0.4−				

1998 MM₃₉ = 1995 YZ₂₄ = 1999 XJ₁₄ = 2000 AN₇₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	59.33507	(2000.0)	P		Q	
<i>n</i>	0.22811502	ω	269.31614	+0.80802214	−0.56307251	
<i>a</i>	2.6527733	Ω	124.93707	+0.58863224	+0.75921443	
<i>e</i>	0.2038551	<i>i</i>	12.20772	+0.02474491	+0.32640894	
<i>P</i>	4.32	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1995 12 22	566	0.8+	0.8+	1998 06 26	809	0.3+	0.1+	1999 12 14	704	0.3+	0.0
1995 12 22	566	0.4+	0.4+	1998 06 27	809	0.1−	1.0+	1999 12 14	704	1.0−	0.1+
1995 12 22	566	0.2+	0.4+	1998 06 27	809	1.0−	1.8+	1999 12 14	704	0.2−	0.1−
1995 12 27	566	0.7−	0.5−	1998 06 27	809	1.3+	0.8+	1999 12 14	704	0.3−	0.4−
1995 12 27	566	0.7−	0.6−	1999 12 05	704	0.1−	0.6−	2000 01 05	704	0.7+	0.1−
1995 12 27	566	0.0	0.2−	1999 12 05	704	0.2+	1.0−	2000 01 05	704	0.5+	0.3−
1998 06 24	704	0.3−	1.9−	1999 12 05	704	0.9−	0.9−	2000 01 05	704	0.2+	0.1−
1998 06 24	704	0.2−	1.1−	1999 12 05	704	0.2+	0.6−	2000 01 05	704	0.5+	0.0
1998 06 24	704	0.2+	0.1−	1999 12 06	704	(2.6+	0.4+)	2000 01 05	704	(2.4+	0.2−)
1998 06 24	704	0.4+	0.9+	1999 12 06	704	0.1+	1.9+	2000 01 06	704	0.3+	0.3+
1998 06 26	809	0.7−	0.6−	1999 12 06	704	0.6−	1.7+	2000 01 06	704	0.1−	0.3+
1998 06 26	809	0.1+	0.8−	1999 12 14	704	0.0	0.4−	2000 01 06	704	0.1+	0.3+

1998 MH₄₀ = 2000 AL₁₉₉

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	355.62813	(2000.0)	P		Q	
<i>n</i>	0.19687978	ω	297.25735	+0.30857870	−0.93978435	
<i>a</i>	2.9264109	Ω	133.95585	+0.92885326	+0.26443159	
<i>e</i>	0.1530636	<i>i</i>	11.77604	+0.20496539	+0.21652091	
<i>P</i>	5.01	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1998 06 26	809	0.9+	0.2+	1999 10 02	704	0.7−	0.3−	2000 01 09	704	0.0	0.3+
1998 06 26	809	0.1−	0.9−	1999 10 02	704	1.5−	0.3−	2000 01 09	704	0.1−	0.0
1998 06 26	809	0.1−	0.1−	1999 10 02	704	1.0−	0.1+	2000 01 09	704	0.2+	0.1+
1998 06 27	809	0.3−	0.3+	1999 10 02	704	0.1−	0.2−	2000 01 09	704	0.3+	0.1+
1998 06 27	809	0.1−	1.2+	1999 10 02	704	1.2−	1.1−	2000 01 11	704	0.2−	1.0+
1998 06 27	809	0.3−	0.3+	1999 11 07	704	0.5+	0.5−	2000 01 11	699	1.6−	1.9+
1999 08 22	703	0.8+	0.6+	1999 11 07	704	0.2+	0.7−	2000 01 11	704	0.7+	0.4+
1999 08 22	703	0.3+	0.6+	1999 11 07	704	0.6+	0.4−	2000 01 11	704	0.4+	0.1−
1999 08 22	703	0.4+	0.5+	1999 11 07	704	0.0	0.1−	2000 01 11	699	0.1−	0.3−
1999 08 22	703	0.0	0.7−	1999 12 02	704	0.1+	0.2+	2000 01 11	704	0.2+	0.0
1999 09 14	704	0.5−	1.1+	1999 12 02	704	0.2−	0.2−	2000 01 11	704	0.5+	0.1+
1999 09 14	704	1.5+	0.2−	1999 12 02	704	0.0	0.3+	2000 01 11	699	0.0	0.1+
1999 09 14	704	0.2+	0.4−	1999 12 02	704	0.5−	0.5+				
1999 09 14	704	1.3+	0.6−	2000 01 09	704	0.1+	0.4−				

1998 MJ₄₁ = 1993 VS₂ = 2000 AT₉₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	112.34286	(2000.0)	P		Q	
<i>n</i>	0.36334319	ω	304.04678	+0.63451310	−0.66200346	
<i>a</i>	1.9450228	Ω	101.14419	+0.77223296	+0.56461871	
<i>e</i>	0.0998203	<i>i</i>	23.99118	−0.03239416	+0.49290683	
<i>P</i>	2.71	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1993 11 06	413	0.8+	0.6−	1998 06 28	809	(2.6+	0.8+)	2000 01 03	704	0.8+	0.0
1993 11 06	413	0.6−	0.5+	1998 06 28	809	(3.1+	0.5+)	2000 01 06	704	0.4−	0.5−
1993 11 09	413	0.8−	1.1+	1998 06 28	809	(2.8+	1.4+)	2000 01 06	704	0.3−	1.8+
1998 06 24	704	0.6−	0.1+	1998 07 01	809	1.2+	0.8+	2000 01 06	704	0.2−	0.9−
1998 06 24	704	0.3−	0.3−	1998 07 01	809	0.7+	0.9+	2000 01 06	704	0.4−	0.2+
1998 06 24	704	1.2−	0.2+	1998 07 01	809	1.4+	1.0+	2000 01 08	704	0.0	0.7−
1998 06 24	704	0.1+	0.1−	2000 01 03	704	0.3+	0.9+	2000 01 08	704	0.3+	0.4+
1998 06 26	704	1.2−	0.3−	2000 01 03	704	0.7+	0.1+	2000 01 08	704	0.4−	0.4+

M.P.C. 39198

2000 MAR. 20

1998 06 26 704 0.2- 0.3- 2000 01 03 704 0.4+ 0.0 2000 01 08 704 0.1+ 0.4+
 1998 06 26 704 0.0 0.6- 2000 01 03 704 0.5+ 0.5- 2000 01 08 704 0.3- 0.3+

1998 MH₄₆ = 1976 GN = 1987 KO₂ = 1997 EO₅₅ = 1999 VK₉₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		(2000.0)		Williams		Q	
<i>M</i>	153.14469			<i>P</i>		<i>Q</i>	
<i>n</i>	0.18740841	ω	240.39821	-0.47326495		+0.88092013	
<i>a</i>	3.0241964	Ω	1.35537	-0.80624710		-0.43308606	
<i>e</i>	0.1459520	<i>i</i>	0.32612	-0.35494494		-0.19083026	
<i>P</i>	5.26	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 04 01	095	0.2+	1.2-	1998 06 24	704	0.2+	2.0-	1999 11 05	704	0.6+	0.5+
1987 05 30	413	0.1+	1.1+	1998 06 24	704	0.2-	0.0	1999 11 05	704	1.0+	0.2-
1987 05 30	413	0.6-	0.8+	1998 06 24	704	0.1-	0.4-	1999 11 05	704	0.4-	0.8+
1997 03 02	691	0.3-	0.5-	1998 06 24	704	0.9-	0.0	1999 11 09	704	0.1+	0.0
1997 03 02	691	0.1-	0.5-	1998 07 01	809	1.1+	0.5-	1999 11 09	704	0.5+	0.6+
1997 03 02	691	0.4-	0.7-	1998 07 01	809	0.1+	0.5-	1999 11 09	704	0.3+	0.6-
1997 03 08	327	1.0-	0.3-	1998 07 01	809	0.6+	0.9-	1999 11 09	704	0.0	0.6-
1997 03 08	327	0.1-	0.4-	1999 11 01	703	0.0	0.1-	1999 11 12	704	0.2-	0.6-
1997 03 08	327	0.6+	0.5-	1999 11 01	703	0.3+	0.1-	1999 11 12	704	0.1+	0.8-
1998 06 23	699	0.6-	0.7+	1999 11 01	703	0.1+	0.4+	1999 11 12	704	0.1-	0.9-
1998 06 23	699	0.4+	0.3+	1999 11 01	703	1.0-	0.3-	1999 11 12	704	0.2-	0.6-
1998 06 23	699	0.4+	0.4+	1999 11 05	704	0.5+	0.1-	1999 11 12	704	0.2-	0.7-
1998 06 24	704	0.7+	0.2+	1999 11 05	704	0.9-	0.6+				

1998 OF₄

Id. P. G. Comba (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		(2000.0)		Williams		Q	
<i>M</i>	129.67821			<i>P</i>		<i>Q</i>	
<i>n</i>	0.29713745	ω	227.28065	+0.99002901		-0.12883910	
<i>a</i>	2.2241520	Ω	140.02275	+0.14050382		+0.93208020	
<i>e</i>	0.1610500	<i>i</i>	5.08519	-0.01006120		+0.33856608	
<i>P</i>	3.32	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 07 26	684	0.1-	0.4-	1998 08 23	704	1.5-	1.2+	2000 02 29	704	0.4+	0.2+
1998 07 26	684	0.3-	0.8-	1998 08 23	704	(2.3+	0.3-)	2000 02 29	704	1.3-	0.2+
1998 07 27	684	0.4+	0.0	1998 08 23	704	0.6-	0.5+	2000 02 29	704	0.9+	0.4-
1998 07 27	684	0.7+	0.4+	1998 08 23	704	1.3-	1.4+	2000 02 29	704	0.5+	1.1-
1998 07 30	684	0.3+	0.0	1998 08 23	704	0.5-	0.2-	2000 03 03	704	0.1+	0.4-
1998 07 30	684	0.1+	0.2+	1998 09 21	684	0.2+	0.9-	2000 03 03	704	0.1+	0.1+
1998 07 31	684	0.3+	0.1+	1998 09 21	684	0.1-	0.8-	2000 03 03	704	0.3+	0.1+
1998 07 31	684	0.5+	0.0	1998 09 21	684	0.3-	0.1+	2000 03 05	704	0.2+	0.8+
1998 08 17	704	0.7+	0.3-	1998 09 22	684	0.5+	0.0	2000 03 05	704	0.9+	0.5+
1998 08 17	704	0.2+	1.0+	1998 09 22	684	0.4+	0.4-	2000 03 05	704	0.8-	0.2-
1998 08 17	704	1.7+	0.7-	2000 02 26	684	0.2-	0.0	2000 03 05	704	0.5+	0.7+
1998 08 17	704	1.0+	0.3-	2000 02 26	684	0.4-	0.0	2000 03 05	704	0.7-	0.9+
1998 08 17	704	1.5-	0.5+	2000 02 27	684	0.1-	0.1-	2000 03 09	704	0.0	0.0
1998 08 19	684	0.1+	0.2-	2000 02 27	684	0.3-	0.1-	2000 03 09	704	0.1-	0.3+
1998 08 19	684	0.3+	0.5-	2000 02 27	691	0.3-	0.0	2000 03 09	704	1.2+	0.7-
1998 08 19	684	0.2+	0.4-	2000 02 27	691	0.9-	0.5-	2000 03 09	704	0.7-	1.4-
1998 08 20	684	0.6-	0.0	2000 02 27	691	0.4-	0.0				
1998 08 20	684	0.6-	0.6-	2000 02 29	704	0.6+	0.0				

1998 OH₁₀ = 2000 DD₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		(2000.0)		Williams		Q	
<i>M</i>	94.57605			<i>P</i>		<i>Q</i>	
<i>n</i>	0.28585036	ω	258.65885	+0.61728972		-0.78520112	
<i>a</i>	2.2823219	Ω	153.03192	+0.75745225		+0.57627857	
<i>e</i>	0.1971520	<i>i</i>	6.21794	+0.21264873		+0.22663234	
<i>P</i>	3.45	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 07 26	809	(3.1+	2.4+)	1998 09 21	699	1.1-	1.0-	2000 02 26	703	1.4+	0.8-
1998 07 26	809	(3.1+	2.6+)	2000 01 08	704	0.7+	0.7+	2000 02 29	704	0.1+	0.1-
1998 07 26	809	(3.2+	1.1+)	2000 01 08	704	0.6-	0.3-	2000 02 29	704	0.3+	0.4-
1998 07 27	809	(3.5+	3.5+)	2000 01 08	704	0.8-	0.6-	2000 02 29	704	0.1-	0.0
1998 07 27	809	(3.7+	2.9+)	2000 01 08	704	0.3-	0.3+	2000 03 02	703	0.2-	0.1-
1998 07 27	809	(3.2+	2.6+)	2000 01 08	704	0.2-	0.1+	2000 03 02	703	0.6-	0.4-
1998 08 17	704	0.1-	0.4+	2000 02 02	703	0.5+	0.3-	2000 03 02	703	0.7-	0.2-
1998 08 17	704	0.2+	0.1+	2000 02 02	703	1.0+	0.5+	2000 03 02	703	0.1-	0.5-
1998 08 17	704	0.2-	1.0+	2000 02 02	703	0.1-	0.8+	2000 03 11	699	0.7-	0.0
1998 08 17	704	1.0+	0.7-	2000 02 02	703	0.2+	0.2-	2000 03 11	699	0.5-	0.2+
1998 08 17	704	0.3+	0.1-	2000 02 11	704	0.1-	0.4+	2000 03 11	699	0.3-	0.2-
1998 08 23	704	0.6-	0.5-	2000 02 11	704	0.6+	0.7+	2000 03 11	699	0.6-	0.2-
1998 08 23	704	0.5+	0.3-	2000 02 11	704	0.9+	0.5+	2000 03 12	704	0.2-	0.4-
1998 08 23	704	0.0	0.9+	2000 02 11	704	0.3+	1.6+	2000 03 12	704	0.2-	0.4-
1998 08 23	704	0.7-	0.2+	2000 02 26	703	0.3-	0.2+	2000 03 12	704	0.1+	0.2+
1998 09 21	699	0.1-	0.7+	2000 02 26	703	0.4-	0.7-	2000 03 12	704	0.3+	0.1-
1998 09 21	699	0.5+	0.3+	2000 02 26	703	0.3+	0.2+	2000 03 12	704	0.6+	0.6+

1998 OU₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		(2000.0)		Marsden		Q	
<i>M</i>	154.43882			<i>P</i>		<i>Q</i>	
<i>n</i>	0.28937283	ω	208.20684	+0.92419412		+0.36575038	
<i>a</i>	2.2637626	Ω	129.90893	-0.31789635		+0.89626136	
<i>e</i>	0.2246166	<i>i</i>	8.24207	-0.21167694		+0.25088293	
<i>P</i>	3.41	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 08 02	413	0.3-	1.3-	1998 08 17	704	0.0	0.5+	1998 10 18	327	0.1+	0.4-
1991 08 02	413	0.9+	1.0+	1998 08 23	704	0.3+	0.5+	1998 10 19	327	0.3-	0.2-
1991 08 30	413	(2.5-	0.1-)	1998 08 23	704	1.2-	0.3+	1998 10 19	327	0.3-	0.2-
1991 08 30	413	0.8-	0.4-	1998 08 23	704	0.8-	1.4+	1998 10 19	327	0.1-	0.2-
1998 07 04	699	0.0	0.3+	1998 08 23	704	0.5+	1.0+	2000 01 04	704	0.2+	0.6+
1998 07 04	699	0.1-	0.3+	1998 08 23	704	0.3-	0.6+	2000 01 04	704	0.5+	1.8+
1998 07 04	699	0.9-	0.2+	1998 08 27	699	0.0	0.1+	2000 01 04	704	0.0	0.5-
1998 07 26	809	(0.8+	3.1+)	1998 08 27	699	0.4+	0.3+	2000 01 04	704	0.4-	0.5-
1998 07 26	809	(0.6+	3.4+)	1998 08 27	699	0.6+	0.1+	2000 01 04	704	0.3+	0.8+
1998 07 26	809	(0.5+	2.7+)	1998 09 17	699	0.3+	0.2-	2000 01 30	703	0.1-	0.7+
1998 07 27	809	(2.3+	4.4+)	1998 09 17	699	0.3-	0.4-	2000 01 30	703	0.0	0.6+
1998 07 27	809	(1.9+	4.4+)	1998 09 17	699	0.0	0.4-	2000 01 30	703	0.9-	0.7+
1998 07 27	809	(2.0+	3.9+)	1998 09 24	699	0.3-	0.4-	2000 01 30	703	1.0+	0.1-
1998 07 31	699	0.6-	0.7+	1998 09 24	699	0.4+	0.1-	2000 02 03	704	0.1-	0.4+
1998 07 31	699	0.1-	0.1-	1998 09 24	699	0.2+	0.1+	2000 02 03	704	0.2-	0.4+
1998 07 31	699	0.6+	0.1+	1998 10 13	704	0.3-	0.7+	2000 02 03	704	0.6+	1.2+
1998 08 17	704	0.1+	0.2-	1998 10 13	704	0.3+	0.1-	2000 02 03	704	0.1-	0.8+
1998 08 17	704	0.5+	0.3+	1998 10 13	704	0.1-	1.5-	2000 02 03	704	0.2-	0.1+
1998 08 17	704	0.5-	1.1+	1998 10 18	327	0.1+	0.3-	2000 02 05	695	0.3+	0.4+
1998 08 17	704	0.2-	0.8+	1998 10 18	327	0.1+	0.1-	2000 02 05	695	0.3+	0.4+

1998 OK₁₃ = 2000 ES₇₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		(2000.0)		Williams		Q	
<i>M</i>	80.77923			<i>P</i>		<i>Q</i>	
<i>n</i>	0.29687802	ω	293.57085	+0.42536201		-0.90129951	
<i>a</i>	2.2254475	Ω	130.99596	+0.86491676		+0.37816101	
<i>e</i>	0.1048937	<i>i</i>	6.23828	+0.26643228		+0.21131363	
<i>P</i>	3.32	<i>H</i>	15.0	<i>G</i>	0.15		

2000 MAR. 20

M.P.C. 39199

1998 08 17	704	0.1+	0.3+	1999 12 05	703	0.4+	0.4+	2000 03 11	699	0.3-	0.1+
1998 08 17	704	0.8-	0.1+	1999 12 05	703	1.1+	0.5+	2000 03 11	699	0.5-	0.2+
1998 08 17	704	0.2-	1.2+	1999 12 05	704	0.0	0.6-	2000 03 11	699	0.2-	0.3-
1998 08 19	566	1.8-	1.0-	1999 12 05	703	1.7-	0.6+	2000 03 11	699	0.6-	0.1+
1998 08 19	566	1.1-	0.4-	2000 02 04	704	0.1+	0.3-	2000 03 12	704	0.0	0.5-
1998 08 19	566	(2.2-	0.5-)	2000 02 04	704	0.1-	0.2-	2000 03 12	704	0.2-	0.2+
1998 08 23	704	0.2+	0.1+	2000 02 04	704	0.5+	0.2-	2000 03 12	704	0.3-	0.1+
1998 08 23	704	0.9-	1.0+	2000 02 04	704	0.2+	0.3-	2000 03 12	704	0.2-	0.1+
1998 08 23	704	0.0	0.5-	2000 02 04	704	0.9-	0.1-	2000 03 12	704	0.2-	0.3-
1998 08 23	704	1.8+	1.7+	2000 02 11	704	0.6+	0.3-				
1998 08 23	704	1.8-	0.7-	2000 02 11	704	0.5+	0.2+				

1998 PZ

Id. F. B. Zoltowski (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	105.15597		(2000.0)	P	Q
<i>n</i>	0.30143425	ω	358.14954	+0.83768223	-0.53981774
<i>a</i>	2.2029653	Ω	34.93381	+0.50293298	+0.70319248
<i>e</i>	0.1621463	<i>i</i>	8.33185	+0.21294812	+0.46272793
<i>P</i>	3.27	<i>H</i>	15.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 08 14	426	0.3-	0.5-	1998 09 16	426	0.1-	0.3-	2000 02 12	858	0.4-	0.3+
1998 08 14	426	0.2+	0.8-	1998 09 16	426	0.4-	0.2+	2000 03 03	688	0.1+	0.0
1998 08 14	426	0.4-	0.7-	1998 09 28	426	0.5-	0.9+	2000 03 03	688	0.0	0.1+
1998 08 15	426	0.5-	0.2-	1998 09 28	426	0.6-	1.1+	2000 03 04	704	1.0+	0.6-
1998 08 15	426	1.0-	0.3-	1998 09 28	426	0.2+	0.8+	2000 03 04	704	0.8-	1.1+
1998 08 15	426	1.1-	0.6-	2000 02 03	704	0.9-	0.2-	2000 03 04	704	0.8+	0.8-
1998 08 22	426	0.4-	0.1+	2000 02 03	704	0.1-	0.3+	2000 03 04	704	1.2+	0.0
1998 08 22	426	0.4+	0.2-	2000 02 03	704	0.1-	0.7+	2000 03 04	704	0.8+	0.5-
1998 08 22	426	0.5+	0.1+	2000 02 03	704	0.2-	0.4-	2000 03 11	699	0.9+	0.1+
1998 08 27	426	1.5+	0.1-	2000 02 03	704	0.3-	0.8+	2000 03 11	699	1.2+	1.1+
1998 08 27	426	0.8+	0.5+	2000 02 06	703	0.4-	1.0-	2000 03 11	699	1.9+	0.0
1998 08 27	426	0.1+	0.4+	2000 02 06	703	1.7-	0.6+	2000 03 11	699	0.0	0.8+
1998 08 28	426	0.4+	0.2-	2000 02 06	703	0.9+	0.3-	2000 03 12	704	0.4+	0.0
1998 08 28	426	0.6+	0.7+	2000 02 06	703	0.1-	0.7-	2000 03 12	704	1.0-	0.3+
1998 08 28	426	0.5+	0.7+	2000 02 12	858	0.3-	0.1+	2000 03 12	704	0.6-	0.0
1998 09 16	426	0.2-	0.1+	2000 02 12	858	0.7-	0.1+	2000 03 12	704	1.2-	0.6-

1998 PB₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	200.42823		(2000.0)	P	Q
<i>n</i>	0.34125460	ω	350.05894	+0.34189245	+0.93540017
<i>a</i>	2.0280736	Ω	299.88377	-0.85489234	+0.26973137
<i>e</i>	0.4316497	<i>i</i>	5.97143	-0.39021615	+0.22862962
<i>P</i>	2.89	<i>H</i>	17.3	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1998 08 15	704	0.2+	0.5-	1998 08 19	670	1.2-	0.6+	1998 09 07	557	0.0	0.4-
1998 08 15	704	0.2-	0.5-	1998 08 19	670	0.7-	0.9+	1998 09 08	402	0.2-	0.7-
1998 08 15	704	0.4-	0.2-	1998 08 19	046	0.7-	0.2+	1998 09 08	402	0.1-	0.4-
1998 08 15	704	0.7-	0.9+	1998 08 19	046	0.7-	0.1+	1998 09 08	402	0.2-	0.5-
1998 08 15	704	0.5+	0.4-	1998 08 19	046	0.8-	0.4+	1998 09 09	360	0.1-	0.1+
1998 08 16	426	0.4+	0.9-	1998 08 20	659	(2.4+	1.2+)	1998 09 09	360	0.3-	0.0
1998 08 16	426	0.2+	0.0	1998 08 20	659	1.9+	0.2+	1998 09 09	360	0.0	0.1-
1998 08 16	426	0.4+	0.0	1998 08 20	659	0.9+	0.7+	1998 09 09	540	0.3-	0.0
1998 08 16	426	0.1+	0.1+	1998 08 20	659	1.8-	1.0-	1998 09 09	540	0.8+	0.0
1998 08 16	426	0.4+	0.3-	1998 08 20	659	0.0	0.2+	1998 09 09	540	0.2+	0.1+
1998 08 16	046	0.1-	0.6-	1998 08 20	659	0.2+	0.6+	1998 09 09	046	0.3-	0.1-
1998 08 16	046	0.3+	0.4-	1998 08 20	659	0.1+	0.5+	1998 09 09	046	0.1-	0.1-
1998 08 16	046	0.4+	0.2-	1998 08 20	659	1.1-	0.1-	1998 09 09	046	0.1+	0.0
1998 08 16	046	0.2+	0.4-	1998 08 20	587	1.7-	1.1-	1998 09 09	118	0.0	0.1+
1998 08 16	046	0.3+	0.4-	1998 08 20	587	0.9-	0.3+	1998 09 09	118	0.1-	0.2-
1998 08 16	540	0.0	0.4-	1998 08 20	587	0.3-	0.3-	1998 09 09	118	0.3-	0.1-
1998 08 16	540	0.2-	0.3-	1998 08 21	659	0.7+	0.2+	1998 09 15	699	0.9-	0.3+
1998 08 16	108	(3.3+	1.3+)	1998 08 21	659	1.4-	1.6-	1998 09 15	699	0.3-	0.2-

1998 08 16	540	0.5+	0.1+	1998 08 21	402	0.0	0.4-	1998 09 15	699	0.6-	0.5-
1998 08 16	108	1.6+	0.9-	1998 08 21	402	0.4-	0.5-	1998 09 17	360	0.0	0.2-
1998 08 16	106	0.2-	0.8-	1998 08 22	658	0.5-	0.3+	1998 09 17	360	0.2+	0.1-
1998 08 16	108	1.5+	0.0	1998 08 22	658	1.0-	0.1+	1998 09 17	360	0.1+	0.2-
1998 08 16	120	0.1+	0.1-	1998 08 22	658	0.6-	0.1+	1998 09 19	118	0.2-	0.8-
1998 08 16	120	1.1+	0.3+	1998 08 23	426	0.1+	0.4+	1998 09 19	118	0.1-	0.5-
1998 08 16	106	0.3+	0.4-	1998 08 23	426	0.7+	0.1+	1998 09 22	118	0.3+	0.1+
1998 08 16	106	0.1+	0.4-	1998 08 23	426	0.8+	0.3+	1998 09 22	557	0.1+	0.3+
1998 08 16	108	(2.8+	0.2+)	1998 08 23	952	0.9-	0.6+	1998 09 22	557	0.1-	0.1+
1998 08 16	106	0.1+	0.7-	1998 08 23	952	0.2-	0.6+	1998 09 22	118	0.1+	0.0
1998 08 16	108	1.4+	0.2-	1998 08 23	952	0.5-	0.5+	1998 09 23	118	1.0+	0.4-
1998 08 16	106	0.2+	0.4-	1998 08 23	952	0.4-	0.8+	1998 09 23	118	0.9+	0.4-
1998 08 16	120	0.8-	0.9-	1998 08 23	952	0.1+	0.4+	1998 09 24	118	0.7+	0.4-
1998 08 16	120	0.6+	0.3+	1998 08 23	952	0.2-	0.8+	1998 09 24	118	0.6+	0.3-
1998 08 16	120	0.4+	0.1+	1998 08 23	952	0.2-	0.6+	1998 09 25	747	0.8+	0.2-
1998 08 16	120	0.1+	0.8+	1998 08 24	422	0.2-	0.5+	1998 09 25	747	0.8-	0.1+
1998 08 16	557	0.2+	0.1+	1998 08 24	422	0.4-	0.5+	1998 09 25	747	0.0	0.1-
1998 08 16	557	0.4+	0.0	1998 08 24	422	0.5-	0.4+	1998 09 26	747	1.2+	0.1-
1998 08 16	557	0.0	0.6-	1998 08 24	143	1.8-	1.8+	1998 09 26	747	1.6+	0.3+
1998 08 16	557	0.3+	0.1-	1998 08 24	143	0.8-	0.8+	1998 09 27	747	0.4+	0.1-
1998 08 17	734	0.2-	0.4-	1998 08 24	143	0.2+	0.5+	1998 09 27	747	0.6+	0.0
1998 08 17	734	0.2-	0.3-	1998 08 24	557	0.1-	0.5+	1998 10 17	422	0.4-	0.6+
1998 08 17	734	0.4-	1.1-	1998 08 24	557	0.2-	0.5+	1998 10 17	422	0.9-	0.2-
1998 08 17	713	(1.4+	2.6+)	1998 08 24	557	0.0	0.5+	1998 10 17	422	0.6-	0.8-
1998 08 17	713	1.7+	1.0+	1998 08 24	952	0.1+	0.3+	1998 10 17	557	0.5-	0.1-
1998 08 17	713	0.4+	0.8+	1998 08 24	952	0.5+	1.2+	1998 10 17	557	0.2+	0.2-
1998 08 17	713	0.1+	0.3+	1998 08 25	360	0.3-	0.1-	1998 10 25	360	0.7+	0.3+
1998 08 17	713	0.8+	0.2+	1998 08 25	360	0.3-	0.0	1998 10 25	360	0.4+	0.6+
1998 08 17	426	0.7+	0.7+	1998 08 25	360	0.3-	0.2+	1998 10 25	360	0.7+	0.6+
1998 08 17	426	0.0	0.3-	1998 08 27	658	0.1-	0.1+	1998 10 27	658	0.1+	0.6+
1998 08 17	426	0.3-	0.1-	1998 08 27	658	0.6-	0.7+	1998 10 27	658	0.3-	0.6+
1998 08 17	426	0.1+	0.3+	1998 08 27	658	0.1+	0.6-	1998 10 27	658	0.9+	0.4+
1998 08 17	422	0.4-	0.5-	1998 08 29	426	0.5+	0.2+	1998 11 11	658	0.5-	0.3-
1998 08 17	422	0.4-	0.2-	1998 08 29	426	0.5-	0.0	1998 11 11	658	0.2-	0.7-
1998 08 17	422	0.3-	0.3-	1998 08 29	426	0.1+	0.0	1998 11 11	658	1.0-	0.8-
1998 08 17	422	0.4-	0.3-	1998 08 29	426	0.4+	0.2-	2000 02 28	693	0.1+	0.7+
1998 08 17	540	0.4+	0.2+	1998 08 29	108	0.2-	0.1+	2000 02 28	693	0.3+	0.4+
1998 08 17	540	0.1-	0.3+	1998 08 29	108	1.2+	0.2+	2000 02 28	693	0.1+	0.1+
1998 08 17	540	0.6+	0.7+	1998 08 29	108	2.0+	1.9-	2000 03 01	693	0.0	0.3+
1998 08 17	046	0.4-	0.0	1998 09 01	860	0.0	0.1-	2000 03 01	693	0.1-	0.3+
1998 08 17	046	0.4-	0.3-	1998 09 01	860	0.8+	1.2+	2000 03 01	693	0.0	0.3+
1998 08 17	046	0.4-	0.3-	1998 09 07	557	0.2-	0.3-				
1998 08 19	670	0.6-	0.7+	1998 09 07	557	0.2-	0.4-				

1998 QQ₁ = 2000 DJ₅₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	86.81923		(2000.0)	P	Q
n	0.26063000	ω	254.35365	+0.63402057	-0.77267854
a	2.4272794	Ω	156.21160	+0.73597846	+0.59044738
e	0.1906994	i	4.46439	+0.23738918	+0.23310892
P	3.78	H	14.6	G 0.15	U 3

1998 08 23	699	1.0+	0.7+	1998 09 21	699	0.6−	1.1+	2000 03 11	704	0.5−	0.1+
1998 08 23	704	1.3+	1.6−	1998 09 22	120	0.8+	0.9+	2000 03 11	704	0.4−	0.3−
1998 08 23	704	0.5+	0.2+	1998 09 22	120	0.5−	0.1+	2000 03 11	704	0.4+	0.2−
1998 08 23	699	0.2+	0.2+	1998 09 22	120	0.5−	0.4+	2000 03 11	699	1.3−	0.2+
1998 08 23	704	0.3−	0.1−	1998 11 17	910	0.2−	0.1−	2000 03 11	704	0.1−	0.0
1998 08 31	691	0.6+	0.3−	1998 11 17	910	0.0	0.1−	2000 03 11	704	0.3+	0.3−
1998 08 31	691	0.5+	0.3−	1998 11 17	910	0.2−	0.3+	2000 03 11	699	1.2−	0.5+
1998 08 31	691	0.6+	0.2−	1999 12 05	704	0.4+	0.3−	2000 03 11	699	0.4−	0.2+
1998 09 13	699	0.7−	0.8−	1999 12 05	704	0.3−	0.2+	2000 03 11	699	0.4−	0.4+

1998 QH₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	102.20130	(2000.0)		P		Q	
<i>n</i>	0.57868437	ω	13.88469	−0.97509649		+0.14552857	
<i>a</i>	1.4261818	Ω	168.96998	−0.01781332		−0.80355689	
<i>e</i>	0.3623722	<i>i</i>	61.01338	+0.22106451		+0.57716355	
<i>P</i>	1.70	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 06 23	675	0.3+	0.8−	1998 08 24	658	0.4−	0.4−	1998 09 14	704	(3.3−	2.2+)
1996 06 23	675	0.5−	0.7+	1998 08 24	658	0.0	0.6−	1998 09 14	704	0.3+	0.7+
1998 08 20	699	0.9+	0.7+	1998 08 25	360	0.1+	0.1+	1998 09 17	360	0.6−	0.2−
1998 08 20	699	0.0	0.9+	1998 08 25	360	0.0	0.2−	1998 09 17	360	0.6−	0.2+
1998 08 20	699	1.2+	0.9+	1998 08 25	360	0.1+	0.1−	1998 09 17	360	0.4−	0.1+
1998 08 22	734	1.4+	0.9−	1998 08 26	557	0.1−	0.0	1998 09 18	704	(4.0−	0.8+)
1998 08 22	734	1.6+	0.6−	1998 08 26	557	0.1−	0.4+	1998 09 18	704	1.7−	0.2+
1998 08 22	734	1.2+	0.6+	1998 08 26	658	1.0−	0.2−	1998 09 18	704	0.0	0.7+
1998 08 22	734	(1.2+	2.3−)	1998 08 26	658	1.0−	0.0	1998 09 18	704	0.2−	0.7+
1998 08 22	402	0.4+	0.4−	1998 08 26	658	0.7−	0.2+	1998 09 18	704	0.3−	0.5+
1998 08 22	402	0.1−	0.1+	1998 08 27	658	0.7−	0.2−	1998 09 23	046	0.5+	0.4−
1998 08 22	402	0.6+	0.6+	1998 08 27	658	0.7−	0.3−	1998 09 23	046	0.6+	0.2+
1998 08 22	402	1.1+	0.1−	1998 08 27	658	0.5−	0.2−	1998 09 23	046	0.5+	0.0
1998 08 23	108	0.9+	1.3+	1998 08 29	734	1.2−	0.7−	1998 09 25	704	0.7+	0.0
1998 08 23	108	1.4−	0.5−	1998 08 29	734	(0.6+	3.2−)	1998 09 25	704	0.9+	0.2+
1998 08 23	108	(3.1−	2.3−)	1998 08 29	734	0.1+	0.6−	1998 09 25	704	1.5+	0.5−
1998 08 23	734	0.1−	0.9+	1998 08 31	046	0.0	0.8−	1998 09 25	704	0.8+	0.3−
1998 08 23	734	(0.1−	3.7+)	1998 08 31	046	0.0	0.4−	1998 09 25	704	1.8+	1.2−
1998 08 23	734	1.1−	0.2−	1998 08 31	046	0.1+	0.5−	1998 09 25	071	(2.2+	0.5−)
1998 08 23	711	0.3+	0.5+	1998 09 02	402	0.3+	0.9−	1998 09 25	071	0.5+	0.1−
1998 08 23	704	1.7−	1.2−	1998 09 02	402	0.0	0.8−	1998 09 25	071	0.5+	0.2+
1998 08 23	704	1.0−	1.6−	1998 09 02	402	0.0	1.0−	1998 09 25	071	1.8+	0.4+
1998 08 23	711	0.1−	0.0	1998 09 04	402	0.0	0.5−	1998 09 25	071	(2.6+	2.0−)
1998 08 23	711	0.4−	0.1−	1998 09 04	402	0.1−	0.1−	1998 09 25	071	0.2+	0.2−
1998 08 23	704	1.6+	1.2+	1998 09 04	402	0.7−	0.3−	1998 09 25	071	0.4−	0.6−
1998 08 23	704	1.8+	2.0+	1998 09 09	402	0.0	0.0	1998 09 27	422	1.1−	1.9+
1998 08 23	704	(1.5+	2.4+)	1998 09 09	402	0.0	0.5−	1998 09 27	422	(0.3−	2.3+)
1998 08 23	704	0.5+	0.5+	1998 09 09	402	0.5−	0.0	1998 09 27	422	0.7−	1.5+
1998 08 23	704	(1.1+	2.6+)	1998 09 12	402	0.6−	0.5+	1998 10 13	422	0.5−	0.8−
1998 08 23	704	(2.2−	2.3+)	1998 09 12	402	0.6−	0.2+	1998 10 13	422	0.6−	0.5−
1998 08 23	704	0.9−	0.1−	1998 09 12	402	0.5−	0.3+	1998 10 13	422	1.0−	0.6−
1998 08 23	704	0.2+	0.9+	1998 09 14	704	0.2+	0.1+				
1998 08 24	658	0.2+	0.8−	1998 09 14	704	0.4−	0.7+				

1998 QK₄

Id. F. B. Zoltowski (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	129.38817	(2000.0)		P		Q	
<i>n</i>	0.29195437	ω	287.39924	+0.98761411		−0.04964827	
<i>a</i>	2.2503983	Ω	75.64390	+0.10960167		+0.89710594	
<i>e</i>	0.1919449	<i>i</i>	8.83780	−0.11227576		+0.43901706	
<i>P</i>	3.38	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	426	0.4−	0.5−	1998 08 28	426	0.0	0.5+	1998 09 16	426	0.1−	0.1+
1998 08 17	426	0.2−	0.2+	1998 08 28	426	0.1+	0.0	2000 02 12	858	0.2+	0.4−
1998 08 17	426	0.1+	0.2+	1998 08 29	426	0.1−	0.9+	2000 02 12	858	0.3−	0.6+

1998 08 22	426	0.2−	0.3−	1998 08 29	426	0.0	0.5−	2000 02 12	858	0.4+	0.4−
1998 08 22	426	0.1+	0.2−	1998 09 16	426	0.1−	0.2−	2000 02 27	858	0.1+	0.1−
1998 08 22	426	0.8+	0.1−	1998 09 16	426	0.1−	0.2−	2000 02 27	858	0.4−	0.2+

1998 QO₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Gnädig			
<i>M</i>	92.06266	(2000.0)		P		Q	
<i>n</i>	0.24114220	ω	53.73692	+0.19876387		−0.97918539	
<i>a</i>	2.5563515	Ω	24.89317	+0.86495667		+0.15555163	
<i>e</i>	0.2102648	<i>i</i>	5.60285	+0.46080678		+0.13038276	
<i>P</i>	4.09	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1976 05 27	413	0.7−	0.6+	1998 08 25	910	1.6−	0.1+	1998 11 11	704	0.3+	0.7−
1976 05 27	413	0.5+	0.9−	1998 08 25	910	1.2−	0.3+	1998 11 11	704	0.8+	0.6−
1977 07 17	413	0.8−	0.6−	1998 08 25	910	0.9−	0.1+	1998 11 11	704	1.1−	0.2−
1977 07 17	413	1.6+	0.4−	1998 10 18	699	0.6+	0.2+	1998 11 15	699	0.3−	1.6+
1990 10 16	675	0.5+	0.4+	1998 10 18	699	0.5+	1.0+	1998 11 15	699	0.1+	0.3−
1990 10 16	675	0.6−	0.2−	1998 10 18	699	0.6+	0.6+	1998 11 15	699	0.0	0.8+
1994 10 11	675	0.1−	0.7−	1998 11 10	704	0.4+	0.2+	1999 01 08	704	0.9−	1.3+
1994 10 11	675	0.0	0.7−	1998 11 10	704	1.4+	2.0+	1999 01 08	704	0.8+	1.2−
1998 08 24	910	1.3−	0.1−	1998 11 10	704	0.5+	1.2−	1999 01 08	704	1.8−	0.2+
1998 08 24	910	1.1−	0.1−	1998 11 10	704	1.8+	1.8−	1999 01 08	704	0.7−	2.0−
1998 08 24	910	0.9−	0.1+	1998 11 11	704	0.5+	0.1+				

1998 QD₁₂ = 2000 DA₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	124.12578	(2000.0)		P		Q	
<i>n</i>	0.28668722	ω	194.59277	+0.97169882		−0.23621615	
<i>a</i>	2.2778782	Ω	179.06471	+0.22638889		+0.92901193	
<i>e</i>	0.1816700	<i>i</i>	6.41925	+0.06744974		+0.28484869	
<i>P</i>	3.44	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 08 17	704	0.6+	1.5+	1998 08 23	704	0.8+	0.2+	2000 02 29	704	0.3−	0.4−
1998 08 17	704	0.6+	1.3−	1998 08 23	699	0.3+	0.1−	2000 03 03	704	1.1+	1.2−
1998 08 17	704	1.3+	0.4−	1998 08 23	704	0.6+	0.8+	2000 03 03	704	0.0	0.0
1998 08 17	704	(4.1−	0.2+)	1998 08 28	699	0.2−	0.1+	2000 03 03	704	0.1−	0.3+
1998 08 23	699	0.4+	1.0+	1998 08 28	699	1.6+	0.6−	2000 03 03	704	0.1+	0.1+
1998 08 23	704	0.2+	1.5−	1998 08 28	699	0.1+	0.8+	2000 03 03	704	0.2−	0.6+
1998 08 23	704	0.4+	0.4+	2000 02 29	704	0.9+	0.0				
1998 08 23	699	1.6+	1.3+	2000 02 29	704	0.6+	0.3+				

1998 QU₁₂ = 2000 DK₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	147.21821	(2000.0)		P		Q	
<i>n</i>	0.29832362	ω	168.42639	+0.99112370		+0.13287046	
<i>a</i>	2.2182524	Ω	183.94605	−0.12649585		+0.93238991	
<i>e</i>	0.2035178	<i>i</i>	3.65632	−0.04089766		+0.33614654	
<i>P</i>	3.30	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 07 26	699	0.2−	0.1+	1998 08 30	699	0.4+	0.3+	2000 02 29	704	0.3−	0.4+
1998 07 26	699	0.0	0.0	1998 08 30	699	0.5+	0.6+	2000 02 29	704	0.5+	0.1−
1998 07 26	699	0.2−	0.2+	1998 11 09	910	0.4−	0.1−	2000 02 29	704	0.3−	0.7+
1998 08 17	704	1.1+	0.1+	1998 11 09	910	0.3−	0.1+	2000 03 03	704	(2.5+	1.4+)
1998 08 17	704	0.0	0.2+	1998 11 09	910	0.4−	0.1−	2000 03 03	704	0.6+	0.4−
1998 08 17	704	0.2+	0.2+	1998 11 11	910	0.3−	0.1+	2000 03 03	704	0.0	0.2−
1998 08 17	704	0.2−	0.3+	1998 11 11	910	0.0	0.4+	2000 03 03	704	0.9+	0.5+
1998 08 17	704	0.4−	0.2+	1998 11 11	910	0.1+	0.2+	2000 03 11	704	0.4−	0.6+
1998 08 23	704	0.1−	0.2+	2000 02 02	704	0.5+	0.7+	2000 03 11	704	0.1+	1.0+
1998 08 23	704	0.2−	0.5+	2000 02 02	704	0.1+	1.0+	2000 03 11	704	0.8−	0.7+
1998 08 23	704	0.9−	1.3+	2000 02 02	704	0.8+	0.9+	2000 03 11	704	0.3−	0.4+
1998 08 23	704	0.9−	0.5+	2000 02 02	704	0.9+	0.8+	2000 03 11	704	0.5+	0.2+

2000 MAR. 20

M.P.C. 39201

1998 08 23 704 0.4− 0.1+ 2000 02 29 704 0.1+ 0.5+
 1998 08 30 699 0.5+ 0.5+ 2000 02 29 704 0.3− 0.4+

1998 QX₁₅ = 2000 AO₁₁₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	84.09536		(2000.0)	P	Q
<i>n</i>	0.22847590	ω	109.26612	+0.93767973	−0.29878293
<i>a</i>	2.6499791	Ω	268.43315	+0.21265557	+0.89721967
<i>e</i>	0.2145163	<i>i</i>	10.22463	+0.27483508	+0.32515476
<i>P</i>	4.31	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 08 17	621	0.0	0.2−	2000 01 05	704	0.5−	0.1−	2000 01 07	704	0.6+	0.3+
1998 08 17	621	0.0	0.2−	2000 01 05	704	1.1+	0.2+	2000 02 02	704	0.8−	0.2−
1998 08 17	621	0.1+	0.2−	2000 01 05	704	0.2−	0.9+	2000 02 02	704	0.6+	0.1−
1998 08 18	621	0.3−	0.2+	2000 01 05	704	0.5−	0.4−	2000 02 02	704	0.8−	0.0
1998 08 18	621	0.1−	0.1+	2000 01 05	704	0.3−	1.1+	2000 02 02	704	0.1+	0.0
1998 08 18	621	0.0	0.1+	2000 01 07	704	0.9+	1.2−	2000 02 26	621	0.1+	0.4−
1998 08 19	621	0.3+	0.0	2000 01 07	704	0.0	0.3+	2000 02 26	621	0.1+	0.2−
1998 08 19	621	0.0	0.2+	2000 01 07	704	0.2−	0.2−	2000 02 26	621	0.1+	0.3+
1998 08 19	621	0.1−	0.2+	2000 01 07	704	0.4−	0.7−	2000 02 26	621	0.3+	0.7+

1998 QN₁₆ = 2000 DD₅₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	125.05883		(2000.0)	P	Q
<i>n</i>	0.28145289	ω	211.27974	+0.95141528	−0.30657240
<i>a</i>	2.3060333	Ω	166.48223	+0.30172896	+0.90969469
<i>e</i>	0.2434928	<i>i</i>	7.04682	+0.06138883	+0.28012308
<i>P</i>	3.50	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 17	704	0.2+	0.9−	1998 09 21	699	0.5+	0.5+	2000 03 03	704	0.1+	0.7−
1998 08 17	704	0.0	0.9−	1998 09 21	699	0.2+	0.2−	2000 03 03	704	1.0+	0.5−
1998 08 17	704	0.0	0.5−	1998 09 21	699	0.0	0.3+	2000 03 08	691	0.0	0.0
1998 08 17	704	0.0	0.5+	1998 10 12	910	0.1−	0.5+	2000 03 08	691	0.1+	0.1−
1998 08 17	704	(1.2−	3.0−)	1998 10 12	910	0.5−	0.0	2000 03 08	691	0.3−	0.1−
1998 08 23	699	0.4−	0.2+	1998 10 12	910	0.1+	0.5+	2000 03 09	691	0.2−	0.3−
1998 08 23	699	0.1−	0.3+	2000 02 25	691	0.2−	0.2−	2000 03 09	691	0.2+	0.3−
1998 08 23	699	0.7+	0.2+	2000 02 25	691	0.1−	0.0	2000 03 09	691	0.0	0.3−
1998 08 23	704	0.3+	0.8−	2000 02 25	691	0.1+	0.2−	2000 03 10	704	0.4+	0.0
1998 08 23	704	0.1−	0.2−	2000 02 27	691	0.6−	0.3−	2000 03 10	704	0.2+	0.2+
1998 08 23	704	1.4−	1.2+	2000 02 27	691	0.4−	0.1−	2000 03 10	704	0.1−	0.3+
1998 08 23	704	0.3−	0.3+	2000 02 27	691	0.5−	0.2−	2000 03 10	704	0.4−	0.2+
1998 08 23	704	1.1−	0.2−	2000 02 29	704	0.7+	0.2+	2000 03 10	704	0.6+	1.3+
1998 08 30	699	0.0	0.1+	2000 02 29	704	0.5+	0.3−	2000 03 11	704	0.5−	0.2−
1998 08 30	699	0.1−	0.4+	2000 02 29	704	0.6+	0.6+	2000 03 11	704	0.4−	0.1+
1998 08 30	699	0.0	0.2+	2000 02 29	704	0.0	0.5+	2000 03 11	704	0.9−	0.2+
1998 09 13	699	0.9+	0.8−	2000 03 03	704	0.4+	0.9+	2000 03 11	704	0.3+	1.0+
1998 09 13	699	0.5+	1.3+	2000 03 03	704	0.4−	0.3+	2000 03 11	704	0.7+	0.8+
1998 09 13	699	0.4+	0.3+	2000 03 03	704	0.1−	0.2+				

1998 QJ₁₈ = 2000 DF₉₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	96.59510		(2000.0)	P	Q
<i>n</i>	0.22521587	ω	229.29107	+0.94566621	−0.29737149
<i>a</i>	2.6754903	Ω	147.37280	+0.31893935	+0.92700095
<i>e</i>	0.2703507	<i>i</i>	14.11366	−0.06319101	+0.22855949
<i>P</i>	4.38	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 08 17	704	0.2+	0.1+	1998 09 14	704	1.2+	1.4−	2000 02 29	704	0.0	0.5+
1998 08 17	704	0.3−	0.4+	1998 09 14	704	0.7+	0.2+	2000 03 03	691	0.0	0.9−
1998 08 17	704	0.3−	0.2+	1998 09 18	704	0.1−	0.7+	2000 03 03	691	0.4−	0.4−
1998 08 17	704	0.2+	0.7−	1998 09 18	704	1.0−	0.5−	2000 03 03	691	0.3−	0.4−

1998 08 17	704	1.2−	0.6−	1998 09 18	704	1.7+	1.0+	2000 03 05	704	0.1−	0.5−
1998 08 19	566	0.3−	0.1+	1998 09 18	704	0.7+	0.1−	2000 03 05	704	0.1+	1.0−
1998 08 19	566	0.3−	0.1+	1998 09 24	699	0.4−	0.1+	2000 03 05	704	0.0	0.0
1998 08 19	566	0.7−	0.3−	1998 09 24	699	0.8−	0.1+	2000 03 09	691	0.4+	0.0
1998 08 23	704	0.1−	0.2−	1998 09 24	699	0.3−	0.6+	2000 03 09	691	0.3+	0.2+
1998 08 23	704	0.1+	0.7+	2000 02 04	704	0.1+	0.1+	2000 03 09	691	0.6+	0.3+
1998 08 23	704	(2.6−	3.2+)	2000 02 04	704	0.1+	0.1+	2000 03 09	704	0.4+	0.1+
1998 08 23	704	0.3+	0.3+	2000 02 04	704	1.2−	1.7−	2000 03 09	704	0.3+	1.0+
1998 09 14	704	0.8+	0.7−	2000 02 29	704	0.4+	0.2−	2000 03 09	704	0.9−	1.0+
1998 09 14	704	0.0	0.0	2000 02 29	704	0.5+	0.8+	2000 03 09	704	0.1−	1.0+
1998 09 14	704	0.2−	0.2+	2000 02 29	704	0.1−	0.9+	2000 03 09	704	0.1+	0.7−

1998 QA₂₀ = 2000 CM₃₅

Id. M. E. Sansaturio, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	90.28262		(2000.0)	P	Q
<i>n</i>	0.22619851	ω	79.77625	+0.89255919	−0.42084550
<i>a</i>	2.6677363	Ω	304.93076	+0.29597324	+0.81770928
<i>e</i>	0.2191553	<i>i</i>	11.39285	+0.34020278	+0.39273476
<i>P</i>	4.36	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 08 17	704	0.9−	0.9+	1999 12 07	704	0.0	0.4−	2000 02 06	704	0.2−	0.2+
1998 08 17	704	0.6+	1.0+	1999 12 07	704	0.8+	0.9−	2000 02 06	704	0.8+	0.7−
1998 08 17	704	0.9−	0.5+	1999 12 07	704	1.3+	0.6−	2000 02 06	704	0.1−	0.4−
1998 08 17	704	1.3−	0.7+	1999 12 07	704	(0.9+	2.4−)	2000 02 08	704	0.5−	0.5+
1998 08 17	704	0.6−	1.3+	2000 01 04	704	0.6+	0.3−	2000 02 08	704	0.0	0.2+
1998 08 23	704	0.0	0.2+	2000 01 04	704	0.2+	0.3+	2000 02 08	704	0.1−	0.3+
1998 08 23	704	0.0	0.7−	2000 01 04	704	0.3+	0.9−	2000 02 08	704	0.2−	0.3+
1998 08 23	704	0.1−	0.2+	2000 01 04	704	0.0	0.3−	2000 02 08	704	0.4−	0.2−
1998 08 23	704	0.2+	1.6+	2000 01 04	704	(2.5+	1.1+)	2000 02 08	704	0.4−	0.5+
1998 08 23	704	(0.2−	2.1+)	2000 01 30	703	0.2−	0.2−	2000 02 08	704	0.4+	0.5−
1998 08 27	327	0.1−	0.3−	2000 01 30	703	0.6−	0.5−	2000 02 08	704	0.2−	0.4+
1998 08 27	327	0.0	0.3−	2000 01 30	703	0.0	0.6+	2000 02 08	704	0.6−	0.1−
1998 08 27	327	0.1−	0.3−	2000 01 30	703	0.8−	0.5+	2000 02 08	704	0.0	0.8+
1998 08 30	327	0.0	0.0	2000 01 30	703	0.6+	0.3+	2000 02 10	704	0.1−	0.2+
1998 08 30	327	0.1+	0.1−	2000 01 30	703	1.3+	0.2−	2000 02 10	704	0.1+	0.2+
1998 08 30	327	0.0	0.1−	2000 01 30	703	0.4−	0.6−	2000 02 10	704	(2.0−	0.4+)
1998 08 31	327	0.1+	0.2−	2000 01 30	703	0.1−	0.1+	2000 02 10	704	0.2−	0.6+
1998 08 31	327	0.6+	0.0	2000 02 02	704	0.3−	0.4+	2000 02 10	704	0.3+	0.5+
1998 08 31	327	0.3−	0.2−	2000 02 02	704	0.5−	0.1+	2000 02 11	704	0.2+	1.1+
1998 08 31	327	0.1+	0.1−	2000 02 02	704	0.4−	0.5+	2000 02 11	704	0.4−	0.6+
1998 08 31	327	0.2+	0.1−	2000 02 02	704	0.5−	0.2+	2000 02 11	704	0.0	0.5+
1998 08 31	327	0.4+	0.3−	2000 02 02	704	0.5−	0.7+	2000 02 11	704	0.4−	0.2+
1998 12 09	704	(2.7−	0.1+)	2000 02 05	704	0.0	0.2−	2000 02 11	704	0.3−	0.6+
1998 12 09	704	0.9+	0.1−	2000 02 05	704	0.2+	0.5+	2000 02 27	703	0.2+	0.3−
1998 12 09	704	1.0+	0.4−	2000 02 05	704	0.2−	1.0+	2000 02 27	703	0.6+	0.6−
1998 12 09	704	0.5−	0.6−	2000 02 06	704	0.7+	0.1−	2000 02 27	703	0.6−	0.2−
1998 12 09	704	0.4−	0.9−	2000 02 06	704	0.2−	0.0	2000 02 27	703	0.7−	0.4+
1999 11 16	704	0.0	0.4−	2000 02 06	704	0.1−	0.3−	2000 03 05	704	0.3−	1.7−
1999 11 16	704	0.3+	0.8+	2000 02 06	704	0.3+	0.0	2000 03 05	704	1.0+	0.2+
1999 11 16	704	1.2−	0.5+	2000 02 06	704	0.3+	0.6−	2000 03 05	704	1.7+	1.4−
1999 11 16	704	0.3−	0.3+	2000 02 06	704	0.0	0.1+	2000 03 05	704	0.9+	0.1+
1999 12 07	704	0.9+	0.2−	2000 02 06	704	0.5+	0.1+				

1998 QC₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	113.88696

1984 01 24	413	1.8−	0.3−	1998 08 23	704	0.3−	0.2−	1998 09 14	704	0.3+	0.6−
1984 01 24	413	1.7+	0.1−	1998 08 26	699	0.3−	1.1+	1998 09 14	704	0.2+	0.2+
1987 09 15	413	0.0	3.6−	1998 08 26	699	0.0	0.9+	1998 09 14	704	0.2+	0.5−
1988 10 08	675	0.3−	0.4−	1998 08 26	699	0.4−	0.6+	1998 09 14	704	0.6+	0.6−
1988 10 08	675	0.5+	0.2−	1998 08 26	327	0.2−	0.1−	1998 09 18	704	1.3+	0.1+
1998 08 02	699	1.7+	0.7+	1998 08 26	327	0.6−	0.2−	1998 09 18	704	0.2−	0.4−
1998 08 02	699	1.2+	0.8+	1998 08 26	327	0.0	0.2+	1998 09 18	704	0.1−	0.8−
1998 08 02	699	1.0+	1.3+	1998 08 26	327	0.6−	0.1−	1998 09 18	704	0.9+	0.2−
1998 08 17	704	0.4−	0.5+	1998 08 26	327	0.1−	0.1+	1998 09 18	704	0.0	0.6+
1998 08 17	704	0.3−	0.1−	1998 08 26	327	0.4−	0.2−	1998 09 22	910	0.8+	1.1+
1998 08 17	704	0.9−	0.7−	1998 08 27	327	0.3−	0.3−	1998 09 22	910	0.7+	1.0+
1998 08 17	704	0.7−	0.7+	1998 08 27	327	0.1−	0.2−	1998 09 22	910	0.7+	1.1+
1998 08 17	704	0.2−	0.2+	1998 08 27	327	0.3−	0.2−	1998 10 12	699	0.2+	0.9+
1998 08 21	566	0.3+	1.1−	1998 08 30	327	0.5−	0.1−	1998 10 12	699	0.1−	0.9+
1998 08 21	566	0.2+	1.4−	1998 08 30	327	0.2−	0.0	1998 10 12	699	0.0	0.6+
1998 08 21	566	0.1−	1.6−	1998 08 30	327	0.3−	0.0	1998 12 08	704	(1.1−	3.2+)
1998 08 23	704	0.8−	0.1+	1998 08 31	327	0.2−	0.2−	1998 12 08	704	1.4−	0.4+
1998 08 23	704	0.5+	0.3−	1998 08 31	327	0.0	0.1+	1998 12 08	704	(1.8−	2.7+)

1998 QP₂₀ = 2000 DN₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	61.65718	(2000.0)		P	Q		
<i>n</i>	0.21754695	ω	117.69787	+0.43286382	−0.89949745		
<i>a</i>	2.7380038	Ω	306.52873	+0.79883411	+0.41330541		
<i>e</i>	0.2948088	<i>i</i>	4.24218	+0.41772357	+0.14171440		
<i>P</i>	4.53	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	1.3+	0.5−	1998 09 18	704	1.1−	1.4+	2000 02 29	704	0.6−	0.5−
1998 08 17	704	(0.1−	2.9−)	1998 09 18	704	1.6−	0.4+	2000 02 29	704	0.2−	0.9−
1998 08 17	704	0.1+	1.0+	1998 09 18	704	0.2−	0.5+	2000 03 03	704	0.6+	0.1−
1998 08 17	704	0.2+	0.3+	1998 09 18	704	(2.2−	0.1+)	2000 03 03	704	0.4+	1.4+
1998 08 17	704	0.2−	0.4−	1998 09 22	910	0.4+	0.1−	2000 03 03	704	0.5+	0.3+
1998 08 23	704	0.0	0.1+	1998 09 22	910	0.3+	0.1−	2000 03 03	704	0.5+	0.1−
1998 08 23	704	1.5+	0.5−	1998 09 22	910	0.2+	0.1−	2000 03 03	704	0.4+	0.1+
1998 08 23	704	1.3−	1.7+	2000 02 02	704	0.6−	0.9+	2000 03 11	699	0.6+	0.4−
1998 08 23	704	0.1−	0.2+	2000 02 02	704	1.1−	0.8+	2000 03 11	699	0.1−	0.2−
1998 09 14	704	0.9+	1.3−	2000 02 02	704	0.1−	0.3+	2000 03 11	699	0.3+	0.1+
1998 09 14	704	1.0−	1.2−	2000 02 29	704	0.4+	0.0	2000 03 11	699	0.3−	0.1−
1998 09 14	704	1.2+	1.3−	2000 02 29	704	0.1−	0.6−				
1998 09 14	704	0.8−	0.7+	2000 02 29	704	0.3−	0.3−				

1998 QR₂₁ = 2000 EG₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	87.73142	(2000.0)		P	Q		
<i>n</i>	0.30542463	ω	97.49286	+0.40035018	−0.91491485		
<i>a</i>	2.1837354	Ω	328.74822	+0.79674916	+0.37529590		
<i>e</i>	0.1212529	<i>i</i>	5.69516	+0.45267042	+0.14860620		
<i>P</i>	3.23	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.3+	0.3−	1998 09 14	704	0.6−	1.0+	2000 02 27	703	0.2+	0.1+
1998 08 17	704	0.9−	1.1−	1998 09 14	704	0.6+	0.2+	2000 02 27	703	0.1+	0.0
1998 08 17	704	1.1+	0.2+	1998 09 14	704	1.8+	0.3+	2000 03 08	704	0.6+	1.0+
1998 08 17	704	0.5+	0.4+	1998 09 18	704	0.8−	1.0+	2000 03 08	704	1.2−	0.9+
1998 08 17	704	0.3+	0.5−	1998 09 18	704	1.5+	0.4−	2000 03 08	704	0.4+	0.2+
1998 08 23	699	0.1+	0.3+	1998 09 18	704	0.7−	0.9−	2000 03 08	704	0.5+	0.8+
1998 08 23	704	0.5+	0.3−	1998 09 18	704	0.7−	1.0−	2000 03 08	704	0.7+	0.9+
1998 08 23	704	0.4−	1.2+	1998 09 18	704	1.0−	0.2−	2000 03 13	704	0.8+	0.4−
1998 08 23	699	0.7+	0.0	2000 02 08	704	(0.4+	2.7−)	2000 03 13	704	0.2−	0.1−
1998 08 23	704	1.5−	1.2−	2000 02 08	704	0.1−	1.0−	2000 03 13	704	0.6+	0.3−
1998 08 23	704	0.7−	0.8+	2000 02 08	704	0.8+	0.2+	2000 03 13	704	0.1−	1.1+
1998 08 23	699	0.5+	0.1−	2000 02 08	704	1.2−	0.1−	2000 03 14	608	0.3+	0.7−
1998 08 23	704	0.6+	0.6+	2000 02 27	703	0.1+	0.2+	2000 03 14	608	0.3−	1.4−
1998 09 14	704	1.4−	0.1+	2000 02 27	703	1.4−	0.3+	2000 03 14	608	0.5−	1.6−

1998 QX₂₂ = 2000 AN₁₈₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	27.94804	(2000.0)		P	Q		
<i>n</i>	0.18030581	ω	280.24272	+0.52782201	−0.82628598		
<i>a</i>	3.1031033	Ω	135.99352	+0.84696523	+0.49468890		
<i>e</i>	0.1279404	<i>i</i>	16.43920	+0.06366960	+0.26932207		
<i>P</i>	5.47	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 17	704	0.1−	0.2−	1998 08 27	699	0.3−	1.3+	2000 01 08	704	0.2+	0.0
1998 08 17	704	0.4+	2.0−	1999 12 03	704	0.7−	0.1−	2000 01 11	704	0.1−	0.1+
1998 08 17	704	1.0+	0.3+	1999 12 03	704	0.2+	0.1+	2000 01 11	704	0.7−	0.2−
1998 08 17	704	1.7+	0.2+	1999 12 03	704	0.6−	0.5−	2000 01 11	704	0.2−	0.2−
1998 08 17	704	0.1−	0.5−	1999 12 03	704	0.5−	0.0	2000 01 11	704	0.1−	0.8−
1998 08 23	704	0.2−	1.3−	1999 12 03	704	0.0	0.7+	2000 01 11	704	0.1+	0.4−
1998 08 23	704	0.7−	0.3+	1999 12 08	699	0.8+	2.0+	2000 02 06	704	0.4+	0.1−
1998 08 23	704	1.4−	0.3+	1999 12 08	699	(0.3−	2.8+)	2000 02 06	704	0.4−	0.5−
1998 08 23	704	0.1−	0.4+	1999 12 08	699	0.8+	0.1−	2000 02 06	704	0.6−	0.3+
1998 08 27	699	0.1−	0.5+	2000 01 08	704	0.1−	0.9−	2000 02 06	704	0.3+	0.3+
1998 08 27	699	0.2−	0.4+	2000 01 08	704	0.9+	0.8−	2000 02 06	704	0.5+	1.0+

1998 QM₂₆

Id. F. B. Zoltowski (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	102.55345	(2000.0)		P	Q		
<i>n</i>	0.26321200	ω	241.41952	+0.90213594	−0.43050209		
<i>a</i>	2.4113797	Ω	144.05872	+0.41092411	+0.83710972		
<i>e</i>	0.1815995	<i>i</i>	2.79416	+0.13149950	+0.33751337		
<i>P</i>	3.74	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 07 26	809	(0.7−	3.7−)	1998 09 10	426	0.1−	0.0	2000 02 28	858	0.1−	0.0
1998 07 26	809	(1.2−	4.3−)	1998 09 10	426	0.5−	0.5−	2000 02 28	858	0.0	0.2−
1998 07 26	809	(1.0−	5.0−)	1998 09 11	426	0.3+	0.3−	2000 02 28	858	0.2+	0.5−
1998 08 17	704	0.9+	1.1+	1998 09 11	426	0.2−	0.2−	2000 02 29	704	0.6+	0.1+
1998 08 17	704	0.1+	1.7−	1998 10 09	426	0.7−	0.4−	2000 02 29	704	0.0	0.1−
1998 08 17	704	1.0+	0.7+	1998 10 13	426	0.8+	0.5−	2000 02 29	704	0.9+	0.1−
1998 08 17	704	0.4+	0.4−	1998 10 13	426	0.0	0.5+	2000 03 03	704	0.8−	0.2−
1998 08 17	704	0.1−	0.8+	2000 02 11	704	0.3+	1.9+	2000 03 03	704	0.4+	0.8+
1998 08 23	699	0.2+	1.0+	2000 02 11	704	0.1−	1.1+	2000 03 03	704	0.1+	0.3−
1998 08 23	699	0.5−	0.5+	2000 02 11	704	0.2+	0.2−	2000 03 03	704	0.5−	0.5−
1998 08 23	699	(2.4+	1.2−)	2000 02 27	858	0.5−	0.4−	2000 03 09	691	0.4−	0.1−
1998 08 25	426	0.0	0.3+	2000 02 27	858	0.0	0.1−	2000 03 09	691	0.4−	0.1−
1998 08 25	426	0.7−	0.0	2000 02 27	691	0.3−	0.1+	2000 03 09	691	0.5−	0.2−
1998 08 25	426	0.5−	0.1+	2000 02 27	858	1.0+	0.6−	2000 03 14	691	0.2+	0.1−
1998 08 26	426	0.2−	0.3−	2000 02 27	691	0.3−	0.3+	2000 03 14	691	0.4+	0.4−
1998 08 26	426	0.2−	0.3−	2000 02 27	691	0.4−	0.1+	2000 03 14	691	0.1+	0.1+

1998 QE₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	134.05145		(2000.0)		P	Q
n	0.22214892	ω	95.01995		+0.86580672	-0.46396676
a	2.7000590	Ω	292.73235		+0.33935382	+0.81966178
e	0.1892012	i	11.72229		+0.36771962	+0.33599020
P	4.44	H	13.4	G	0.15	U 2

2000 MAR. 20

M.P.C. 39203

1989 10 04	675	0.6+	0.2+	1998 11 16	704	0.2-	0.5+	1999 01 12	837	0.6-	0.5+
1996 03 26	413	1.2-	0.1-	1998 11 16	704	0.5+	0.7+	1999 01 13	837	0.5+	0.5-
1996 03 26	413	0.8+	0.7-	1998 11 29	292	1.3-	1.1-	1999 01 13	837	1.2+	0.0
1998 08 26	557	0.3+	0.1+	1998 11 29	292	1.4-	1.5-	2000 02 04	557	0.2+	0.2-
1998 08 26	557	0.2+	0.2+	1998 11 29	292	0.8-	0.6-	2000 02 04	557	0.0	0.8+
1998 08 27	557	0.0	0.4-	1998 12 08	557	0.3+	0.4+	2000 02 26	557	0.4-	0.6-
1998 08 27	557	0.0	0.4-	1998 12 08	557	0.4+	0.2+	2000 02 26	557	0.2+	0.5+
1998 08 27	557	0.1+	0.4-	1998 12 14	704	1.3+	0.5+	2000 02 26	557	0.1-	1.7+
1998 08 28	557	0.2-	0.3-	1998 12 14	704	1.6+	0.4-	2000 02 28	557	0.8-	0.2+
1998 08 31	557	0.1+	0.7-	1998 12 14	704	0.1+	0.3-	2000 02 28	557	0.5-	0.2+
1998 09 01	557	0.0	0.2-	1998 12 14	704	0.6+	0.3-	2000 03 09	704	0.9+	1.3-
1998 09 01	557	0.3+	0.3-	1998 12 17	704	0.1+	0.2+	2000 03 09	704	0.4-	0.3-
1998 09 14	557	0.2+	0.2-	1998 12 17	704	1.6+	0.4+	2000 03 09	704	0.6-	0.6-
1998 09 14	557	0.5-	0.1+	1998 12 17	704	1.0+	0.6-	2000 03 09	704	0.2+	0.1-
1998 09 14	557	0.1-	0.3+	1998 12 17	704	0.4+	0.1+	2000 03 13	704	0.6+	0.9+
1998 09 23	557	0.5-	0.1+	1998 12 17	704	1.6+	0.1-	2000 03 13	704	0.0	0.3+
1998 09 23	557	0.5-	0.1+	1999 01 08	704	0.9+	1.2+	2000 03 13	704	0.3+	0.6-
1998 10 13	557	0.2-	0.0	1999 01 08	704	0.8-	0.5-				
1998 10 13	557	0.2-	0.0	1999 01 08	704	0.4-	0.9-				

1998 QK₃₁ = 2000 EF₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	128.94197	(2000.0)	
<i>n</i>	0.28219203	ω	243.91711
<i>a</i>	2.3020047	Ω	121.77073
<i>e</i>	0.1269384	<i>i</i>	7.27983
<i>P</i>	3.49	<i>H</i>	14.7

Residuals in seconds of arc

1998 08 17	704	0.3-	0.5+	1998 09 18	704	1.6+	0.5+	2000 02 03	704	0.2-	1.1+
1998 08 17	704	1.1-	0.9+	1998 09 18	704	(2.7+	0.6-)	2000 02 03	704	0.5+	0.1-
1998 08 17	704	0.3-	1.0+	1998 09 18	704	0.6+	1.0-	2000 02 03	704	0.2+	0.0
1998 08 17	704	0.3-	0.4-	1998 09 18	704	0.2-	0.4+	2000 02 03	704	0.4+	0.5-
1998 08 17	704	1.1-	0.2+	1998 09 18	704	0.9+	1.0+	2000 02 11	704	0.2-	0.1+
1998 08 23	704	0.3+	0.5+	1998 09 24	699	0.6+	0.7-	2000 02 11	704	1.1+	0.2-
1998 08 23	704	0.9+	0.3+	1998 09 24	699	0.9+	0.8-	2000 02 11	704	0.4-	0.3-
1998 08 23	704	(2.4-	0.1+)	1998 09 24	699	1.6+	0.7-	2000 02 11	704	0.2-	0.0
1998 08 23	704	0.1-	0.7-	1999 12 06	704	0.4-	0.1-	2000 02 11	704	0.2-	0.0
1998 08 28	699	0.6-	0.8+	1999 12 06	704	1.5+	0.0	2000 02 28	704	(3.0-	5.2+)
1998 08 28	699	0.3-	0.7+	1999 12 06	704	0.1+	0.7-	2000 02 28	704	(1.0+	2.3+)
1998 08 28	699	0.3+	0.0	1999 12 06	704	0.2-	0.2+	2000 02 28	704	0.2-	0.7+
1998 09 14	704	0.7-	0.0	1999 12 06	704	0.7+	0.4+	2000 03 04	704	0.3+	0.8+
1998 09 14	704	0.9-	0.3-	2000 01 07	704	0.3+	0.2-	2000 03 04	704	0.1-	0.8+
1998 09 14	704	1.5-	0.3+	2000 01 07	704	0.6-	0.4+	2000 03 04	704	0.5+	0.8+
1998 09 14	704	0.8-	0.6+	2000 01 07	704	0.4-	0.8-	2000 03 04	704	0.2-	0.9+
1998 09 14	704	0.9-	1.4+	2000 01 07	704	0.5-	0.4+	2000 03 04	704	0.5-	0.1+
1998 09 17	699	0.1+	0.1-	2000 01 07	704	1.6-	0.2-	2000 03 05	704	0.2+	0.1-
1998 09 17	699	0.3+	0.1+	2000 01 30	703	0.4+	0.7+	2000 03 05	704	0.2-	0.6+
1998 09 17	699	0.3+	1.1-	2000 01 30	703	0.1-	0.1-	2000 03 05	704	0.3-	0.9+
1998 09 17	699	1.2+	0.3-	2000 01 30	703	0.3-	0.1-	2000 03 05	704	0.2-	0.1+
1998 09 17	699	0.0	0.3-	2000 01 30	703	0.7+	0.2-	2000 03 05	704	0.2+	0.2-
1998 09 17	699	0.7+	1.1+	2000 02 03	704	0.7+	0.0				

1998 QM₃₂ = 1980 RN₆ = 1999 XZ₂₁₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	113.97282	(2000.0)	
<i>n</i>	0.21675872	ω	8.75717
<i>a</i>	2.7446375	Ω	332.00113
<i>e</i>	0.1250941	<i>i</i>	11.89505
<i>P</i>	4.55	<i>H</i>	14.1

Residuals in seconds of arc

1980 09 13	675	0.2-	0.3+	1998 08 23	704	0.8-	0.1-	1999 12 15	704	0.1-	0.8+
1980 09 14	675	0.3-	0.6+	1998 08 23	704	0.9+	1.5+	1999 12 15	704	0.2-	0.3-
1998 08 17	704	0.4+	0.7-	1998 09 15	699	0.4+	0.4+	1999 12 15	704	0.3-	0.6+

1998 08 17	704	0.4-	0.1-	1998 09 15	699	0.8+	0.2-	1999 12 15	704	0.2+	0.2+
1998 08 17	704	0.4-	0.1+	1998 09 15	699	1.0+	0.9-	1999 12 15	704	0.4-	0.1+
1998 08 17	704	0.2-	0.6+	1998 10 11	699	1.8-	0.0	1999 12 30	704	0.2-	0.0
1998 08 17	704	0.2+	0.1+	1998 10 11	699	0.6-	0.3-	1999 12 30	704	0.0	0.7-
1998 08 22	566	1.1-	0.2+	1998 10 11	699	0.1-	0.3+	1999 12 30	704	0.4+	0.0
1998 08 22	566	0.2-	0.1-	1999 12 13	704	0.0	0.5-	1999 12 30	704	0.3+	1.3-
1998 08 22	566	1.1-	1.3-	1999 12 13	704	0.1-	1.0+	1999 12 30	704	0.5+	0.9-
1998 08 23	704	0.7+	0.2+	1999 12 13	704	0.3-	0.2+	2000 01 29	704	0.1+	0.4+
1998 08 23	704	1.1+	0.0	1999 12 13	704	0.4+	1.1-	2000 01 29	704	0.2-	0.1-
1998 08 23	704	1.2+	0.4-	1999 12 13	704	0.2+	0.7-	2000 01 29	704	0.5-	1.8+

1998 QA₃₄ = 2000 DW₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	133.47768	(2000.0)	
<i>n</i>	0.26595425	ω	38.32942
<i>a</i>	2.3947752	Ω	317.28831
<i>e</i>	0.2128086	<i>i</i>	1.99065
<i>P</i>	3.71	<i>H</i>	16.2

Residuals in seconds of arc

1998 08 17	704	0.4+	0.6-	1998 09 14	704	0.9+	0.4-	1998 09 20	691	0.3-	0.4+
1998 08 17	704	(1.6-	2.3+)	1998 09 14	704	0.7+	0.2-	1998 09 20	118	0.8+	0.1+
1998 08 17	704	0.4+	0.1-	1998 09 14	704	0.9+	0.1-	1998 09 20	118	0.5+	0.8-
1998 08 17	704	0.2+	0.7-	1998 09 14	704	0.3+	0.1+	2000 02 27	691	0.4+	0.1-
1998 08 17	704	0.1+	0.8+	1998 09 14	699	0.7+	0.4+	2000 02 27	691	0.5+	0.4-
1998 08 23	704	0.8-	0.0	1998 09 14	699	1.1+	0.2-	2000 02 27	691	0.5+	0.0
1998 08 23	704	(0.5-	2.8-)	1998 09 14	699	0.4-	0.5-	2000 02 28	691	0.1+	0.1+
1998 08 23	704	0.2-	1.3-	1998 09 18	704	0.4+	0.6-	2000 02 28	691	1.4-	0.4-
1998 08 23	704	0.4+	0.7+	1998 09 18	704	0.7-	1.2+	2000 02 28	691	0.4-	0.1-
1998 08 23	704	0.1+	0.6+	1998 09 18	704	0.3-	1.2-	2000 03 09	691	0.2-	0.1+
1998 08 26	699	0.3-	0.6-	1998 09 18	704	1.0-	0.8+	2000 03 09	691	0.0	0.1-
1998 08 26	699	0.4-	0.1-	1998 09 18	704	0.1+	0.6+	2000 03 09	691	0.3+	0.0
1998 08 26	699	0.2-	0.3+	1998 09 20	691	1.2-	0.2+				
1998 09 14	704	1.1-	0.3+	1998 09 20	691	0.8-	0.5+				

1998 QN₃₄ = 2000 DF₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	148.26783	(2000.0)	
<i>n</i>	0.29225287	ω	4.84824
<i>a</i>	2.2488657	Ω	347.28049
<i>e</i>	0.1918121	<i>i</i>	4.73691
<i>P</i>	3.37	<i>H</i>	15.4

Residuals in seconds of arc

1998 07 31	699	1.3-	0.3+	1998 08 23	704	0.1-	0.8+	2000 02 27	691	0.7+	0.1-
1998 07 31	699	0.6-	0.4+	1998 09 14	704	0.3-	0.2-	2000 02 27	691	0.7+	0.1+
1998 07 31	699	0.3-	0.6+	1998 09 14	704	0.1-	0.2+	2000 02 27	691	1.0-	0.1+
1998 08 17	704	0.3+	0.3+	1998 09 14	704	0.5-	1.1-	2000 02 29	704	0.3+	0.0
1998 08 17	704	0.0	0.3-	1998 09 14	704	0.2+	0.2-	2000 02 29	704	0.4+	0.9+
1998 08 17	704	0.7+	0.6+	1998 09 14	704	0.5+	0.3+	2000 02 29	704	0.0	0.5+
1998 08 17	704	0.1+	0.5+	1998 09 18	704	0.7+	0.1+	2000 02 29	704	0.2-	0.4-
1998 08 17	704	0.0	0.4-	1998 09 18	704	0.2-	1.2-	2000 02 29	704	0.3-	0.1+
1998 08 22	566	0.2-	0.0	1998 09 18	704	0.6-	0.5-	2000 03 03	704	0.6-	0.0
1998 08 22	566	0.5-	0.7+	1998 09 18	704	0.6-	0.2+	2000 03 03	704	0.8+	0.7-
1998 08 22	566	0.2+	0.3-	1998 09 18	704	0.6-	1.7-	2000 03 03	704	0.5+	0.3+
1998 08 23	699	0.4+	1.3+	1998 10 12	699	0.7+	0.5+	2000 03 03	704	0.5+	0.4+
1998 08 23	704	0.4-	0.3-	1998 10 12	699	0.7-	1.2+	2000 03 03	704	0.5+	0.4+
1998 08 23	704	0.2-	0.2-	1998 10 12	699	1.3+	1.0+	2000 03 11	704	1.0-	0.1-
1998 08 23	699	0.1-	1.0+	2000 02 11	704	0.1+	0.5+	2000 03 11	704	0.3-	1.2+
1998 08 23	704	0.5+	0.5-	2000 02 11	704	0.4+	1.7+	2000 03 11	704	0.2-	0.0
1998 08 23	704	0.3-	0.1+	2000 02 11	704	0.2+	0.1-	2000 03 11	704	0.0	0.3+
1998 08 23	699	0.1+	1.2+	2000 02 11	704	1.2+	0.8+	2000 03 11	704	0.2-	0.2-

1998 QQ₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	98.58949		(2000.0)			P		Q	
<i>n</i>	0.26258577	ω	5.58696			+0.76327684		−0.64556212	
<i>a</i>	2.4152120	Ω	34.66410			+0.59099880		+0.68162203	
<i>e</i>	0.2018308	<i>i</i>	2.58496			+0.26101510		+0.34444295	
<i>P</i>	3.75	<i>H</i>	14.5			<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc									
1998 08 17	704	0.4−	0.1+	1999 12 05	704	1.7+	0.3+	2000 03 01	012 0.1+ 0.2+
1998 08 17	704	0.2−	0.3+	1999 12 05	704	0.2−	1.4+	2000 03 03	608 0.9− 0.2−
1998 08 17	704	0.6+	1.1+	1999 12 05	704	0.5−	0.1+	2000 03 03	608 0.6− 0.2−
1998 08 17	704	0.4−	0.6+	2000 02 04	704	0.6+	0.4+	2000 03 03	608 0.9− 0.2+
1998 08 17	704	0.0	0.4+	2000 02 04	704	0.5+	1.2+	2000 03 11	699 0.2+ 0.6+
1998 08 23	704	0.2−	0.2+	2000 02 04	704	1.0+	1.0−	2000 03 11	699 0.1+ 0.2+
1998 08 23	704	1.4+	0.9−	2000 02 04	704	0.1−	0.1+	2000 03 11	699 0.0 0.3−
1998 08 23	704	1.0−	0.0	2000 02 04	704	0.3+	1.3+	2000 03 11	699 0.1+ 0.2+
1998 08 23	704	1.1−	0.4+	2000 02 11	704	0.3+	0.5+	2000 03 11	049 1.1+ 0.8−
1998 11 09	910	0.3+	0.1−	2000 02 11	704	0.5+	0.2+	2000 03 11	049 0.8+ 1.0−
1998 11 09	910	0.0	0.0	2000 02 11	704	0.4+	0.0	2000 03 11	049 0.6+ 0.9−
1998 11 09	910	0.1+	0.1+	2000 02 11	704	0.1+	0.3−	2000 03 12	704 0.4− 0.2+
1998 11 10	910	0.1+	0.4−	2000 03 01	012	0.6−	0.1+	2000 03 12	704 0.1+ 0.1+
1998 11 10	910	0.3+	0.6−	2000 03 01	012	0.5−	0.1−	2000 03 12	704 0.4− 0.0
1998 11 10	910	0.2+	0.1−	2000 03 01	012	0.4−	0.3−	2000 03 12	704 0.3− 0.2+
1999 12 05	704	(0.0	2.2+)	2000 03 01	012	0.9−	0.3−	2000 03 12	704 0.4− 0.5+

1998 QA₄₁ = 2000 DJ₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	142.36625		(2000.0)			P		Q		
<i>n</i>	0.28219691	ω	58.91056			+0.99889211		+0.02332051		
<i>a</i>	2.3019782	Ω	299.72467			−0.03831698		+0.90729370		
<i>e</i>	0.2013492	<i>i</i>	2.69776			+0.02731945		+0.41985033		
<i>P</i>	3.49	<i>H</i>	15.0			<i>G</i>	0.15	<i>U</i>	3	
Residuals in seconds of arc										
1997 04 03	704	0.0	0.5+	1998 09 14	704	0.2−	0.2−	2000 02 29	704	0.1− 0.0
1997 04 03	704	0.5+	0.6+	1998 09 15	699	0.2+	0.6+	2000 02 29	704	0.0 0.5+
1998 08 17	704	0.3−	0.8+	1998 09 15	699	0.5+	0.3+	2000 02 29	704	0.3+ 1.0+
1998 08 17	704	0.8+	1.0+	1998 09 15	699	0.2−	0.2+	2000 03 03	704	0.1− 0.2−
1998 08 17	704	0.8−	0.7+	1998 09 18	704	0.7−	1.1+	2000 03 03	704	0.8+ 0.2−
1998 08 17	704	0.4+	0.6+	1998 09 18	704	0.5−	0.4+	2000 03 03	704	1.0+ 0.7−
1998 08 17	704	0.2−	1.3+	1998 09 18	704	0.4+	0.4−	2000 03 03	704	1.3+ 0.8−
1998 08 23	704	0.8+	0.1−	1998 09 18	704	0.8−	0.6+	2000 03 03	704	1.2+ 0.6−
1998 08 23	704	0.2+	0.9−	1998 09 18	704	0.5−	0.1+	2000 03 04	688	0.7− 0.1+
1998 08 23	704	0.2+	0.3−	2000 02 04	704	0.0	0.3−	2000 03 04	688	0.6− 0.2−
1998 08 23	704	0.8+	0.1−	2000 02 04	704	0.1+	0.2+	2000 03 09	704	0.1+ 0.7+
1998 08 23	704	0.4+	1.0−	2000 02 04	704	0.4−	0.1−	2000 03 09	704	0.1+ 0.4+
1998 08 26	699	0.0	0.4−	2000 02 04	704	0.0	0.5−	2000 03 09	704	0.1− 1.0+
1998 08 26	699	0.0	0.5−	2000 02 25	703	0.4−	0.2−	2000 03 09	704	0.1+ 0.9+
1998 08 26	699	0.1−	0.5−	2000 02 25	703	0.4−	0.4−	2000 03 09	704	0.2+ 1.0+
1998 09 14	704	0.6−	0.7+	2000 02 25	703	0.4+	0.2−	2000 03 11	704	0.1+ 1.3+
1998 09 14	704	1.2−	0.1+	2000 02 25	703	0.2−	0.6+	2000 03 11	704	0.3− 0.4+
1998 09 14	704	0.0	0.1−	2000 02 29	704	0.2+	0.1+	2000 03 11	704	1.3− 0.7−
1998 09 14	704	0.0	1.1−	2000 02 29	704	0.4−	0.1+			

1998 QD₄₁ = 2000 ED₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	102.10229		(2000.0)		P		Q
n	0.26804471	ω	221.21113		+0.80432540		−0.59415956
a	2.3823079	Ω	175.23030		+0.56211891		+0.75764597
e	0.1366824	i	4.08379		+0.19256940		+0.27008704
P	3.68	H	15.4	G	0.15	U	4

Residuals in seconds of arc

1998 08 17	704	0.2−	0.2−	1998 09 14	699	1.4−	0.7+	2000 03 03	704	0.7−	0.1−
1998 08 17	704	1.1−	1.3−	1998 09 14	699	1.3−	0.2−	2000 03 03	704	1.1+	0.2−
1998 08 17	704	1.2+	1.3+	1998 09 14	699	1.6−	1.2+	2000 03 03	704	0.1+	1.2+
1998 08 17	704	0.7+	0.2−	1998 09 18	704	1.2+	1.3−	2000 03 03	704	0.3+	0.1−
1998 08 17	704	0.8−	1.0+	1998 09 18	704	1.2+	0.0	2000 03 09	704	0.0	0.4+
1998 08 23	704	0.6+	1.4−	1998 09 18	699	0.4−	0.2−	2000 03 09	704	0.6+	0.2−
1998 08 23	704	1.1+	1.1−	1998 09 18	704	1.3+	1.0−	2000 03 09	704	0.0	0.2−
1998 08 23	704	1.2−	0.3−	1998 09 18	699	0.5−	0.2−	2000 03 09	704	0.0	1.0−
1998 08 23	704	0.6−	0.5+	1998 09 18	704	0.4+	0.6+	2000 03 09	704	0.2−	0.0
1998 08 23	704	0.7+	1.3+	1998 09 18	704	0.4−	0.7−	2000 03 11	704	0.2−	0.0
1998 09 14	704	1.1+	0.6−	1998 09 18	699	0.6+	0.1+	2000 03 11	704	0.2−	0.1−
1998 09 14	704	0.7−	0.2+	1998 09 27	691	0.2−	0.5+	2000 03 11	704	0.8−	0.4+
1998 09 14	704	0.5+	0.7−	1998 09 27	691	0.0	0.6+	2000 03 11	704	0.1+	0.2−
1998 09 14	704	0.4+	0.4+	1998 09 27	691	0.2−	0.3+				
1998 09 14	704	0.2−	0.3+	2000 03 03	704	0.3−	0.5−				

1998 QL₄₁ = 2000 DC₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	83.91271		(2000.0)		P		Q
n	0.22713769	ω	69.56108		+0.67631404		−0.73203250
a	2.6603774	Ω	337.23832		+0.57176907		+0.59190282
e	0.2749550	i	12.23961		+0.46441301		+0.33731212
P	4.34	H	14.7	G	0.15	U	4

Residuals in seconds of arc

1998 08 17	704	0.4−	0.3−	1998 09 14	699	0.0	1.3+	2000 02 29	704	0.0	0.4−
1998 08 17	704	0.6−	0.5+	1998 09 14	699	0.7−	0.1−	2000 02 29	704	0.2−	0.4+
1998 08 17	704	0.0	1.8+	1998 09 14	699	0.7−	1.1+	2000 02 29	704	0.3+	0.3+
1998 08 17	704	0.8+	0.1+	1998 09 15	699	(0.6−	3.8+)	2000 02 29	704	0.4+	0.9+
1998 08 17	704	0.0	1.0+	1998 09 15	699	0.4+	0.9+	2000 03 03	704	0.3+	0.6+
1998 08 23	704	0.0	0.4−	1998 09 15	699	0.4−	0.1−	2000 03 03	704	1.3+	0.8+
1998 08 23	704	0.9+	1.1+	1998 09 18	704	0.0	0.1−	2000 03 03	704	0.3+	0.9+
1998 08 23	704	1.3+	1.2+	1998 09 18	704	0.1−	1.2−	2000 03 03	704	0.5+	0.4+
1998 08 23	704	0.4−	1.0−	1998 09 18	704	0.3−	0.3−	2000 03 03	704	0.4+	1.1+
1998 08 23	704	0.1+	1.5+	1998 09 18	704	1.4−	0.1+	2000 03 11	699	1.0+	0.2−
1998 08 30	699	0.7+	0.1−	1998 09 18	704	0.9−	0.6+	2000 03 11	704	0.5+	0.1+
1998 08 30	699	0.1−	0.4−	2000 02 06	704	0.0	0.9+	2000 03 11	699	0.9+	0.3+
1998 08 30	699	0.6−	0.3+	2000 02 06	704	0.9−	0.9+	2000 03 11	704	0.2+	0.1+
1998 09 14	704	0.3−	0.3−	2000 02 06	704	0.5−	0.4+	2000 03 11	699	0.3+	0.3+
1998 09 14	704	0.2−	0.1−	2000 02 06	704	0.4+	0.6+	2000 03 11	704	0.1+	0.2−
1998 09 14	704	0.1+	0.0	2000 02 25	691	0.1−	0.1+	2000 03 11	704	0.1+	0.5+
1998 09 14	704	0.9−	0.1+	2000 02 25	691	0.2−	0.1−	2000 03 11	699	0.3+	0.1−
1998 09 14	704	0.8−	0.2−	2000 02 25	691	0.3−	0.2−	2000 03 11	704	0.3+	0.3−

1998 QF₄₃ = 2000 DA₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	160.05146		(2000.0)	P	Q
n	0.30449461	ω	0.28068	+0.97941518	+0.20111672
a	2.1881797	Ω	348.07480	−0.18536180	+0.86223237
e	0.1672830	i	4.79195	−0.07991814	+0.46487354
P	3.24	H	15.9	G 0.15	U 4

2000 MAR. 20

M.P.C. 39205

1998 09 14	704	0.2+	0.6+	2000 02 11	704	0.8+	0.4+	2000 03 05	704	0.0	0.2+
1998 09 14	704	0.5-	0.5+	2000 02 11	704	0.4+	0.6+	2000 03 11	699	0.2+	0.0
1998 09 14	704	0.4+	0.7-	2000 02 11	704	0.7+	1.5-	2000 03 11	699	1.5-	0.3+
1998 09 14	704	1.3+	0.1+	2000 02 11	704	0.1+	0.1+	2000 03 11	699	0.6-	0.1+
1998 09 14	704	0.4+	0.5-	2000 02 29	704	1.1-	0.0	2000 03 11	699	0.9-	0.1+
1998 09 14	699	0.5-	0.2+	2000 02 29	704	0.6+	0.6+				
1998 09 14	699	0.7-	0.5+	2000 02 29	704	0.0	0.9+				

1998 QA₄₄ = 2000 EL₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	99.32602	(2000.0)		P	Q		
<i>n</i>	0.29733863	ω	52.42138	+0.50193839	-0.86480815		
<i>a</i>	2.2231486	Ω	7.48357	+0.75922635	+0.43345328		
<i>e</i>	0.1594285	<i>i</i>	5.65530	+0.41428637	+0.25342676		
<i>P</i>	3.31	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.2-	0.1-	1998 09 18	704	1.5-	1.8-	2000 03 08	704	0.2-	0.3+
1998 08 17	704	0.9-	1.2+	1998 10 20	910	0.1+	0.3+	2000 03 08	704	0.5+	0.2+
1998 08 17	704	1.2+	0.8+	1998 10 20	910	0.1+	0.2+	2000 03 08	704	0.9+	0.7-
1998 08 17	704	0.9+	0.4+	1998 10 20	910	0.1+	0.3+	2000 03 08	704	0.7+	1.4+
1998 08 17	704	0.1+	0.1-	2000 02 27	703	1.1-	0.5-	2000 03 10	704	0.2+	0.4+
1998 08 23	704	(2.1+	0.8+)	2000 02 27	703	0.3-	0.5+	2000 03 10	704	0.2+	0.0
1998 08 23	704	(0.2-	3.2-)	2000 02 27	703	0.4-	0.5+	2000 03 10	704	0.3+	0.1-
1998 08 23	704	0.6-	0.1+	2000 02 27	703	0.7-	1.3+	2000 03 10	704	0.2+	0.1-
1998 09 14	704	0.1-	1.1-	2000 03 02	691	0.0	0.8-	2000 03 11	704	0.5-	0.3-
1998 09 14	704	0.8-	0.6-	2000 03 02	691	0.1+	0.8-	2000 03 11	704	0.3-	0.1-
1998 09 14	704	1.0+	1.0+	2000 03 02	691	0.0	0.7-	2000 03 11	704	0.2+	0.4+
1998 09 14	704	0.6-	1.0-	2000 03 03	691	0.1+	0.6-	2000 03 11	704	0.4+	0.9+
1998 09 14	704	0.2-	1.0+	2000 03 03	691	0.1+	0.6-	2000 03 11	704	0.3+	0.9+
1998 09 18	704	0.5-	0.1-	2000 03 03	691	0.1+	0.7-	2000 03 14	703	0.4+	0.4-
1998 09 18	704	0.8+	1.1-	2000 03 04	688	0.1-	0.1+	2000 03 14	703	0.3-	0.4+
1998 09 18	704	0.8+	0.1+	2000 03 04	688	0.2+	0.0	2000 03 14	703	1.4-	1.2-
1998 09 18	704	0.8+	0.1-	2000 03 08	704	1.0-	0.4-	2000 03 14	703	0.7+	0.2-

1998 QV₄₅ = 1985 UO₆ = 2000 EU₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	67.66443	(2000.0)		P	Q		
<i>n</i>	0.22351446	ω	247.10512	+0.26212604	-0.96481934		
<i>a</i>	2.6890506	Ω	187.78261	+0.93128716	+0.25842764		
<i>e</i>	0.3136845	<i>i</i>	8.63735	+0.25297069	+0.04836107		
<i>P</i>	4.41	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1985 10 18	095	0.5-	2.2+	1998 09 14	704	1.0-	0.1-	2000 03 09	704	0.0	0.3+
1998 08 17	704	0.9+	0.7+	1998 09 14	704	0.0	1.0+	2000 03 09	704	0.2-	0.3+
1998 08 17	704	0.6+	0.1+	1998 09 14	704	0.7-	0.3+	2000 03 09	704	0.2+	0.7+
1998 08 17	704	1.0+	1.3-	1998 09 18	704	0.2-	0.6-	2000 03 09	704	0.3-	0.8+
1998 08 17	704	0.0	0.2-	1998 09 18	704	0.2-	0.1-	2000 03 10	704	0.4-	0.4+
1998 08 17	704	0.1+	0.7+	1998 09 18	704	0.7-	0.5+	2000 03 10	704	0.2+	0.3+
1998 08 23	704	1.7+	0.1+	1998 09 18	704	0.8-	0.2-	2000 03 10	704	0.3-	1.0+
1998 08 23	704	(2.4-	0.2+)	1998 09 18	704	0.9-	0.3+	2000 03 10	704	0.0	0.8+
1998 08 23	704	0.2+	1.0+	1998 11 15	699	0.6-	1.0+	2000 03 10	704	0.2-	1.1+
1998 08 23	704	0.6-	0.5+	1998 11 15	699	0.2+	1.4+	2000 03 11	704	0.1-	0.8+
1998 08 30	699	0.2-	0.3+	1998 11 15	699	0.9-	0.6+	2000 03 11	704	0.2-	0.5+
1998 08 30	699	0.7+	0.9+	2000 03 04	688	0.0	0.1+	2000 03 11	704	1.2+	0.4+
1998 08 30	699	0.2+	0.8+	2000 03 04	688	0.1-	0.4+	2000 03 11	704	1.3+	1.2+
1998 09 14	704	0.6-	0.6+	2000 03 09	704	0.5+	0.2+	2000 03 11	704	0.9+	1.4+

1998 QO₄₆ = 2000 DJ₉₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	143.64459	(2000.0)		P	Q		
<i>n</i>	0.28324641	ω	199.93508	+0.99673106	+0.03528259		
<i>a</i>	2.2962884	Ω	157.66484	-0.01782429	+0.97346742		
<i>e</i>	0.1695512	<i>i</i>	11.02575	-0.07880025	+0.22608919		
<i>P</i>	3.48	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 17	704	0.3-	0.0	1998 09 14	704	0.3-	0.2-	2000 02 02	704	0.4-	0.2+
1998 08 17	704	0.1+	0.4-	1998 09 14	704	0.1+	0.2-	2000 02 02	704	0.6-	0.8+
1998 08 17	704	0.4+	0.6-	1998 09 14	704	0.1+	1.0-	2000 02 29	704	0.2+	0.3+
1998 08 17	704	0.7+	0.4-	1998 09 14	704	0.3+	0.8-	2000 02 29	704	(2.8+	0.5+)
1998 08 17	704	0.2-	0.1-	1998 09 18	699	0.0	0.2-	2000 02 29	704	1.0+	0.5+
1998 08 23	704	0.1+	0.8+	1998 09 18	699	0.4+	0.9+	2000 02 29	704	1.5+	0.1-
1998 08 23	704	0.9+	0.8+	1998 09 18	704	0.3-	0.7-	2000 03 05	704	0.7-	0.6+
1998 08 23	704	0.2-	1.9+	1998 09 18	699	0.3-	0.2+	2000 03 05	704	0.2-	0.1+
1998 08 23	704	0.8+	0.4-	1998 09 18	704	0.8-	1.0-	2000 03 05	704	0.1-	0.0
1998 08 23	704	0.0	0.5+	1998 09 18	704	0.5+	0.6+	2000 03 05	704	0.6-	0.2+
1998 08 30	699	0.4-	0.2+	1998 09 18	704	0.4-	0.4-	2000 03 11	704	0.4-	0.4-
1998 08 30	699	0.5-	0.3+	1998 09 18	704	0.1-	0.6+	2000 03 11	704	0.6+	0.3-
1998 08 30	699	0.5-	0.4+	2000 02 02	704	1.0-	0.4-	2000 03 11	704	0.9+	0.4-

1998 QB₄₇ = 2000 EV₈₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	88.94188	(2000.0)		P	Q		
<i>n</i>	0.26025984	ω	39.58599	+0.60760983	-0.79391977		
<i>a</i>	2.4295804	Ω	13.04832	+0.70123757	+0.52300871		
<i>e</i>	0.1857219	<i>i</i>	5.69363	+0.37292917	+0.31008594		
<i>P</i>	3.79	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.4+	0.7-	1998 09 16	699	0.0	0.2+	2000 02 26	703	1.1-	0.5-
1998 08 17	704	0.4-	0.3-	1998 09 18	704	0.4-	0.2+	2000 02 26	703	0.7-	0.7-
1998 08 17	704	0.6-	0.7-	1998 09 18	704	0.2-	0.1+	2000 03 09	704	0.2+	0.1+
1998 08 17	704	0.7-	1.2+	1998 09 18	704	0.9-	0.4-	2000 03 09	704	0.3+	0.5+
1998 08 17	704	0.0	0.1-	1998 09 18	704	0.3-	0.1+	2000 03 09	704	0.3+	0.5+
1998 08 23	704	0.8+	0.1+	1998 09 18	704	0.9+	1.2-	2000 03 09	704	0.3+	0.0
1998 08 23	704	1.0+	1.1+	1998 10 14	699	0.0	1.5+	2000 03 09	704	0.3+	0.1+
1998 08 23	704	1.5-	0.3+	1998 10 14	699	0.3-	0.6+	2000 03 12	704	0.4+	0.8+
1998 08 23	704	0.5-	0.8-	1998 10 14	699	1.0+	0.6+	2000 03 12	704	0.1-	0.9+
1998 08 23	704	0.2-	0.8+	2000 02 04	704	0.1-	1.1-	2000 03 12	704	0.1-	0.9+
1998 09 14	704	0.9+	0.6-	2000 02 04	704	1.2+	0.1+	2000 03 12	704	0.4+	0.6+
1998 09 14	704	1.0-	1.0+	2000 02 04	704	0.7+	0.2-	2000 03 15	704	0.6+	0.3+
1998 09 14	704	0.2+	0.3+	2000 02 04	704	0.4+	0.2-	2000 03 15	704	0.9+	0.1-
1998 09 14	704	0.4+	0.7-	2000 02 04	704	0.0	0.7+	2000 03 15	704	0.1-	1.1+
1998 09 16	699	0.3-	1.2+	2000 02 26	703	0.4-	0.2-	2000 03 15	704	0.5+	0.3-
1998 09 16	699	0.3-	0.5+	2000 02 26	703	1.4-	0.4+	2000 03 15	704	0.0	0.7+

1998 QD₄₇ = 2000 EL₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	124.34659	(2000.0)		P	Q		
<i>n</i>	0.28370331	ω	357.77846	+0.92491644	-0.37874308		
<i>a</i>	2.2938223	Ω	24.55816	+0.35000927	+0.81454541		
<i>e</i>	0.1739432	<i>i</i>	4.54204	+0.14840180	+0.43939669		
<i>P</i>	3.47	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.3+	0.0	1998 09 14	704	0.4-	0.5+	1998 09 18	704	1.1-	1.0-
1998 08 17	704	1.2+	0.1+	1998 09 14	704	0.0	0.4+	2000 03 05	704	0.4+	0.6+
1998 08 17	704	1.3+	0.1+	1998 09 14	704	1.1+	0.4-	2000 03 05	704	0.0	0.5+
1998 08 17	704	0.0	0.1+	1998 09 14	704	1.5+	0.1+	2000 03 05	704	0.2+	0.3-
1998 08 23	704	1.5-	1.4-	1998 09 18	704	1.2+	0.7+	2000 03 05	704	0.5+	0.2+
1998 08 23	704	1.4-	1.2+	1998 09 18	704	1.5-	0.7-	2000 03 08	704	1.6-	0.3-

1998 08 23 704 0.4− 1.5− 1998 09 18 704 0.2+ 0.4+ 2000 03 08 704 0.4+ 0.0
 1998 08 23 704 0.6− 1.0+ 1998 09 18 704 (2.6− 1.2+) 2000 03 08 704 0.1− 0.6−

1998 QJ₄₇ = 2000 DC₉₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28746333	ω	47.69781	+0.01287204	−0.99832640		
<i>a</i>	2.2737764	Ω	41.66616	+0.89064857	−0.01418241		
<i>e</i>	0.0787610	<i>i</i>	4.86504	+0.45451010	+0.05606485		
<i>P</i>	3.43	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 17 704 0.2− 0.8+ 1998 09 18 704 0.0 0.3− 2000 02 11 704 0.4+ 0.8−
 1998 08 17 704 0.7+ 0.6+ 1998 09 18 704 0.2+ 0.9+ 2000 02 11 704 0.4− 0.1−
 1998 08 17 704 0.1+ 0.2− 1998 09 18 704 0.3− 0.5− 2000 02 11 704 0.3+ 0.7−
 1998 08 17 704 0.3+ 1.3+ 1999 11 16 704 0.3+ 0.4+ 2000 02 29 704 0.4+ 0.2+
 1998 08 17 704 1.3− 0.2+ 1999 11 16 704 0.0 0.4+ 2000 02 29 704 0.2− 0.0
 1998 08 23 704 0.4+ 0.6− 1999 11 16 704 0.2− 0.2− 2000 02 29 704 0.1+ 0.1+
 1998 08 23 704 0.4+ 1.3− 1999 11 16 704 0.1− 0.1− 2000 02 29 704 0.1+ 0.2+
 1998 08 23 704 0.0 1.6− 1999 12 06 704 0.3+ 0.1− 2000 02 29 704 0.1+ 0.1−
 1998 08 23 704 1.8− 0.5− 1999 12 06 704 0.2+ 0.9− 2000 03 05 704 0.3+ 0.6+
 1998 09 14 704 0.7+ 0.4+ 1999 12 06 704 0.4− 0.2− 2000 03 05 704 0.1+ 0.2−
 1998 09 14 704 0.2+ 0.4− 2000 02 03 704 0.1− 0.3+ 2000 03 05 704 0.4+ 0.2+
 1998 09 14 704 1.8+ 0.8− 2000 02 03 704 0.0 0.0 2000 03 05 704 0.1+ 0.2−
 1998 09 14 704 0.0 0.3− 2000 02 03 704 0.2− 0.3+ 2000 03 05 704 0.0 0.0
 1998 09 16 699 1.0− 1.4+ 2000 02 03 704 0.0 0.4+ 2000 03 12 704 0.7− 0.8+
 1998 09 16 699 0.7+ 1.0+ 2000 02 03 704 0.3+ 0.7+ 2000 03 12 704 0.4− 0.5−
 1998 09 16 699 (0.7− 2.2+) 2000 02 11 704 0.1+ 0.0 2000 03 12 704 0.1− 0.4+
 1998 09 18 704 1.4− 1.0+ 2000 02 11 704 0.3− 0.8− 2000 03 12 704 0.1− 0.2+

1998 QX₄₇ = 1987 SQ₂₄ = 2000 DH₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26727045	ω	55.54576	+0.98301458	−0.17671578		
<i>a</i>	2.3869066	Ω	314.57597	+0.13714307	+0.88667097		
<i>e</i>	0.2438991	<i>i</i>	3.98771	+0.12195948	+0.42730098		
<i>P</i>	3.69	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1987 09 23 095 0.3+ 0.7− 1998 08 26 699 0.4+ 0.6+ 1998 10 11 699 0.7− 0.5−
 1998 08 17 704 0.2+ 0.8− 1998 09 14 704 0.1− 0.7+ 1998 10 11 699 0.5− 0.6−
 1998 08 17 704 0.0 0.3− 1998 09 14 704 0.1+ 0.6+ 1998 10 11 699 1.4− 0.1+
 1998 08 17 704 0.3− 0.6− 1998 09 14 704 0.1+ 0.2− 2000 02 29 704 0.3+ 0.4−
 1998 08 17 704 0.1+ 0.3+ 1998 09 14 704 0.0 0.1+ 2000 02 29 704 1.3+ 0.7−
 1998 08 17 704 0.8− 0.7− 1998 09 18 704 0.4+ 0.8− 2000 02 29 704 0.3− 0.3−
 1998 08 23 704 0.2− 0.3− 1998 09 18 704 0.0 0.2+ 2000 02 29 704 0.1− 0.4+
 1998 08 23 704 0.9+ 1.3+ 1998 09 18 704 0.7+ 0.4+ 2000 02 29 704 0.4− 0.4+
 1998 08 23 704 0.2+ 0.1+ 1998 09 18 704 0.4+ 0.3+ 2000 03 03 704 0.1− 0.3+
 1998 08 23 704 1.7− 1.6+ 1998 09 18 704 0.5− 0.4+ 2000 03 03 704 0.3+ 1.5+
 1998 08 23 704 0.6+ 0.5− 1998 09 25 699 0.4+ 0.3+ 2000 03 03 704 0.4+ 0.4+
 1998 08 26 699 0.8− 0.1− 1998 09 25 699 0.4+ 0.0 2000 03 03 704 0.1− 1.1+
 1998 08 26 699 0.2− 0.6+ 1998 09 25 699 0.8+ 0.1+

1998 QM₄₈ = 2000 DW₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28295645	ω	39.62389	+0.99733818	−0.03519606		
<i>a</i>	2.2978569	Ω	322.24567	+0.00095142	+0.88199186		
<i>e</i>	0.1908783	<i>i</i>	5.98656	+0.07290847	+0.46994851		
<i>P</i>	3.48	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17 704 0.0 0.3+ 1998 09 16 699 0.2− 0.5+ 2000 02 29 704 0.2+ 0.1−
 1998 08 17 704 0.3+ 0.2− 1998 09 16 699 0.1+ 0.0 2000 02 29 704 0.1− 0.8−
 1998 08 17 704 1.0+ 1.0− 1998 09 18 704 0.3+ 0.2+ 2000 02 29 704 0.5− 0.2+

1998 08 17 704 0.2− 0.2+ 1998 09 18 704 0.7+ 1.1+ 2000 03 03 704 0.4− 0.4−
 1998 08 17 704 0.1+ 1.1+ 1998 09 18 704 0.2+ 0.9+ 2000 03 03 704 0.8+ 0.0
 1998 08 23 704 1.0+ 0.0 1998 09 18 704 1.5+ 0.7+ 2000 03 03 704 0.7− 0.1−
 1998 08 23 704 0.1− 0.7− 1998 09 18 704 0.7+ 0.8+ 2000 03 03 704 0.3− 0.6+
 1998 08 23 704 0.7− 1.7− 1998 09 25 699 0.1+ 0.1− 2000 03 03 688 0.3− 0.0
 1998 08 23 704 0.7− 1.3− 1998 09 25 699 0.5+ 0.0 2000 03 03 688 0.4− 0.1+
 1998 08 23 704 0.4− 1.3− 1998 09 25 699 0.3− 0.1+ 2000 03 11 704 0.4+ 0.1+
 1998 09 14 704 0.3− 0.2+ 1998 10 11 699 0.7− 0.8− 2000 03 11 704 0.0 0.5+
 1998 09 14 704 0.8− 0.2+ 1998 10 11 699 0.3− 0.6− 2000 03 11 704 0.2+ 0.8−
 1998 09 14 704 0.3− 0.2− 1998 10 11 699 0.2+ 1.3− 2000 03 11 704 0.9+ 0.6−
 1998 09 14 704 1.0− 0.8+ 2000 02 29 704 0.4+ 0.3− 2000 03 11 704 0.6− 0.2+
 1998 09 16 699 0.4− 0.4+ 2000 02 29 704 0.3− 0.0

1998 QS₄₈ = 2000 CB₃₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.31100905	ω	55.08344	+0.90957968	−0.41270688		
<i>a</i>	2.1575160	Ω	329.20917	+0.34375191	+0.81272269		
<i>e</i>	0.0611013	<i>i</i>	5.41986	+0.23345114	+0.41128441		
<i>P</i>	3.17	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17 704 0.0 0.3+ 1998 09 18 704 0.0 0.4+ 2000 02 29 704 0.2− 0.2+
 1998 08 17 704 0.9− 1.5− 1998 09 18 704 1.7− 0.6+ 2000 02 29 704 0.2− 0.3−
 1998 08 17 704 0.6− 0.3− 1998 09 18 704 0.6− 0.8+ 2000 02 29 704 0.0 0.0
 1998 08 17 704 1.1− 1.1+ 1998 09 18 704 1.1+ 1.2+ 2000 02 29 704 0.3− 0.4−
 1998 08 17 704 0.1− 1.7+ 2000 02 02 704 0.7+ 0.2− 2000 03 03 704 0.3− 0.2+
 1998 08 23 704 0.9− 0.4− 2000 02 02 704 0.0 0.5− 2000 03 03 704 0.3− 0.3+
 1998 08 23 704 0.4− 0.9+ 2000 02 02 704 0.6+ 0.2+ 2000 03 03 704 0.3− 0.6+
 1998 08 23 704 1.5+ 0.5− 2000 02 02 704 1.3+ 0.0 2000 03 03 704 0.2− 0.6+
 1998 08 26 699 0.1− 0.3+ 2000 02 05 704 0.5− 0.7− 2000 03 03 704 0.2− 0.4+
 1998 08 26 699 0.1+ 0.1− 2000 02 05 704 0.3+ 0.6+ 2000 03 11 704 0.9− 0.0
 1998 08 26 699 0.5− 0.3+ 2000 02 05 704 0.6+ 0.9+ 2000 03 11 704 0.6− 0.1−
 1998 09 14 704 1.0+ 0.3− 2000 02 06 704 0.2+ 0.1− 2000 03 11 704 0.4− 0.0
 1998 09 14 704 1.1+ 0.4− 2000 02 06 704 0.5− 0.4− 2000 03 11 704 0.8− 0.4+
 1998 09 14 704 1.4+ 1.5− 2000 02 06 704 0.1+ 0.1+ 2000 03 11 704 0.5− 0.4−
 1998 09 14 704 0.5+ 0.6− 2000 02 06 704 0.7− 1.3+ 2000 03 11 699 0.2+ 0.2−
 1998 09 15 699 0.2− 0.3− 2000 02 27 849 0.0 1.2− 2000 03 11 699 0.3+ 0.1+
 1998 09 15 699 0.4− 0.4− 2000 02 27 849 1.1+ 0.3+ 2000 03 11 699 0.1− 0.3−
 1998 09 15 699 0.3+ 0.6− 2000 02 27 849 1.4+ 1.2− 2000 03 11 699 0.2− 0.3−
 1998 09 18 704 0.2− 0.1− 2000 02 27 849 1.2+ 0.7+

1998 QX₄₈ = 2000 DB₆₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28334140	ω	216.09382	+0.98131425	−0.18951485		
<i>a</i>	2.2957752	Ω	154.76937	+0.18970816	+0.92407818		
<i>e</i>	0.2240530	<i>i</i>	4.47563	+0.03214269	+0.33190908		
<i>P</i>	3.48	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 08 17 704 0.1+ 0.6+ 1998 08 30 699 0.4+ 0.7+ 1998 09 18 704 0.4+ 0.2+
 1998 08 17 704 0.7+ 0.3− 1998 08 30 699 0.5− 0.5+ 1998 09 18 704 0.3− 1.2−
 1998 08 17 704 0.3+ 0.6− 1998 08 30 699 0.6+ 0.9+ 2000 02 29 704 0.6− 1.7+
 1998 08 17 704 0.3+ 0.1+ 1998 09 14 704 0.9+ 0.5+ 2000 02 29 704 0.6+ 1.4+
 1998 08 17 704 0.0 1.3+ 1998 09 14 704 0.9+ 0.6+ 2000 02 29 704 (0.5− 2.3+)
 1998 08 23 704 0.7− 0.2− 1998 09 14 704 0.6+ 0.2+ 2000 03 03 704 0.8+ 0.2+
 1998 08 23 704 0.3+ 0.9+ 1998 09 14 704 0.5+ 0.1+ 2000 03 03 704 0.7+ 1.2+
 1998 08 23 704 0.6− 0.5− 1998 09 18 699 0.4− 0.9+ 2000 03 03 704 0.4+ 0.5+
 1998 08 23 704 0.2+ 0.3− 1998 09 18 704 0.3+ 0.2− 2000 03 03 704 0.1+ 0.4+
 1998 08 23 704 1.6− 0.4+ 1998 09 18 699 0.1− 0.2+ 2000 03 03 704 0.3+ 0.4+
 1998 08 26 699 0.8− 0.5+ 1998 09 18 704 0.9− 0.5+ 2000 03 11 704 0.2− 0.2+
 1998 08 26 699 0.0 0.7+ 1998 09 18 699 0.4+ 0.8+ 2000 03 11 704 0.4+ 1.1+
 1998 08 26 699 0.6+ 0.4− 1998 09 18 704 0.1+ 0.4− 2000 03 11 704 0.2+ 0.1+

2000 MAR. 20

M.P.C. 39207

1998 QJ₅₀ = 2000 DE₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 123.68227 (2000.0)			Williams			<i>P</i>			<i>Q</i>		
<i>n</i>	0.29833096	ω	27.62282	+0.85746382	−0.51451302						
<i>a</i>	2.2182160	Ω	3.35838	+0.45243439	+0.74866616						
<i>e</i>	0.1303344	<i>i</i>	5.55460	+0.24506922	+0.41806141						
<i>P</i>	3.30	<i>H</i>	15.7	<i>G</i> 0.15	<i>U</i> 4						
Residuals in seconds of arc											
1998 08 17	704 1.0−	1.2−	1998 09 18	704 0.3−	0.1+	2000 03 02	703 0.5+	0.2−			
1998 08 17	704 0.2−	0.2+	1998 09 18	699 0.7+	0.4+	2000 03 02	703 0.8+	1.2+			
1998 08 17	704 1.0−	1.0−	1998 09 18	704 0.1−	1.2+	2000 03 02	703 (2.9+	4.5−)			
1998 08 17	704 0.4−	0.7+	1998 09 18	704 1.3−	1.5+	2000 03 03	704 0.1−	0.3+			
1998 08 17	704 0.0	0.6+	1998 09 18	699 1.1+	0.5+	2000 03 03	704 0.1+	0.9+			
1998 08 23	704 1.2+	0.2+	1998 09 18	704 0.3−	0.3−	2000 03 03	704 0.2−	0.5+			
1998 08 23	704 1.7+	0.5−	1998 09 18	699 0.2−	0.3+	2000 03 03	704 0.2+	0.5+			
1998 08 23	704 1.5−	0.6−	1998 09 30	691 0.2−	0.0	2000 03 03	704 1.1+	0.1+			
1998 08 23	704 0.5−	1.2−	1998 09 30	691 1.0−	0.9+	2000 03 11	704 0.6+	0.4+			
1998 08 23	704 0.1−	0.5+	1998 09 30	691 0.6−	0.6+	2000 03 11	699 0.2+	0.8+			
1998 08 30	699 0.1−	0.8+	1998 10 14	699 0.5+	0.7+	2000 03 11	704 0.2+	0.5+			
1998 08 30	699 1.0−	1.0+	1998 10 14	699 0.8−	0.2+	2000 03 11	704 0.5+	0.3+			
1998 08 30	699 1.0−	0.5+	1998 10 14	699 0.6+	0.3+	2000 03 11	699 0.6−	1.0+			
1998 09 14	704 0.1−	0.5−	2000 02 29	704 0.0	0.5−	2000 03 11	704 0.7+	0.5+			
1998 09 14	704 1.6+	0.1−	2000 02 29	704 0.2−	0.3+	2000 03 11	699 0.5−	1.0+			
1998 09 14	704 1.1+	0.4+	2000 02 29	704 0.1−	1.0−	2000 03 11	704 0.0	0.9+			
1998 09 14	704 0.0	1.4+	2000 02 29	704 0.3−	0.6+	2000 03 11	699 0.5+	1.0+			
1998 09 18	704 0.3−	0.8−	2000 03 02	703 1.0+	1.2−						

1998 QV₅₀ = 1991 RA₃₆

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 139.31841 (2000.0)			Williams			<i>P</i>			<i>Q</i>		
<i>n</i>	0.28338281	ω	268.46188	+0.99244249	−0.11588684						
<i>a</i>	2.2955515	Ω	98.19163	+0.12240525	+0.91173517						
<i>e</i>	0.2199819	<i>i</i>	2.33638	+0.00865241	+0.39409291						
<i>P</i>	3.48	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 2						
Residuals in seconds of arc											
1991 09 14	675 0.5−	0.5+	1998 09 14	704 0.3−	1.7+	2000 02 10	120 0.5+	0.4+			
1991 09 14	675 0.2−	1.6+	1998 09 14	704 0.2+	1.7+	2000 02 11	704 0.4−	0.2−			
1998 07 26	699 1.2−	1.0+	1998 09 14	704 0.6+	1.6+	2000 02 11	704 0.8+	0.3+			
1998 07 26	699 0.2+	0.0	1998 09 18	699 0.1+	0.3+	2000 02 11	704 0.5+	0.0			
1998 07 26	699 0.2−	0.6+	1998 09 18	699 0.0	0.2+	2000 02 11	704 0.3−	0.5+			
1998 08 17	704 0.6+	0.1+	1998 09 18	704 0.8−	0.4+	2000 03 05	120 0.4+	0.4+			
1998 08 17	704 0.3+	0.8−	1998 09 18	699 0.0	0.3+	2000 03 05	120 1.8−	0.4+			
1998 08 17	704 0.9+	1.7−	1998 09 18	704 0.6−	1.3+	2000 03 05	120 0.0	0.2+			
1998 08 17	704 0.0	0.8−	1998 09 18	704 0.7−	0.6+	2000 03 11	699 0.5+	0.5+			
1998 08 17	704 0.8−	1.5−	1998 09 18	704 0.8−	0.2−	2000 03 11	699 0.4−	0.9+			
1998 08 23	704 0.4+	0.1+	1998 09 18	704 0.5−	0.6−	2000 03 11	699 0.6+	0.1+			
1998 08 23	704 0.0	0.7+	1998 09 27	699 0.4+	0.1+	2000 03 11	699 0.4−	0.5+			
1998 08 23	704 0.3−	0.5−	1998 09 27	699 0.8+	0.4+	2000 03 12	704 0.8+	0.3+			
1998 08 23	704 0.4−	0.5−	1998 09 27	699 0.5+	0.4+	2000 03 12	704 0.6+	0.6+			
1998 08 23	704 0.4−	1.3−	1998 12 08	704 0.4+	0.6−	2000 03 12	704 0.3+	0.3+			
1998 08 30	699 0.2+	0.2+	1998 12 08	704 0.1−	1.7−	2000 03 12	704 0.4+	0.9+			
1998 08 30	699 0.4−	0.1−	1998 12 08	704 1.5+	0.0	2000 03 12	704 1.2+	0.6+			
1998 08 30	699 0.1−	0.2+	1998 12 08	704 0.1−	0.5−						
1998 09 14	704 0.0	0.8+	2000 02 10	120 0.3−	1.1+						

1998 QL₅₁ = 1999 VW₁₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 188.23367 (2000.0)			Williams			<i>P</i>			<i>Q</i>		
<i>n</i>	0.21155611	ω	309.46842	−0.02588263	+0.99905444						
<i>a</i>	2.7894527	Ω	319.00727	−0.90004576	−0.03849603						
<i>e</i>	0.0617789	<i>i</i>	3.05269	−0.43502611	+0.02020576						
<i>P</i>	4.66	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 4						
Residuals in seconds of arc											
1996 02 15	566 1.0+	0.9+	1998 09 14	704 0.6−	0.4+	1999 11 16	704 0.7+	0.0			
1996 02 15	566 0.1+	1.1+	1998 09 14	704 0.8+	1.1−	1999 11 16	704 0.1+	0.1−			
1996 02 15	566 0.3+	1.4+	1998 09 14	704 0.2+	0.2+	1999 11 16	704 0.8+	0.6+			
1998 08 17	704 0.1+	0.3+	1998 09 18	704 0.6−	1.6−	1999 11 16	704 0.5+	0.6+			
1998 08 17	704 (0.1+	5.1+)	1998 09 18	704 0.4+	0.7+	1999 11 16	704 1.0+	0.3+			
1998 08 17	704 0.3−	1.4+	1998 09 18	704 1.3+	0.6+	2000 01 04	704 (2.7−	0.1−)			
1998 08 17	704 1.4−	1.1+	1998 09 18	704 0.2+	0.6−	2000 01 04	704 0.9−	1.1−			
1998 08 23	704 0.5+	1.5−	1998 09 18	704 1.2−	1.7+	2000 01 04	704 0.1−	0.7−			
1998 08 23	704 1.1−	0.4+	1999 11 14	704 0.3−	0.7+	2000 01 04	704 0.3−	1.2−			
1998 08 23	704 (2.4−	1.0+)	1999 11 14	704 0.2−	0.3−	2000 01 04	704 0.4−	0.9−			
1998 09 14	704 0.4+	0.4+	1999 11 14	704 0.5−	0.2+						

1998 QQ₅₁ = 2000 CK₃₆

Id. M. E. Sansaturio, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 87.52570 (2000.0)			Williams			<i>P</i>			<i>Q</i>		
<i>n</i>	0.26261509	ω	107.27718	+0.55287374	−0.82983861						
<i>a</i>	2.4150322	Ω	308.91708	+0.72291408	+0.52273707						
<i>e</i>	0.1245645	<i>i</i>	5.56771	+0.41439820	+0.19522766						
<i>P</i>	3.75	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 3						
Residuals in seconds of arc											
1998 08 17	704 0.2+	0.4−	1998 09 16	699 0.2+	0.3+	2000 02 05	704 0.1−	0.5+			
1998 08 17	704 0.5−	0.3−	1998 09 16	699 0.5−	0.0	2000 02 05	704 0.4+	0.7−			
1998 08 17	704 0.0	0.8−	1998 09 18	704 0.6−	0.7−	2000 02 05	704 0.3+	0.2+			
1998 08 17	704 1.2+	0.6+	1998 09 18	704 0.7−	0.3+	2000 02 06	704 0.1+	0.1−			
1998 08 17	704 0.3−	0.0	1998 09 18	704 0.4−	0.1−	2000 02 06	704 0.1+	0.3+			
1998 08 23	704 1.8+	1.4+	1998 09 18	704 1.2−	0.4+	2000 02 06	704 0.2−	0.0			
1998 08 23	704 (0.4+	2.4+)	1998 09 18	704 0.1+	0.7+	2000 02 06	704 0.3−	0.4+			
1998 08 23	704 0.4−	1.0+	1998 09 25	699 0.4+	0.0	2000 02 12	704 (0.8−	2.1+)			
1998 08 23	704 1.4−	1.0−	1998 09 25	699 0.3−	0.1+	2000 02 12	704 0.6+	0.3+			
1998 08 30	699 0.5−	0.4+	1998 09 25	699 0.5−	0.9−	2000 02 12	704 (1.2+	2.3−)			
1998 08 30	699 0.4+	0.4+	1998 09 27	699 0.7+	0.1−	2000 03 01	704 0.2+	0.5+			
1998 08 30	699 0.0	1.2−	1998 09 27	699 0.6+	0.8−	2000 03 01	704 0.5+	0.1−			
1998 09 14	704 0.2+	0.3+	1998 09 27	699 0.6+	0.1−	2000 03 01	704 0.1−	0.5−			
1998 09 14	704 0.1+	0.5+	2000 02 02	704 0.3−	0.3+	2000 03 13	704 0.1+	0.2+			
1998 09 14	704 0.3+	0.4+	2000 02 02	704 0.0	0.0	2000 03 13	704 0.4−	0.3+			
1998 09 14	704 0.2−	0.1+	2000 02 02	704 1.0−	0.4−	2000 03 13	704 0.4+	0.4−			
1998 09 16	699 0.6+	0.2−	2000 02 02	704 0.0	0.4−	2000 03 13	704 0.0	0.1−			

1998 QH₅₃ = 2000 DY₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 117.81588 (2000.0)			Williams			<i>P</i>			<i>Q</i>		
<i>n</i>	0.23417394	ω	78.14093	+0.96303736	−0.26361774						
<i>a</i>	2.6068158	Ω	297.12287	+0.21653327	+0.87986590						
<i>e</i>	0.3101200	<i>i</i>	3.56611	+0.16022608	+0.39540066						
<i>P</i>	4.21	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 3						
Residuals in seconds of arc											
1998 08 20	699 (5.8−	5.7+)	1998 09 17	699 0.1+	0.4+	1998 10 29	704 0.0	0.8−			</

1998 08 28	704	1.9−	0.1+	1998 09 25	699	0.1−	1.0+	1998 12 09	704	0.3+	0.1−
1998 08 28	704	1.8+	1.5+	1998 09 25	699	0.2+	0.8+	1998 12 09	704	0.7−	1.5+
1998 08 28	704	(0.5+)	3.1+)	1998 10 18	699	0.5+	0.2−	2000 02 29	704	0.6+	1.0+
1998 08 28	699	0.2−	0.5−	1998 10 18	699	0.5+	0.1+	2000 02 29	704	0.6+	0.1+
1998 08 28	699	0.7−	0.6+	1998 10 18	699	0.4+	0.2−	2000 02 29	704	0.1−	1.1−
1998 08 28	699	0.9−	0.2+	1998 10 28	704	0.5+	1.3−	2000 03 03	704	0.7+	1.7+
1998 09 14	704	0.2+	0.3−	1998 10 28	704	(2.2+)	0.3−	2000 03 03	704	0.6+	0.9+
1998 09 14	704	0.1−	0.2−	1998 10 28	704	(2.3+)	1.6−	2000 03 03	704	0.8−	0.9+
1998 09 14	704	1.9−	0.0	1998 10 28	704	0.7+	0.6−	2000 03 03	704	0.0	0.3−
1998 09 17	699	0.0	0.7+	1998 10 28	704	0.0	1.3−				
1998 09 17	699	0.4+	0.4+	1998 10 29	704	0.4+	0.4−				

1998 QF₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	145.46496	(2000.0)	
<i>n</i>	0.29204973	ω	165.84691
<i>a</i>	2.2499084	Ω	209.00354
<i>e</i>	0.1197048	<i>i</i>	6.18229
<i>P</i>	3.37	<i>H</i>	15.4

Residuals in seconds of arc

1998 03 07	413	0.3−	0.5−	1998 09 18	704	0.9−	0.4+	1998 10 28	704	0.7+	0.6−
1983 03 07	413	0.2+	0.0	1998 09 18	704	0.2+	0.5−	1998 10 28	704	1.1−	0.5−
1992 12 21	675	0.2−	0.2+	1998 09 18	704	1.0−	1.3+	1998 10 28	704	0.1+	0.8+
1992 12 21	675	0.3+	0.6+	1998 09 18	704	0.7−	1.3−	1998 10 28	704	0.9−	0.8+
1998 08 27	699	0.3−	0.1−	1998 09 26	704	0.2−	0.1−	1998 10 29	704	0.3−	0.2+
1998 08 27	699	0.1+	0.2−	1998 09 26	704	0.2+	0.6−	1998 10 29	704	1.2+	0.5+
1998 08 27	699	0.8−	0.3+	1998 09 26	704	0.0	1.1−	1998 10 29	704	0.8−	0.7−
1998 08 28	699	0.2+	0.1+	1998 09 26	704	0.0	0.6−	1998 10 29	704	1.2+	0.8+
1998 08 28	699	0.4+	0.1−	1998 09 26	704	0.2+	1.0−	1998 11 11	699	0.0	0.0
1998 08 28	699	0.8−	0.2−	1998 09 27	704	0.7−	0.7−	1998 11 11	699	0.5−	0.2+
1998 09 14	704	0.2+	0.2+	1998 09 27	704	0.5+	0.7−	1998 11 11	699	0.7−	0.3+
1998 09 14	704	0.6+	0.2−	1998 09 27	704	2.0+	0.5+	1998 12 08	704	1.3+	0.4+
1998 09 14	704	0.6+	0.2+	1998 09 27	704	0.4−	0.6−	1998 12 08	704	0.7−	1.9−
1998 09 15	699	0.3+	0.7+	1998 10 14	699	0.2−	1.0+	1998 12 08	704	0.4+	1.2−
1998 09 15	699	0.2+	0.9+	1998 10 14	699	0.4+	0.1+	1998 12 08	704	(3.1−)	0.6−
1998 09 15	699	0.6+	0.7+	1998 10 14	699	0.8−	0.6+				
1998 09 18	704	0.5+	0.0	1998 10 28	704	0.2−	0.9+				

1998 QS₅₄ = 2000 EO₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	140.59270	(2000.0)	
<i>n</i>	0.27762915	ω	55.59053
<i>a</i>	2.3271587	Ω	316.12313
<i>e</i>	0.2519698	<i>i</i>	4.71319
<i>P</i>	3.55	<i>H</i>	14.8

Residuals in seconds of arc

1998 08 27	699	0.4−	0.1−	1998 09 27	704	0.5+	0.9+	2000 03 03	704	0.2+	0.1+
1998 08 27	699	0.1+	0.6−	1998 09 27	704	0.3+	0.2+	2000 03 03	704	0.1−	0.4+
1998 08 27	699	0.4−	0.4+	1998 09 27	704	1.0−	0.2+	2000 03 03	704	1.3+	0.4+
1998 08 28	699	0.2−	0.5+	1998 09 27	704	0.1+	0.0	2000 03 03	704	0.3+	0.2+
1998 08 28	699	0.6−	0.6+	1998 11 20	704	0.7−	0.4+	2000 03 03	704	0.1+	0.1+
1998 08 28	699	0.3−	0.9+	1998 11 20	704	1.4+	1.1−	2000 03 09	704	0.6−	0.7−
1998 09 26	704	0.9+	0.3+	1998 11 20	704	0.2+	1.6−	2000 03 09	704	0.2+	0.9+
1998 09 26	704	0.1−	0.9−	1998 11 20	704	(1.9+)	2.6−	2000 03 09	704	0.6+	0.6+
1998 09 26	704	0.1+	0.5−	1998 12 09	704	1.1−	0.6+	2000 03 09	704	0.2+	0.8+
1998 09 26	704	0.1−	0.2+	1998 12 09	704	0.1−	1.4+	2000 03 09	704	0.3−	0.9+
1998 09 26	704	0.4−	0.1+	1998 12 09	704	1.0−	1.3+				
1998 09 27	704	0.2+	0.3−	1998 12 09	704	1.2+	1.6−				

1998 QV₅₅ = 2000 EA₈₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	85.45155	(2000.0)	
<i>n</i>	0.23862927	ω	68.19865
<i>a</i>	2.5742669	Ω	349.22191
<i>e</i>	0.2678890	<i>i</i>	3.24959
<i>P</i>	4.13	<i>H</i>	14.7

Residuals in seconds of arc

1998 08 23	704	0.7+	0.5−	1998 09 14	704	0.6+	1.4−	2000 03 04	688	0.1+	0.1+
1998 08 23	704	1.4−	1.0+	1998 09 18	704	0.2−	0.2+	2000 03 04	688	0.0	0.3+
1998 08 23	704	1.6+	1.7−	1998 09 18	704	0.9+	0.2−	2000 03 08	704	1.0+	1.8+
1998 08 23	704	0.1−	0.1−	1998 09 18	704	0.9+	0.3+	2000 03 08	704	(0.4+)	2.9+)
1998 08 23	704	(2.5−)	1.5+)	1998 09 18	704	0.3−	0.1+	2000 03 08	704	0.4+	1.3+
1998 08 26	120	0.3−	0.4−	1998 09 18	704	0.6+	0.1−	2000 03 08	704	(0.9−)	2.6+)
1998 08 26	120	0.9−	0.6+	1998 09 23	120	0.3−	0.0	2000 03 08	704	0.5+	0.0
1998 08 26	120	1.1−	0.8+	1998 09 23	120	0.0	0.3+	2000 03 11	704	0.4−	0.1−
1998 08 30	120	1.6+	0.0	1998 09 23	120	0.2+	0.1−	2000 03 11	704	1.0−	0.5−
1998 08 30	120	0.4+	1.1+	1998 09 24	120	(4.0−)	1.3+)	2000 03 11	704	0.6−	0.6−
1998 09 01	691	0.3−	0.0	1998 09 24	120	(2.5−)	0.6−	2000 03 11	704	0.7−	0.9−
1998 09 01	691	0.4−	0.1+	1998 09 24	120	(2.6−)	0.2−	2000 03 11	704	0.9−	0.5−
1998 09 01	691	0.0	0.2+	1998 09 29	120	(1.3−)	5.4−	2000 03 14	703	0.3+	1.0−
1998 09 14	704	0.0	0.3−	1998 09 29	120	0.4−	0.9+	2000 03 14	703	0.7+	0.7+
1998 09 14	704	0.0	0.6+	1998 09 29	120	0.3−	0.2+	2000 03 14	703	0.5+	0.8+
1998 09 14	704	0.5−	0.1+	1998 09 29	120	1.2−	0.8−	2000 03 14	703	0.4+	0.5−

1998 QC₅₆ = 2000 EL₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	100.82682	(2000.0)	
<i>n</i>	0.23081063	ω	46.97345
<i>a</i>	2.6320785	Ω	2.04144
<i>e</i>	0.3053067	<i>i</i>	31.82056
<i>P</i>	4.27	<i>H</i>	14.5

Residuals in seconds of arc

1998 08 28	704	0.1+	0.2+	1998 09 18	704	0.3+	1.3+	2000 02 26	691	1.0−	0.3−
1998 08 28	704	1.5+	1.2−	1998 09 18	704	0.4−	0.8+	2000 02 26	691	0.8−	0.1−
1998 08 28	704	0.8−	0.9−	1998 09 18	704	0.4−	0.2−	2000 02 26	691	0.7−	0.1−
1998 08 28	704	0.7−	0.4−	1998 09 18	704	0.4+	0.3−	2000 03 08	691	0.6−	0.6−
1998 08 28	704	1.3−	0.5−	1998 09 18	704	0.4+	0.2+	2000 03 08	691	0.4−	0.6−
1998 08 31	704	1.9+	0.7−	1998 10 02	704	0.7−	0.7+	2000 03 08	691	0.6−	0.5−
1998 08 31	704	(2.4+)	0.2−	1998 10 02	704	0.3−	1.2−	2000 03 09	691	0.8−	0.5−
1998 08 31	704	1.1−	0.1−	1998 10 02	704	0.6−	0.7−	2000 03 09	691	0.9−	0.5−
1998 08 31	704	0.1−	1.0+	1998 10 02	704	0.1−	1.3−	2000 03 09	691	0.8−	0.7−
1998 08 31	704	1.6−	0.4−	1998 10 02	704	0.4+	0.8−	2000 03 10	704	0.6+	0.2+
1998 09 06	120	1.2+	1.6+	1998 10 17	681	0.2+	0.4+	2000 03 10	704	0.1+	0.0
1998 09 06	120	0.3+	0.0	1998 10 17	681	0.3−	0.2−	2000 03 10	704	0.6+	0.1−
1998 09 06	120	0.0	1.0+	1998 10 17	681	0.4+	0.2+	2000 03 10	704	0.8+	0.8+
1998 09 14	704	0.0	0.1+	1998 10 18	704	(2.2−)	0.4−	2000 03 11	704	0.8+	0.4+
1998 09 14	704	0.9+	0.2+	1998 10 18	704	0.6−	0.3−	2000 03 11	704	0.7+	0.4+
1998 09 14	704	1.6+	0.9+	1998 10 18	704	0.8+	0.5−	2000 03 11	704	0.8+	0.5+
1998 09 17	699	0.2+	0.5+	1998 10 18	704	(2.8−)	0.3−	2000 03 11	704	0.4+	1.3+
1998 09 17	699	0.6+	0.2+	1998 10 20	681	1.0−	0.0	2000 03 11	704	1.0+	0.1+
1998 09 17	699	(2.2+)	0.0	1998 10 20	681	0.7−	0.1+				

1998 QG₅₆ = 2000 DX₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	127.15453	(2000.0)	
<i>n</i>	0.24236514	ω	28.91716
<i>a</i>	2.5477449	Ω	358.30209
<i>e</i>	0.2260712	<i>i</i>	16.97448
<i>P</i>	4.07	<i>H</i>	14.1

2000 MAR. 20

M.P.C. 39209

Residuals in seconds of arc

1998 08 28	704	1.5−	0.6+	1998 11 14	704	0.7−	0.6−	2000 03 02	703	0.3+	0.5−
1998 08 28	704	0.9−	0.6+	1998 11 16	704	0.2+	0.4−	2000 03 02	703	0.5+	0.1−
1998 08 28	704	0.6+	0.1+	1998 11 16	704	0.2−	0.7+	2000 03 05	608	0.5−	0.1+
1998 08 28	704	(2.8−	0.3−)	1998 11 16	704	0.0	0.1−	2000 03 05	608	0.2−	0.1−
1998 08 31	704	0.4−	0.6+	1998 11 16	704	0.1−	0.1+	2000 03 05	608	0.3−	0.5−
1998 08 31	704	0.5+	0.7+	1998 11 16	704	0.3+	0.2+	2000 03 11	699	0.6−	0.0
1998 08 31	704	1.0+	0.1+	1999 01 09	704	0.3+	0.3−	2000 03 11	699	0.2−	0.2+
1998 08 31	704	0.5+	0.6−	1999 01 09	704	1.1+	1.1−	2000 03 11	699	0.1−	0.2+
1998 08 31	704	0.0	0.7−	1999 01 09	704	0.5+	0.5−	2000 03 11	704	0.4+	0.3−
1998 11 01	699	0.2+	0.1+	1999 01 09	704	0.3+	1.1+	2000 03 11	699	0.1−	0.0
1998 11 01	699	0.6−	0.8+	2000 02 27	703	0.1+	0.8+	2000 03 11	704	0.5+	0.5+
1998 11 01	699	0.2−	0.8−	2000 02 27	703	0.4+	1.1+	2000 03 11	704	0.2−	0.6+
1998 11 14	704	0.1+	0.3+	2000 02 27	703	0.7+	0.3−	2000 03 11	704	0.4+	0.3+
1998 11 14	704	0.2−	0.3+	2000 02 27	703	0.9−	0.2−	2000 03 11	704	(3.0+	1.3+)
1998 11 14	704	0.0	0.3+	2000 03 02	703	0.5−	0.5−				
1998 11 14	704	0.2−	0.5−	2000 03 02	703	1.2+	0.2−				

1998 QF₅₉ = 2000 DN₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	58.48532	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.21829881	ω 78.44650	+0.27772439	−0.96064758	
<i>a</i>	2.7317134	Ω 355.41976	+0.85497070	+0.24955809	
<i>e</i>	0.2051248	<i>i</i> 3.61780	+0.43805737	+0.12197127	
<i>P</i>	4.51	<i>H</i> 15.6	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 08 26	691	0.7+	0.0	1998 09 23	691	0.2−	0.2−	2000 03 03	704	0.7+	1.0+
1998 08 26	691	0.4+	0.2+	1998 09 23	691	0.2−	0.2−	2000 03 03	704	0.6+	0.5+
1998 08 26	691	0.9+	0.0	2000 02 11	704	1.6−	0.3−	2000 03 03	704	0.0	0.2+
1998 08 31	691	0.0	0.3−	2000 02 11	704	0.3−	0.1−	2000 03 03	704	0.4−	0.1−
1998 08 31	691	0.0	0.3−	2000 02 11	704	0.0	0.1−	2000 03 05	704	0.2−	0.4−
1998 08 31	691	0.0	0.2−	2000 02 25	703	0.5+	0.7−	2000 03 05	704	0.0	0.0
1998 09 15	691	0.4−	0.2+	2000 02 25	703	0.6−	0.1+	2000 03 05	704	0.1+	0.8−
1998 09 15	691	0.5−	0.2−	2000 02 25	703	0.6−	0.2−	2000 03 05	704	0.2+	0.2+
1998 09 15	691	0.8−	0.3+	2000 02 25	703	0.3−	0.2−	2000 03 05	704	0.7−	0.2−
1998 09 21	691	0.4+	0.2+	2000 02 29	704	0.4+	0.9+	2000 03 06	704	0.8+	0.4−
1998 09 21	691	0.1−	0.2+	2000 02 29	704	0.6+	0.1−	2000 03 06	704	0.3+	0.6+
1998 09 21	691	0.0	0.2+	2000 02 29	704	0.1−	0.1−	2000 03 06	704	0.2+	0.4+
1998 09 23	691	0.2−	0.1+	2000 03 03	704	0.4+	0.2−				

1998 QG₆₃ = 2000 DV₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	189.37059	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.31140964	ω 309.48265	+0.78910323	+0.61376196	
<i>a</i>	2.1556654	Ω 12.71967	−0.52342153	+0.69294521	
<i>e</i>	0.0822893	<i>i</i> 6.45293	−0.32147470	+0.37831625	
<i>P</i>	3.16	<i>H</i> 15.6	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1998 08 24	428	0.8−	0.2+	1998 09 27	699	0.4−	0.7+	2000 02 11	704	1.1+	0.2−
1998 08 24	428	0.1−	0.4−	1998 09 28	428	0.4−	0.4−	2000 02 11	704	0.6+	1.3+
1998 08 25	428	0.4−	0.3−	1998 09 28	428	0.4+	0.3+	2000 02 11	704	0.7+	0.1−
1998 09 01	428	0.0	0.4+	1998 10 07	428	0.3−	0.0	2000 02 11	704	0.9+	0.4−
1998 09 01	428	0.4−	0.2+	1998 10 07	428	0.6+	0.3−	2000 02 28	704	0.4+	0.0
1998 09 01	428	0.5−	0.2+	1998 10 12	699	0.0	0.8−	2000 02 28	704	0.5−	0.3+
1998 09 01	428	0.1+	0.0	1998 10 12	699	0.6+	0.7+	2000 02 28	704	0.3−	0.0
1998 09 02	428	0.4−	0.2+	1998 10 12	699	0.2−	0.4+	2000 02 28	704	0.6−	0.2−
1998 09 02	428	0.4−	0.2+	2000 02 03	704	0.4+	0.5−	2000 03 04	704	0.4−	0.1−
1998 09 13	699	0.7+	0.6+	2000 02 03	704	0.1+	0.2−	2000 03 04	704	0.5+	0.1+
1998 09 13	699	0.8+	0.6+	2000 02 03	704	0.2−	0.2−	2000 03 04	704	0.1+	0.2−
1998 09 13	699	0.6+	0.1−	2000 02 03	704	0.0	0.4−	2000 03 04	704	0.9−	0.2+
1998 09 13	428	0.3+	0.5−	2000 02 03	704	0.1+	0.1+	2000 03 04	704	0.2−	0.3−
1998 09 13	428	0.3−	0.6−	2000 02 06	703	0.6−	0.4+	2000 03 05	704	0.3−	0.2+
1998 09 17	120	0.7−	1.1−	2000 02 06	703	0.8−	0.3+	2000 03 05	704	0.9−	0.1+
1998 09 17	120	(5.5−	0.9+)	2000 02 06	703	0.0	0.2−	2000 03 05	704	0.9+	0.3+

1998 09 27	699	0.8+	0.7+	2000 02 06	703	0.0	0.8−	2000 03 05	704	0.3−	0.1+
1998 09 27	699	0.4+	0.6−	2000 02 11	704	0.7+	0.6+	2000 03 05	704	0.4−	0.1+

1998 QL₇₀ = 2000 AJ₂₄₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	32.51545	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.17639213	ω 209.03314	+0.60343580	−0.78214875	
<i>a</i>	3.1488351	Ω 204.87925	+0.78416317	+0.61739859	
<i>e</i>	0.0945190	<i>i</i> 21.65811	+0.14475276	−0.08403763	
<i>P</i>	5.59	<i>H</i> 13.9	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1998 08 19	704	0.6−	0.4−	1998 09 19	704	0.3+	0.0	1999 12 03	704	0.1+	0.2+
1998 08 19	704	1.4+	0.6+	1998 09 19	704	(2.1−	2.1−)	1999 12 16	704	0.7−	0.2+
1998 08 19	704	0.4−	0.2+	1998 09 19	704	(1.2−	2.3−)	1999 12 16	704	0.4−	0.2−
1998 08 19	704	(0.7−	2.5−)	1998 09 23	704	0.5+	0.8+	1999 12 16	704	0.0	0.5+
1998 08 24	704	0.8−	1.4−	1998 09 23	704	0.7−	1.2+	2000 01 09	704	0.4−	0.2−
1998 08 24	704	0.7+	0.3+	1998 09 23	704	1.1+	0.1−	2000 01 09	704	0.6−	0.1+
1998 08 24	704	0.8−	0.2+	1998 09 23	704	(0.2−	2.3+)	2000 01 09	704	0.2−	0.5−
1998 08 24	704	0.3−	0.6−	1999 11 07	704	0.4+	0.9−	2000 01 09	704	0.5−	1.2−
1998 08 24	704	0.3+	0.8+	1999 11 07	704	0.1−	0.6−	2000 01 09	704	0.7−	0.4−
1998 08 27	704	0.6+	0.8−	1999 11 07	704	0.2−	0.0	2000 01 10	699	1.5+	0.1−
1998 08 27	704	(2.2−	2.0+)	1999 11 07	704	0.5+	0.1+	2000 01 10	699	0.2+	0.5−
1998 08 27	704	0.7−	0.4+	1999 12 03	704	0.0	1.8+	2000 01 10	699	0.4+	1.0+
1998 09 19	704	0.7−	1.5−	1999 12 03	704	0.7+	0.2+				

1998 QP₇₃ = 2000 EC₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	111.52925	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.23424868	ω 91.91288	+0.97089503	−0.13018218	
<i>a</i>	2.6062613	Ω 275.60681	+0.03791411	+0.91233548	
<i>e</i>	0.1858017	<i>i</i> 11.65408	+0.23648545	+0.38819657	
<i>P</i>	4.21	<i>H</i> 14.9	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 08 24	704	0.1−	0.6+	1998 09 19	704	0.4+	0.2−	1998 09 23	704	0.8−	0.3−
1998 08 24	704	0.8−	1.1−	1998 09 19	704	0.4+	1.0−	1998 09 23	704	0.2−	1.8−
1998 08 24	704	0.1+	1.5+	1998 09 19	704	0.8−	0.2+	2000 02 06	704	1.1−	2.0+
1998 08 24	704	0.1+	0.7+	1998 09 19	699	0.2−	0.3−	2000 02 06	704	0.4+	0.4+
1998 08 24	704	1.7−	0.8+	1998 09 19	699	0.6+	1.5+	2000 02 06	704	0.7+	1.3−
1998 08 27	704	0.1−	0.4−	1998 09 19	699	0.0	1.0+	2000 03 06	704	1.3−	0.5−
1998 08 27	704	0.0	0.7−	1998 09 21	699	1.5+	0.5+	2000 03 06	704	0.4−	0.0
1998 08 27	704	0.6+	0.7+	1998 09 21	699	0.2−	0.3+	2000 03 06	704	0.4+	0.1−
1998 08 27	704	1.1+	0.6−	1998 09 21	699	1.2+	0.6+	2000 03 09	704	1.2+	0.3−
1998 08 27	704	0.4+	0.1−	1998 09 23	704	0.5+	0.2−	2000 03 09	704	0.5+	0.2−
1998 09 19	704	0.0	0.4−	1998 09 23	704	1.3−	0.1−	2000 03 09	704	0.6−	0.0
1998 09 19	704	0.7−	0.9−	1998 09 23	704	0.2−	0.1+	2000 03 09	704	0.5+	0.3+

1998 QZ₇₃ = 1999 VA₁₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	125.38743		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.18396202	ω	40.60992	+0.49227568	+0.85571738
a	3.0618502	Ω	259.43937	−0.83470482	+0.41214565
e	0.2736454	i	9.33226	−0.24684514	+0.31286377
P	5.36	H	13.5	G 0.15	U 3

1998 08 24	704	0.6−	1.0+	1998 10 18	699	0.4+	0.2+	1999 11 16	704	1.2−	0.9−
1998 08 24	704	0.6+	0.7+	1998 10 18	699	0.4+	0.1+	1999 12 07	704	0.4+	0.2−
1998 08 24	704	0.9−	0.3+	1998 11 19	699	0.4−	1.2+	1999 12 07	704	0.6+	0.2+
1998 08 27	704	0.6−	0.1−	1998 11 19	699	0.5−	0.8+	1999 12 07	704	0.0	0.5+
1998 08 27	704	0.1+	0.7+	1998 11 19	699	0.5−	1.2+	1999 12 07	704	0.6+	0.9+
1998 08 27	704	0.2+	0.4−	1999 11 03	704	0.3+	0.9−	1999 12 07	704	0.9−	0.8+
1998 08 27	704	0.4−	0.6−	1999 11 03	704	0.0	0.1−	2000 01 04	704	0.3−	0.1+
1998 08 27	704	0.1+	0.9−	1999 11 03	704	0.6+	0.5+	2000 01 04	704	(2.6−	1.0+)
1998 09 19	704	0.1−	1.0−	1999 11 03	704	0.7−	0.0	2000 01 04	704	0.7−	0.0
1998 09 19	704	0.3−	1.5−	1999 11 14	704	0.3+	0.2−	2000 01 04	704	0.6−	1.1+
1998 09 19	704	1.1+	0.6−	1999 11 14	704	0.2+	0.2+				

1998 QP₇₉ = 1998 TU₃₂ = 2000 AR₁₉₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	96.52825		(2000.0)	P	Q		
<i>n</i>	0.28594905	ω	196.08479	+0.83745484	−0.54482292		
<i>a</i>	2.2817967	Ω	197.13384	+0.51607911	+0.81419834		
<i>e</i>	0.1001944	<i>i</i>	8.36615	+0.17981028	+0.20062165		
<i>P</i>	3.45	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1997 03 11	809	0.2−	0.9−	1998 10 20	699	0.8+	0.3+	2000 01 11	704	0.2−	0.7−
1997 03 11	809	0.2−	0.9−	1998 10 20	699	0.1+	0.1−	2000 01 11	704	0.5−	0.1−
1997 03 11	809	0.2−	0.9−	1998 10 20	699	0.4−	0.1+	2000 01 11	704	0.3+	0.8−
1998 06 19	699	0.4−	0.1−	1999 11 06	703	0.5+	0.4+	2000 02 02	703	0.0	0.4+
1998 06 19	699	0.7−	0.1+	1999 11 06	703	0.3+	0.8−	2000 02 02	703	0.3−	0.2+
1998 06 19	699	0.7−	0.1+	1999 11 06	703	0.2−	1.1+	2000 02 02	703	0.4+	0.0
1998 08 24	704	0.6+	0.9−	1999 11 06	703	0.3−	0.0	2000 02 02	703	0.3+	0.5+
1998 08 24	704	0.1+	0.5−	1999 11 13	699	1.2+	0.9−	2000 02 06	704	0.1−	0.3+
1998 08 24	704	1.0+	0.2+	1999 11 13	699	1.0−	0.6−	2000 02 06	704	0.1+	0.2+
1998 08 24	704	0.1+	0.3−	1999 11 13	699	0.9+	0.4−	2000 02 06	704	0.1−	0.2+
1998 08 24	704	0.1+	0.8+	1999 12 14	704	0.1+	0.7+	2000 02 06	704	0.1+	0.1−
1998 08 27	704	0.1+	0.1−	1999 12 14	704	0.2−	0.7−	2000 02 06	704	0.2+	0.3+
1998 08 27	704	0.3+	0.7−	1999 12 14	704	0.1+	0.2+	2000 03 06	704	0.3+	0.7+
1998 08 27	704	1.6+	0.9−	1999 12 14	704	0.1+	0.0	2000 03 06	704	0.6+	1.0+
1998 08 27	704	0.5+	0.4−	1999 12 14	704	0.6−	0.8−	2000 03 06	704	0.4+	0.5+
1998 08 27	704	1.0−	0.6+	2000 01 08	704	0.1−	0.5−	2000 03 06	704	0.4+	1.0+
1998 09 22	699	0.6−	0.7+	2000 01 08	704	0.3+	0.5−	2000 03 06	704	1.5−	1.0+
1998 09 22	699	0.6−	1.2+	2000 01 08	704	0.2−	0.6−	2000 03 11	608	0.3−	0.3+
1998 09 22	699	0.5−	0.1+	2000 01 08	704	0.5+	0.9−	2000 03 11	608	0.3−	0.6+
1998 10 14	699	0.5−	0.9−	2000 01 08	704	0.2−	1.0−	2000 03 11	608	0.1−	0.7+
1998 10 14	699	0.5+	1.3−	2000 01 11	704	0.5−	0.7−				
1998 10 14	699	1.0−	0.9+	2000 01 11	704	0.2−	0.0				

1998 QE₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Gnädig			
<i>M</i>	120.43587		(2000.0)	P	Q		
<i>n</i>	0.24424826	ω	159.67428	+0.98775581	−0.08501693		
<i>a</i>	2.5346329	Ω	206.26976	+0.06694231	+0.98832640		
<i>e</i>	0.2323496	<i>i</i>	17.19019	+0.14091552	+0.12642406		
<i>P</i>	4.04	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 05 03	413	0.0	1.2−	1998 08 27	704	0.7+	0.6+	1998 10 12	704	0.4+	2.0+
1990 09 15	675	0.1−	0.0	1998 08 27	704	(2.2+	0.6+)	1998 10 12	704	(4.5−	0.3−)
1990 09 15	675	0.1+	0.6+	1998 09 19	704	0.0	0.2−	1998 10 16	699	0.2+	0.4+
1990 09 25	675	0.5−	0.8−	1998 09 19	704	0.9+	0.3−	1998 10 16	699	0.2−	0.2−
1990 09 25	675	0.6+	0.8−	1998 09 19	704	0.0	0.9−	1998 10 16	699	0.5−	0.3−
1998 08 24	704	0.9+	0.4+	1998 09 23	704	0.6−	0.3+	1998 11 25	699	0.7+	1.1−
1998 08 24	704	0.9−	0.2+	1998 09 23	704	0.2−	0.1−	1998 11 25	699	0.7−	1.1−
1998 08 24	704	0.2+	0.7−	1998 09 23	704	0.4+	0.3+	1998 11 25	699	0.3−	0.5−
1998 08 24	704	1.2−	0.2−	1998 09 23	704	0.6−	0.5+	1998 12 08	704	1.1−	0.2+
1998 08 24	704	0.7−	0.3−	1998 09 23	704	0.2+	0.3+	1998 12 08	704	(2.3−	3.8−)
1998 08 27	704	0.5−	0.2+	1998 10 12	704	0.8+	0.1+	1998 12 08	704	(2.7−	3.2−)

1998 08 27	704	0.1+	0.2+	1998 10 12	704	0.6+	0.0
1998 08 27	704	0.1+	0.3−	1998 10 12	704	0.5+	0.1−

1998 QX₈₆ = 2000 CJ₅₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	57.27043		(2000.0)	P	Q		
<i>n</i>	0.18190809	ω	163.32637	+0.66552669	−0.70867016		
<i>a</i>	3.0848546	Ω	244.26477	+0.65167993	+0.70471791		
<i>e</i>	0.1648582	<i>i</i>	15.07093	+0.36385093	+0.03404799		
<i>P</i>	5.42	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 18	566	0.1+	0.2+	1998 09 23	704	0.2−	1.4−	1999 12 14	704	0.7+	0.8−
1998 08 18	566	0.3−	0.7+	1998 09 23	704	0.4+	1.9−	2000 01 08	704	0.2−	0.4+
1998 08 18	566	0.6−	0.6+	1998 09 23	704	0.1+	1.7−	2000 01 08	704	0.3−	0.5+
1998 08 19	704	0.5+	0.5−	1998 09 23	704	0.1+	1.2−	2000 01 08	704	0.2+	0.2+
1998 08 19	704	0.9−	0.5+	1998 10 10	699	0.3+	0.6+	2000 01 10	704	(2.8−	0.3+)
1998 08 19	704	0.2+	0.1−	1998 10 10	699	0.0	0.6+	2000 01 10	704	0.3−	0.1+
1998 08 19	704	1.2+	1.2+	1998 10 10	699	0.4+	1.2+	2000 01 10	704	0.2+	0.5−
1998 08 19	704	(2.7−	1.0−)	1998 12 09	704	0.1−	0.4−	2000 01 10	704	0.1−	0.0
1998 08 24	704	0.2+	0.1−	1998 12 09	704	0.4−	0.6+	2000 01 10	704	0.2+	1.0+
1998 08 24	704	0.6−	1.3+	1998 12 09	704	0.5+	1.6+	2000 01 11	704	0.1−	0.2+
1998 08 24	704	1.3+	1.2+	1998 12 09	704	0.8+	0.7+	2000 01 11	704	0.2−	0.5+
1998 08 24	704	0.3+	0.8−	1998 12 09	704	(5.0−	2.3+)	2000 01 11	704	(2.5+	2.2+)
1998 08 24	704	0.7−	1.0−	1999 10 20	704	0.5+	0.8−	2000 01 11	704	1.4−	0.2−
1998 08 27	704	0.4−	0.9+	1999 10 20	704	0.2+	1.3+	2000 01 11	704	0.3−	0.0
1998 08 27	704	1.0+	1.0+	1999 10 20	704	0.4+	0.1+	2000 02 05	704	0.5−	0.5+
1998 08 27	704	0.4−	1.3+	1999 10 20	704	1.2−	0.2+	2000 02 05	704	1.6+	0.0
1998 08 27	704	0.4−	0.9−	1999 12 05	704	0.0	0.6+	2000 02 05	704	0.3−	0.4−
1998 08 27	704	0.7+	1.5−	1999 12 05	704	1.2+	0.8−	2000 02 05	704	0.1−	0.2−
1998 09 19	704	0.6−	0.3+	1999 12 05	704	0.1−	0.3−	2000 02 05	704	0.8+	1.3−
1998 09 19	704	0.0	0.1+	1999 12 05	704	0.6+	0.4−	2000 02 06	704	0.4−	0.7−
1998 09 19	704	0.3+	0.2−	1999 12 05	704	0.8+	0.9−	2000 02 06	704	0.7−	0.6+
1998 09 19	704	0.2−	0.7−	1999 12 14	704	1.6−	1.1+	2000 02 06	704	0.4+	0.1−
1998 09 19	704	1.9−	1.4−	1999 12 14	704	0.3+	0.0				

1998 QF₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	149.12046		(2000.0)	P	Q		
<i>n</i>	0.22254079	ω	291.56359	+0.70293807	+0.70549700		
<i>a</i>	2.6968884	Ω	23.86903	−0.54162492	+0.61324279		
<i>e</i>	0.2039875	<i>i</i>	12.89291	−0.46099949	+0.35525662		
<i>P</i>	4.43	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1989 10 28	413	0.1−	1.2+	1998 09 18	704	0.1−	1.6−	1998 12 08	699	0.3−	0.5−
1989 10 28	413	0.4−	0.7−	1998 09 18	704	0.0	1.1+	1998 12 08	699	0.2+	1.1+
1996 04 16	675	0.3+	1.1−	1998 09 26	704	0.7+	0.3+	1998 12 09	704	(3.9+	2.8−)
1996 04 16	675	(0.7+	2.3−)	1998 09 26	704	0.4−	0.7−	1998 12 09	704	0.9−	0.4+
1998 08 28	704	0.9+	0.2+	1998 09 26	704	0.5+	0.8−	1998 12 09	704	0.0	1.0−
1998 08 28	704	1.1−	0.2−	1998 09 26	704	0.6+	0.3−	1998 12 09	704	0.5+	0.5−
1998 08 28	704	1.5+	0.8−	1998 09 26	704	0.0	0.3−	1998 12 09	704	2.0+	1.1−
1998 08 28	704	0.5−	0.4+	1998 09 27	704	0.3−	0.2−	1999 12 13	704	1.3+	0.8+
1998 08 28	704	(2.7−	1.5−)	1998 09 27	704	0.7−	0.4−	1999 12 13	704	0.0	0.4+
1998 08 31	704	(0.8+	2.2−)	1998 09 27	704	0.6−	0.1+	1999 12 13	704	0.8−	0.4+
1998 08 31	704	(1.4+	2.9−)	1998 09 27	704	0.5−	0.6+	1999 12 13	704	1.6−	0.4−
1998 08 31	704	(1.7+	2.9−)	1998 09 27	704	1.4−	0.4−	1999 12 13	704	0.8−	0.0
1998 08 31	704	(0.9+	3.5−)	1998 10 17	699	0.1−	0.7+	2000 01 27	704	0.1−	1.1+
1998 09 14	704	0.0	0.3−	1998 10 17	699	0.3+	0.6+	2000 01 27	704	0.5+	0.9+
1998 09 14	704	0.2−	0.1−	1998 10 17	699	0.1+	0.4+	2000 01 27	704	0.2+	1.2−
1998 09 14	704	0.2−	0.6+	1998 11 21	691	0.9+	0.8+	2000 01 27	704	0.5−	0.6−
1998 09 18	704	0.1−	0.2+	1998 11 21	691	0.9+	0.2+	2000 01 27	704	1.2+	0.1−
1998 09 18	704	0.1−	0.1+	1998 11 21	691	0.6+	0.4+				
1998 09 18	704	0.6−	0.0	1998 12 08	699	0.3+	0.5+				

2000 MAR. 20

M.P.C. 39211

1998 QF₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	252.22972		(2000.0)	P	Q
<i>n</i>	0.36514288	ω	283.08983	+0.56374025	+0.81282874
<i>a</i>	1.9386266	Ω	23.16390	-0.53618840	+0.49520570
<i>e</i>	0.0773002	<i>i</i>	21.88917	-0.62825069	+0.30672586
<i>P</i>	2.70	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1976 05 01	413	1.3+	0.8-	1998 09 21	809	(0.5+	2.4+)	1998 10 29	704	0.1+	0.7-
1976 05 01	413	0.2-	1.4-	1998 09 26	704	0.0	0.6-	1998 10 29	704	0.6+	0.2-
1976 05 05	413	0.6-	0.9+	1998 09 26	704	0.0	0.1-	1998 10 29	704	0.4+	0.8-
1976 05 05	413	0.5-	1.1+	1998 09 26	704	0.8-	0.4-	1998 10 29	704	0.8+	0.5-
1998 08 28	704	0.7-	1.3-	1998 09 26	704	0.1-	0.0	1998 10 29	704	1.4+	1.2-
1998 08 28	704	0.1+	0.4-	1998 09 26	704	0.1-	0.0	1998 11 10	704	0.4+	0.5-
1998 08 28	704	1.9-	1.7-	1998 10 14	704	0.0	0.9+	1998 11 10	704	0.1+	0.1+
1998 08 31	704	0.6+	0.0	1998 10 14	704	0.7-	1.2+	1998 11 10	704	1.4+	0.1-
1998 08 31	704	1.0+	0.0	1998 10 14	704	0.2-	1.1+	1998 11 10	704	(0.1+	2.5+)
1998 08 31	704	0.3-	1.4-	1998 10 14	704	0.7-	0.9+	1998 11 17	699	0.3+	0.0
1998 08 31	704	1.8-	1.7+	1998 10 14	704	0.9-	0.9+	1998 11 17	699	0.1-	0.2+
1998 08 31	704	1.1-	0.4+	1998 10 15	704	0.6-	0.2+	1998 11 17	699	0.9-	0.6+
1998 09 18	699	0.0	0.9+	1998 10 15	704	0.4-	0.6+	1998 12 09	704	1.2-	0.6-
1998 09 18	699	0.8+	0.2+	1998 10 15	704	0.2+	0.7+	1998 12 09	704	0.1-	0.3-
1998 09 18	699	0.0	0.2+	1998 10 15	704	0.4-	0.7+	1998 12 09	704	0.6-	0.0
1998 09 20	809	(1.2+	3.6+)	1998 10 15	704	0.4+	0.4-	1998 12 09	704	0.0	1.4+
1998 09 20	809	(0.9+	2.8+)	1998 10 28	704	0.3+	0.5-	1998 12 09	704	0.8-	0.6+
1998 09 20	809	(0.5+	3.2+)	1998 10 28	704	0.5+	0.9-	2000 02 08	704	0.3-	0.3+
1998 09 21	809	(0.4+	3.0+)	1998 10 28	704	1.9+	0.4-	2000 02 08	704	0.6+	0.1+
1998 09 21	809	(0.1+	3.1+)	1998 10 28	704	0.5+	0.3-	2000 02 08	704	0.6+	0.8+

1998 QY₉₃ = 1997 EP₃₈ = 1999 XG₁₂₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	220.30922		(2000.0)	P	Q
<i>n</i>	0.26844691	ω	273.14897	-0.51168257	+0.85904589
<i>a</i>	2.3799277	Ω	326.06187	-0.77732128	-0.47023781
<i>e</i>	0.1694199	<i>i</i>	1.52618	-0.36599532	-0.20227841
<i>P</i>	3.67	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 03 05	704	1.0+	1.6+	1998 08 17	704	0.2-	0.1+	1999 12 07	704	0.7-	0.3+
1997 03 05	704	0.3-	0.0	1998 08 17	704	0.4+	0.0	1999 12 07	704	0.1+	0.3+
1997 03 06	704	0.9-	0.4-	1998 08 23	699	0.3-	0.6+	1999 12 07	704	0.1-	0.3-
1997 03 06	704	0.6+	0.0	1998 08 23	704	0.5-	1.8+	1999 12 13	704	0.4+	0.3-
1998 07 26	809	1.5+	0.4-	1998 08 23	699	0.4-	0.5+	1999 12 13	704	1.0+	0.2-
1998 07 26	809	0.3+	0.6-	1998 08 23	704	1.0+	0.1+	1999 12 13	704	0.2-	0.1-
1998 07 26	809	0.3+	0.3-	1998 08 23	704	1.1-	0.5-	1999 12 13	704	0.5-	0.9-
1998 08 17	704	0.6-	1.1+	1998 08 23	699	1.3-	0.4+	1999 12 13	704	0.3+	0.3+
1998 08 17	704	0.5+	1.7-	1999 12 07	704	0.3-	0.4+				

1998 QX₉₈ = 1994 LY₅ = 2000 AT₂₃₉

Id. M. E. Sansaturio, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	174.03465		(2000.0)	P	Q
<i>n</i>	0.27352371	ω	214.70851	+0.61469348	+0.78675243
<i>a</i>	2.3503871	Ω	93.28694	-0.71029986	+0.58318061
<i>e</i>	0.2125376	<i>i</i>	3.23424	-0.34296652	+0.20228936
<i>P</i>	3.60	<i>H</i>	16.3	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1994 06 03	809	1.8-	0.8+	1998 08 26	809	(2.2+	0.1-)	1998 09 27	704	1.3-	1.4+
1994 06 03	809	0.3+	0.6+	1998 08 27	809	0.0	0.4-	1998 09 27	704	0.8+	1.1-
1994 06 03	809	0.5+	0.3+	1998 08 27	809	0.1+	0.7-	1998 09 27	704	(1.3-	2.6+)
1994 06 04	809	0.4+	1.2-	1998 08 27	809	1.2-	1.0-	2000 01 06	691	0.4+	0.0
1994 06 04	809	0.5-	0.3-	1998 09 26	704	0.2+	0.7-	2000 01 06	691	0.1+	0.2-

1994 06 04	809	0.8+	1.2-	1998 09 26	704	(3.0+	1.3-)	2000 01 06	691	0.0	0.2-
1998 06 19	696	0.0	0.5+	1998 09 26	704	(1.0+	2.6+)	2000 01 11	691	0.4-	0.2-
1998 06 19	696	0.2-	0.6+	1998 09 26	704	0.6+	1.2+	2000 01 11	691	0.4-	0.2-
1998 06 19	696	0.1-	0.6+	1998 09 26	704	0.4-	0.7+	2000 01 11	691	0.1+	0.7-
1998 08 26	809	(3.2+	0.5-)	1998 09 27	704	0.4+	0.0				
1998 08 26	809	2.0+	1.1-	1998 09 27	704	0.5-	0.0				

1998 QF₉₉ = 2000 EK₇₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	44.01932		(2000.0)	P	Q
<i>n</i>	0.29580432	ω	71.03803	-0.32879234	-0.94344224
<i>a</i>	2.2308295	Ω	38.24158	+0.83854121	-0.31237702
<i>e</i>	0.0395450	<i>i</i>	3.94375	+0.43444704	-0.11107356
<i>P</i>	3.33	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 26	809	(1.4+	2.1-)	1998 09 27	704	0.9+	0.5+	2000 02 11	704	0.5+	0.7+
1998 08 26	809	1.8+	1.3-	1998 09 27	704	0.9+	0.1+	2000 02 25	703	0.3-	0.2-
1998 08 26	809	1.7+	0.1-	1998 09 27	704	0.4+	0.4-	2000 02 25	703	0.6-	0.4+
1998 08 27	809	0.6+	0.8-	1998 09 27	704	0.3-	0.8-	2000 02 25	703	0.6-	0.3-
1998 08 27	809	1.3+	0.7-	1998 09 27	699	0.6+	1.2+	2000 02 25	703	0.5-	0.1-
1998 08 27	809	1.5+	0.5-	1998 09 27	704	0.9-	0.8-	2000 03 05	704	0.3+	0.6-
1998 09 18	704	0.8+	0.3+	1998 09 27	699	0.3-	1.4+	2000 03 05	704	0.8+	0.3+
1998 09 18	704	0.5-	0.3-	1998 09 27	699	0.4+	0.3-	2000 03 05	704	1.2+	0.6+
1998 09 18	704	0.0	0.7-	2000 02 01	703	0.7-	0.6+	2000 03 05	704	0.7+	0.1+
1998 09 18	704	(1.4+	2.1+)	2000 02 01	703	0.4-	0.2+	2000 03 05	704	0.9+	0.3+
1998 09 18	704	(4.1-	0.2+)	2000 02 01	703	1.1-	0.2-	2000 03 11	699	0.0	0.5-
1998 09 19	428	0.4-	0.4+	2000 02 01	703	0.1-	0.3+	2000 03 11	699	0.7+	0.9-
1998 09 19	428	1.4-	0.5+	2000 02 04	704	0.6-	0.1+	2000 03 11	699	0.2+	0.4-
1998 09 20	428	0.1-	1.0+	2000 02 04	704	1.2-	1.0-	2000 03 11	699	0.9+	0.5-
1998 09 22	428	0.6-	0.5-	2000 02 04	704	0.6-	0.4+	2000 03 12	704	0.5+	0.9-
1998 09 22	428	1.8-	0.7-	2000 02 04	704	0.9-	0.3+	2000 03 12	704	0.1+	0.9-
1998 09 26	704	0.8+	0.7-	2000 02 04	704	0.4-	1.2+	2000 03 12	704	0.2+	0.0
1998 09 26	704	(2.6-	1.1-)	2000 02 11	704	0.8+	0.3+	2000 03 12	704	0.3-	0.6-
1998 09 26	704	1.7-	0.1-	2000 02 11	704	0.3+	0.0	2000 03 12	704	0.4-	0.5-
1998 09 26	704	0.3-	0.1-	2000 02 11	704	0.8-	0.5+				
1998 09 26	704	2.0-	0.9+	2000 02 11	704	0.1-	0.8-				

1998 QZ₉₉ = 1979 WN₁

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	119.00084		(2000.0)	P	Q
<i>n</i>	0.25697433	ω	322.29087	+0.95431751	-0.29477258
<i>a</i>	2.4502452	Ω	54.92229	+0.28660923	+0.85685635
<i>e</i>	0.1669265	<i>i</i>	3.42275	+0.08445854	+0.42297320
<i>P</i>	3.84	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1979 11 16	095	0.6-	1.5+	1998 09 18	704	0.6-	0.5+	1998 10 12	699	0.3-	1.2+
1995 11 30	675	0.2+	0.7+	1998 09 18	704	0.4-	0.1+	1998 10 12	699	0.3+	0.6+
1995 11 30	675	0.8-	0.1-	1998 09 18	704	0.2+	0.6+	1998 12 08	704	(1.5+	2.2-)
1996 04 08	675	0.2-	0.7-	1998 09 18	704	0.7-	0.6+	1998 12 08	704	1.3-	1.5-
1996 04 08	675	0.4+	0.9-	1998 09 18	704	0.6-	0.3-	1998 12 08	704	0.2+	0.4-
1997 04 11	704	(0.1+	2.2-)	1998 09 26	704	0.2+	0.9-	1998 12 08	704	0.5-	2.0+
1997 04 11	704	0.7-	0.5-	1998 09 26	704	0.1-	0.3+	2000 02 03	704	1.1+	1.0+
1997 04 30	704	0.5+	0.1+	1998 09 26	704	0.0	0.8-	2000 02 03	704	1.0+	0.3-
1997 04 30	704	0.9+	0.5+	1998 09 26	704	1.0+	1.3-	2000 02 03	704	0.7-	0.8+
1997 04 30	704	0.9+	1.7+	1998 09 26	704	0.4+	1.8-	2000 02 03	704	0.7-	0.1+
1997 04 30	704	(0.3+	2.0+)	1998 09 27	704	0.1+	0.3+	2000 02 11	704	0.3-	0.1+
1997 04 30	704	0.5-	1.4+	1998 09 27	704	0.1-	0.7+	2000 02 11	704	1.3+	0.3-
1998 08 26	809	1.4+	1.2-	1998 09 27	704	0.1+	0.2-	2000 02 11	704	0.7-	1.5-
1998 08 26	809	0.8+	1.1-	1998 09 27	704	0.4-	0.1+	2000 02 11	704	0.2-	0.0
1998 08 26	809	0.7+	0.6-	1998 09 27	699	0.6+	0.4+	2000 02 11	704	0.8-	1.5-
1998 08 27	809	0.2-	1.8-	1998 09 27	704	0.2+	0.7-	2000 02 28	704	0.6+	0.3+
1998 08 27	809	0.5-	1.8-	1998 09 27	699	0.0	0.4+	2000 02 28	704	0.8+	0.3-
1998 08 27	809	(0.7+	2.3-)	1998 09 27	699	0.4+	0.8+	2000 02 28	704	1.2-	0.2+

1998 09 14	704	0.6−	1.3+	1998 10 10	699	1.0+	0.3+	2000 02 28	704	0.7+	0.0
1998 09 14	704	0.2−	0.1+	1998 10 10	699	0.0	0.9+	2000 02 28	704	0.8−	0.5+
1998 09 14	704	0.9−	0.4+	1998 10 10	699	0.4−	1.4+				
1998 09 14	704	0.0	0.7+	1998 10 12	699	0.1−	0.3+				

1998 QE₁₀₀ = 1981 AM = 2000 ET₈₅

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	84.60109	(2000.0)		P	Q		
<i>n</i>	0.26499381	ω	358.09818	+0.35382965	−0.93379549		
<i>a</i>	2.4005582	Ω	71.17704	+0.85887035	+0.30186381		
<i>e</i>	0.1887806	<i>i</i>	3.22224	+0.37033269	+0.19210472		
<i>P</i>	3.72	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 01 03	688	1.0−	0.0	1998 09 26	704	0.1−	0.3−	1999 01 13	699	0.4+	0.2+
1981 01 03	688	0.7+	1.4−	1998 09 26	704	0.2+	0.6−	2000 01 08	704	0.1+	0.4+
1998 08 26	809	(2.3+	0.7−)	1998 09 26	704	0.1+	1.0−	2000 01 08	704	1.1−	0.8−
1998 08 26	809	1.5+	0.4−	1998 09 26	704	0.6+	0.9−	2000 01 08	704	0.3+	0.2−
1998 08 26	809	1.8+	0.2+	1998 09 26	704	0.9+	1.7−	2000 01 08	704	0.3−	0.3−
1998 08 27	809	0.1−	1.6−	1998 09 27	704	0.5−	0.3+	2000 02 27	703	0.2+	0.7+
1998 08 27	809	0.0	1.6−	1998 09 27	704	0.1−	0.4+	2000 02 27	703	0.1+	0.3+
1998 08 27	809	0.9+	1.2−	1998 09 27	704	0.0	0.1−	2000 02 27	703	0.4+	0.5+
1998 09 14	704	0.8−	1.1+	1998 09 27	704	0.4−	0.4+	2000 02 27	703	0.2−	0.2+
1998 09 14	704	0.9−	1.5+	1998 09 27	704	0.6−	0.5−	2000 03 08	704	0.5+	0.1+
1998 09 14	704	0.9−	1.6+	1998 10 12	699	0.0	1.3+	2000 03 08	704	0.6−	0.9+
1998 09 14	704	0.1+	1.1+	1998 10 12	699	0.3−	1.0+	2000 03 08	704	0.5+	0.5+
1998 09 18	704	0.1−	0.4+	1998 10 12	699	0.2−	1.3+	2000 03 08	704	0.7+	0.7+
1998 09 18	704	0.5−	0.5+	1998 12 08	704	0.1+	0.5+	2000 03 08	704	0.1−	0.1+
1998 09 18	704	0.0	0.0	1998 12 08	704	0.2−	0.2−	2000 03 12	704	0.0	0.5+
1998 09 18	704	0.6−	0.2+	1998 12 08	704	0.2−	1.1+	2000 03 12	704	0.7+	0.2+
1998 09 18	704	0.9−	0.0	1998 12 08	704	0.3−	1.4+	2000 03 12	704	0.6+	0.8+
1998 09 24	699	0.2−	0.3+	1998 12 08	704	0.6−	0.8+	2000 03 12	704	0.5+	0.8+
1998 09 24	699	0.1−	0.3+	1999 01 13	699	0.8−	0.2+				
1998 09 24	699	0.0	0.2+	1999 01 13	699	1.2+	0.6−				

1998 QN₁₀₀ = 2000 EO₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	120.24631	(2000.0)		P	Q		
<i>n</i>	0.29178738	ω	38.02937	+0.73095067	−0.68238585		
<i>a</i>	2.2512569	Ω	5.02243	+0.60229191	+0.63970599		
<i>e</i>	0.1851628	<i>i</i>	5.10439	+0.32086691	+0.35373125		
<i>P</i>	3.38	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 26	809	(4.4−	4.1−)	1998 09 22	120	0.0	0.3−	1998 11 26	725	1.0−	0.0
1998 08 26	809	(4.8−	4.7−)	1998 09 22	120	0.2−	0.1+	2000 03 04	688	0.1−	0.4+
1998 08 26	809	(4.5−	4.5−)	1998 09 22	120	0.3+	0.3+	2000 03 04	688	0.2−	0.4+
1998 08 27	809	(1.2−	4.6−)	1998 09 26	704	1.0−	0.7+	2000 03 08	691	0.7−	0.2−
1998 08 27	809	(1.3−	4.7−)	1998 09 26	704	0.6+	0.2−	2000 03 08	691	0.7−	0.1−
1998 08 27	809	(0.4−	4.7−)	1998 09 26	704	1.4−	0.7−	2000 03 08	691	0.2−	0.3−
1998 09 14	704	0.5−	0.7−	1998 09 26	704	1.1+	0.9−	2000 03 09	691	0.0	0.1−
1998 09 14	704	1.4−	0.6−	1998 09 26	704	0.3−	0.7+	2000 03 09	691	0.6−	0.2−
1998 09 14	704	0.5+	0.2−	1998 09 27	704	1.0+	0.5−	2000 03 09	691	0.5−	0.1−
1998 09 14	704	0.2+	0.2−	1998 09 27	704	0.5+	0.7+	2000 03 10	704	1.2+	1.6+
1998 09 14	704	0.7−	0.0	1998 09 27	704	1.0−	0.5+	2000 03 10	704	0.4+	0.5+
1998 09 17	699	0.2−	0.2+	1998 09 27	704	0.1−	1.7+	2000 03 10	704	0.1+	0.4−
1998 09 17	699	0.5−	0.1−	1998 09 29	120	1.0+	0.5+	2000 03 10	704	2.0+	0.2+
1998 09 17	699	0.3−	0.1−	1998 09 29	120	0.1+	0.6+	2000 03 11	704	0.3+	0.7+
1998 09 18	704	0.2−	1.0+	1998 09 29	120	1.1+	0.1−	2000 03 11	704	0.2+	0.4+
1998 09 18	704	0.8−	0.3+	1998 09 29	120	0.1+	0.1+	2000 03 11	704	0.3+	0.1−
1998 09 18	704	0.2−	0.3+	1998 09 29	120	0.7+	0.3+	2000 03 11	704	1.3+	0.9+
1998 09 18	704	0.3−	0.8−	1998 09 29	120	0.3+	0.3+	2000 03 11	704	0.2−	0.7+
1998 09 18	704	0.8−	0.2−	1998 11 16	725	0.1−	0.7+	2000 03 11	704	0.3−	0.2+
1998 09 18	120	0.4+	0.5−	1998 11 16	725	0.2+	1.2+	2000 03 11	704	0.5+	0.3+
1998 09 18	120	0.3−	0.1+	1998 11 16	725	0.3−	0.6+	2000 03 11	704	0.5+	0.5+

1998 09 18	120	0.5+	0.3+	1998 11 22	725	0.9−	0.1−	2000 03 11	704	0.2+	0.3+
1998 09 21	120	0.3−	0.0	1998 11 22	725	0.5−	0.2−	2000 03 11	704	0.6−	0.4−
1998 09 21	120	0.4+	0.1+	1998 11 26	725	0.4+	0.6−				
1998 09 21	120	0.2+	0.3+	1998 11 26	725	1.1+	0.4−				

1998 QA₁₀₁ = 2000 DM₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	96.42613	(2000.0)		P	Q		
<i>n</i>	0.23696896	ω	263.31708	+0.80980754	−0.58450786		
<i>a</i>	2.5862772	Ω	132.43687	+0.56173921	+0.74757297		
<i>e</i>	0.2085065	<i>i</i>	3.93288	+0.16929503	+0.31541277		
<i>P</i>	4.16	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 08 26	809	0.7+	0.1−	1998 09 14	704	0.9+	0.9+	2000 02 29	704	0.8−	0.2−
1998 08 26	809	0.8+	0.1+	1998 09 18	704	(1.3−	2.4−)	2000 02 29	704	0.2−	0.2+
1998 08 26	809	0.9+	0.4+	1998 09 18	704	0.6−	0.9−	2000 02 29	704	0.9−	0.8+
1998 08 27	809	1.4−	0.0	1998 09 18	704	0.0	0.4−	2000 02 29	704	0.5+	0.3+
1998 08 27	809	0.4−	1.3+	1998 09 18	704	1.0−	0.8+	2000 03 03	704	0.2+	0.1+
1998 08 27	809	0.7−	0.7+	1998 09 18	704	1.8−	1.6+	2000 03 03	704	1.1+	0.8+
1998 09 14	704	0.2+	1.5−	1998 09 27	699	0.5+	0.9−	2000 03 03	704	0.3−	0.6−
1998 09 14	704	0.9−	0.6−	1998 09 27	699	0.8+	0.4+	2000 03 03	704	0.8+	0.1−
1998 09 14	704	0.1−	0.5−	1998 09 27	699	1.8+	0.2−				

1998 QW₁₀₁ = 1992 FO₂ = 2000 CJ₈₈

Id. M. E. Sansaturio, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	74.26463	(2000.0)		P	Q		
<i>n</i>	0.24100545	ω	63.14455	+0.44101986	−0.89749233		
<i>a</i>	2.5573184	Ω	0.70755	+0.71284349	+0.34825008		
<i>e</i>	0.1840433	<i>i</i>	14.06108	+0.54530325	+0.27060932		
<i>P</i>	4.09	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 03 26	691	1.1−	0.0	1998 09 14	704	0.2−	0.7−	2000 02 11	704	0.1−	0.1−
1992 03 26	691	1.0−	0.3+	1998 09 14	704	0.5+	0.7−	2000 02 11	704	0.4+	0.4−
1992 03 26	691	0.7−	0.0	1998 09 14	704	0.8+	0.4+	2000 02 11	704	0.0	0.0
1992 04 07	691	1.6+	0.2−	1998 09 18	704	0.2+	0.5+	2000 02 11	704	0.4+	0.4−
1992 04 07	691	1.2+	0.4+	1998 09 18	704	0.6−	0.1−	2000 02 29	704	0.1−	0.4+
1992 04 07	691	0.6+	0.1+	1998 09 18	704	0.1+	0.5+	2000 02 29	704	0.2+	0.2−
1996 03 22	566	1.4+	0.8+	1998 09 18	704	0.3−	0.3+	2000 02 29	704	0.0	0.8+
1996 03 22	566	0.7+	0.6+	1998 09 18	704	0.4+	0.5+	2000 02 29	704	0.4−	0.5+
1996 03 22	566	0.5−	1.2+	1998 12 09	704	0.4−	0.6+	2000 02 29	704	0.0	0.1−
1996 04 19	566	0.2−	0.7−	1998 12 09	704	0.4−	1.1−	2000 03 05	704	0.3−	0.3+
1996 04 19	566	0.2−	0.4−	1998 12 09	704	0.1+	0.9−	2000 03 05	704	0.0	0.3+
1996 04 19	566	0.5−	0.2−	1998 12 09	704	1.8−	1.9+	2000 03 05	704	0.2−	0.2+
1998 08 26	809	(3.0+	2.4−)	1998 12 09	704	(5.9−	2.2−)	2000 03 05	704	0.0	0.1−
1998 08 26	809	(2.8+	3.1+)	2000 02 04	704	0.2+	0.1−	2000 03 05	704	0.6−	0.0
1998 08 26	809	(2.1+	3.1+)	2000 02 04	704	0.2−	0.8−	2000 03 12	704	0.4+	0.4+
1998 08 27	809	(1.6+	3.1+)	2000 02 04	704	0.1−	0.4−	2000 03 12	704	0.0	0.2+
1998 08 27	809	(2.4+	2.9+)	2000 02 04	704	0.2−	0.7−	2000 03 12	704	0.7−	0.3+
1998 08 27	809	(2.2+	2.7+)	2000 02 04	704	0.1+	0.2−	2000 03 12	704	0.3−	0.1+
1998 09 14	704	0.1−	0.0	2000 02 11	704	0.8+	1.3−	2000 03 12	704	0.0	0.3+

2000 MAR. 20

M.P.C. 39213

Residuals in seconds of arc

1998 08 26	809	0.1+	0.5-	2000 01 06	699	0.3+	0.6+	2000 02 11	704	0.9+	0.3-
1998 08 26	809	0.4-	0.6+	2000 01 06	699	0.6-	0.8+	2000 02 26	703	0.5+	0.7+
1998 08 26	809	0.0	0.4+	2000 01 06	699	0.4+	0.5-	2000 02 26	703	0.1-	0.3+
1998 08 27	809	(0.2+	3.0+)	2000 01 08	704	0.7+	0.7+	2000 02 26	703	0.2-	0.6+
1998 08 27	809	(0.1+	4.0+)	2000 01 08	704	0.8-	1.0-	2000 02 26	703	0.2-	0.3-
1998 08 27	809	(0.5+	3.3+)	2000 01 08	704	0.1+	0.3-	2000 03 03	704	0.7-	0.2+
1998 09 26	704	0.6+	0.7+	2000 01 08	704	0.3-	0.3-	2000 03 03	704	0.1-	0.0
1998 09 26	704	0.1+	0.6-	2000 01 08	704	0.6+	0.3-	2000 03 03	704	0.4-	0.2-
1998 09 26	704	0.5-	1.3+	2000 02 06	704	0.1+	0.5+	2000 03 03	704	0.2-	0.0
1998 09 26	704	0.3-	1.9+	2000 02 06	704	0.1-	0.0	2000 03 03	704	0.2-	0.3-
1998 09 26	704	0.1+	0.5+	2000 02 06	704	0.1-	0.1+	2000 03 12	704	0.0	0.0
1998 09 27	704	0.1-	1.3-	2000 02 06	704	1.3-	0.7+	2000 03 12	704	0.1-	0.1-
1998 09 27	704	0.0	1.3-	2000 02 11	704	0.2+	0.9-	2000 03 12	704	0.4+	0.3+
1998 09 27	704	0.1+	0.9-	2000 02 11	704	0.6+	0.1-	2000 03 12	704	0.0	0.0
1998 09 27	704	(0.2+	2.3-)	2000 02 11	704	0.2+	0.4-	2000 03 12	704	0.7+	0.4+

1998 QC₁₀₃ = 2000 DY₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	105.00048	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.23311365	ω	327.73744	+0.90702701	-0.41822019		
<i>a</i>	2.6147143	Ω	57.06099	+0.39764866	+0.81255295		
<i>e</i>	0.2075523	<i>i</i>	3.34217	+0.13848301	+0.40601672		
<i>P</i>	4.23	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 26	809	0.5-	0.4+	1998 09 24	699	0.2-	0.8+	2000 02 11	704	0.1+	0.2+
1998 08 26	809	0.4-	0.7+	1998 09 24	699	0.5+	0.7+	2000 02 11	704	0.0	0.6+
1998 08 26	809	1.3-	0.4+	1998 09 26	704	0.1-	0.0	2000 02 28	704	0.0	0.2+
1998 08 27	809	0.0	1.3+	1998 09 26	704	0.4-	0.7+	2000 02 28	704	0.6+	0.2-
1998 08 27	809	0.3-	1.4+	1998 09 26	704	0.2+	0.4-	2000 02 28	704	0.3-	0.3-
1998 08 27	809	0.4-	1.1+	1998 09 26	704	1.3+	0.2+	2000 02 28	704	0.2+	0.3-
1998 09 14	704	0.3+	1.7-	1998 09 27	704	0.0	0.6-	2000 02 28	704	0.1-	0.7-
1998 09 14	704	0.2-	1.8-	1998 09 27	704	0.5+	0.0	2000 03 05	704	0.9-	0.2+
1998 09 14	704	0.0	1.8-	1998 09 27	704	1.0+	0.5+	2000 03 05	704	0.3-	1.1+
1998 09 17	699	0.1+	0.5-	1998 09 27	704	0.0	0.4+	2000 03 05	704	1.0-	0.3-
1998 09 17	699	0.8-	0.2+	1998 09 27	704	0.3-	0.5+	2000 03 05	704	0.6+	0.4-
1998 09 17	699	0.7-	0.4-	2000 02 03	704	0.3-	0.2+	2000 03 05	704	0.6+	0.3+
1998 09 18	704	0.1+	0.5-	2000 02 03	704	0.1+	0.1-	2000 03 11	699	(0.7- 2.1+)	
1998 09 18	704	0.5-	0.1-	2000 02 03	704	0.3+	0.7-	2000 03 11	699	1.1-	0.5-
1998 09 18	704	0.1-	0.3-	2000 02 03	704	1.1+	0.9+	2000 03 11	699	0.1-	0.4+
1998 09 18	704	0.6+	0.5-	2000 02 11	704	0.6+	1.0+	2000 03 11	699	0.2-	0.4-
1998 09 18	704	0.6+	0.1-	2000 02 11	704	0.0	0.0				
1998 09 24	699	0.5+	0.5+	2000 02 11	704	0.6+	0.0				

1998 QW₁₀₃ = 2000 DN₉₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	168.51309	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.29388127	ω	284.83600	+0.92926138	+0.36240565		
<i>a</i>	2.2405507	Ω	53.96606	-0.29562590	+0.84583275		
<i>e</i>	0.1374247	<i>i</i>	5.08406	-0.22153695	+0.39144490		
<i>P</i>	3.35	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 26	809	0.6+	0.6-	1998 09 27	699	0.2-	0.7+	2000 03 04	704	(3.0-	1.0-)
1998 08 26	809	1.1+	0.2+	2000 02 03	704	0.1-	0.7-	2000 03 06	704	0.5+	0.2-
1998 08 26	809	0.4+	0.5-	2000 02 03	704	0.3-	0.4-	2000 03 06	704	0.7-	0.7+
1998 08 27	809	(2.2+	0.7+)	2000 02 03	704	0.8-	0.4-	2000 03 06	704	0.4+	0.2-
1998 08 27	809	1.6+	0.1+	2000 02 03	704	0.8+	0.3+	2000 03 06	704	0.2+	0.3+
1998 08 27	809	0.7+	0.2+	2000 02 06	703	0.3-	0.4-	2000 03 06	704	0.2-	1.1-
1998 09 14	704	0.1-	0.7-	2000 02 06	703	1.6-	0.5+	2000 03 09	704	0.1-	0.2+
1998 09 14	704	1.0-	1.8-	2000 02 06	703	0.8-	0.8+	2000 03 09	704	0.4+	0.5+
1998 09 14	704	0.7-	1.0-	2000 02 06	703	1.1-	1.2-	2000 03 09	704	0.0	0.1+
1998 09 18	704	0.3+	0.2+	2000 02 29	704	0.1-	0.2-	2000 03 09	704	0.6+	0.5-
1998 09 18	704	0.8-	0.2+	2000 02 29	704	0.0	0.3+	2000 03 09	704	0.3+	0.8-
1998 09 18	704	0.7-	0.7+	2000 02 29	704	0.5-	0.3+	2000 03 09	704	0.3-	0.7+

1998 09 18	704	0.5+	0.4+	2000 02 29	704	0.6+	0.4-	2000 03 09	704	0.5+	0.3-
1998 09 18	704	0.6-	1.0+	2000 02 29	704	0.1+	0.4-	2000 03 09	704	1.5+	0.3-
1998 09 27	699	0.3-	0.3+	2000 03 04	704	0.4+	0.9+	2000 03 09	704	0.0	1.3-
1998 09 27	699	0.3-	0.4+	2000 03 04	704	0.5-	1.3+	2000 03 09	704	0.6+	1.1+

1998 QV₁₀₄ = 2000 DE₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	106.29240	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.23151917	ω	310.30450	+0.93179099	-0.35236085		
<i>a</i>	2.6267057	Ω	70.48753	+0.35475813	+0.83307128		
<i>e</i>	0.1529542	<i>i</i>	5.30944	+0.07689096	+0.42642008		
<i>P</i>	4.26	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 26	809	1.4+	0.8+	1998 09 18	704	0.1+	0.7+	2000 02 03	704	1.2-	0.1+
1998 08 26	809	0.6+	0.9+	1998 09 18	704	0.1+	0.3+	2000 02 11	704	1.3+	0.2-
1998 08 26	809	0.0	0.5+	1998 09 18	704	0.0	0.5+	2000 02 11	704	0.8+	0.4+
1998 08 27	809	0.4-	0.3+	1998 09 18	704	0.9+	0.4+	2000 02 11	704	0.0	0.4-
1998 08 27	809	0.4-	0.5-	1998 09 24	699	0.2-	0.2-	2000 02 28	704	0.1-	0.0
1998 08 27	809	0.6-	1.0-	1998 09 24	699	0.4+	0.5-	2000 02 28	704	0.4+	0.7-
1998 08 31	704	0.2+	1.3-	1998 09 24	699	0.9+	0.3-	2000 02 28	704	0.3-	0.0
1998 08 31	704	0.0	0.8-	1998 11 15	699	0.6-	0.1+	2000 02 28	704	0.1-	0.3-
1998 08 31	704	0.5-	1.1-	1998 11 15	699	0.6+	0.1-	2000 02 28	704	0.5-	0.3-
1998 08 31	704	(2.7- 0.1-)		1998 11 15	699	0.6-	0.1+	2000 03 04	704	0.8-	0.3+
1998 09 14	704	1.1-	0.3+	2000 02 03	704	0.4+	0.3+	2000 03 04	704	0.2-	0.2+
1998 09 14	704	0.9-	0.2+	2000 02 03	704	1.1-	0.5+	2000 03 04	704	0.4+	0.5+
1998 09 14	704	0.2+	0.5+	2000 02 03	704	0.3+	0.6-	2000 03 04	704	0.7+	0.1+
1998 09 18	704	0.0	0.3-	2000 02 03	704	0.1+	0.0	2000 03 04	704	0.3-	0.2-

1998 RB

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	234.19162	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.24012059	ω	45.23859	-0.46671077	+0.88088621		
<i>a</i>	2.5635971	Ω	197.42567	-0.86746961	-0.47331810		
<i>e</i>	0.0130137	<i>i</i>	15.27002	-0.17227170	-0.00307659		
<i>P</i>	4.10	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1986 11 02	675	0.4+	0.7+	1998 09 02	402	0.4+	0.4-	1998 09 23	704	0.0	0.9-
1986 11 02	675	0.1-	0.3-	1998 09 02	402	0.6+	0.3-	1998 09 23	704	0.4+	0.3+
1990 08 28	675	0.3-	0.8-	1998 09 02	402	0.2+	0.2-	1998 09 27	699	0.5+	1.1+
1990 08 28	675	0.2-	0.3-	1998 09 03	402	0.1+	0.2-	1998 09 27	699	0.1+	0.4+
1998 08 24	704	0.3+	1.3-	1998 09 03	402	0.5+	0.1+	1998 09 27	699	0.2+	0.6+
1998 08 24	704	0.2+	1.0+	1998 09 03	402	0.2+	0.2-	1998 10 11	699	0.1+	0.9-
1998 08 24	704	0.4+	0.4+	1998 09 03	402	0.4+	0.1-	1998 10 11	699	0.1+	1.0-
1998 08 24	704	0.4+	0.3+	1998 09 04	402	0.3-	0.3+	1998 10 11	699	0.8+	0.6-
1998 08 27	704	0.2-	1.1+	1998 09 04	402	0.1-	0.1+	1999 01 05	910	0.3-	0.6-
1998 08 27	704	0.2-	0.7+	1998 09 04	402	0.4-	0.2+	1999 01 05	910	0.5-	1.0-
1998 08 27	704	0.4+	1.2+	1998 09 04	402	0.0	0.2+	1999 01 05	910	0.6-	0.9-
1998 08 27	704	1.4-	0.7+	1998 09 08	402	0.4+	0.1-	1999 12 16	704	0.4-	1.1-
1998 08 27	704	0.5-	0.5-	1998 09 08	402	0.1-	0.1-	1999 12 16	704	0.1+	1.0-
1998 09 02	704	0.0	0.9-	1998 09 08	402	0.4+	0.3+	1999 12 16	704	0.5+	1.0-
1998 09 02	704	0.1-	0.1-	1998 09 12	402	0.4+	0.1+	1999 12 16	704	0.3+	0.9-
1998 09 02	704	1.3-	0.1+	1998 09 12	402	0.2+	0.1-	1999 12 16	704	0.2+	1.6-
1998 09 02	704	0.9+	0.1-	1998 09 12	402	0.2+	0.2+	2000 01 09	704	0.1-	0.1-
1998 09 02	704	(2.5-	0.1-)	1998 09 12	402	0.1+	0.0	2000 01 09	704	0.9-	0.5+
1998 09 02	704	0.6+	0.9-	1998 09 16	699	0.3+	0.8+	2000 01 09	704	0.3-	0.1+
1998 09 02	704	1.7-	0.1-	1998 09 16	699	0.4+	0.3+	2000 01 09	704	0.7-	0.9+
1998 09 02	704	(2.9-	1.4+)	1998 09 16	699	0.3+	0.5+	2000 02 06	704	0.9+	1.1+
1998 09 02	704	0.8+	0.4-	1998 09 19	704	1.6-	1.5+	2000 02 06	704	0.2-	1.6+
1998 09 02	704	1.9+	0.4-	1998 09 19	704	0.9+	0.6-	2000 02 06	704	0.7+	1.6+
1998 09 02	704	1.7-	0.3-	1998 09 19	704	0.7-	0.2+	2000 02 06	704	0.3+	1.5+
1998 09 02	704	1.0-	0.5-	1998 09 23	704	1.9-	1.3+				
1998 09 02	402	0.0	0.1+	1998 09 23	704	0.1-	0.8+				

1998 RJ

Id. F. B. Zoltowski (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29731207	ω	309.86152	+0.97718398	+0.19830374		
<i>a</i>	2.2232810	Ω	38.87402	-0.13816686	+0.86552965		
<i>e</i>	0.2087575	<i>i</i>	6.96198	-0.16131149	+0.45992831		
<i>P</i>	3.32	<i>H</i>	17.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 01	426	1.0+	0.3+	1998 09 16	426	0.0	0.3-	1998 10 25	426	0.0	1.1+
1998 09 01	426	0.6+	0.5+	1998 09 17	699	1.4+	1.0-	1998 10 25	426	0.4-	0.0
1998 09 01	426	0.1+	0.1-	1998 09 17	699	0.1+	0.0	1998 10 25	426	0.3-	0.2+
1998 09 03	426	1.0-	0.5+	1998 09 17	699	0.3+	0.4+	2000 03 04	858	0.6+	1.1-
1998 09 03	426	1.2-	0.9+	1998 09 24	699	0.2+	1.7-	2000 03 04	858	0.4-	0.5-
1998 09 12	426	0.8-	0.1+	1998 09 24	699	1.9+	1.3-	2000 03 09	858	0.0	1.1+
1998 09 12	426	0.2+	0.2+	1998 09 24	699	0.4+	0.2-	2000 03 09	858	0.5-	0.1-
1998 09 12	426	0.8-	0.4+	1998 10 20	426	0.3+	0.3+	2000 03 09	858	0.2+	0.6+
1998 09 16	426	0.7-	0.1+	1998 10 20	426	0.8-	0.1-				
1998 09 16	426	0.6-	0.1-	1998 10 20	426	0.0	0.2+				

1998 RU = 1993 FD₆₅ = 2000 DQ₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26767386	ω	75.83205	+0.58000839	-0.81347447		
<i>a</i>	2.3845078	Ω	338.54362	+0.69469195	+0.52150762		
<i>e</i>	0.0890877	<i>i</i>	6.75193	+0.42543316	+0.25746668		
<i>P</i>	3.68	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 03 21	809	1.8-	0.0	2000 01 04	704	0.6-	0.5-	2000 02 29	704	0.5+	1.2+
1993 03 22	809	1.1+	1.0-	2000 01 04	704	0.4-	0.5-	2000 02 29	704	0.8+	0.2+
1998 08 17	704	0.7-	0.2+	2000 01 30	703	(2.3-	1.4+)	2000 03 03	704	0.7+	0.7+
1998 08 17	704	0.6-	0.1+	2000 01 30	703	0.1-	0.7-	2000 03 03	704	0.7-	0.4+
1998 08 17	704	(2.2+	0.0)	2000 01 30	703	0.4-	0.2+	2000 03 03	704	0.3+	0.3+
1998 08 17	704	0.3+	0.1-	2000 01 30	703	0.4+	1.4-	2000 03 03	704	0.1-	0.3+
1998 08 17	704	(6.2-	0.1-)	2000 02 03	704	0.0	0.2+	2000 03 03	704	0.3+	0.4+
1998 09 12	684	0.8-	0.6-	2000 02 03	704	0.2+	0.9+	2000 03 05	704	0.3+	0.2-
1998 09 12	684	0.8-	0.4-	2000 02 03	704	1.0+	0.4-	2000 03 05	704	0.0	0.3-
1998 09 13	684	0.5-	0.4-	2000 02 03	704	0.3+	0.0	2000 03 05	704	0.5+	0.2-
1998 09 13	684	0.6-	0.5-	2000 02 03	704	1.2-	0.1+	2000 03 05	704	0.7-	0.8-
1998 09 18	699	1.3+	1.9+	2000 02 11	704	0.4-	1.2-	2000 03 05	704	0.1-	0.8-
1998 09 18	699	1.4+	0.4-	2000 02 11	704	0.2+	0.1-	2000 03 06	704	0.1-	0.1+
1998 09 18	699	0.1-	0.8-	2000 02 11	704	0.0	0.3+	2000 03 06	704	0.1+	0.1-
1998 09 27	691	0.5+	0.2+	2000 02 11	704	0.2-	0.0	2000 03 06	704	1.2-	0.3-
1998 09 27	691	0.6+	0.1-	2000 02 29	704	0.2+	0.5+	2000 03 06	704	0.4+	0.2-
1998 09 27	691	0.5+	0.1+	2000 02 29	704	0.1+	0.1+				
2000 01 04	704	0.4-	1.1+	2000 02 29	704	0.2+	0.5+				

1998 RF₁ = 2000 DW₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27396401	ω	23.28664	+0.99217542	+0.11354121		
<i>a</i>	2.3478682	Ω	330.05042	-0.12451470	+0.86932187		
<i>e</i>	0.2252611	<i>i</i>	5.97019	-0.00916672	+0.48102793		
<i>P</i>	3.60	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 07 26	699	0.3-	0.0	1998 09 10	120	0.7-	0.6+	1998 09 24	120	0.1+	0.4-
1998 07 26	699	0.7+	0.1-	1998 09 14	704	1.0-	0.4+	1998 09 24	120	0.2+	0.3-
1998 07 26	699	0.3-	1.3+	1998 09 14	704	1.1-	0.5+	1998 09 24	120	0.6+	0.0
1998 08 17	704	0.4+	1.7-	1998 09 14	704	1.3-	0.6+	1998 09 24	120	0.1+	0.8-
1998 08 17	704	0.1-	0.7-	1998 09 14	704	0.3-	0.7+	1998 10 11	699	0.8+	0.1+
1998 08 17	704	0.7-	0.4-	1998 09 15	120	0.8+	0.1-	1998 10 11	699	0.2+	0.7-
1998 08 17	704	0.4+	0.0	1998 09 15	120	0.2+	0.0	1998 10 11	699	0.5+	0.7-

1998 08 17	704	0.6-	1.2+	1998 09 15	120	0.3-	0.1+	2000 02 29	704	0.3+	0.5-
1998 08 23	704	0.7+	1.5-	1998 09 17	120	0.0	0.5+	2000 02 29	704	0.3-	0.1+
1998 08 23	704	(2.9-	0.6+)	1998 09 17	120	0.2+	0.2+	2000 02 29	704	0.2-	0.5+
1998 08 23	704	0.2-	1.1-	1998 09 17	120	0.5+	0.1-	2000 03 04	704	0.5-	0.8+
1998 08 23	704	1.3-	0.5+	1998 09 18	704	0.6-	0.4-	2000 03 04	704	1.3+	0.8+
1998 08 23	704	(3.8-	0.4+)	1998 09 18	704	0.1-	0.4+	2000 03 04	704	1.1+	0.9+
1998 08 26	120	0.2+	0.5-	1998 09 18	704	0.8-	0.9+	2000 03 04	704	0.8+	1.1+
1998 08 26	120	0.2+	0.1-	1998 09 18	704	0.6-	0.4+	2000 03 09	691	0.6-	0.4-
1998 08 26	120	0.1+	0.0	1998 09 18	704	0.3-	0.3+	2000 03 09	691	0.5-	0.7-
1998 08 26	120	0.0	0.3-	1998 09 22	120	0.1-	0.2-	2000 03 09	691	0.8-	0.8-
1998 08 26	120	0.9+	0.4+	1998 09 22	120	0.0	0.0	2000 03 11	704	0.1-	0.1+
1998 08 26	120	0.3-	0.4-	1998 09 22	120	0.4+	0.4-	2000 03 11	704	1.7-	0.9-
1998 08 26	699	0.3-	0.4+	1998 09 23	120	0.2-	0.2+	2000 03 11	704	0.9+	0.4+
1998 08 26	699	0.5+	0.7+	1998 09 23	120	0.1+	0.0	2000 03 11	704	0.9+	0.5-
1998 08 26	699	1.1+	1.4+	1998 09 23	120	0.4+	0.2-				
1998 09 10	120	0.5+	0.1-	1998 09 24	120	0.6+	0.0				

1998 RG₁ = 2000 AJ₁₇₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17470659	ω	284.81144	-0.09543998	-0.99502017		
<i>a</i>	3.1690556	Ω	170.52453	+0.96720868	-0.09952209		
<i>e</i>	0.1985537	<i>i</i>	10.05467	+0.23536904	+0.00549743		
<i>P</i>	5.64	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 17	704	1.6-	0.0	1998 09 22	120	0.0	0.4+	1999 11 05	704	0.2+	0.3+
1998 08 17	704	1.2-	0.8-	1998 09 22	120	0.6-	0.5-	1999 11 05	704	0.1-	0.5+
1998 08 17	704	(2.3-	2.9-)	1998 09 23	120	0.1-	0.2+	1999 11 05	704	0.3-	0.1-
1998 08 17	704	0.9+	1.1-	1998 09 23	120	0.2+	0.3-	2000 01 07	704	0.0	0.5+
1998 08 17	704	0.5+	1.0+	1998 09 23	120	0.4+	0.2-	2000 01 07	704	0.3-	0.1-
1998 09 10	120	0.1+	0.3-	1998 09 24	120	1.1-	0.7-	2000 01 07	704	0.4+	0.2-
1998 09 10	120	0.8+	0.1-	1998 09 24	120	(0.4+	2.5+)	2000 01 07	704	0.2+	0.1-
1998 09 10	120	0.7+	0.4+	1998 09 24	120	0.5-	0.7+	2000 01 07	704	0.1+	0.3-
1998 09 14	704	0.2+	0.3+	1998 09 24	120	1.4-	0.5+	2000 01 11	704	0.2+	0.1+
1998 09 14	704	0.8-	0.6+	1998 09 24	120	1.4-	0.1+	2000 01 11	704	0.0	0.7-
1998 09 14	704	1.0-	0.4+	1998 09 24	120	0.2+	0.3-	2000 01 11	704	0.0	0.4-
1998 09 14	704	1.0-	0.8+	1998 09 24	120	0.9+	0.9+	2000 01 11	704	0.4+	0.2-
1998 09 15	120	1.4+	0.3-	1998 09 24	120	0.3+	0.3-	2000 01 11	704	0.3+	0.2-
1998 09 15	120	0.4+	0.3-	1998 10 08	120	0.9+	1.3-	2000 02 04	704	0.7-	0.3-
1998 09 17	120	1.1-	0.2-	1998 10 08	120	0.1-	0.0	2000 02 04	704	0.0	0.5+
1998 09 17	120	1.7+	0.8+	1998 10 08	120	1.3+	1.0-	2000 02 04	704	0.5-	0.3+
1998 09 18	704	0.5-	0.5-	1999 10 20	704	0.6-	0.1+	2000 02 04	704	0.0	0.3+
1998 09 18	704	0.4+	0.6-	1999 10 20	704	0.4+	0.2+	2000 03 05	704	0.2-	0.0
1998 09 18	704	0.2+	0.4+	1999 10 20	704	0.5-	0.2-	2000 03 05	704	0.0	0.1-
1998 09 18	704	0.3+	1.8+	1999 10 20	704	0.2+	0.3-	2000 03 05	704	0.0	0.1-
1998 09 18	704	0.6+	0.4-	1999 10 20	704	0.3-	0.1-	2000 03 05	704	0.0	0.1-
1998 09 22	120	0.0	0.5-	1999 11 05	704	0.8+	0.9+	2000 03 05	704	0.0	0.0

1998 RV₁ = 2000 AM₁₄₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21308272	ω	186.59664	+0.05408562	-0.98866453		
<i>a</i>	2.7761135	Ω	260.36888	+0.92250855	+0.10315769		
<i>e</i>	0.1276856	<i>i</i>	8.16728	+0.38216846	-0.10909146		
<i>P</i>	4.63	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

2000 MAR. 20

M.P.C. 39215

1998 09 14	703	0.4−	0.2+	1999 12 14	704	0.6+	0.4+	2000 02 06	704	0.0	0.8−
1998 09 14	703	0.0	0.2−	2000 01 05	704	0.1+	0.6+	2000 02 06	704	0.2+	0.3+
1998 09 15	703	0.2−	0.4−	2000 01 05	704	0.0	0.4−	2000 02 06	704	0.4−	0.3−
1998 09 15	703	0.6−	0.1+	2000 01 05	704	0.2−	0.4+	2000 02 06	704	0.1+	0.7−
1998 09 25	699	0.2−	0.1+	2000 01 05	699	1.3+	0.4+	2000 02 28	703	0.2−	0.1−
1998 09 25	699	1.1+	0.2+	2000 01 05	704	0.2+	0.1+	2000 02 28	703	0.3−	0.6+
1998 09 25	699	0.2−	0.4+	2000 01 05	699	1.2+	0.3+	2000 02 28	703	0.0	0.2−
1999 12 05	704	0.0	0.8−	2000 01 05	704	0.0	0.3+	2000 02 28	703	0.4−	0.4+
1999 12 05	704	0.7−	0.7−	2000 01 05	699	0.9+	0.8−				

1998 RP₂ = 2000 AZ₂₃₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	277.43144		(2000.0)	P	Q		
<i>n</i>	0.30309207	ω	128.80095	−0.58778677	+0.80409887		
<i>a</i>	2.1949249	Ω	104.97155	−0.76790348	−0.51987926		
<i>e</i>	0.1132544	<i>i</i>	5.28959	−0.25461922	−0.28835839		
<i>P</i>	3.25	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 09 15	910	0.2−	0.5+	1998 09 17	910	0.0	0.4−	2000 01 06	704	0.3+	0.5−
1998 09 15	910	0.1−	0.6+	1998 09 18	910	0.1+	0.6−	2000 01 06	704	0.7+	1.0−
1998 09 16	910	0.0	0.5+	1998 09 18	910	0.2−	0.4−	2000 01 06	704	0.2+	1.3−
1998 09 16	910	0.4+	0.3−	2000 01 05	699	0.4−	0.9+	2000 01 06	704	0.2+	0.9−
1998 09 16	910	0.1+	0.1+	2000 01 05	699	0.2−	1.5+				
1998 09 16	910	0.2−	0.1+	2000 01 05	699	0.7−	1.4+				

1998 RM₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	118.71179		(2000.0)	P	Q		
<i>n</i>	0.28603197	ω	45.16448	+0.80497799	−0.58888110		
<i>a</i>	2.2813557	Ω	350.11841	+0.35140106	+0.57142291		
<i>e</i>	0.1830814	<i>i</i>	24.92213	+0.47804574	+0.57157231		
<i>P</i>	3.45	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 09 29	413	(0.4−	2.4+)	1998 10 12	704	0.0	0.1+	2000 02 11	704	0.0	0.8+
1991 09 29	413	(2.3−	2.5+)	1998 10 12	704	0.5−	0.5+	2000 02 11	704	0.2+	0.4−
1993 03 22	675	0.9−	0.1−	1998 10 12	704	1.0+	0.1+	2000 02 11	704	(1.9−	2.9+)
1993 03 22	675	1.3+	0.4+	1998 10 12	704	(5.0−	0.3−)	2000 02 11	704	0.1+	0.4+
1998 08 23	704	0.1−	1.2+	1998 11 19	699	0.5+	0.5−	2000 02 11	704	0.7+	0.5+
1998 08 23	704	0.8−	1.0+	1998 11 19	699	0.2+	0.2−	2000 02 27	703	0.5+	0.3+
1998 08 23	704	0.9−	0.6+	1998 11 19	699	0.3−	0.8−	2000 02 27	703	0.1−	0.2+
1998 08 23	704	0.3−	1.4+	1998 12 09	704	0.0	0.5+	2000 02 27	703	0.4−	0.3+
1998 08 23	704	1.8−	0.4+	1998 12 09	704	0.4−	0.5+	2000 02 27	703	0.2−	0.1+
1998 08 30	699	0.6+	0.3+	1998 12 09	704	0.3+	1.0+	2000 02 29	704	0.4+	0.3+
1998 08 30	699	0.7+	0.4+	1998 12 09	704	0.8+	1.3+	2000 02 29	704	0.8−	0.3+
1998 08 30	699	0.3+	0.4+	1998 12 09	704	0.1−	1.5+	2000 02 29	704	0.2+	0.0
1998 09 14	704	0.9−	0.7+	2000 01 08	704	0.4+	0.1+	2000 02 29	704	0.3+	0.2+
1998 09 14	704	1.1−	1.1+	2000 01 08	704	0.5+	0.3−	2000 03 03	704	0.4−	0.4−
1998 09 14	704	1.0−	0.6+	2000 01 08	704	0.6+	0.0	2000 03 03	704	0.3−	0.3−
1998 09 14	704	0.2−	0.2+	2000 01 08	704	0.1+	0.3−	2000 03 03	704	0.2−	0.6−
1998 09 18	704	0.4−	0.3−	2000 01 08	704	0.3+	0.8−	2000 03 03	704	0.6−	0.7−
1998 09 18	704	0.9+	0.1−	2000 02 02	703	0.1−	0.6+	2000 03 05	608	(1.9+	2.4−)
1998 09 18	704	0.2+	0.5−	2000 02 02	703	0.4+	0.1+	2000 03 05	608	(1.0+	2.1−)
1998 09 18	704	0.1−	0.0	2000 02 02	703	0.2−	0.5+	2000 03 05	608	1.5+	1.5−
1998 09 18	704	0.1+	0.4+	2000 02 02	703	0.6−	0.5+	2000 03 08	704	1.1+	0.4−
1998 09 25	704	1.0−	0.5−	2000 02 06	704	0.5+	0.8+	2000 03 08	704	0.7+	0.9−
1998 09 25	704	0.4−	1.3−	2000 02 06	704	1.1+	1.0+	2000 03 08	704	1.0+	0.8+
1998 09 25	704	0.4−	0.7−	2000 02 06	704	0.4+	0.7+	2000 03 08	704	(2.4+	2.0+)
1998 09 25	704	0.6−	2.0−	2000 02 06	704	0.5+	1.3+	2000 03 08	704	(2.1+	2.7+)
1998 09 25	704	0.3−	1.3−	2000 02 06	704	1.2+	1.7+	2000 03 11	704	0.3+	0.5+
1998 09 27	704	0.1−	0.1+	2000 02 07	413	0.0	0.3+	2000 03 11	704	0.2+	0.4+
1998 09 27	704	0.6−	0.0	2000 02 07	413	0.9−	1.4−	2000 03 11	704	(2.7+	1.4+)
1998 09 27	704	0.2−	0.6+	2000 02 10	413	0.1+	0.6+	2000 03 11	704	0.4+	0.7+
1998 09 27	704	0.3−	0.1−	2000 02 10	413	0.0	0.4+	2000 03 11	704	0.5+	0.9+

1998 09 27	704	0.8−	1.2+	2000 02 10	413	0.3+	0.6+
1998 10 12	704	0.6+	0.7+	2000 02 10	413	0.0	0.5+

1998 RE₅ = 2000 DY₉₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	181.72991		(2000.0)	P	Q		
<i>n</i>	0.30928418	ω	271.23953	+0.89815914	+0.43363807		
<i>a</i>	2.1655302	Ω	63.06587	−0.36404040	+0.82602915		
<i>e</i>	0.2194221	<i>i</i>	4.66981	−0.24654562	+0.36004702		
<i>P</i>	3.19	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.5+	0.4+	1998 09 26	704	0.7+	0.4−	1998 10 28	704	0.4−	1.0+
1998 09 14	704	0.2−	0.0	1998 09 26	704	1.0+	0.3−	1998 10 28	704	1.2+	1.3+
1998 09 14	704	2.0−	1.1+	1998 09 26	704	1.0+	0.5−	1998 10 29	704	0.5+	0.5+
1998 09 15	428	0.6+	0.0	1998 09 26	704	0.0	0.2−	1998 10 29	704	0.3+	0.3+
1998 09 15	428	0.8−	0.3−	1998 09 27	704	0.4−	0.1−	1998 10 29	704	1.4−	0.6−
1998 09 16	428	0.6−	0.5−	1998 09 27	704	0.5+	0.4+	1998 10 29	704	0.2+	0.3−
1998 09 16	428	0.2+	0.0	1998 09 27	704	0.8+	0.1+	1998 10 29	704	1.1−	0.6−
1998 09 18	704	0.0	0.2+	1998 09 27	704	0.2+	0.6−	1998 11 10	428	0.8+	1.1−
1998 09 18	704	0.1−	0.0	1998 09 27	704	0.1−	0.4−	1998 11 10	428	0.4−	0.0
1998 09 18	704	0.0	0.1+	1998 09 28	428	0.1−	0.2−	1998 11 26	428	1.0+	0.2−
1998 09 18	704	0.7+	0.2−	1998 09 28	428	1.1−	0.4−	1998 11 26	428	0.6−	0.1−
1998 09 18	704	0.4−	0.4−	1998 10 10	428	0.9−	0.3−	2000 02 29	704	0.0	0.6+
1998 09 19	428	0.2−	0.2+	1998 10 10	428	0.7−	0.3−	2000 02 29	704	1.1−	0.0
1998 09 19	428	0.4+	0.2+	1998 10 21	428	0.8+	0.3+	2000 02 29	704	1.1−	0.0
1998 09 21	699	0.5+	0.7+	1998 10 21	428	0.1+	0.4+	2000 02 29	704	0.1−	0.3−
1998 09 21	699	0.2+	0.5+	1998 10 28	704	1.6−	0.8+	2000 03 05	704	1.4+	1.0−
1998 09 21	699	0.3+	0.2+	1998 10 28	704	0.1−	0.2−	2000 03 05	704	0.2+	0.1+
1998 09 26	704	0.2+	0.1−	1998 10 28	704	0.6+	0.1−	2000 03 05	704	0.7+	0.9+

1998 RN₆

Id. L. H. Wasserman (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	142.94205		(2000.0)	P	Q		
<i>n</i>	0.29313054	ω	166.59621	+0.99804414	−0.05218461		
<i>a</i>	2.2443745	Ω	196.51185	+0.04007936	+0.95669424		
<i>e</i>	0.1550289	<i>i</i>	6.95573	+0.04797439	+0.28637895		
<i>P</i>	3.36	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.6+	0.2+	1998 09 14	704	0.3−	0.4−	1998 09 18	704	0.1+	0.8−
1998 08 17	704	0.5−	0.2+	1998 09 14	704	0.1−	0.2+	1998 09 18	704	0.0	0.2+
1998 08 17	704	0.2+	0.2+	1998 09 14	704	0.7+	0.5+	1998 09 18	704	0.4+	0.1+
1998 08 17	704	0.1+	0.3−	1998 09 14	704	0.1+	0.2+	1998 10 14	699	0.3+	0.4+
1998 08 17	704	0.0	0.6−	1998 09 14	704	1.6−	0.9−	1998 10 14	699	0.1−	0.4+
1998 08 23	704	1.2+	0.7+	1998 09 15	699	0.2+	0.2−	1998 10 14	699	0.8+	0.5−
1998 08 23	704	0.3−	1.6−	1998 09 15	699	0.8+	0.2+	2000 03 04	688	0.0	0.1−
1998 08 23	704	0.2+	0.5−	1998 09 15	699	0.5−	0.9+	2000 03 04	688	0.1−	0.3−
1998 08 23	704	0.4−	0.1+	1998 09 18	699	0.0	0.1+	2000 03 11	699	0.6+	0.4+
1998 08 23	704	(2.7−	1.5+)	1998 09 18	699	0.6−	0.2+	2000 03 11	699	0.7−	0.6−
1998 08 30	699	0.1−	0.6+	1998 09 18	704	0.2−	0.4−	2000 03 11	699	0.3−	0.2−
1998 08 30	699	0.1−	0.4+	1998 09 18	699	0.6+	0.1+	2000 03 11	699	0.3+	0.3−
1998 08 30	699	0.7−	0.2+	1998 09 18	704	0.4−	0.7−				

Residuals in seconds of arc

1998 08 03	699	0.5+	0.3+	1998 09 15	699	0.1+	0.7+	1999 12 15	704	0.1-	0.3-
1998 08 03	699	0.4+	0.1+	1998 09 18	699	0.1+	0.5+	1999 12 15	704	0.3-	0.5-
1998 08 03	699	0.1+	0.1+	1998 09 18	699	0.0	0.3+	1999 12 15	704	0.0	0.2-
1998 08 17	704	0.3-	0.3+	1998 09 18	704	0.6+	0.1+	2000 01 02	704	1.7+	0.8+
1998 08 17	704	1.1-	0.4+	1998 09 18	699	0.1+	0.9+	2000 01 02	704	1.3+	0.6-
1998 08 17	704	0.7-	0.1-	1998 09 18	704	1.7+	0.6-	2000 01 02	704	0.4-	0.0
1998 08 17	704	1.2-	0.8-	1998 09 18	704	0.7+	0.0	2000 01 29	704	0.4-	0.0
1998 08 17	704	0.1-	0.2-	1998 09 18	704	(2.0+ 2.3+)		2000 01 29	704	0.4-	0.0
1998 08 26	699	0.6-	0.3+	1999 12 03	699	0.2-	0.5-	2000 01 29	704	0.1+	0.2+
1998 08 26	699	0.7-	0.1+	1999 12 03	699	0.5-	0.3-	2000 01 29	704	0.4-	0.2-
1998 08 26	699	0.6-	0.3+	1999 12 03	699	0.0	0.1-	2000 01 29	704	0.7-	0.5+
1998 09 14	704	0.6+	0.4-	1999 12 12	704	0.4+	0.2-	2000 02 11	704	1.2-	0.6-
1998 09 14	704	0.1-	0.7-	1999 12 12	704	0.3-	0.3-	2000 02 11	704	0.4-	1.0-
1998 09 14	704	0.3-	0.8-	1999 12 12	704	0.4+	0.3+	2000 02 11	704	0.7+	0.9+
1998 09 14	704	0.3+	0.5-	1999 12 12	704	0.2-	0.2+	2000 02 11	704	0.9-	1.3+
1998 09 14	704	0.1-	0.5-	1999 12 12	704	0.6+	0.2+	2000 02 11	704	0.0	0.5+
1998 09 15	699	0.4+	0.5+	1999 12 15	704	0.6+	0.2+				
1998 09 15	699	0.1-	0.2+	1999 12 15	704	0.1+	0.2+				

1998 RA₇ = 2000 CZ₂₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.31375950	ω	347.69544	-0.89105181	-0.45379357		
<i>a</i>	2.1448889	Ω	165.30507	+0.41968583	-0.83199689		
<i>e</i>	0.0704095	<i>i</i>	2.23726	+0.17288860	-0.31914348		
<i>P</i>	3.14	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 12	691	0.2+	0.1+	2000 02 08	691	0.6-	0.6-	2000 03 02	691	0.2-	0.3-
1998 09 12	691	0.1+	0.2-	2000 02 08	691	0.6-	0.5-	2000 03 03	704	0.0	0.2-
1998 09 12	691	0.0	0.0	2000 02 08	691	0.5-	0.5-	2000 03 03	704	0.5+	0.0
1998 09 18	691	0.2+	0.2+	2000 02 12	704	1.3-	0.5+	2000 03 03	704	0.2+	0.0
1998 09 18	691	0.1-	0.3+	2000 02 12	704	0.9+	0.2+	2000 03 03	704	0.3-	0.2-
1998 09 18	691	0.0	0.3+	2000 02 12	704	0.1+	0.6+	2000 03 03	704	0.2-	0.1+
1998 10 20	910	0.2+	0.3-	2000 02 12	704	(0.6- 2.5+)		2000 03 04	691	0.4+	0.1+
1998 10 20	910	0.2-	0.6-	2000 02 12	888	0.6-	0.3-	2000 03 04	691	0.3+	0.1+
1998 10 20	910	0.3-	0.4-	2000 02 12	888	0.6-	0.2-	2000 03 04	691	0.5+	0.1+
2000 02 02	704	0.2+	0.0	2000 02 12	888	0.6-	0.1+	2000 03 05	704	0.1-	0.4-
2000 02 02	704	0.1+	0.3+	2000 02 26	691	0.1-	0.5-	2000 03 05	704	0.5-	0.4+
2000 02 02	704	0.1-	0.4+	2000 02 26	691	0.2-	0.3-	2000 03 05	704	0.0	0.3+
2000 02 02	704	0.3+	0.6+	2000 02 26	691	0.4-	0.4-	2000 03 05	704	0.4-	0.3+
2000 02 02	704	0.7+	0.4+	2000 02 27	703	(7.5- 1.9+)		2000 03 05	704	0.0	0.0
2000 02 04	704	0.1+	1.1+	2000 02 27	703	0.3-	0.3-	2000 03 09	704	0.0	0.3+
2000 02 04	704	0.1-	0.7+	2000 02 27	703	0.0	0.4-	2000 03 09	704	0.1-	0.1-
2000 02 04	704	0.9+	0.9-	2000 02 27	703	0.4+	0.2-	2000 03 09	704	0.2+	0.2+
2000 02 04	704	1.2+	0.1-	2000 03 02	691	0.1+	0.1+	2000 03 09	704	0.1+	0.1-
2000 02 04	704	0.7+	0.4-	2000 03 02	691	0.3-	0.2-	2000 03 09	704	0.1+	0.0

1998 RZ₇ = 2000 DG₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29382671	ω	4.51458	+0.99709892	+0.07475171		
<i>a</i>	2.2408281	Ω	351.16000	-0.07243299	+0.87389138		
<i>e</i>	0.2275235	<i>i</i>	5.35800	-0.02339239	+0.48033950		
<i>P</i>	3.35	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 07 26	699	0.3-	0.5-	1998 09 19	691	0.0	0.2+	2000 03 03	704	0.4+	0.1+
1998 07 26	699	0.2-	0.0	1998 09 19	691	0.0	0.1+	2000 03 05	704	0.7-	0.3-
1998 07 26	699	0.2-	0.3+	1998 09 19	691	0.1-	0.0	2000 03 05	704	0.1-	0.6-
1998 09 12	691	0.3-	0.1+	1998 11 10	699	0.5-	0.9-	2000 03 05	704	0.3+	0.1-
1998 09 12	691	0.4-	0.2+	1998 11 10	699	0.1-	0.1+	2000 03 05	704	0.4-	0.7+
1998 09 12	691	0.2-	0.1+	1998 11 10	699	0.2+	0.3+	2000 03 11	704	0.4-	1.1+
1998 09 14	704	0.6+	0.6+	2000 02 29	704	0.4-	0.4+	2000 03 11	704	0.3+	0.2+

1998 09 14	704	0.3+	0.2-	2000 02 29	704	0.0	1.3-	2000 03 11	699	0.6-	0.1-
1998 09 14	704	0.4+	0.3-	2000 02 29	704	0.0	0.1-	2000 03 11	704	0.0	0.6+
1998 09 14	704	(1.9+ 2.2+)		2000 02 29	704	1.3+	0.1+	2000 03 11	704	0.0	0.4-
1998 09 18	704	0.3+	0.1+	2000 02 29	704	0.1-	0.3+	2000 03 11	699	0.5-	0.4+
1998 09 18	704	0.3-	0.1+	2000 03 03	704	0.5+	0.0	2000 03 11	699	0.4+	0.2-
1998 09 18	704	0.2-	0.4-	2000 03 03	704	0.1+	0.2+	2000 03 11	699	0.6-	0.1-
1998 09 18	704	0.2+	0.1+	2000 03 03	704	0.7+	0.4-				
1998 09 18	704	0.3+	0.3+	2000 03 03	704	0.1+	0.3+				

1998 RC₈ = 1981 SD₆ = 2000 EM₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	100.52251	ω	34.08833	+0.78788135	-0.61579604		
<i>a</i>	2.6196665	Ω	3.93825	+0.54304428	+0.68999479		
<i>e</i>	0.2113653	<i>i</i>	5.16418	+0.29042365	+0.38039771		
<i>P</i>	4.24	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1981 09 28	095	0.3+	0.5-	1998 10 19	699	0.6-	0.2-	2000 02 11	704	0.9+	0.1-
1998 09 12	691	0.7-	0.1+	1998 10 19	699	0.2-	0.1-	2000 02 11	704	0.3-	0.5-
1998 09 12	691	0.8-	0.2-	1998 10 28	704	0.9+	0.3+	2000 02 11	704	1.4-	0.6-
1998 09 12	691	0.6-	0.2-	1998 10 28	704	0.9+	0.6-	2000 03 03	608	0.2-	0.8-
1998 09 14	704	0.1-	0.0	1998 10 28	704	0.1+	0.0	2000 03 03	608	0.3+	0.1-
1998 09 14	704	0.4-	0.2-	1998 10 28	704	1.3-	0.4-	2000 03 03	608	0.2+	0.1+
1998 09 14	704	0.3-	0.5-	1998 10 28	704	0.7-	0.5+	2000 03 05	120	0.5+	0.0
1998 09 15	699	0.3+	0.3+	1998 10 29	704	0.7+	0.4+	2000 03 05	120	0.8+	0.5-
1998 09 15	699	0.1-	0.3+	1998 10 29	704	1.2+	0.1-	2000 03 05	120	0.6-	0.2-
1998 09 15	699	0.4+	0.6+	1998 10 29	704	0.1+	0.3-	2000 03 06	120	1.0-	0.1+
1998 09 18	691	0.9-	0.2+	1998 10 29	704	0.7+	0.6-	2000 03 06	120	1.7-	0.4-
1998 09 18	691	0.7-	0.4+	1998 10 29	704	1.2+	0.2+	2000 03 11	699	0.2+	0.0
1998 09 18	691	1.0-	0.5+	1998 12 09	704	0.5-	1.3+	2000 03 11	699	0.2+	0.2-
1998 09 18	704	0.4+	0.1+	1998 12 09	704	(2.7+ 1.8+)		2000 03 11	699	0.0	0.4+
1998 09 18	704	0.8-	0.6+	1998 12 09	704	0.4+	1.8-	2000 03 11	699	0.1+	0.3-
1998 09 18	704	0.2+	0.6+	1998 12 09	704	1.7+	1.0-	2000 03 12	704	0.2+	0.1+
1998 09 18	704	0.4-	0.8+	1998 12 09	704	0.2-	0.3-	2000 03 12	704	0.5+	0.5+
1998 09 18	704	0.8-	1.1+	2000 02 04	704	1.0+	1.5+	2000 03 12	704	0.2+	0.5+
1998 10 14	699	0.4+	0.4+	2000 02 04	704	0.2-	1.3+	2000 03 12	704	0.6+	0.7+
1998 10 14	699	0.2+	0.1+	2000 02 04	704	0.2+	0.0	2000 03 12	704	0.4+	0.8+
1998 10 14	699	0.5+	0.4+	2000 02 11	704	0.6+	1.0+				
1998 10 19	699	0.3-	0.3-	2000 02 11	704	0.5+	0.3+				

1998 RV₁₅ = 2000 CV₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22643421	ω	224.27460	+0.72506968	-0.68866945		
<i>a</i>	2.6658847	Ω	179.23243	+0.67646328	+0.71141893		
<i>e</i>	0.1858004	<i>i</i>	12.45985	+0.12911775	+0.14006248		
<i>P</i>	4.35	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 27	327	0.5+	0.6-	1998 09 24	327	1.9-	0.3+	1998 10 28	704	0.2-	0.5+
1998 08 27	327	0.6+	0.2+	1998 09 25	327	1.9+	0.2+	1998 10 29	704	0.4-	0.0
1998 08 27	327	0.0	0.0	1998 09 25	327	1.7+	0.1+	1998 10 29	704	0.3+	0.2+
1998 09 04	327	0.1-	0.1+	1998 09 25	327	1.5+	0.1+	1998 10 29	704	0.6-	0.0
1998 09 04	327	0.1+	0.1+	1998 09 26	704	0.5+	0.5-	1998 10 29	704	0.1-	0.3+
1998 09 04	327	0.2-	0.1-	1998 09 26	704	0.5+	1.2-	1998 10 29	704	0.1+	0.3-
1998 09 06	327	0.1-	0.1-	1998 09 26	704	1.0+	0.9-	2000 02 02	704	1.7+	0.6+
1998 09 06	327	0.6-	0.4+	1998 09 26	704	0.0	0.9-	2000 02 02	704	0.8+	0.5+
1998 09 06	327	0.1-	0.5-	1998 09 26	704	0.7+	0.3-	2000 02 02	704	1.0-	0.4+
1998 09 18	699	0.6+	0.4-	1998 09 27	704	0.4-	0.0	2000 02 08	704	0.2-	1.0-
1998 09 18	699	0.9+	0.3-	1998 09 27	704	0.1-	0.1-	2000 02 08	704	0.5-	0.8+
1998 09 18	699	0.6+	0.3+	1998 09 27	704	0.0	0.6+	2000 02 08	704	1.3+	0.3-
1998 09 23	327	1.3-	0.1-	1998 09 27	704	0.7-	0.3-	2000 02 08	704	0.8-	0.2-
1998 09 23	327	1.7-	0.2+	1998 09 27	704	1.0-	0.7-	2000 02 08	704	0.3-	0.4-
1998 09 23	327	1.9-	0.2-	1998 10 17	699	0.7+	1.4+	2000 03 11	699	0.5+	0.3-
1998 09 24	699	0.6+	1.4+	1998 10 17	699	1.0+	0.2-	2000 03 11	699	0.0	0.0

2000 MAR. 20

M.P.C. 39217

1998 09 24	699	0.1+	1.9+	1998 10 17	699	0.8+	0.3+	2000 03 11	699	1.2-	0.7-
1998 09 24	699	1.0+	1.7+	1998 10 28	704	(3.0-	1.3-)	2000 03 11	699	0.3-	0.6+
1998 09 24	327	1.6-	0.4-	1998 10 28	704	0.4-	1.8-				
1998 09 24	327	1.8-	0.3-	1998 10 28	704	0.1+	0.2-				

1998 RC₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	179.53895	(2000.0)		P	Q		
<i>n</i>	0.27292558	ω	262.93616	+0.76806357	+0.63681236		
<i>a</i>	2.3538198	Ω	57.48462	-0.55142876	+0.71125066		
<i>e</i>	0.1456245	<i>i</i>	4.58732	-0.32558358	+0.29764495		
<i>P</i>	3.61	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1976 05 30	413	1.0-	0.5-	1998 09 17	699	0.0	0.2+	1998 09 27	704	0.1+	0.5-
1976 05 30	413	0.7+	0.4-	1998 09 17	699	0.5-	0.0	1998 10 19	699	0.0	0.2-
1991 10 13	675	0.5+	0.9+	1998 09 17	327	1.2+	0.2-	1998 10 19	699	0.0	0.5+
1991 10 13	675	1.5+	0.1+	1998 09 17	327	1.2+	0.1+	1998 10 19	699	0.4+	0.5-
1991 12 07	675	0.6-	0.7+	1998 09 17	327	1.2+	0.2-	1998 10 28	704	0.4-	0.3-
1991 12 07	675	0.2-	0.8-	1998 09 20	327	0.1-	0.3+	1998 10 28	704	0.6+	0.4-
1993 04 15	675	1.7+	0.4-	1998 09 20	327	0.7-	0.3+	1998 10 28	704	1.8-	0.4+
1993 04 15	675	1.2+	0.5-	1998 09 20	327	0.2+	0.5-	1998 10 28	704	0.3-	0.5+
1995 10 24	675	1.9-	1.7-	1998 09 26	704	0.4+	0.4-	1998 10 29	704	0.4-	0.1-
1995 10 24	675	1.1-	0.9-	1998 09 26	704	0.2-	0.8-	1998 10 29	704	1.0-	0.5+
1997 04 04	566	0.3-	0.7-	1998 09 26	704	0.9+	0.9+	1998 10 29	704	1.1-	1.0+
1997 04 04	566	1.1-	0.5-	1998 09 26	704	0.4+	0.4+	1998 10 29	704	(2.2+	0.5+)
1997 04 04	566	0.8-	0.6-	1998 09 26	704	0.5+	0.5-	1998 10 29	704	1.7+	1.1-
1998 09 14	327	0.2+	0.2-	1998 09 27	704	0.2-	0.2-	1999 01 05	910	1.8-	0.4-
1998 09 14	327	0.4+	0.1+	1998 09 27	704	0.1+	0.2+	1999 01 05	910	1.8-	0.6-
1998 09 14	327	0.3+	0.5-	1998 09 27	704	0.1-	0.1-	1999 01 05	910	1.6-	0.7-
1998 09 17	699	0.2+	0.5+	1998 09 27	704	0.4+	0.2+				

1998 RG₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	127.87962	(2000.0)		P	Q		
<i>n</i>	0.22599339	ω	96.13456	+0.96584562	-0.10416065		
<i>a</i>	2.6693502	Ω	270.02007	+0.00451942	+0.92228033		
<i>e</i>	0.1738084	<i>i</i>	13.72494	+0.25907877	+0.37222245		
<i>P</i>	4.36	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1975 04 20	413	0.2+	0.5+	1998 09 17	327	1.6+	0.4-	1998 10 30	127	1.6-	0.7+
1975 04 20	413	1.0-	0.1-	1998 09 23	327	0.3+	0.7+	1998 11 15	699	0.1-	0.0
1983 02 15	413	0.4+	1.3-	1998 09 23	327	0.6+	0.6+	1998 11 15	699	1.0-	0.3+
1983 02 15	413	0.2+	0.9-	1998 09 23	327	0.1+	0.4+	1998 11 15	699	0.1-	0.5+
1998 08 29	704	0.4+	1.3-	1998 09 26	699	0.3+	0.2-	1998 12 09	704	0.4+	0.7-
1998 08 29	704	0.6+	1.4+	1998 09 26	699	0.1-	0.8-	1998 12 09	704	0.4-	1.3-
1998 08 29	704	0.7+	0.8+	1998 09 26	699	0.3+	0.1+	1998 12 09	704	0.5-	0.4-
1998 08 29	704	0.3+	0.3+	1998 10 02	704	0.7-	0.1+	1998 12 09	704	0.7+	0.4+
1998 08 29	704	1.5+	0.4-	1998 10 02	704	0.0	0.3+	1998 12 09	704	(2.9-	3.1-)
1998 09 14	327	0.5-	0.0	1998 10 02	704	0.1-	1.0+	2000 02 08	704	0.1-	0.3-
1998 09 14	327	1.2-	0.2+	1998 10 02	704	0.0	0.2-	2000 02 08	704	0.3+	1.0+
1998 09 14	327	0.7-	0.1-	1998 10 15	127	0.3-	1.9-	2000 02 08	704	0.5-	0.1+
1998 09 17	327	1.4+	0.0	1998 10 15	127	0.3+	1.3-	2000 02 08	704	0.4+	0.7+
1998 09 17	327	1.1+	0.0	1998 10 30	127	1.8-	0.6+				

1998 RJ₁₈ = 2000 CC₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	108.72399	(2000.0)		P	Q		
<i>n</i>	0.27606699	ω	91.62780	+0.88040720	-0.46686460		
<i>a</i>	2.3359295	Ω	296.21028	+0.38982693	+0.81239996		
<i>e</i>	0.0973127	<i>i</i>	5.32034	+0.27003357	+0.34934761		
<i>P</i>	3.57	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.1+	0.1+	1998 09 21	699	0.4-	0.8-	2000 02 12	704	0.6-	0.2+
1998 09 14	704	0.2-	0.0	1998 09 21	699	0.0	0.4-	2000 02 12	704	0.1+	1.1+
1998 09 14	704	1.0-	1.5+	2000 02 02	704	1.4+	0.8-	2000 02 12	704	0.3-	1.6+
1998 09 14	704	0.1+	0.6-	2000 02 02	704	1.1-	0.6-	2000 02 27	703	(2.4+	1.7+)
1998 09 14	704	0.3+	0.4+	2000 02 02	704	0.3-	0.0	2000 02 27	703	0.5-	0.3-
1998 09 15	699	0.1-	0.8+	2000 02 02	704	0.7-	0.6-	2000 02 27	703	0.4-	0.3-
1998 09 15	699	0.5+	0.5+	2000 02 02	704	1.0-	1.1-	2000 02 27	703	0.0	0.6+
1998 09 15	699	0.2-	0.5-	2000 02 04	704	0.5+	0.4+	2000 03 05	704	0.2+	0.4-
1998 09 18	704	0.2-	0.6+	2000 02 04	704	0.2-	1.2+	2000 03 05	704	0.2+	0.2+
1998 09 18	704	0.1+	1.0-	2000 02 04	704	0.8+	0.1-	2000 03 05	704	0.3-	0.2-
1998 09 18	704	0.8+	0.9-	2000 02 04	704	0.2+	0.5-	2000 03 05	704	1.1+	0.3-
1998 09 18	704	0.3-	0.3+	2000 02 04	704	1.3+	0.6+	2000 03 05	704	0.4-	0.2-
1998 09 18	704	0.1-	1.1+	2000 02 12	704	0.1+	0.5-				
1998 09 21	699	0.6+	1.0-	2000 02 12	704	0.1-	0.2+				

1998 RZ₂₁ = 2000 CJ₈₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	8.59677	(2000.0)		P	Q		
<i>n</i>	0.27622694	ω	146.40317	-0.80503812	-0.59320568		
<i>a</i>	2.3350277	Ω	357.19945	+0.52175177	-0.70438198		
<i>e</i>	0.1195527	<i>i</i>	5.33577	+0.28229191	-0.38981156		
<i>P</i>	3.57	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 15	691	0.2-	0.7+	1998 09 28	691	0.1-	0.3-	2000 02 11	704	0.7-	0.0
1998 09 15	691	0.0	0.6+	1998 09 28	691	0.2-	0.2-	2000 03 05	704	0.3+	0.0
1998 09 15	691	0.1+	0.7+	2000 02 01	703	0.3+	0.3-	2000 03 05	704	0.2+	0.1+
1998 09 24	691	1.3+	0.1-	2000 02 01	703	0.4+	0.1-	2000 03 05	704	0.0	0.4-
1998 09 24	691	0.7+	0.3-	2000 02 01	703	0.4-	0.3-	2000 03 05	704	0.3+	0.2-
1998 09 24	691	0.5+	0.2+	2000 02 01	703	0.3-	0.5-	2000 03 05	704	0.2+	0.2-
1998 09 26	704	(2.3-	1.1-)	2000 02 04	704	0.4+	0.3+	2000 03 06	704	0.4-	0.2+
1998 09 26	704	0.3-	1.3-	2000 02 04	704	0.3+	0.2-	2000 03 06	704	0.4-	0.3+
1998 09 26	704	(2.9-	0.8+)	2000 02 04	704	0.3+	1.1+	2000 03 06	704	0.0	0.6+
1998 09 26	704	1.8-	0.8+	2000 02 04	704	0.7+	0.9-	2000 03 06	704	0.1+	0.0
1998 09 27	704	0.2+	0.4-	2000 02 04	704	0.7+	0.3-	2000 03 11	699	0.2-	0.3-
1998 09 27	704	0.0	0.7+	2000 02 11	704	0.1-	0.4+	2000 03 11	699	0.3+	0.2-
1998 09 27	704	0.5-	1.1+	2000 02 11	704	0.8-	0.7+	2000 03 11	699	0.3+	0.1-
1998 09 27	704	0.5+	1.5-	2000 02 11	704	0.7-	0.3+	2000 03 11	699	0.0	0.1+
1998 09 28	691	0.2-	0.4-	2000 02 11	704	0.8-	0.0				

1998 RN₂₅ = 2000 AM₁₄₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	206.92672	(2000.0)		P	Q		
<i>n</i>	0.27914820	ω	285.22730	+0.10144216	+0.99479965		
<i>a</i>	2.3187085	Ω	350.58080	-0.89003188	+0.08665632		
<i>e</i>	0.1081117	<i>i</i>	3.19383	-0.44446905	+0.05351946		
<i>P</i>	3.53	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 02 04	566	0.3+	0.2+	1998 09 18	704	0.6-	0.4+	1999 12 15	704	0.5-	1.8-
1997 02 04	566	0.3+	0.2+	1998 09 18	704	1.0+	1.4-	1999 12 15	704	0.0	0.6-
1997 02 04	566	0.2-	0.4+	1998 09 18	699	0.1+	0.0	2000 01 06	704	0.2-	0.2+
1998 08 17	704	0.3+	0.8+	1998 09 18	704	0.8+	1.2+	2000 01 06	704	0.1-	0.5+
1998 08 17	704	0.7-	0.2+	1998 09 18	699	0.6-	0.6+	2000 01 06	704	1.6-	1.2+
1998 08 17	704	0.0	0.4+	1998 09 18	704	0.4-	0.6-	2000 01 08	704	0.2-	0.1+
1998 08 17	704	1.0-	0.0	1998 09 18	704	(0.5+	2.0+)	2000 01 08	704	0.2+	0.7-
1998 08 17	704	(4.1-	0.3+)	1998 09 18	699	0.1+	0.4-	2000 01 08	704	0.7+	0.4+
1998 08 30	699	0.3-	0.7+	1998 09 23	691	0.6+	0.1-	2000 01 08	704	0.0	0.1+
1998 08 30	699	0.7-	0.6+	1998 09 23	691	0.6+	0.1+	2000 01 08	704	0.7+	0.1-
1998 08 30	699	0.3-	0.7-	1998 09 23	691	0.6+	0.1+	2000 01 08	704	0.1-	0.2+
1998 09 14	704	0.5+	0.5+	1998 09 27	691	0.1+	0.1+	2000 01 08	704	0.2+	0.5-
1998 09 14	704	(0.2-	2.1-)	1998 09 27	691	0.3+	0.1+	2000 01 08	704	0.0	0.5+

M.P.C. 39218

2000 MAR. 20

1998 09 14 704 (1.6+ 2.2-) 1998 09 27 691 0.5+ 0.0 2000 01 08 704 0.0 1.4+
 1998 09 14 704 1.3- 1.6- 1999 12 15 704 0.9+ 0.7- 2000 01 08 704 0.1- 0.2+

1998 RM₂₈ = 2000 AJ₁₃₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	188.43484	(2000.0)	P	Q	
<i>n</i>	0.29296405	ω	136.42583	+0.53599954	+0.84413755
<i>a</i>	2.2452248	Ω	165.97273	-0.78716194	+0.50472380
<i>e</i>	0.1725138	<i>i</i>	2.76069	-0.30509108	+0.18079183
<i>P</i>	3.36	<i>H</i>	15.7	<i>G</i>	0.15 <i>U</i> 4

Residuals in seconds of arc

1998 08 23	704	0.1-	0.8+	1998 09 18	704	1.3+	1.5+	2000 01 08	684	0.2+	0.5+
1998 08 23	704	0.9-	1.6+	1998 09 18	704	0.8+	0.0	2000 01 09	684	0.2+	0.1+
1998 08 23	704	1.1+	0.2+	1998 09 18	704	0.9+	0.5+	2000 01 09	684	0.3-	0.4+
1998 08 23	704	0.7-	0.9-	1998 09 26	327	0.8-	0.6-	2000 02 02	704	0.8-	0.1+
1998 08 23	704	1.1-	0.7-	1998 09 26	327	0.6-	0.6-	2000 02 02	704	0.2+	0.1-
1998 09 14	704	0.2+	0.2+	1998 09 26	327	0.3-	0.5-	2000 02 02	704	0.4+	0.3+
1998 09 14	704	0.8+	0.4-	1998 09 29	327	1.5-	0.8-	2000 02 02	704	0.1+	0.5-
1998 09 14	704	0.2-	1.5-	1998 09 29	327	1.0-	0.5-	2000 02 03	704	0.8-	0.7-
1998 09 14	704	0.7+	0.5-	1998 09 29	327	1.2-	0.2-	2000 02 03	704	0.1+	0.4+
1998 09 18	699	0.4+	0.1+	1998 10 10	699	0.5+	0.0	2000 02 03	704	0.2-	0.6-
1998 09 18	699	0.6+	0.3+	1998 10 10	699	0.2-	0.2+	2000 02 03	704	0.8+	0.1-
1998 09 18	704	0.4-	0.6+	1998 10 10	699	0.5+	1.0+				
1998 09 18	699	0.7+	0.0	2000 01 08	684	0.3+	0.3+				

1998 RK₃₄ = 2000 DF₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	115.91883	(2000.0)	P	Q	
<i>n</i>	0.29562705	ω	11.49848	+0.81022821	-0.58422772
<i>a</i>	2.2317212	Ω	24.43543	+0.52834049	+0.69330184
<i>e</i>	0.0782022	<i>i</i>	6.52276	+0.25374512	+0.42191293
<i>P</i>	3.33	<i>H</i>	15.1	<i>G</i>	0.15 <i>U</i> 4

Residuals in seconds of arc

1998 08 30	699	0.9+	0.1-	1998 09 27	699	0.3+	0.0	2000 03 05	704	0.2+	0.2-
1998 08 30	699	0.1-	0.5-	1998 09 27	699	0.5+	0.5+	2000 03 05	704	0.3+	0.1-
1998 08 30	699	0.2+	0.1-	2000 02 11	704	0.4-	0.3-	2000 03 05	704	0.4+	0.1-
1998 09 14	704	0.2-	0.2+	2000 02 11	704	0.7-	0.3-	2000 03 05	704	0.4-	0.2+
1998 09 14	704	0.1-	0.5+	2000 02 11	704	0.1+	0.2-	2000 03 05	704	0.2-	0.1+
1998 09 14	704	1.0-	1.5-	2000 02 11	704	0.0	0.2-	2000 03 12	704	0.1+	0.2-
1998 09 14	704	1.7-	0.1+	2000 02 11	704	0.8+	1.5-	2000 03 12	704	0.3+	0.0
1998 09 18	704	(1.7- 2.3-)		2000 02 29	704	0.1+	0.1-	2000 03 12	704	0.4+	0.9+
1998 09 18	704	(3.0- 1.0-)		2000 02 29	704	0.2-	0.7+	2000 03 12	704	0.4+	0.0
1998 09 18	704	0.6+	0.1-	2000 02 29	704	0.2+	0.6+	2000 03 12	704	0.1+	0.0
1998 09 18	704	0.3-	1.5+	2000 02 29	704	0.6-	0.9+				
1998 09 27	699	0.7+	0.3+	2000 02 29	704	0.5-	0.7+				

1998 RQ₃₄ = 1982 FB₄ = 1999 XO₁₆₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	16.48202	(2000.0)	P	Q	
<i>n</i>	0.27071770	ω	119.89636	-0.61754423	-0.78614924
<i>a</i>	2.3666005	Ω	8.37368	+0.65053239	-0.52813839
<i>e</i>	0.1467957	<i>i</i>	9.75215	+0.44209358	-0.32099721
<i>P</i>	3.64	<i>H</i>	14.5	<i>G</i>	0.15 <i>U</i> 3

Residuals in seconds of arc

1982 03 29	809	0.2-	1.0+	1998 09 14	704	1.1-	1.0+	1999 12 15	704	0.3-	0.6-
1982 03 29	809	0.1-	0.9+	1998 09 18	699	1.7+	1.3+	2000 01 31	704	0.5+	0.7+
1982 03 29	809	0.2-	0.9+	1998 09 18	699	0.0	1.2+	2000 01 31	704	0.0	0.4+
1982 03 30	809	0.5+	0.1-	1998 09 18	704	0.8-	0.2+	2000 01 31	704	0.1+	1.0+
1982 03 30	809	0.7+	0.2-	1998 09 18	699	0.7+	1.2+	2000 03 04	704	0.7+	0.6+
1982 03 30	809	1.3+	0.3-	1998 09 18	704	(0.4- 2.8+)		2000 03 04	704	0.6+	0.9+

1982 04 01	809	(3.0- 1.1+)		1998 09 18	704	0.8+	0.4+	2000 03 04	704	0.4+	1.1+
1982 04 01	809	(2.7- 0.9+)		1998 09 18	704	1.3+	1.0+	2000 03 04	704	0.4+	1.2+
1982 04 01	809	(2.7- 1.0+)		1998 09 27	699	1.6-	1.7+	2000 03 04	704	0.2+	1.4+
1982 04 01	809	0.4+	0.2+	1998 09 27	699	1.9-	0.4-	2000 03 12	704	0.7-	0.2+
1982 04 01	809	0.1-	0.2+	1998 09 27	699	0.3-	0.7+	2000 03 12	704	0.7-	0.1+
1982 04 01	809	0.5-	0.1+	1999 12 08	704	0.2-	0.4-	2000 03 12	704	0.1+	0.8-
1998 08 23	704	0.3+	0.8-	1999 12 08	704	0.2+	0.2-	2000 03 12	703	0.0	0.7+
1998 08 23	704	0.5-	0.9+	1999 12 08	704	0.5-	0.3-	2000 03 12	704	0.4+	0.5-
1998 08 23	704	1.9-	0.5-	1999 12 08	704	1.1+	0.7-	2000 03 12	703	0.3+	0.5+
1998 08 23	704	(1.3- 2.9-)		1999 12 08	704	0.2+	0.6-	2000 03 12	704	0.5-	0.1-
1998 09 14	704	1.1-	0.4+	1999 12 15	704	0.9-	0.3-	2000 03 12	703	0.2-	0.1+
1998 09 14	704	0.1-	0.5+	1999 12 15	704	0.1-	0.2-	2000 03 12	703	1.0+	0.8+
1998 09 14	704	0.3-	0.1+	1999 12 15	704	0.7+	1.0-				

1998 RQ₄₆ = 1991 PX₂₁ = 2000 EO₂₂

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	163.21033	(2000.0)	P	Q	
<i>n</i>	0.28500302	ω	21.64944	+0.89861448	+0.43630055
<i>a</i>	2.2868433	Ω	312.39686	-0.41115748	+0.80069997
<i>e</i>	0.2578415	<i>i</i>	3.58626	-0.15310629	+0.41051357
<i>P</i>	3.46	<i>H</i>	16.3	<i>G</i>	0.15 <i>U</i> 3

Residuals in seconds of arc

1991 08 10	675	1.1+	0.5-	1998 09 18	704	0.2-	0.5+	1998 09 27	704	0.4-	0.2+
1991 08 10	675	0.5-	0.9-	1998 09 18	704	0.9+	0.2-	1998 10 14	699	0.0	0.8+
1998 08 23	704	0.9+	1.1-	1998 09 18	704	0.3-	0.4+	1998 10 14	699	0.3-	0.4+
1998 08 23	704	1.2+	1.4+	1998 09 18	704	0.3-	0.6+	1998 10 14	699	0.3-	0.7+
1998 08 23	704	0.3+	1.1+	1998 09 18	704	0.7-	0.7+	1998 12 09	704	(1.5+ 2.6-)	
1998 08 23	704	(4.8- 0.2-)		1998 09 26	704	0.0	0.1-	1998 12 09	704	(0.7+ 2.3-)	
1998 09 14	704	0.7-	0.3+	1998 09 26	704	0.2-	1.3-	1998 12 09	704	1.9+	1.7-
1998 09 14	704	0.8-	0.0	1998 09 26	704	0.2+	1.1-	2000 03 03	691	0.3-	0.1-
1998 09 14	704	1.1+	0.5+	1998 09 26	704	0.7-	0.2-	2000 03 03	691	0.3-	0.0
1998 09 14	704	0.9+	0.2-	1998 09 26	704	0.6-	0.8-	2000 03 03	691	0.2-	0.0
1998 09 16	699	0.2-	0.1+	1998 09 27	704	0.8-	0.5-	2000 03 09	691	0.2+	0.1-
1998 09 16	699	0.1-	0.0	1998 09 27	704	0.2-	0.3-	2000 03 09	691	0.4+	0.3-
1998 09 16	699	0.4-	0.2+	1998 09 27	704	0.2+	0.1-	2000 03 09	691	0.0	0.0

1998 RK₄₈ = 2000 AC₈₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	296.83680	(2000.0)	P	Q	
<i>n</i>	0.23407004	ω	329.30221	-0.99887620	+0.02995771
<i>a</i>	2.6075871	Ω	212.47648	-0.01551343	-0.93887629
<i>e</i>	0.1277401	<i>i</i>	3.92202	-0.04478468	-0.34294877
<i>P</i>	4.21	<i>H</i>	14.6	<i>G</i>	0.15 <i>U</i> 5

Residuals in seconds of arc

1998 09 14	704	1.6-	1.3-	1998 09 26	704	0.4-	0.0	2000 01 05	704	0.2-	0.8-
1998 09 14	704	0.3-	1.5+	1998 09 27	704	0.6+	0.5-	2000 01 05	704	0.5+	0.8-
1998 09 14	704	0.8-	0.9+	1998 09 27	704	1.4+	1.8+	2000 01 05	704	0.4+	0.5+
1998 09 14	704	0.2+	0.1+	1998 09 27	704	0.5+	0.4-	2000 01 05	704	0.1+	0.2-
1998 09 18	704	1.1+	0.7-	1998 09 27	704	0.3-	0.0	2000 01 06	704	0.8-	0.4-
1998 09 18	704	0.1+	0.0	1998 09 27	704	1.4-	0.3-	2000 01 06	704	0.2-	0.1-
1998 09 18	704	1.2+	0.7+	1999 12 08	704	0.6+	0.0	2000 01 06	704	0.6-	0.6+
1998 09 26	704	0.1+	0.9-	1999 12 08	704	0.4-	0.4+	2000 01 06	704	0.4+	0.6+
1998 09 26	704	0.2-	0.4+	1999 12 08	704	0.5+	0.4+	2000 01 06	704	0.4+	0.3+
1998 09 26	704	0.3-	1.3-	1999 12 08	704	0.6-	0.4-				

2000 MAR. 20

M.P.C. 39219

1998 RQ₄₈ = 2000 EF₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	97.62049		(2000.0)		P		Q				
<i>n</i>	0.24109875	ω	86.64212		+0.69577195		−0.71791863				
<i>a</i>	2.5566586	Ω	319.23896		+0.64473375		+0.63788812				
<i>e</i>	0.2675064	<i>i</i>	1.95130		+0.31657508		+0.27873212				
<i>P</i>	4.09	<i>H</i>	16.1		<i>G</i>	0.15	<i>U</i>	5			
Residuals in seconds of arc											
1998 09 14	704	0.2+	0.3+	1998 09 26	704	0.8−	0.3+	2000 03 11	704	0.1−	0.2+
1998 09 14	704	1.5+	0.4+	1998 09 26	704	0.9−	0.4−	2000 03 11	704	1.2−	1.5+
1998 09 14	704	1.4+	0.3−	1998 09 26	704	0.4−	1.4−	2000 03 14	691	0.1−	0.4−
1998 09 14	704	0.5−	0.4+	1998 09 26	704	0.4−	0.1+	2000 03 14	691	0.5+	0.3−
1998 09 14	704	1.3−	1.0+	1998 09 27	704	0.3−	0.7+	2000 03 14	691	0.2+	0.2−
1998 09 18	704	0.9+	0.1+	1998 09 27	704	0.0	0.1−	2000 03 15	691	0.7+	0.2−
1998 09 18	704	0.7−	0.7+	1998 09 27	704	0.1+	1.1−	2000 03 15	691	0.7+	0.1−
1998 09 18	704	1.0+	0.4−	1998 09 27	704	0.1−	0.8−	2000 03 15	691	0.9+	0.1−
1998 09 18	704	0.8−	0.2−	1998 09 27	704	0.9+	0.9+	2000 03 15	691	0.2+	0.2−
1998 09 18	704	0.8−	0.5+	2000 03 11	704	0.9−	0.7+	2000 03 15	691	0.1+	0.2−
1998 09 26	704	0.2+	0.6+	2000 03 11	704	0.2−	1.4+	2000 03 15	691	0.2+	0.4−

1998 RP₄₉ = 2000 AX₂₃₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	56.70366		(2000.0)			P		Q			
<i>n</i>	0.18055955	ω	295.46270			+0.65272899		−0.75673619			
<i>a</i>	3.1001954	Ω	113.74128			+0.70843320		+0.59285258			
<i>e</i>	0.1808558	<i>i</i>	2.25324			+0.26845349		+0.27545627			
<i>P</i>	5.46	<i>H</i>	14.7		<i>G</i>	0.15		<i>U</i>	4		
Residuals in seconds of arc											
1998 08 27	809	0.8+	1.0−	1998 09 18	704	0.5−	1.3+	2000 01 04	704	0.0	0.9+
1998 08 27	809	0.6+	1.9−	1998 09 18	704	0.5−	1.2+	2000 01 04	704	0.2+	0.6+
1998 08 27	809	0.5+	1.2−	1998 09 18	704	0.7−	0.9+	2000 01 04	704	0.5−	0.0
1998 09 14	704	(0.3−	2.1−)	1998 09 26	704	0.9+	1.0−	2000 01 07	691	(0.9+	2.2−
1998 09 14	704	0.8+	0.5+	1998 09 26	704	(3.0+	0.1+)	2000 01 07	691	0.1+	0.4−
1998 09 14	704	1.7−	1.2−	1998 09 26	704	0.0	0.4−	2000 01 07	691	0.1−	0.3−
1998 09 14	704	0.8−	1.6+	1998 09 26	704	1.3−	0.8+	2000 01 28	691	0.5+	0.8−
1998 09 14	704	0.3+	0.2−	1998 09 26	704	0.3+	1.3+	2000 01 28	691	0.0	0.6−
1998 09 17	699	0.1−	0.2−	1998 09 27	704	0.3+	0.1+	2000 01 28	691	0.3+	0.8−
1998 09 17	699	(2.2+	0.1+)	1998 09 27	704	0.9+	0.8+	2000 01 30	704	0.6−	0.3+
1998 09 17	699	0.3+	0.1+	1998 09 27	704	0.0	0.5+	2000 01 30	704	0.4+	0.8+
1998 09 18	704	1.7+	0.4−	1998 09 27	704	0.7−	1.5−	2000 01 30	704	1.1−	0.5−
1998 09 18	704	0.7−	0.7−	2000 01 04	704	0.9+	0.3+				

1998 RB₅₀ = 2000 AY₁₅₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	90.88804		(2000.0)		P		Q				
<i>n</i>	0.21034678	ω	336.41324		+0.93857740		−0.34146203				
<i>a</i>	2.8001339	Ω	43.65310		+0.32696013		+0.83392554				
<i>e</i>	0.1041700	<i>i</i>	4.13386		+0.11031562		+0.43355723				
<i>P</i>	4.69 <th><i>H</i></th> <td>14.4</td> <td></td> <th><i>G</i></th> <td>0.15</td> <th><i>U</i></th> <td>4</td> <td></td>	<i>H</i>	14.4		<i>G</i>	0.15	<i>U</i>	4			
Residuals in seconds of arc											
1998 08 26	809	(3.1−	1.0−)	1998 09 24	699	0.3−	0.2+	1999 12 15	704	1.2+	1.8+
1998 08 26	809	(3.9−	1.1−)	1998 09 24	699	0.8−	0.1+	2000 01 03	704	0.2+	0.9−
1998 08 26	809	(4.8−	1.2−)	1998 09 26	704	1.3+	1.5−	2000 01 03	704	0.3+	1.1−
1998 09 14	704	0.0	1.0+	1998 09 26	704	(0.2+	2.4−)	2000 01 03	704	0.3+	0.2−
1998 09 14	704	0.1+	0.4−	1998 09 26	704	0.9+	0.4−	2000 01 04	704	0.6−	0.4−
1998 09 14	704	0.4+	0.8−	1998 09 26	704	1.0−	0.5+	2000 01 04	704	0.1+	0.2+
1998 09 14	704	0.3+	0.5+	1998 09 27	704	0.9+	1.0−	2000 01 04	704	0.2−	0.4−
1998 09 14	704	0.6−	0.7+	1998 09 27	704	0.4−	1.1+	2000 01 04	704	0.9+	0.1+
1998 09 18	704	1.5−	0.4+	1998 09 27	704	1.2+	0.3+	2000 01 04	704	0.2+	0.6−
1998 09 18	704	0.3−	0.9−	1998 09 27	704	0.3+	1.3+	2000 01 31	704	0.1−	0.6+

1998 09 18	704	1.3−	1.9−	1998 09 27	704	1.3+	0.7+	2000 01 31	704	0.3−	0.7+
1998 09 18	704	1.0+	0.7−	1999 12 15	704	1.2−	0.0	2000 01 31	704	0.3−	0.6+
1998 09 18	704	0.0	0.3+	1999 12 15	704	0.3+	0.8−				
1998 09 24	699	0.1+	0.5+	1999 12 15	704	0.9−	0.5+				

1998 RE₅₀ = 1999 XJ₁₅₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	223.42072		(2000.0)		P		Q				
n	0.24147972	ω	109.25377		−0.39848334		+0.91567870				
a	2.5539689	Ω	137.14366		−0.86776348		−0.35790826				
e	0.1265164	i	4.41668		−0.29698076		−0.18285018				
P	4.08	H	14.4	G	0.15	U	5				
Residuals in seconds of arc											
1998 09 14	704	0.0	0.7+	1998 09 18	704	0.6+	1.8−	1999 12 08	704	1.0+	0.0
1998 09 14	704	0.2+	0.6−	1998 09 18	704	0.2+	0.8−	1999 12 08	704	0.2+	0.4−
1998 09 14	704	1.0−	0.8+	1998 09 18	704	0.7−	0.3+	1999 12 14	704	0.2+	0.8−
1998 09 14	704	0.0	0.3−	1998 09 26	704	0.0	0.2+	1999 12 14	704	0.4−	0.3−
1998 09 14	704	0.3+	0.0	1998 09 26	704	(0.3+	2.1−)	1999 12 14	704	0.3+	0.7+
1998 09 14	704	0.4+	0.2+	1998 09 26	704	0.5+	0.5−	1999 12 14	704	0.7−	1.2−
1998 09 14	704	1.4−	0.2−	1998 09 26	704	0.6−	2.0−	1999 12 14	704	0.0	0.3+
1998 09 14	704	0.8+	0.6+	1998 09 26	704	(2.3−	1.1−)	1999 12 14	704	0.2+	0.0
1998 09 14	704	0.2+	1.5−	1998 09 27	704	0.2−	1.9−	1999 12 14	704	0.3+	1.1+
1998 09 14	704	1.1−	1.1+	1998 09 27	704	0.8+	1.6+	2000 01 05	704	0.1−	0.2+
1998 09 17	699	(0.6+	2.4−)	1998 09 27	704	0.0	0.6+	2000 01 05	704	0.5−	0.5−
1998 09 17	699	0.8+	1.4+	1998 09 27	704	(2.8−	0.9+)	2000 01 05	704	0.4+	0.8+
1998 09 17	699	0.3+	0.7+	1999 12 08	704	0.2−	0.4−	2000 01 05	704	0.1+	0.6+
1998 09 18	704	0.6+	0.2−	1999 12 08	704	0.9−	0.7−				
1998 09 18	704	0.9−	1.6+	1999 12 08	704	0.0	0.7+				

1998 RT₅₁ = 2000 AL₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	72.47749		(2000.0)		P		Q				
n	0.17434732	ω	110.18343		+0.93140018		−0.35282204				
a	3.1734077	Ω	270.56141		+0.29152788		+0.87029547				
e	0.0852466	i	5.13511		+0.21795688		+0.34366031				
P	5.65	H	14.8	G	0.15		U	5			
Residuals in seconds of arc											
1998 09 14	704	0.3+	1.6−	1998 09 26	704	0.7−	0.9−	2000 01 03	704	0.7−	0.2−
1998 09 14	704	0.5+	0.5−	1998 09 26	704	(2.3−	0.2−)	2000 01 03	704	0.0	0.2+
1998 09 14	704	1.7+	0.6+	1998 09 27	704	0.9+	1.1−	2000 01 03	704	0.2−	0.2+
1998 09 18	704	(1.0+	2.4−)	1998 09 27	704	1.0−	0.1−	2000 01 03	704	0.1−	0.7−
1998 09 18	704	0.9−	1.2+	1998 09 27	704	1.1+	0.9+	2000 01 03	704	0.2−	1.0−
1998 09 18	704	1.0−	0.2+	1998 09 27	704	0.2−	0.2−	2000 01 05	704	0.1−	0.2+
1998 09 18	704	0.5+	0.6−	1998 09 27	699	0.5+	0.5+	2000 01 05	704	0.4+	0.2+
1998 09 18	704	0.5−	1.0−	1998 09 27	704	1.9−	0.3+	2000 01 05	704	0.2+	0.2+
1998 09 26	704	0.7−	0.1+	1998 09 27	699	1.8+	1.3+	2000 01 05	704	0.3+	0.5+
1998 09 26	704	0.6−	0.6+	1998 09 27	699	0.1+	0.4+	2000 01 05	704	0.4+	0.3+

1998 RP₅₄ = 1985 XR₁ = 2000 EE₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.29357859	<i>ω</i>	141.60489		+0.88809787		−0.45609054
<i>a</i>	2.2420905	<i>Ω</i>	245.62075		+0.40471231		+0.83480487
<i>e</i>	0.1670990	<i>i</i>	3.59598		+0.21792228		+0.30835411
<i>P</i>	3.36	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc (or two decimals in units of degrees)							
1985 12 14	675 (0.15+ 0.02−)	1998 09 26	704	0.1+ 0.4+	1998 10 22	327	0.1− 0.3−
1985 12 14	675 (0.15+ 0.02−)	1998 09 26	704	0.3− 1.2−	1998 10 27	327	0.8− 0.3−
1998 08 27	699 0.4+ 0.5−	1998 09 26	704	0.1− 1.2−	1998 10 27	327	0.3− 0.9−
1998 08 27	699 0.4− 0.1−	1998 09 26	704	0.6+ 0.4−	1998 10 27	327	0.1+ 0.1−
1998 08 27	699 0.5− 0.3+	1998 09 26	704	0.5− 0.9−	2000 03 01	703	0.5+ 0.7−

M.P.C. 39220

2000 MAR. 20

1998 09 14	704	0.1−	0.6+	1998 09 27	704	1.2−	1.6+	2000 03 01	703	1.4−	0.5−
1998 09 14	704	1.3+	1.1−	1998 09 27	704	0.2+	1.4+	2000 03 01	703	0.4+	1.6−
1998 09 14	704	0.0	0.5+	1998 09 27	704	0.5−	1.2+	2000 03 01	703	0.9+	1.0+
1998 09 14	704	1.1−	0.1−	1998 09 27	704	0.2+	1.0+	2000 03 04	688	0.4−	0.8+
1998 09 14	704	0.2−	0.4+	1998 09 27	704	0.2−	0.6+	2000 03 04	688	0.2−	0.0
1998 09 18	704	0.5+	0.1−	1998 10 15	699	0.4−	0.5−	2000 03 09	704	0.9+	0.3−
1998 09 18	704	0.5+	0.5−	1998 10 15	699	0.5+	0.9+	2000 03 09	704	0.5−	0.8+
1998 09 18	699	0.3+	0.1−	1998 10 15	699	0.2−	0.5+	2000 03 09	704	0.4+	0.3+
1998 09 18	704	0.7+	0.1−	1998 10 20	327	0.3+	0.1−	2000 03 09	704	0.1−	0.6+
1998 09 18	704	0.3+	0.1−	1998 10 20	327	0.2+	0.1−	2000 03 13	704	0.3+	0.3+
1998 09 18	699	0.3−	0.1+	1998 10 20	327	0.2+	0.1+	2000 03 13	704	0.7−	0.1−
1998 09 18	704	0.9+	0.0	1998 10 22	327	0.1+	0.0	2000 03 13	704	0.0	1.0−
1998 09 18	699	0.4−	0.3−	1998 10 22	327	0.1+	0.3−	2000 03 13	704	0.2+	0.9+

1998 RF₅₅ = 2000 DN₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	127.47937		(2000.0)	P	Q		
<i>n</i>	0.28404034	ω	56.23825	+0.88249593	−0.46768844		
<i>a</i>	2.2920075	Ω	331.55255	+0.38962173	+0.78615402		
<i>e</i>	0.1267419	<i>i</i>	5.98685	+0.26343091	+0.40401657		
<i>P</i>	3.47	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	1.5−	1.2−	1998 09 27	704	0.5+	1.2−	2000 02 29	704	0.1−	0.6−
1998 09 14	704	1.1−	0.4+	1998 09 27	704	0.8+	0.7−	2000 02 29	704	0.1+	1.3−
1998 09 14	704	0.0	0.9+	1998 10 01	327	0.2+	0.2+	2000 02 29	704	1.3−	0.7−
1998 09 14	704	0.1−	1.4+	1998 10 01	327	0.2+	0.2+	2000 03 03	704	0.0	0.4−
1998 09 16	699	1.6−	0.0	1998 10 01	327	0.2+	0.2+	2000 03 03	704	0.3−	0.3−
1998 09 16	699	0.0	0.3+	1998 10 15	699	0.7+	1.6+	2000 03 03	704	0.5−	0.3+
1998 09 16	699	0.5+	0.2+	1998 10 15	699	0.1−	0.4+	2000 03 03	704	0.2+	0.0
1998 09 18	704	0.8+	0.1−	1998 10 15	699	0.4−	0.3+	2000 03 03	704	0.1+	0.3+
1998 09 18	704	0.1+	0.0	2000 02 02	704	0.7+	0.9+	2000 03 09	704	0.4+	0.2+
1998 09 18	704	0.2+	0.1+	2000 02 02	704	0.5+	0.4+	2000 03 09	704	0.2+	0.0
1998 09 18	704	0.4−	0.9+	2000 02 02	704	1.2+	1.2−	2000 03 09	704	0.3+	0.2+
1998 09 18	704	0.3−	0.3−	2000 02 16	703	1.3−	0.7+	2000 03 09	704	0.3−	0.6−
1998 09 26	704	0.1+	0.1−	2000 02 16	703	0.4+	1.0+	2000 03 09	704	0.0	1.0−
1998 09 26	704	0.1+	0.9−	2000 02 16	703	1.0+	1.2+	2000 03 11	704	0.2−	0.0
1998 09 26	704	0.7+	1.4−	2000 02 16	703	0.8+	0.7−	2000 03 11	704	0.4−	0.1+
1998 09 26	704	0.0	0.5−	2000 02 27	703	0.1−	0.0	2000 03 11	704	0.6−	0.2+
1998 09 26	704	0.0	1.3−	2000 02 27	703	0.0	0.1−	2000 03 11	704	0.6−	0.3+
1998 09 27	704	0.2+	0.1−	2000 02 27	703	0.1+	0.0	2000 03 11	704	0.3−	0.2+
1998 09 27	704	0.6+	1.0+	2000 02 27	703	0.1−	0.3+				
1998 09 27	704	0.0	0.8−	2000 02 29	704	0.1+	0.0				

1998 RO₅₅ = 2000 CS₃₅

Id. M. E. Sansaturio, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	340.55567		(2000.0)	P	Q		
<i>n</i>	0.28887301	ω	273.95480	−0.99266458	−0.09383377		
<i>a</i>	2.2663731	Ω	260.67271	+0.11611971	−0.91554051		
<i>e</i>	0.1096889	<i>i</i>	4.43107	−0.03366381	−0.39112759		
<i>P</i>	3.41	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.3−	0.8−	1999 12 05	704	0.1−	1.0+	2000 02 02	704	0.0	0.3−
1998 09 14	704	0.1+	0.2+	1999 12 05	704	0.2−	0.5+	2000 02 05	704	0.4−	0.6+
1998 09 18	704	0.0	0.3+	1999 12 14	704	0.8−	0.2−	2000 02 05	704	0.5+	0.1+
1998 09 18	704	0.7+	0.4+	1999 12 14	704	0.8−	0.4−	2000 02 05	704	0.3−	0.4+
1998 09 18	704	0.6−	0.5+	1999 12 14	704	0.1+	0.6−	2000 02 06	704	0.1−	0.3+
1998 09 18	704	0.6+	0.7+	1999 12 14	704	0.2+	0.8−	2000 02 06	704	0.2+	0.1+
1998 09 18	704	1.5−	0.8+	2000 01 05	704	0.2+	0.2−	2000 02 06	704	0.1+	0.3+
1998 09 26	704	1.3−	0.0	2000 01 05	704	0.8+	0.5−	2000 02 06	704	0.3+	0.6+
1998 09 26	704	0.6−	1.3−	2000 01 05	704	0.3+	0.1−	2000 02 06	704	0.2+	0.4+
1998 09 26	704	0.8+	0.0	2000 01 05	704	1.2+	1.0−	2000 02 12	704	0.3−	0.2+
1998 09 26	704	0.8+	0.4+	2000 01 05	704	0.1−	1.1−	2000 02 12	704	0.1−	0.5−
1998 09 26	704	0.6−	0.1−	2000 01 08	704	0.5+	0.2+	2000 02 12	704	0.2−	0.0

1998 09 27	704	1.4+	0.1−	2000 01 08	704	0.1−	0.3+	2000 02 12	704	0.1+	0.5+
1998 09 27	704	0.8+	0.7+	2000 01 08	704	0.7−	0.5+	2000 02 12	704	0.5−	0.4+
1998 09 27	704	1.0+	0.9−	2000 01 08	704	(1.5+	3.0−)	2000 03 06	704	0.5−	0.0
1998 09 27	704	0.5−	0.7−	2000 01 08	704	1.2−	1.8−	2000 03 06	704	0.2+	0.6−
1998 09 27	704	0.8−	0.2−	2000 02 02	704	0.2+	0.1+	2000 03 06	704	0.3+	0.3−
1999 12 05	704	0.5+	1.4+	2000 02 02	704	0.1+	0.2+	2000 03 06	704	0.0	0.1−
1999 12 05	704	0.3+	1.3+	2000 02 02	704	0.4−	0.3−				
1999 12 05	704	0.5+	0.2−	2000 02 02	704	0.0	0.4−				

1998 RX₅₅ = 1992 EF₁₂ = 1999 XK₂₁₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	262.30824		(2000.0)	P	Q		
<i>n</i>	0.22554268	ω	225.24053	−0.87390325	+0.48338334		
<i>a</i>	2.6729052	Ω	343.45148	−0.37937322	−0.74422736		
<i>e</i>	0.1627999	<i>i</i>	10.38004	−0.30392280	−0.46094055		
<i>P</i>	4.37	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 03 06	809	1.1−	1.0+	1998 09 26	704	0.6−	1.6−	1999 11 01	704	0.1+	0.3−
1992 03 08	809	0.6+	0.1+	1998 09 26	704	0.2−	1.6+	1999 11 01	704	0.5+	0.0
1992 03 09	809	0.8+	0.6−	1998 09 26	704	0.4−	0.3+	1999 12 13	704	0.1+	1.3−
1998 09 14	704	0.2−	0.5+	1998 09 26	704	0.0	0.5−	1999 12 13	704	0.2+	0.5−
1998 09 14	704	0.3−	0.4−	1998 09 27	704	0.9−	0.0	1999 12 13	704	0.1+	0.5−
1998 09 14	704	(0.5−	2.6+)	1998 09 27	704	0.4+	0.5+	1999 12 15	704	0.2+	0.2−
1998 09 18	704	0.4−	1.2+	1998 09 27	704	(2.2−	0.3+)	1999 12 15	704	1.0−	0.1+
1998 09 18	704	1.3+	1.0−	1998 10 22	327	0.3+	0.5−	1999 12 15	704	0.6−	0.9+
1998 09 18	704	0.6+	1.3+	1998 10 22	327	0.0	0.5−	2000 01 02	704	1.0−	0.6+
1998 09 18	704	0.4+	0.9−	1998 10 22	327	0.1−	0.7−	2000 01 02	704	0.8+	0.8+
1998 09 18	704	0.5+	1.3+	1999 11 01	704	0.2−	0.5+	2000 01 02	704	0.1−	0.3+
1998 09 26	704	0.7−	0.0	1999 11 01	704	0.2+	0.4−	2000 01 02	704	0.8+	0.3−

1998 RE₅₆ = 2000 AU₁₈₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	305.13400		(2000.0)	P	Q		
<i>n</i>	0.24210444	ω	335.52852	−0.99667086	+0.06053120		
<i>a</i>	2.5495736	Ω	208.10776	−0.04134692	−0.95264035		
<i>e</i>	0.1192832	<i>i</i>	6.65729	−0.07026828	−0.29801399		
<i>P</i>	4.07	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.2+	0.1−	1998 09 26	704	1.0−	0.5−	1999 12 14	704	0.0	1.0−
1998 09 14	704	0.6−	1.2−	1998 09 26	704	0.9+	1.2+	1999 12 14	704	1.4+	1.1+
1998 09 14	704	0.3−	0.0	1998 09 26	704	0.1+	0.9+	1999 12 14	704	0.1+	0.2−
1998 09 16	699	0.2+	0.4−	1998 09 27	704	0.1−	0.3+	1999 12 14	704	0.6+	0.6−
1998 09 16	699	0.1−	1.1+	1998 09 27	704	0.4+	0.3+	2000 01 07	704	0.3−	0.0
1998 09 16	699	1.0−	0.6+	1998 09 27	704	0.3−	1.2+	2000 01 07	704	0.6+	1.2+
1998 09 18	704	0.5−	0.4−	1998 09 27	704	0.4−	1.3+	2000 01 07	704	1.0−	0.7+
1998 09 18	704	0.4−	0.9+	1999 12 05	704	0.1+	0.0	2000 01 11	704	0.6−	0.3−
1998 09 18	704	0.2+	1.3−	1999 12 05	704	0.1+	0.2−	2000 01 11	704	0.4+	0.1−
1998 09 18	704	1.0+	1.5−	1999 12 05	704	0.4−	0.0	2000 01 11	704	0.2+	0.2+
1998 09 18	704	1.3+	0.6−	1999 12 05	704	0.1+	0.1+	2000 01 11	704	0.1+	0.4−
1998 09 26	704	0.3+	1.7−	1999 12 14	704	1.0−	0.4−	2000 01 11	704	0.2−	0.2−

1

2000 MAR. 20

M.P.C. 39221

Residuals in seconds of arc

1998 09 14	704	0.0	0.1−	1998 09 27	699	0.1+	0.1−	2000 02 06	704	0.4+	0.3+
1998 09 14	704	0.8−	0.4+	1998 09 27	704	1.5+	0.7+	2000 02 12	704	0.4−	0.2+
1998 09 14	704	0.1−	0.7+	1998 09 27	699	0.2−	0.1+	2000 02 12	704	0.6−	0.3+
1998 09 18	704	1.2−	0.0	1998 09 27	704	0.2−	0.8+	2000 02 12	704	0.6−	0.1+
1998 09 18	704	0.1−	0.5+	1998 09 27	704	0.2+	0.5−	2000 02 12	704	0.1−	0.4+
1998 09 18	704	0.8−	0.4+	1998 09 27	704	0.8+	0.2−	2000 02 12	704	1.0−	0.3−
1998 09 18	704	1.2−	0.1+	1998 09 27	704	1.0+	0.5−	2000 02 13	704	0.1−	0.1−
1998 09 18	704	(0.6− 2.2+)		1998 10 14	699	0.4−	1.7+	2000 02 13	704	1.8+	1.5+
1998 09 25	699	0.3−	0.3+	1998 10 14	699	1.1−	0.7+	2000 02 13	704	0.2+	0.3+
1998 09 25	699	0.2−	0.4+	1998 10 14	699	0.8−	0.6+	2000 02 13	704	0.4−	0.4+
1998 09 25	699	0.2−	0.6+	2000 02 02	704	0.3+	0.2−	2000 03 05	608	0.0	0.5−
1998 09 26	704	1.3+	1.1−	2000 02 02	704	0.0	1.1−	2000 03 05	608	0.1−	0.1−
1998 09 26	704	1.8+	0.2+	2000 02 02	704	0.2+	0.5−	2000 03 05	608	0.2−	0.9−
1998 09 26	704	0.2+	0.5−	2000 02 02	704	0.1−	0.2−	2000 03 10	608	0.2−	0.7−
1998 09 26	704	0.2+	1.1−	2000 02 02	704	0.2−	0.5−	2000 03 10	608	0.2+	0.6−
1998 09 26	704	0.9+	1.0−	2000 02 05	704	0.1−	0.2−	2000 03 10	608	0.1−	1.2−
1998 09 26	704	1.1−	1.5−	2000 02 05	704	0.2+	0.1−	2000 03 13	704	0.0	0.8+
1998 09 26	704	1.1+	1.6−	2000 02 05	704	0.1−	0.0	2000 03 13	704	0.7+	0.2+
1998 09 26	704	0.6−	0.9−	2000 02 06	704	0.4+	0.4+	2000 03 13	704	0.7−	0.2+
1998 09 26	704	0.1+	0.8−	2000 02 06	704	0.2+	0.1+	2000 03 13	704	0.1−	0.6+
1998 09 26	704	0.8−	0.1+	2000 02 06	704	0.3+	0.1+	2000 03 13	704	0.9−	0.0
1998 09 27	699	0.8+	1.2+	2000 02 06	704	0.8+	0.6+				

1998 RV₅₆ = 2000 AU₂₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	81.47291		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17482503	ω	46.05084	+0.96480117	−0.26058914
a	3.1676241	Ω	329.00406	+0.21729576	+0.86573357
e	0.1469786	i	3.93984	+0.14812581	+0.42731568
P	5.64	H	13.8	G 0.15	U 4

Residuals in seconds of arc

1998 09 14	704	0.2+	0.4+	1998 09 26	704	0.6+	1.6−	1999 12 15	704	0.7−	0.5+
1998 09 14	704	0.5+	1.0+	1998 09 27	704	0.3+	0.3−	1999 12 15	704	0.6+	2.0+
1998 09 14	704	(2.7− 1.6+)		1998 09 27	704	0.7+	0.2−	1999 12 15	704	0.4+	0.5+
1998 09 16	699	0.0	0.4−	1998 09 27	704	0.3−	0.8+	2000 01 03	704	0.7−	0.6+
1998 09 16	699	0.3+	0.3+	1998 09 27	704	0.5+	1.0+	2000 01 03	704	0.1+	0.4−
1998 09 16	699	0.4+	0.4−	1998 09 27	704	0.4−	0.4+	2000 01 03	704	0.1−	0.8−
1998 09 18	704	0.3+	0.3−	1998 09 27	704	0.8−	0.5+	2000 01 03	704	0.2+	0.3+
1998 09 18	704	0.5−	1.1−	1998 09 27	704	0.7−	1.1−	2000 01 03	704	0.2+	0.1−
1998 09 18	704	(2.8+ 0.3−)		1998 09 27	704	0.5−	0.1+	2000 01 04	704	0.1−	0.2+
1998 09 18	704	(1.5− 2.0−)		1998 09 27	704	0.7−	0.1−	2000 01 04	704	0.0	1.0−
1998 09 18	704	0.4−	0.4+	1998 09 27	704	0.9−	0.3+	2000 01 04	704	0.4−	0.6−
1998 09 26	704	0.2−	0.3+	1998 10 14	699	0.3−	0.3+	2000 01 04	704	0.6+	1.2−
1998 09 26	704	0.1+	0.2−	1998 10 14	699	1.1+	0.4+				
1998 09 26	704	1.2+	1.1−	1998 10 14	699	0.4−	0.4+				

1998 RE₅₈ = 2000 DW₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	142.10679		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.26788433	ω	189.57626	+0.99743882	+0.06924649
a	2.3832586	Ω	166.41431	−0.05953765	+0.94258076
e	0.2393247	i	4.37242	−0.03963659	+0.32672073
P	3.68	H	15.0	G 0.15	U 4

Residuals in seconds of arc

1998 09 14	704	0.4+	0.8+	1998 09 27	704	0.2−	0.5−	2000 02 29	704	0.1+	0.0
1998 09 14	704	0.0	1.0+	1998 09 27	704	0.2−	0.1−	2000 02 29	704	0.1+	0.4−
1998 09 14	704	0.7−	0.0	1998 09 27	704	0.1−	0.5+	2000 02 29	704	0.1+	0.9+
1998 09 18	704	0.0	0.4+	1998 09 27	704	0.1+	0.8+	2000 03 03	704	0.4+	0.3+
1998 09 18	704	0.3−	1.0+	1998 09 27	704	0.6+	0.1−	2000 03 03	704	0.5+	0.2+
1998 09 18	704	0.4+	0.5+	1998 10 17	699	0.4+	0.2+	2000 03 03	704	0.1+	0.4+
1998 09 18	704	0.4−	0.3+	1998 10 17	699	0.7−	0.4−	2000 03 03	704	0.0	0.3+
1998 09 18	704	0.1−	1.4+	1998 10 17	699	0.1−	1.8−	2000 03 03	704	0.8+	0.4+

1998 09 26	704	0.1−	0.3−	2000 02 11	704	0.6+	0.6−	2000 03 05	704	0.9+	1.4+
1998 09 26	704	0.0	0.7−	2000 02 11	704	0.6−	1.0+	2000 03 05	704	0.2−	0.6−
1998 09 26	704	0.4+	0.5−	2000 02 11	704	1.1−	1.2+	2000 03 05	704	1.4−	1.0−
1998 09 26	704	0.2−	0.7−	2000 02 29	704	0.0	0.9−	2000 03 05	704	0.3−	0.0
1998 09 26	704	0.8+	0.7−	2000 02 29	704	0.6+	0.7−				

1998 RS₅₈ = 2000 DE₆₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	54.51203		(2000.0)	P	Q
n	0.22773895	ω	100.90615	+0.05149889	−0.99858666
a	2.6556928	Ω	346.12160	+0.89354538	+0.05194791
e	0.1916566	i	3.13925	+0.44600954	+0.01122911
P	4.33	H	14.7	G 0.15	U 4

Residuals in seconds of arc

1998 09 14	704	0.3+	1.2+	1998 09 27	704	0.3−	0.1−	2000 03 03	704	0.3+	0.0
1998 09 14	704	1.2−	0.6−	1998 09 27	704	1.2+	0.4+	2000 03 03	704	0.3+	0.2+
1998 09 18	704	0.8−	0.1+	1998 09 27	704	0.1−	0.9−	2000 03 03	704	0.4+	0.6+
1998 09 18	704	0.6+	0.9+	1998 09 27	704	0.7+	0.9+	2000 03 03	704	0.4+	0.6+
1998 09 18	704	1.3−	0.3−	1998 10 17	327	0.1−	0.1−	2000 03 09	691	0.1+	0.1−
1998 09 18	704	0.6−	0.1−	1998 10 17	327	0.1−	0.3+	2000 03 09	691	0.1+	0.2−
1998 09 18	704	0.4+	0.6−	1998 10 17	327	0.2−	0.6−	2000 03 09	691	0.0	0.2−
1998 09 25	699	0.3−	0.6−	1998 10 18	327	0.4+	0.9+	2000 03 10	704	0.1+	0.2+
1998 09 25	699	0.4+	0.1+	1998 10 18	327	0.4−	0.0	2000 03 10	704	0.2−	0.3+
1998 09 25	699	0.6+	0.2−	1998 10 18	327	0.6−	0.3−	2000 03 10	704	0.0	0.4+
1998 09 26	704	1.3+	0.8−	1998 10 19	327	0.7−	0.4+	2000 03 10	704	0.3−	0.0
1998 09 26	704	1.2+	1.0+	1998 10 19	327	0.1−	0.0	2000 03 10	704	0.7−	0.0
1998 09 26	704	0.9−	0.6−	1998 10 19	327	0.3+	0.4+	2000 03 11	704	1.0−	0.9−
1998 09 26	704	1.3−	0.6−	2000 02 29	704	0.3−	0.6−	2000 03 11	704	0.3−	0.2+
1998 09 26	327	0.1−	0.2−	2000 02 29	704	0.3−	0.3−	2000 03 11	704	0.2+	0.0
1998 09 26	327	0.7+	0.3−	2000 02 29	704	0.1+	0.2−	2000 03 11	704	0.2+	0.2+
1998 09 26	327	0.3+	0.1−	2000 02 29	704	0.1−	0.2−	2000 03 11	704	0.6+	0.3−
1998 09 27	704	0.4+	0.1−	2000 03 03	704	0.2+	0.1+				

1998 RK₅₉ = 2000 EP₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	138.53810		(2000.0)	P	Q
n	0.28795579	ω	182.79485	+0.94932949	−0.31348617
a	2.2711832	Ω	195.53097	+0.28994406	+0.90104438
e	0.1504119	i	4.79012	+0.12126817	+0.29974229
P	3.42	H	15.0	G 0.15	U 4

Residuals in seconds of arc

1998 09 14	704	0.6+	0.0	1998 09 26	704	0.2+	0.7−	2000 03 03	704	0.5−	0.1+
1998 09 14	704	0.6−	0.7+	1998 09 26	704	0.2−	0.5+	2000 03 03	704	0.7−	0.8+
1998 09 14	704	0.8−	0.8−	1998 09 26	704	0.2−	0.4+	2000 03 03	704	0.4−	1.0+
1998 09 16	699	0.3+	0.6+	1998 09 27	704	0.4−	0.5−	2000 03 08	704	0.0	0.7−
1998 09 16	699	0.0	0.3+	1998 09 27	704	1.0+	0.4−	2000 03 08	704	0.9+	0.7−
1998 09 16	699	0.1+	0.5+	1998 09 27	704	0.7+	0.4−	2000 03 08	704	0.9+	0.2+
1998 09 18	704	0.0	0.2−	1998 09 27	704	0.6+	0.0	2000 03 11	704	0.2+	0.1−
1998 09 18	704	0.3−	0.3−	1998 09 27	704	0.6+	0.3−	2000 03 11	704	0.7+	0.6−
1998 09 18	704	0.9+	0.1+	1998 10 16	691	0.4−	0.3−	2000 03 11	704	0.3+	0.0
1998 09 18	704	0.4−	0.2+	1998 10 16	691	0.6−	0.2−	2000 03 11	704	0.3−	0.3+
1998 09 18	704	0.7−	0.6+	1998 10 16	691	0.4−	0.0	2000 03 11	704	0.6+	0.6+
1998 09 26	704	0.3+	0.7+	2000 03 03	704	0.5−	0.1−				
1998 09 26	704	0.6−	0.2−	2000 03 03	704	0.7−	0.1−				

19

Residuals in seconds of arc

1995 11 15	327	0.2−	0.2−	1998 09 18	704	0.6−	0.4−	2000 02 11	704	1.0+	0.1−
1995 11 15	327	0.5+	0.5−	1998 09 18	704	0.5−	0.6−	2000 02 11	704	0.2−	0.4+
1995 11 15	327	0.2−	0.2−	1998 09 18	704	0.5+	0.3+	2000 02 11	704	1.5−	1.3−
1998 08 28	704	0.5+	1.4+	1998 09 18	704	0.0	0.4+	2000 02 11	704	1.0+	0.1−
1998 08 28	704	1.7−	0.1−	1998 09 26	704	0.4+	0.9−	2000 02 28	704	0.5+	0.5+
1998 08 28	704	0.7−	0.1−	1998 09 26	704	0.8+	0.5−	2000 02 28	704	0.6+	0.3−
1998 08 28	704	1.1+	0.9−	1998 09 26	704	0.4−	1.6−	2000 02 28	704	0.8−	0.7+
1998 08 28	704	(3.4−	0.2−)	1998 09 26	704	0.1−	0.6+	2000 02 28	704	0.0	1.4+
1998 09 14	704	0.6−	0.2−	1998 09 26	704	0.1−	0.1−	2000 02 28	704	0.3+	1.0+
1998 09 14	704	0.8−	0.0	1998 09 27	704	0.2+	0.9−	2000 03 05	704	0.6+	0.1−
1998 09 14	704	1.0−	0.9+	1998 09 27	704	0.3+	1.2+	2000 03 05	704	0.1−	0.2+
1998 09 16	699	0.3+	1.3+	1998 09 27	704	0.4+	0.9+	2000 03 05	704	0.6−	0.1+
1998 09 16	699	0.5+	0.9+	1998 09 27	704	0.6+	0.1−	2000 03 05	704	0.9+	0.6−
1998 09 16	699	0.7−	0.1+	1998 09 27	704	0.2+	0.2+				
1998 09 18	704	0.4+	0.3−	2000 02 11	704	0.9−	0.1+				

1998 RC₆₁ = 2000 AY₂₀₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	10.66252	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.18440973	ω	257.07819	−0.16823387	−0.98360731		
<i>a</i>	3.0568924	Ω	202.91582	+0.95666921	−0.14703975		
<i>e</i>	0.0703670	<i>i</i>	9.59693	+0.23765814	−0.10438381		
<i>P</i>	5.34	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 14	704	0.4−	0.0	1998 09 27	704	0.1+	0.8+	2000 01 07	704	0.2−	0.2+
1998 09 14	704	0.1−	0.5−	1998 09 27	704	0.6+	0.4−	2000 01 07	704	0.3−	0.3−
1998 09 14	704	1.2+	1.4−	1998 09 27	704	0.1−	0.7+	2000 01 07	704	0.3+	0.2−
1998 09 18	704	0.1−	0.9−	1999 10 20	704	0.1+	0.2+	2000 01 07	704	(1.0+	2.2+)
1998 09 18	704	1.3−	0.6−	1999 10 20	704	0.3+	0.0	2000 01 09	704	0.4+	0.1−
1998 09 18	704	1.8+	0.1+	1999 10 20	704	0.4+	0.1+	2000 01 09	704	0.3+	0.1+
1998 09 18	704	0.8+	1.0+	1999 12 05	704	0.2−	0.6+	2000 01 09	704	0.0	0.3+
1998 09 18	704	1.1−	1.6+	1999 12 05	704	0.6−	0.1+	2000 01 09	704	0.2+	0.1−
1998 09 26	704	0.9−	0.7+	1999 12 05	704	0.5+	0.3+	2000 01 09	704	0.3+	1.2−
1998 09 26	704	0.4+	0.4−	1999 12 14	704	0.9−	0.7−	2000 01 11	704	0.5+	0.3−
1998 09 26	704	1.1−	0.1−	1999 12 14	704	0.8+	0.6+	2000 01 11	704	0.3−	0.7−
1998 09 26	704	0.1+	0.7−	1999 12 14	704	0.7−	0.4+	2000 01 11	704	0.5−	0.4+
1998 09 27	704	0.2+	0.1−	1999 12 14	704	0.0	0.5+	2000 01 11	704	0.1−	0.1−
1998 09 27	704	0.2−	0.0	2000 01 07	704	0.3−	0.3−	2000 01 11	704	0.3+	0.1+

1998 RG₆₁ = 2000 DR₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	147.11122	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.29268958	ω	26.43945	+0.97991736	−0.19839990		
<i>a</i>	2.2466282	Ω	344.96360	+0.16657838	+0.86957524		
<i>e</i>	0.1632675	<i>i</i>	4.41829	+0.10960660	+0.45219065		
<i>P</i>	3.37	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.2−	0.0	1998 09 27	704	0.7−	0.3−	2000 02 29	704	0.2+	0.6+
1998 09 14	704	0.1−	0.3+	1998 11 14	699	0.6+	0.5−	2000 02 29	704	0.1−	0.0
1998 09 14	704	0.3−	0.7+	1998 11 14	699	0.8+	1.1+	2000 02 29	704	0.1+	0.2−
1998 09 18	704	0.9+	0.8+	1998 11 14	699	0.0	0.8+	2000 02 29	704	0.3−	0.8−
1998 09 18	704	0.4+	0.3+	1998 12 09	704	1.8+	1.6−	2000 03 03	704	0.0	0.0
1998 09 18	704	0.2+	0.6+	1998 12 09	704	0.5+	1.0−	2000 03 03	704	0.1−	0.2+
1998 09 18	704	1.0−	0.0	1998 12 09	704	1.0−	0.3−	2000 03 03	704	0.1+	0.8+
1998 09 18	704	0.1+	0.9+	1998 12 09	704	1.6+	0.3+	2000 03 03	704	0.5+	0.9+
1998 09 26	704	0.9−	0.1−	1998 12 09	704	0.9+	1.8−	2000 03 03	704	0.2−	0.9+
1998 09 26	704	0.7−	0.1−	1998 12 24	699	0.2−	0.2+	2000 03 08	704	1.6+	1.2+
1998 09 26	704	0.9−	0.4+	1998 12 24	699	0.1−	0.8−	2000 03 08	704	0.2+	0.4+
1998 09 26	704	0.2+	0.8+	1998 12 24	699	1.7−	0.7+	2000 03 08	704	0.5+	0.9+
1998 09 26	704	0.7−	0.1−	2000 02 27	703	0.1−	0.1+	2000 03 08	704	1.1+	1.0+
1998 09 27	704	0.3−	0.6+	2000 02 27	703	0.8−	0.3−	2000 03 11	704	0.5+	0.6+
1998 09 27	704	1.4−	0.6+	2000 02 27	703	0.9−	0.3+	2000 03 11	704	1.3+	0.2+

1998 09 27	704	0.5+	0.3+	2000 02 27	703	0.6−	0.6+	2000 03 11	704	0.8+	0.2−
1998 09 27	704	0.0	1.1+	2000 02 29	704	0.1−	0.1−	2000 03 11	704	0.1−	0.0

1998 RN₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	103.63191	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.23902738	ω	120.62110	+0.83716239	−0.54613241		
<i>a</i>	2.5714077	Ω	272.49666	+0.49099084	+0.77452487		
<i>e</i>	0.1686020	<i>i</i>	1.71935	+0.24101270	+0.31914043		
<i>P</i>	4.12	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1949 11 25	675	1.0−	1.0−	1998 09 26	704	0.0	0.6−	2000 02 02	704	0.3+	0.0
1949 11 25	675	0.8+	0.1−	1998 09 27	704	0.3+	0.3−	2000 02 02	704	0.3+	1.0−
1977 09 08	413	0.7−	0.1−	1998 09 27	704	0.5−	0.0	2000 02 02	704	0.7−	1.6+
1977 09 08	413	0.1+	0.9+	1998 09 27	704	0.8−	0.1+	2000 02 02	704	0.8−	0.5+
1988 04 20	413	0.0	0.4−	1998 09 27	704	0.1+	0.2−	2000 02 02	704	0.5+	0.1+
1988 04 20	413	1.8+	0.4−	1998 09 27	704	0.1+	0.8−	2000 02 29	704	0.4+	0.4+
1998 08 02	699	0.2+	0.1+	1998 10 14	699	0.5+	0.1−	2000 02 29	704	1.0+	0.4+
1998 08 02	699	1.0−	0.4+	1998 10 14	699	0.2+	0.0	2000 02 29	704	0.9+	0.6+
1998 08 02	699	0.5−	0.1+	1998 10 14	699	0.4+	0.2+	2000 02 29	704	0.1−	0.0
1998 09 14	704	0.1−	0.2+	1998 12 08	699	0.8+	0.2+	2000 02 29	704	0.6+	0.8+
1998 09 14	704	0.0	0.6+	1998 12 08	699	0.3−	1.0+	2000 03 03	704	1.1−	0.1+
1998 09 14	704	0.2−	0.6+	1998 12 08	699	0.9+	0.8+	2000 03 03	704	0.2+	0.4−
1998 09 15	699	0.7+	0.2+	1998 12 09	704	1.5+	1.8+	2000 03 03	704	0.2+	0.2+
1998 09 15	699	0.0	0.5+	1998 12 09	704	(1.0+	2.9+)	2000 03 03	704	0.3−	0.4−
1998 09 15	699	0.3+	0.5+	1998 12 09	704	0.7−	0.7+	2000 03 03	704	0.3+	0.9−
1998 09 18	704	0.1−	0.1−	1998 12 09	704	0.6+	0.1+	2000 03 11	704	0.0	0.2−
1998 09 18	704	0.6−	0.2+	1998 12 09	704	(3.8−	1.0−)	2000 03 11	704	0.5+	0.1+
1998 09 18	704	1.2+	0.0	1998 12 15	699	0.0	0.5−	2000 03 11	704	0.2+	0.2−
1998 09 18	704	0.2−	0.4+	1998 12 15	699	0.7+	0.7+	2000 03 11	704	1.0+	0.4−
1998 09 18	704	1.3−	0.2−	1998 12 15	699	0.5−	1.8−	2000 03 11	704	0.3+	0.4−
1998 09 26	704	0.1−	0.5−	2000 02 01	703	1.3−	0.6+	2000 03 11	699	0.7−	0.1−
1998 09 26	704	0.6−	0.1−	2000 02 01	703	0.2+	0.1−	2000 03 11	699	1.1−	0.9+
1998 09 26	704	0.8−	0.5−	2000 02 01	703	0.4−	0.3+	2000 03 11	699	0.1−	0.4+
1998 09 26	704	0.3+	0.9−	2000 02 01	703	0.2−	0.7+	2000 03 11	699	0.5−	0.1−

1998 RP₆₁ = 2000 ET₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	76.38980	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.21392912	ω	78.95689	+0.37489877	−0.92671653		
<i>a</i>	2.7687864	Ω	348.92238	+0.79046636	+0.33387803		
<i>e</i>	0.3119967	<i>i</i>	7.60963	+0.48436953	+0.17240048		
<i>P</i>	4.61	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.4+	0.0	1998 09 27	704	1.1−	0.1−	2000 03 03	703	0.1+	0.6−
1998 09 14	704	0.2+	0.0	1998 11 14	699	1.3−	0.7−	2000 03 03	703	0.8−	0.1−
1998 09 14	704	0.8−	0.3+	1998 11 14	699	0.2+	0.5+	2000 03 09	704	0.1−	0.1+
1998 09 15	699	0.2+	0.4+	1998 11 14	699	0.9+	1.4+	2000 03 09	704	0.8−	0.7−
1998 09 15	699	0.4+	0.1−	1998 12 09	704	(2.6+	1.0−)	2000 03 09	704	1.4+	0.0
1998 09 15	699	0.4+	0.3+	1998 12 09	704	1.3+	0.3−	2000 03 09	704	0.2+	0.0
1998 09 18	704	0.4+	0.2+	1998 12 09	704	0.3+	0.1+	2000 03 09	704	0.9+	0.6+
1998 09 18	704	0.2−	0.4+	1998 12 09	704	0.1−	0.3−	2000 03 10	704	0.0	1.3+
1998 09 18	704	0.5−	0.9+	1998 12 09	704	(0.6+	2.5+)	2000 03 10	704	0.5+	0.2−
1998 09 18	704	1.3−	1.4+	1998 12 09	704	1.1−	1.0+	2000 03 10	704	0.2+	0.7+
1998 09 18	704	(0.0	2.2+)	1998 12 09	704	1.7+	0.8−	2000 03 10	704	0.3+	0.3−
1998 09 26	704	0.4−	0.2+	1998 12 09	704	1.1+	0.9−	2000 03 10	704	0.0	1.1−
1998 09 26	704	0.1+	0.1+	1998 12 09	704	1.7−	0.0	2000 03 11	704	0.0	0.3−
1998 09 26	704	1.2+	1.8−	1998 12 09	704	(2.5−	2.4+)	2000 03 11	704	0.1+	0.3+
1998 09 26	704	0.4+	1.9−	1998 12 24	699	1.8−	0.7+	2000 03 11	704	0.1+	0.1+
1998 09 27	704	0.2−	0.6+	1998 12 24	699	0.7+	0.2+	2000 03 11	704	0.2+	0.0
1998 09 27	704	0.3−	0.2+	1998 12 24	699	0.0	0.2−	2000 03 11	704	0.1−	0.4+
1998 09 27	704	0.0	0.2+	2000 03 03	703	1.4−	1.0+				
1998 09 27	704	0.0	0.2−	2000 03 03	703	0.3+	0.6+				

2000 MAR. 20

M.P.C. 39223

1998 RL₆₂ = 2000 AW₂₀₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	12.92114	(2000.0)	P		Q	
<i>n</i>	0.23965111	ω	308.39364	−0.55803825	−0.82960711	
<i>a</i>	2.5669441	Ω	175.40833	+0.81518801	−0.55225055	
<i>e</i>	0.1059124	<i>i</i>	13.42324	+0.15511876	−0.08228838	
<i>P</i>	4.11	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1998 08 28	704	0.4−	0.3+	1998 09 26	704	0.8−	0.1−	2000 01 11	704	0.6−	0.0
1998 08 28	704	1.2−	0.1−	1998 09 26	704	1.2−	0.5+	2000 01 11	704	0.7−	0.2−
1998 08 28	704	1.6−	0.2−	1998 09 27	704	0.0	0.9−	2000 01 11	704	0.7−	0.1−
1998 08 28	704	1.8+	0.4−	1998 09 27	704	0.4−	0.3−	2000 01 11	704	1.1−	0.2+
1998 08 28	704	(3.6−	0.4−)	1998 09 27	704	0.3−	0.0	2000 02 06	704	0.3−	0.5+
1998 09 14	704	0.0	0.2−	1998 09 27	704	0.0	0.2−	2000 02 06	704	0.4+	0.2+
1998 09 14	704	0.8+	0.7−	1998 09 27	704	0.0	0.5−	2000 02 06	704	0.3+	0.5+
1998 09 14	704	1.4+	0.2+	1999 12 16	704	0.2−	0.7+	2000 02 06	704	0.2+	0.2+
1998 09 18	704	0.6−	0.2+	1999 12 16	704	0.8+	0.0	2000 02 06	704	0.3+	0.1+
1998 09 18	704	1.2+	0.4+	1999 12 16	704	0.3+	0.2−	2000 02 28	703	0.3−	0.1+
1998 09 18	704	0.4+	0.7+	1999 12 16	704	1.0+	0.1+	2000 02 28	703	0.0	0.5+
1998 09 18	704	0.0	0.8+	1999 12 16	704	0.4−	1.2−	2000 02 28	703	0.1+	0.3+
1998 09 18	704	0.4+	1.6+	2000 01 07	699	1.1+	0.2+	2000 02 28	703	0.3−	0.3+
1998 09 25	699	0.4−	0.2+	2000 01 07	699	0.9+	0.2+	2000 03 06	704	0.1−	0.3+
1998 09 25	699	0.3+	0.6+	2000 01 07	699	0.9+	0.4+	2000 03 06	704	0.0	0.1+
1998 09 25	699	0.1+	0.1+	2000 01 09	704	0.0	0.6−	2000 03 06	704	0.9+	0.4−
1998 09 26	704	1.1+	0.2−	2000 01 09	704	0.7−	0.4−	2000 03 06	704	0.1+	0.2+
1998 09 26	704	0.5−	0.7−	2000 01 09	704	0.9−	1.4−				
1998 09 26	704	0.2−	0.6−	2000 01 11	704	0.6−	0.2−				

1998 RN₆₃ = 1991 KN₂ = 2000 DQ₉₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	188.02215	(2000.0)	P		Q	
<i>n</i>	0.30368360	ω	222.47096	+0.78803951	+0.61289910	
<i>a</i>	2.1920737	Ω	99.63865	−0.54788859	+0.74109104	
<i>e</i>	0.1178227	<i>i</i>	3.36486	−0.28073444	+0.27411450	
<i>P</i>	3.25	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1991 05 18	809	0.1−	0.3−	1998 09 26	704	0.3−	0.1−	2000 02 11	704	1.2−	0.1+
1991 05 18	809	0.5+	0.4−	1998 09 26	704	0.9−	1.1−	2000 02 11	704	0.3+	0.3−
1991 05 18	809	0.6−	0.2−	1998 09 26	704	0.9−	0.5−	2000 02 11	704	0.6+	0.9−
1998 08 28	704	0.4+	0.8+	1998 09 26	704	1.0+	0.7−	2000 02 11	704	0.1+	0.3−
1998 08 28	704	(4.5−	1.7+)	1998 09 26	704	0.5−	0.3−	2000 02 25	703	0.1+	1.0−
1998 08 28	704	0.5−	0.5+	1998 09 27	704	0.6−	0.4+	2000 02 25	703	1.9−	0.6−
1998 08 28	704	(1.4−	2.2+)	1998 09 27	704	0.3−	0.9+	2000 02 25	703	1.1−	1.1+
1998 08 28	704	(1.2−	2.5+)	1998 09 27	704	0.4−	0.9+	2000 02 25	703	1.3−	0.1+
1998 09 14	704	0.4−	0.7−	1998 09 27	704	0.4−	1.1−	2000 02 28	704	0.2+	1.2+
1998 09 14	704	0.2+	0.3−	1998 09 27	704	1.1−	0.8−	2000 02 28	704	0.4+	1.0−
1998 09 14	704	0.9−	0.7−	2000 02 03	704	0.8+	0.0	2000 02 28	704	0.6−	0.4−
1998 09 17	699	0.2+	0.1+	2000 02 03	704	0.2+	0.4+	2000 02 28	704	0.5+	0.5+
1998 09 17	699	0.1+	0.5+	2000 02 03	704	0.5+	0.8+	2000 02 28	704	0.3−	0.2+
1998 09 17	699	0.1−	0.1+	2000 02 03	704	0.4+	0.1−	2000 03 05	704	0.4+	0.0
1998 09 18	704	1.0+	0.3+	2000 02 06	703	1.3−	1.6−	2000 03 05	704	0.4+	0.2+
1998 09 18	704	0.4+	0.2+	2000 02 06	703	0.1+	0.2+	2000 03 05	704	0.4+	0.8+
1998 09 18	704	1.2+	0.1+	2000 02 06	703	0.7+	0.9−	2000 03 05	704	0.4+	0.5+
1998 09 18	704	1.9+	0.1−	2000 02 06	703	(0.9−	2.6−)	2000 03 05	704	0.1+	0.4+
1998 09 18	704	1.5+	0.8+	2000 02 11	704	0.6+	0.6−				

1998 RT₆₃ = 2000 AQ₁₉₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	346.41337	(2000.0)	P		Q	
<i>n</i>	0.24537967	ω	350.81871	−0.86864897	−0.48986263	
<i>a</i>	2.5268356	Ω	159.33863	+0.46682704	−0.85935750	
<i>e</i>	0.1146108	<i>i</i>	12.11470	+0.16589601	−0.14676271	
<i>P</i>	4.02	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1998 09 14	704	0.2+	0.9−	1998 09 27	704	0.1+	0.3+	2000 01 11	704	0.1−	0.1−
1998 09 14	704	0.5−	1.0−	1998 09 27	704	0.3+	0.6+	2000 02 04	704	0.5+	0.1−
1998 09 14	704	0.3−	0.7+	1998 09 27	704	0.1+	0.4−	2000 02 04	704	0.5+	0.1−
1998 09 18	704	1.4−	0.8+	1998 09 27	704	0.1−	0.1+	2000 02 04	704	0.4+	0.5+
1998 09 18	704	1.1−	0.6−	2000 01 08	704	0.0	0.4+	2000 02 04	704	0.2−	0.6−
1998 09 18	704	0.3+	0.0	2000 01 08	704	0.2+	0.0	2000 02 04	704	0.1+	0.2−
1998 09 18	704	0.2−	1.0+	2000 01 08	704	0.1+	0.1−	2000 03 05	704	0.0	0.1−
1998 09 18	704	0.1+	0.2+	2000 01 08	704	0.3+	0.2−	2000 03 05	704	0.1−	0.2+
1998 09 26	704	0.9+	0.5−	2000 01 08	704	0.1+	0.8−	2000 03 05	704	0.1−	0.1−
1998 09 26	704	0.0	0.3−	2000 01 11	704	0.2−	0.0	2000 03 05	704	0.4−	0.1+
1998 09 26	704	0.6+	0.0	2000 01 11	704	0.1−	0.3+	2000 03 05	704	0.4−	0.5+
1998 09 26	704	0.3+	0.2−	2000 01 11	704	0.6−	0.2+				
1998 09 26	704	0.7+	0.5+	2000 01 11	704	0.3−	0.3+				

1998 RV₆₅ = 2000 CT₁₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	84.29490	(2000.0)	P		Q	
<i>n</i>	0.22058402	ω	196.96044	+0.74804557	−0.66353224	
<i>a</i>	2.7128140	Ω	204.62282	+0.61227527	+0.69720591	
<i>e</i>	0.0903541	<i>i</i>	1.70007	+0.25602112	+0.27134643	
<i>P</i>	4.47	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 14	704	0.9+	0.6+	1998 09 27	704	0.2+	0.1+	2000 02 03	704	1.0+	0.1+
1998 09 14	704	0.8−	1.3−	1998 09 27	704	0.2−	0.9+	2000 02 03	704	0.5−	0.0
1998 09 14	704	0.8+	1.4−	1998 09 27	704	0.1−	0.8+	2000 02 03	704	0.2+	0.3−
1998 09 18	704	0.1+	1.2−	1998 09 27	704	0.1−	0.8+	2000 02 03	704	0.5+	0.3−
1998 09 18	704	0.3−	1.4−	1998 09 27	704	0.1−	0.8+	2000 02 05	704	0.2+	0.1+
1998 09 18	704	0.1−	1.6−	2000 01 07	704	0.0	0.3−	2000 02 05	704	0.6−	0.0
1998 09 18	704	0.2+	0.8+	2000 01 07	704	0.7+	0.9−	2000 02 05	704	0.7−	0.4−
1998 09 18	704	1.8−	0.7+	2000 01 07	704	0.1+	0.1−	2000 02 05	704	0.6−	0.7+
1998 09 25	699	0.9+	0.3−	2000 01 07	704	0.2+	0.7−	2000 02 06	704	0.5−	0.7+
1998 09 25	699	0.2+	0.8+	2000 01 07	704	0.8−	0.0	2000 02 06	704	0.5+	0.2+
1998 09 25	699	1.2+	1.4+	2000 02 02	704	0.2+	0.5+	2000 02 06	704	0.4−	0.6+
1998 09 26	704	(0.2+	2.3+)	2000 02 02	704	0.5+	1.4−	2000 02 06	704	0.1−	0.3+
1998 09 26	704	1.0−	0.3+	2000 02 02	704	0.5−	0.8+	2000 02 06	704	0.1+	0.0
1998 09 26	704	0.2−	0.6+	2000 02 02	704	0.6+	0.2−	2000 02 06	704	1.4−	0.4+
1998 09 26	704	0.3−	0.9−	2000 02 02	704	1.0+	0.2−	2000 02 06	704	0.6+	0.0
1998 09 26	704	0.3+	0.5−	2000 02 03	704	0.5−	0.2+	2000 02 06	704	(0.9−	2.2+)

1998 RW₆₅ = 1993 RG₁₁ = 2000 AT₂₁₇Id. G. V. Williams (*MPC* 33004), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	119.97570	(2000.0)	P		Q	
<i>n</i>	0.20164624	ω	68.54466	+0.97928301	+0.20178746	
<i>a</i>	2.8801115	Ω	279.81073	−0.19156720	+0.89609059	
<i>e</i>	0.0766374	<i>i</i>	0.98444	−0.06562617	+0.39535235	
<i>P</i>	4.89	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i> 6

Residuals in seconds of arc

1993 09 14	809	2.5+	2.5+	1998 09 18	704	0.6−	0.4−	2000 01 03	691	0.1−	0.1−
1993 09 14	809	1.9+	2.1+	1998 09 18	704	1.3−	0.8+	2000 01 03	691	0.0	0.1−
1993 09 14	809	0.8+	2.6+	1998 09 18	704	0.7+	0.0	2000 01 03	691	0.1−	0.0
1993 09 19	809	0.1+	0.5+	1998 09 18	704	0.0	0.7−	2000 01 04	704	0.1+	0.1−
1993 09 19	809	0.3−	0.7−	1998 09 18	704	0.4−	1.5−	2000 01 04	704	0.1+	0.5+
1993 09 19	809	1.7−	0.1−	1998 09 26	704	0.5−	1.8−	2000 01 04	704	0.0	0.5+

M.P.C. 39224

2000 MAR. 20

1993 09 20	691	1.8−	1.6−	1998 09 26	704	0.7−	0.3−	2000 01 04	704	0.4−	0.0
1993 09 20	691	1.4−	1.3−	1998 09 26	704	0.4+	0.6−	2000 01 04	704	0.4−	0.4+
1993 09 20	691	1.4−	0.8−	1998 09 26	704	1.3+	0.0	2000 01 08	691	0.1+	0.4−
1998 09 14	704	0.2+	0.3−	1998 09 26	704	0.6+	0.3+	2000 01 08	691	0.1+	0.2−
1998 09 14	704	1.0+	1.2−	1998 09 27	704	0.1+	0.4+	2000 01 08	691	0.1+	0.2−
1998 09 14	704	1.9−	0.8−	1998 09 27	704	0.6−	0.8+	2000 01 13	691	0.3+	0.1−
1998 09 15	699	0.1−	0.6+	1998 09 27	704	0.1−	0.5+	2000 01 13	691	0.1+	0.2+
1998 09 15	699	0.8+	0.7+	1998 09 27	704	0.0	0.6−	2000 01 13	691	0.3+	0.2+
1998 09 15	699	0.8+	1.5+	1998 09 27	704	1.6+	0.5−				

1998 RH₆₆ = 2000 EU₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	66.41033	<i>ω</i>	243.99925	+0.28248591	−0.95818123		
<i>a</i>	2.6497612	<i>Ω</i>	189.92338	+0.94734140	+0.28614925		
<i>e</i>	0.1522361	<i>i</i>	15.38542	+0.15081769	−0.00270750		
<i>P</i>	4.31	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 27	699	1.0+	0.3+	1998 10 13	468	0.3+	0.7+	2000 02 08	704	1.0+	0.4+
1998 08 27	699	0.1−	0.6+	1998 10 13	468	1.1−	0.5+	2000 02 08	704	0.2−	0.6−
1998 08 27	699	1.2−	0.0	1998 10 14	699	0.5−	1.0−	2000 03 03	703	0.3+	0.2−
1998 09 14	704	0.6−	0.1+	1998 10 14	699	0.6+	0.1+	2000 03 03	703	0.0	0.5−
1998 09 14	704	0.4−	0.7−	1998 10 14	699	0.6−	0.6+	2000 03 03	703	0.1−	0.3+
1998 09 14	704	0.2−	0.2−	1998 10 19	699	0.1+	1.2+	2000 03 03	703	0.9−	0.1+
1998 09 18	704	0.5−	0.0	1998 10 19	699	1.3+	0.9+	2000 03 04	703	0.7−	0.1−
1998 09 18	704	0.3+	0.2+	1998 10 19	699	0.5+	0.0	2000 03 04	703	0.0	0.0
1998 09 18	704	1.0−	0.3+	1998 10 27	691	0.3+	0.4−	2000 03 04	703	0.4+	0.2−
1998 09 18	704	0.3−	0.5+	1998 10 27	691	0.4−	0.7−	2000 03 04	703	0.4+	0.2−
1998 09 18	704	0.5+	0.7+	1998 10 27	691	0.0	0.4−	2000 03 08	704	0.6+	0.0
1998 09 26	704	0.0	0.6−	1999 12 14	704	0.3−	0.3−	2000 03 08	704	0.4+	0.8+
1998 09 26	704	0.0	1.0−	1999 12 14	704	0.9−	0.1−	2000 03 08	704	0.7+	1.3+
1998 09 26	704	0.6+	0.8−	1999 12 14	704	0.5−	0.2−	2000 03 08	704	1.1−	0.6+
1998 09 26	704	0.3−	0.1−	1999 12 14	704	0.7+	1.0−	2000 03 08	704	0.2+	0.6−
1998 09 27	704	0.6+	0.0	2000 02 07	703	0.3−	0.2−	2000 03 13	704	0.4+	0.1−
1998 09 27	704	0.5+	0.5−	2000 02 07	703	0.4+	0.6+	2000 03 13	704	0.5−	0.3+
1998 09 27	704	0.6+	1.0+	2000 02 07	703	1.0+	0.3+	2000 03 13	704	0.5−	0.1−
1998 10 12	470	(0.3−	7.2+)	2000 02 07	703	0.3−	0.4−	2000 03 13	704	0.2−	0.3+
1998 10 12	470	(0.4−	6.5+)	2000 02 08	704	0.2−	0.0				
1998 10 12	470	(0.5−	6.2+)	2000 02 08	704	0.0	0.2+				

1998 RU₆₇ = 2000 DP₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30005245	<i>ω</i>	87.18360	+0.92097417	+0.38816624		
<i>a</i>	2.2097235	<i>Ω</i>	249.97411	−0.37019834	+0.84483978		
<i>e</i>	0.1794229	<i>i</i>	2.05363	−0.12148980	+0.36820201		
<i>P</i>	3.28	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 10 30	327	0.3+	0.3+	1998 09 27	704	0.0	0.7+	2000 02 06	704	0.5−	0.9−
1995 10 30	327	0.5−	0.0	1998 09 27	704	0.1−	0.5−	2000 02 29	704	0.5+	0.7−
1995 10 30	327	0.1+	0.3+	1998 09 27	704	0.5−	0.3+	2000 02 29	704	0.4+	1.0+
1998 08 28	699	0.3−	1.2+	1998 09 27	704	0.6+	0.5+	2000 02 29	704	0.6+	0.2+
1998 08 28	699	0.5−	0.8+	1998 12 09	704	0.2−	1.4−	2000 02 29	704	0.2+	0.3+
1998 08 28	699	0.2−	1.2+	1998 12 09	704	0.4+	0.3+	2000 02 29	704	0.1−	1.0+
1998 09 14	704	0.7+	0.0	1998 12 09	704	0.7−	1.3+	2000 03 03	704	0.1+	0.2−
1998 09 14	704	0.6+	0.1−	1998 12 09	704	0.9−	0.5−	2000 03 03	704	0.1−	0.0
1998 09 14	704	1.0+	0.6−	1998 12 09	704	(2.6−	1.2+)	2000 03 03	704	0.1+	0.1+
1998 09 18	704	0.3−	0.5+	1998 12 13	704	1.3−	0.5+	2000 03 03	704	0.8+	0.0
1998 09 18	704	0.5−	0.2−	1998 12 13	704	0.0	0.6−	2000 03 03	704	0.2−	0.3−
1998 09 18	704	0.6+	0.2+	1998 12 13	704	0.2+	0.8−	2000 03 04	688	0.2−	0.1−
1998 09 18	704	0.7−	0.4+	1998 12 13	704	0.8+	0.2−	2000 03 04	688	0.1+	0.2−
1998 09 18	704	0.7+	0.0	1998 12 13	704	1.2+	0.6−	2000 03 11	704	0.2+	0.1−
1998 09 26	704	0.2+	0.1−	1998 12 13	704	0.3−	0.2+	2000 03 11	704	0.3+	0.8+
1998 09 26	704	0.0	0.9−	1998 12 13	704	0.4+	0.4+	2000 03 11	704	0.5−	0.7−

1998 09 26	704	0.9−	0.6−	1998 12 13	704	0.6+	0.6+	2000 03 11	704	0.2+	0.1−
1998 09 26	704	0.4−	0.9−	2000 02 06	704	0.5−	0.3+	2000 03 11	704	0.2−	0.2+
1998 09 26	704	0.3−	0.7−	2000 02 06	704	0.5−	0.4−				
1998 09 27	704	0.1+	0.1+	2000 02 06	704	0.1−	0.8+				

1998 RC₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27477695	<i>ω</i>	159.02560	+0.89831785	−0.43859602		
<i>a</i>	2.3432350	<i>Ω</i>	227.01554	+0.39793261	+0.83700852		
<i>e</i>	0.0862276	<i>i</i>	2.01038	+0.18621140	+0.32718537		
<i>P</i>	3.59	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 09 13	675	0.1+	0.1−	1998 10 14	699	0.2+	0.4+	1998 12 14	704	1.1+	0.4−
1991 09 13	675	0.2−	0.2−	1998 10 14	699	0.3−	1.2+	1998 12 14	704	1.0+	0.9−
1991 10 17	675	0.6−	0.1−	1998 10 14	699	1.3+	0.5−	2000 02 02	704	0.4−	0.3+
1991 10 17	675	0.9+	0.6−	1998 10 28	704	0.0	1.1−	2000 02 02	704	0.1−	0.2+
1998 08 27	699	(2.9+	0.2+)	1998 10 28	704	(1.2−	2.4−)	2000 02 02	704	0.1−	0.1+
1998 08 27	699	0.1−	0.6+	1998 10 28	704	(1.2+	2.2−)	2000 02 02	704	0.0	0.8+
1998 08 27	699	0.1−	0.1+	1998 10 28	704	0.2−	0.5−	2000 02 26	703	0.5−	0.5+
1998 09 14	704	0.2+	0.6+	1998 10 28	704	0.8−	0.0	2000 02 26	703	0.6−	0.3+
1998 09 14	704	0.3−	0.8−	1998 10 29	704	1.0−	0.3−	2000 02 26	703	0.1−	0.2+
1998 09 14	704	1.0−	0.9−	1998 10 29	704	0.4+	0.9+	2000 02 26	703	0.6−	1.0−
1998 09 15	699	0.2+	0.3−	1998 10 29	704	(1.3−	2.2+)	2000 02 29	704	0.0	0.9+
1998 09 15	699	1.0+	0.3−	1998 10 29	704	0.7+	0.0	2000 02 29	704	0.3+	0.2−
1998 09 15	699	0.2+	0.7+	1998 10 29	704	1.6−	0.5+	2000 02 29	704	0.4+	0.6−
1998 09 18	704	0.0	0.2+	1998 12 13	704	0.2−	0.7+	2000 02 29	704	0.1−	0.0
1998 09 18	704	0.0	0.9+	1998 12 13	704	0.6−	1.0−	2000 03 03	704	0.3+	0.2+
1998 09 18	704	0.3+	0.6+	1998 12 13	704	0.4+	0.0	2000 03 03	704	0.4+	0.5+
1998 09 18	704	0.8+	1.0+	1998 12 13	704	0.3+	0.0	2000 03 03	704	1.0−	1.1+
1998 09 18	704	0.6+	1.4+	1998 12 13	704	0.6+	0.9+	2000 03 03	704	0.3+	0.5+
1998 09 26	704	0.5−	0.0	1998 12 13	704	1.0+	0.7−	2000 03 03	704	0.5+	0.5+
1998 09 26	704	0.0	0.8−	1998 12 14	704	1.1+	1.0−	2000 03 11	704	0.7+	0.4+
1998 09 26	704	0.2+	0.2−	1998 12 14	704	(1.1−	2.1−)	2000 03 11	704	0.1−	0.5+
1998 09 26	704	0.8−	0.3+	1998 12 14	704	0.4−	1.7+	2000 03 11	704	0.7+	0.0
1998 09 26	704	0.1−	0.7−	1998 12 14	704	1.5−	0.5+	2000 03 11	699	0.2−	0.6−
1998 09 27	704	0.0	0.4−	1998 12 14	704	1.0−	0.0	2000 03 11	704	0.7+	0.0
1998 09 27	704	0.0	0.5+	1998 12 14	704	0.2+	1.3−	2000 03 11	704	0.6+	0.5−
1998 09 27	704	0.3−	0.8+	1998 12 14	704	1.3−	1.9−	2000 03 11	699	0.0	0.0
1998 09 27	704	0.2−	0.5+	1998 12 14	704	0.3+	0.0	2000 03 11	699	0.2+	0.3−
1998 09 27	704	1.1−	1.0+	1998 12 14	704	(0.9+	2.2−)	2000 03 11	699	0.0	0.4−

1998 RR₆₈ = 2000 EK₇₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	123.07990		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.24650032	ω	28.02752	+0.97168346	-0.23617790
a	2.5191714	Ω <td>345.62817</td> <td>+0.21104046</td> <td>+0.88109275</td>	345.62817	+0.21104046	+0.88109275
e	0.1797851	i <td>1.65281</td> <td>+0.10626936</td> <td>+0.40975061</td>	1.65281	+0.10626936	+0.40975061
P	4.00	H	15.7	G	0.15
				U	4

2000 MAR. 20

M.P.C. 39225

1998 RW₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27982522	ω	294.67683	+0.64619069	+0.76305329		
<i>a</i>	2.3149670	Ω	15.60195	-0.68052347	+0.58423114		
<i>e</i>	0.1903398	<i>i</i>	2.91649	-0.34543509	+0.27644827		
<i>P</i>	3.52	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 02	699	0.3+	0.5+	1998 10 14	699	0.6+	0.3+	1998 12 14	704	0.3+	1.5+
1998 08 02	699	0.1+	0.4-	1998 10 14	699	0.5+	0.1-	1998 12 14	704	(1.1+	2.4-)
1998 08 02	699	0.3+	0.1-	1998 10 14	699	0.1+	0.2+	1998 12 14	704	0.3-	0.1-
1998 09 14	704	0.5+	0.3+	1998 10 19	699	0.1+	0.1+	1998 12 14	704	0.3-	0.9-
1998 09 14	704	0.0	0.4-	1998 10 19	699	0.3-	0.4+	2000 01 06	704	(2.9-	0.2+)
1998 09 14	704	0.1+	1.1-	1998 10 19	699	0.0	0.3+	2000 01 06	704	0.4-	0.3-
1998 09 18	704	0.3-	1.0+	1998 12 13	704	0.3-	0.9+	2000 01 06	704	0.6-	0.1+
1998 09 18	704	0.3+	0.3+	1998 12 13	704	0.9-	1.0-	2000 02 11	704	0.2-	0.0
1998 09 18	704	1.1-	1.2+	1998 12 13	704	0.0	0.2+	2000 02 11	704	1.6+	1.2+
1998 09 18	704	0.2+	1.4+	1998 12 13	704	0.3+	1.3+	2000 02 11	704	0.0	0.5+
1998 09 18	704	0.6-	1.0+	1998 12 13	704	1.0+	0.5-	2000 02 11	704	0.1-	0.2-
1998 09 26	704	0.7-	0.0	1998 12 13	704	0.4-	1.2+	2000 02 11	704	0.5+	0.2-
1998 09 26	704	0.1+	0.1-	1998 12 13	704	0.5+	1.3-	2000 02 11	704	0.4-	0.8+
1998 09 26	704	0.0	0.6-	1998 12 13	704	0.9+	0.7+	2000 02 11	704	0.6+	0.3+
1998 09 26	704	0.4-	0.4-	1998 12 14	704	0.9-	0.7-	2000 02 11	704	1.1-	0.7-
1998 09 26	704	0.1-	0.3-	1998 12 14	704	0.1-	1.6+	2000 02 11	704	0.9+	0.9+
1998 09 27	704	0.9+	0.7-	1998 12 14	704	(2.2-	0.9+)	2000 03 03	688	0.2+	0.2+
1998 09 27	704	0.0	0.6-	1998 12 14	704	1.4-	1.1+	2000 03 03	688	0.1+	0.0
1998 09 27	704	0.0	0.8-	1998 12 14	704	1.6+	1.1-	2000 03 04	704	0.3+	0.1-
1998 09 27	704	0.3+	0.9-	1998 12 14	704	1.6-	1.5-	2000 03 04	704	0.5-	1.0-
1998 09 27	704	0.3-	1.0-	1998 12 14	704	1.3-	0.8+	2000 03 04	704	0.1-	0.9-
1998 09 30	691	0.0	0.4-	1998 12 14	704	0.5-	0.0	2000 03 04	704	0.1-	0.7-
1998 09 30	691	0.1+	0.6-	1998 12 14	704	1.9+	0.2+	2000 03 04	704	1.1-	1.6-
1998 09 30	691	0.3+	0.5-	1998 12 14	704	0.3+	0.3+				

1998 RB₆₉ = 2000 DB₁₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28430014	ω	16.68016	+0.92978603	-0.36808633		
<i>a</i>	2.2906110	Ω	4.92106	+0.33329077	+0.83811110		
<i>e</i>	0.1390345	<i>i</i>	2.15326	+0.15625362	+0.40259438		
<i>P</i>	3.47	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.9-	0.2+	1998 09 27	704	0.4+	0.0	2000 02 29	704	0.1-	0.0
1998 09 14	704	0.9-	0.0	1998 09 27	704	0.2+	0.6+	2000 02 29	704	0.9+	0.0
1998 09 14	704	1.5-	0.1+	1998 09 27	704	0.6+	0.3+	2000 02 29	704	1.8+	1.3-
1998 09 17	699	0.3-	0.1+	1998 09 27	704	0.7+	1.0-	2000 03 03	704	0.5-	0.2+
1998 09 17	699	0.6-	0.8+	1998 10 14	699	0.1+	1.0-	2000 03 03	704	0.1-	1.2+
1998 09 17	699	0.0	1.1+	1998 10 14	699	0.2-	0.2+	2000 03 03	704	0.7+	0.5+
1998 09 18	704	0.1+	0.4+	1998 10 14	699	0.3+	0.7-	2000 03 03	704	0.0+	0.9+
1998 09 18	704	0.4+	0.2+	1998 12 13	704	0.7-	1.5-	2000 03 03	704	0.2-	0.9+
1998 09 18	704	0.2-	1.0+	1998 12 13	704	0.7-	0.6-	2000 03 11	704	0.7+	0.5+
1998 09 18	704	0.6+	1.1+	1998 12 13	704	0.5-	1.0+	2000 03 11	704	1.0-	0.6+
1998 09 18	704	0.7-	0.6+	1998 12 13	704	0.2+	1.3-	2000 03 11	704	0.1-	0.2+
1998 09 26	704	0.2+	0.1-	1998 12 13	704	1.1+	0.1-	2000 03 11	704	0.1+	0.1-
1998 09 26	704	0.6-	0.3+	1998 12 13	704	1.2+	1.3+	2000 03 11	704	0.5-	0.3+
1998 09 26	704	0.8-	0.4+	1998 12 13	704	0.2-	1.4-	2000 03 12	691	0.4+	0.4+
1998 09 26	704	0.4-	0.3+	1998 12 13	704	1.3+	0.2+	2000 03 12	691	0.4+	0.4+
1998 09 26	704	0.2-	0.7+	2000 02 29	704	1.1+	0.1-	2000 03 12	691	0.2+	0.5+
1998 09 27	704	0.4+	0.3+	2000 02 29	704	0.8-	0.8+				

1998 RH₆₉ = 1998 SE₈₆ = 2000 DR₆₁Id. S. Nakano (d, *MPC* 33590), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19127516	ω	32.74704	+0.52297553	-0.85231019		
<i>a</i>	2.9833005	Ω	25.72358	+0.77799649	+0.47350305		
<i>e</i>	0.3039716	<i>i</i>	1.05554	+0.34816383	+0.22217604		
<i>P</i>	5.15	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.1-	0.2+	1998 09 26	704	0.7-	0.9-	2000 02 29	704	0.1-	1.0-
1998 09 14	704	0.5+	0.7+	1998 09 26	704	0.0	1.4-	2000 02 29	704	0.1-	0.0
1998 09 14	704	0.6+	1.2+	1998 09 27	704	0.1+	0.1-	2000 03 03	704	0.3-	0.1+
1998 09 18	704	1.6-	0.1+	1998 09 27	704	0.7+	0.1-	2000 03 03	704	0.1-	0.2+
1998 09 18	704	0.3+	1.3+	1998 09 27	704	0.4-	0.1-	2000 03 03	704	0.4-	0.0
1998 09 18	704	0.2+	0.1+	1998 09 27	704	0.3-	0.7-	2000 03 03	704	0.2-	0.2+
1998 09 18	704	0.9+	1.0-	1998 09 27	704	0.6-	0.8-	2000 03 03	704	0.0	0.1+
1998 09 18	704	0.8+	2.0-	1998 10 14	699	0.2+	0.5+	2000 03 11	704	0.0	0.1-
1998 09 25	699	0.2-	1.2+	1998 10 14	699	1.0+	0.5+	2000 03 11	704	0.3+	0.2-
1998 09 25	699	0.6-	0.5+	1998 10 14	699	0.4+	0.5+	2000 03 11	704	0.2+	0.2+
1998 09 25	699	0.1-	0.4+	1998 10 16	691	0.1+	0.0	2000 03 11	704	0.2+	0.1+
1998 09 26	704	0.9-	0.6+	1998 10 16	691	0.7-	0.4+	2000 03 11	704	0.6+	0.3+
1998 09 26	704	1.0+	0.7+	1998 10 16	691	0.7-	0.1-				
1998 09 26	704	0.1+	1.8-	2000 02 29	704	0.2-	0.2-				

1998 RR₆₉ = 2000 EF₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26823251	ω	203.34583	+0.99960606	-0.02097046		
<i>a</i>	2.3811958	Ω	157.83150	+0.02623243	+0.93438932		
<i>e</i>	0.1817140	<i>i</i>	2.83367	-0.00997959	+0.35563582		
<i>P</i>	3.67	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 14	704	0.3-	0.1-	1998 09 26	704	0.7+	0.8-	1998 10 17	699	0.8-	0.7+
1998 09 14	704	0.3-	0.8-	1998 09 26	704	1.7+	1.1-	2000 03 03	704	1.1+	0.4-
1998 09 14	704	1.2-	0.0	1998 09 26	704	0.5+	0.9-	2000 03 03	704	0.8+	0.1+
1998 09 18	704	0.2+	0.1+	1998 09 27	704	0.0	0.4+	2000 03 03	704	0.2-	1.0-
1998 09 18	704	0.8-	0.4+	1998 09 27	704	0.0	0.4+	2000 03 05	704	0.7-	0.4+
1998 09 18	704	0.4+	1.5+	1998 09 27	704	0.7-	1.1+	2000 03 05	704	0.5-	0.6+
1998 09 18	704	0.6+	0.2-	1998 09 27	704	0.4+	0.3+	2000 03 05	704	0.1-	0.7+
1998 09 18	704	0.1+	0.2-	1998 09 27	704	1.3-	0.5+	2000 03 05	704	0.3-	0.7+
1998 09 26	704	0.2-	0.3+	1998 10 17	699	0.3+	0.3-	2000 03 05	704	0.1-	0.9-
1998 09 26	704	0.2+	0.2-	1998 10 17	699	0.0	1.1-				

1998 RU₆₉ = 2000 CN₉₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27350881	ω	299.53824	-0.19912377	-0.97975727		
<i>a</i>	2.3504725	Ω	161.91260	+0.92053515	-0.19422332		
<i>e</i>	0.1024462	<i>i</i>	3.80924	+0.33610232	-0.04850775		
<i>P</i>	3.60	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	1.0+	0.7-	2000 01 08	704	0.6-	0.5-	2000 02 29	704	0.2+	1.0+
1998 09 14	704	0.0	0.1+	2000 01 08	704	0.4+	1.0-	2000 02 29	704	0.5-	0.4+
1998 09 14	704	0.3+	1.1-	2000 02 11	120	0.5-	0.1-	2000 03 03	704	0.4+	0.7+
1998 09 17	699	0.2+	0.1+	2000 02 11	120	0.6-	0.1-	2000 03 03	704	0.3+	0.7+
1998 09 17	699	0.1-	0.5+	2000 02 11	704	0.8+	0.4+	2000 03 03	704	0.2+	0.6+
1998 09 17	699	0.3+	1.4+	2000 02 11	704	1.6+	0.5+	2000 03 03	704	0.6+	1.0+
1998 09 18	704	0.3+	0.5+	2000 02 11	704	0.6-	0.1-	2000 03 03	704	0.1+	0.9+
1998 09 18	704	0.2-	1.9+	2000 02 14	120	1.1-	0.1-	2000 03 08	704	0.2+	0.0

M.P.C. 39226

1998 09 26	704	0.9−	1.0−	2000 02 27	703	0.1−	0.4+	2000 03 11	704	0.1+	0.0
1998 09 26	704	0.7−	1.2−	2000 02 27	703	0.7−	0.6+	2000 03 11	704	0.1+	0.2+
1998 09 26	704	0.4−	0.0	2000 02 27	120	0.4−	0.7−	2000 03 11	704	0.1−	0.2−
1998 09 27	704	0.4−	0.3−	2000 02 27	120	0.6+	0.0	2000 03 11	704	0.1+	0.1−
1998 09 27	704	0.6−	0.3+	2000 02 28	120	0.9−	0.9−	2000 03 14	608	0.0	0.2−
1998 09 27	704	0.3−	0.7−	2000 02 28	120	1.1−	0.1+	2000 03 14	608	0.3+	0.4−
1998 09 27	704	0.9+	0.8+	2000 02 29	704	0.1+	0.2+	2000 03 14	608	0.1+	0.7−
1998 09 27	704	0.8+	0.3+	2000 02 29	704	0.4+	0.3+				
2000 01 08	704	0.2+	1.1−	2000 02 29	704	0.6+	0.3+				

1998 RK₇₀ = 2000 DW₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	62.15988		(2000.0)	P	Q		
<i>n</i>	0.18280718	ω	336.93638	+0.55756603	−0.82564327		
<i>a</i>	3.0747316	Ω	79.07337	+0.77466081	+0.48016551		
<i>e</i>	0.2745182	<i>i</i>	5.03755	+0.29836346	+0.29623348		
<i>P</i>	5.39	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.8−	1.3−	1998 09 26	704	1.5−	0.8−	2000 02 11	704	0.2−	0.3−
1998 09 14	704	0.2+	0.8−	1998 09 27	704	0.9+	1.0+	2000 02 11	704	0.3+	0.3+
1998 09 14	704	1.0+	0.8−	1998 09 27	704	0.3+	0.6+	2000 02 11	704	1.0+	0.5−
1998 09 18	704	1.2+	1.4+	1998 09 27	704	0.1−	1.4+	2000 02 28	704	0.4+	0.3−
1998 09 18	704	1.2+	0.9+	1998 09 27	704	0.5−	1.2−	2000 02 28	704	0.1+	0.6+
1998 09 18	704	(2.9+	0.6+)	1998 09 27	704	1.4−	0.4+	2000 02 28	704	0.2+	0.3−
1998 09 18	704	1.1−	0.4+	2000 02 06	703	0.2+	2.0−	2000 03 04	704	0.5−	0.7+
1998 09 18	704	(2.2+	0.2+)	2000 02 06	703	1.4−	1.7+	2000 03 04	704	0.2−	0.2−
1998 09 26	704	0.6−	0.7+	2000 02 06	703	0.5−	0.3+	2000 03 04	704	1.3+	0.6+
1998 09 26	704	1.2+	1.2−	2000 02 06	703	(1.3−	2.6−)	2000 03 04	704	1.1−	0.7−
1998 09 26	704	0.1−	0.7−	2000 02 11	704	0.1−	0.1−	2000 03 04	704	0.5+	0.1+

1998 RN₇₀

Id. T. Kobayashi (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	22.77294		(2000.0)	P	Q		
<i>n</i>	0.24184680	ω	82.30887	−0.57301809	−0.81473770		
<i>a</i>	2.5513839	Ω	43.05324	+0.69142588	−0.53865483		
<i>e</i>	0.2180933	<i>i</i>	7.45839	+0.43997787	−0.21460067		
<i>P</i>	4.08	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1990 09 28	675	0.7−	0.9−	1998 09 24	699	0.6+	0.9+	2000 02 25	411	1.0−	0.4−
1996 02 29	327	1.2+	0.6−	1998 09 24	699	0.7+	1.3+	2000 03 05	704	0.0	0.1+
1996 02 29	327	0.4−	0.4−	1998 09 26	704	0.7+	0.6−	2000 03 05	704	0.3+	0.3+
1996 02 29	327	0.5+	0.7−	1998 09 26	704	0.8+	0.1+	2000 03 05	704	0.1+	0.5+
1996 02 29	327	0.0	0.2−	1998 09 26	704	0.1−	0.6−	2000 03 05	704	0.1−	0.3+
1996 02 29	327	0.3−	0.1−	1998 09 26	704	0.1−	0.5+	2000 03 05	704	0.2+	0.1+
1996 04 23	566	0.1−	0.0	1998 09 26	704	0.5+	0.8−	2000 03 09	704	0.9−	0.3−
1996 04 23	566	0.1−	0.2+	1998 09 27	704	0.5−	0.3−	2000 03 09	704	0.3+	0.5+
1996 04 23	566	0.6−	0.0	1998 09 27	704	0.4+	0.3−	2000 03 09	704	0.4+	0.3+
1998 08 28	704	0.7−	1.5−	1998 09 27	704	0.8+	0.0	2000 03 09	704	0.1+	0.3+
1998 08 28	704	0.3−	0.7+	1998 09 27	704	0.6−	0.1+	2000 03 09	704	1.6−	0.3−
1998 08 28	704	0.4−	0.1+	1998 09 27	704	0.9−	1.0+	2000 03 12	704	0.4+	0.0
1998 08 28	704	0.1−	0.9+	1999 12 17	699	0.5+	1.3−	2000 03 12	704	0.3+	0.1+
1998 08 28	704	0.0	1.1−	1999 12 17	699	0.9+	0.3+	2000 03 12	704	0.4+	0.1+
1998 09 14	704	1.3+	0.1+	1999 12 17	699	0.2+	0.1+	2000 03 12	704	0.4+	0.3+
1998 09 14	704	(0.7+	2.4−)	2000 02 03	704	1.1+	0.4−	2000 03 12	704	0.6+	0.1+
1998 09 14	704	0.1+	0.5−	2000 02 03	704	0.8+	0.6+	2000 03 13	704	1.0−	0.3−
1998 09 18	704	1.1+	0.6+	2000 02 03	704	0.5+	0.3+	2000 03 13	704	0.7−	0.2+
1998 09 18	704	1.7−	0.3−	2000 02 03	704	0.5+	0.6+	2000 03 13	704	1.2−	0.4−
1998 09 18	704	0.2+	1.1−	2000 02 03	704	0.4+	1.4+	2000 03 13	704	0.8−	0.2−
1998 09 18	704	1.7−	1.1−	2000 02 24	411	0.1+	0.8−	2000 03 13	704	0.8−	0.1+
1998 09 18	704	0.1+	0.4−	2000 02 24	411	0.2−	1.2−				
1998 09 24	699	2.0+	0.5+	2000 02 25	411	0.9−	1.6−				

2000 MAR. 20

1998 RC₇₁ = 2000 DV₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	91.01466		(2000.0)	P	Q		
<i>n</i>	0.25227641	ω	264.98946	+0.64876419	−0.75869566		
<i>a</i>	2.4805708	Ω	144.33687	+0.73216055	+0.60115246		
<i>e</i>	0.0717717	<i>i</i>	5.81225	+0.20747519	+0.25099126		
<i>P</i>	3.91	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.8−	1.3−	1998 09 27	704	1.8+	1.4+	2000 03 03	704	0.2+	0.1−
1998 09 14	704	(2.5+	0.4+)	1998 09 27	704	1.7−	0.5+	2000 03 03	704	0.1+	0.0
1998 09 14	704	(1.9−	2.3−)	2000 02 06	704	0.2−	0.4−	2000 03 03	704	0.8−	0.6+
1998 09 18	704	0.4−	1.2−	2000 02 06	704	0.4+	0.2+	2000 03 03	704	0.5+	0.6+
1998 09 18	704	1.3+	0.9−	2000 02 06	704	0.8+	0.3+	2000 03 03	704	0.5+	0.1−
1998 09 18	704	(0.3+	2.5+)	2000 02 06	704	0.0	0.5+	2000 03 04	704	0.3+	0.2+
1998 09 18	704	0.5+	0.3+	2000 02 27	691	1.0−	0.4+	2000 03 04	704	0.2−	0.0
1998 09 26	704	1.2+	0.2+	2000 02 27	691	0.9−	0.1−	2000 03 04	704	0.5+	0.7+
1998 09 26	704	0.4+	0.8−	2000 02 27	691	1.0−	0.0	2000 03 04	704	0.9+	0.4−
1998 09 26	704	0.5−	1.5−	2000 02 29	704	1.3+	0.4−	2000 03 04	704	0.3+	0.3−
1998 09 26	704	1.1−	1.2+	2000 02 29	704	0.1−	0.8−	2000 03 05	704	1.3−	0.2+
1998 09 26	704	0.4+	1.0+	2000 02 29	704	0.1+	0.2−	2000 03 05	704	0.5−	0.2+
1998 09 27	704	0.6+	0.6+	2000 02 29	704	0.2+	0.8−	2000 03 05	704	0.3+	1.1+
1998 09 27	704	1.6−	0.3+	2000 02 29	704	0.9−	1.7−	2000 03 05	704	0.4+	0.1+

1998 RL₇₂ = 2000 DG₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	89.98801		(2000.0)	P	Q		
<i>n</i>	0.27431700	ω	54.04358	+0.37833557	−0.92543355		
<i>a</i>	2.3458536	Ω	13.77165	+0.81857986	+0.32396265		
<i>e</i>	0.0973141	<i>i</i>	5.02599	+0.43219116	+0.19652213		
<i>P</i>	3.59	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.1+	0.4−	1998 09 27	704	0.3+	0.4+	2000 03 02	703	0.4−	0.5+
1998 09 14	704	1.2−	1.2−	1998 09 27	704	1.2+	0.5+	2000 03 02	703	0.4−	0.1+
1998 09 14	704	0.5−	0.4−	1998 09 27	704	1.1+	1.1−	2000 03 02	703	0.0	0.0
1998 09 17	699	0.1−	1.2+	1998 10 14	699	1.4−	0.7−	2000 03 11	699	0.2+	0.4−
1998 09 17	699	0.3−	1.4+	1998 10 14	699	0.8−	0.4−	2000 03 11	699	0.1+	0.4−
1998 09 17	699	1.2+	0.0	1998 10 14	699	0.2−	0.7+	2000 03 11	699	0.1−	0.0
1998 09 18	704	0.4+	0.2−	1998 10 19	699	1.9+	0.7−	2000 03 11	699	0.5−	0.5+
1998 09 18	704	1.6+	0.8+	1998 10 19	699	0.1+	0.6+	2000 03 12	704	0.3+	0.2+
1998 09 18	704	0.1+	0.2+	1998 10 19	699	0.6−	0.5+	2000 03 12	704	0.4+	0.7+
1998 09 18	704	0.4−	1.0−	2000 02 11	704	0.1−	0.2+	2000 03 12	704	0.1−	0.1+
1998 09 18	704	0.5−	0.5+	2000 02 11	704	0.1−	0.4+	2000 03 12	704	0.2+	0.2−
1998 09 26	704	0.3−	0.6+	2000 02 11	704	0.6+	1.1−	2000 03 12	704	0.2−	0.2−
1998 09 26	704	0.4−	0.3+	2000 02 26	703	0.4−	0.1+	2000 03 14	608	0.1+	0.9−
1998 09 26	704	0.7−	0.3−	2000 02 26	703	0.2+	0.7+	2000 03 14	608	0.3−	1.2−
1998 09 26	704	0.2−	0.8−	2000 02 26	703	0.7−	1.1+	2000 03 14	608	0.0	0.7−
1998 09 26	704	0.3+	0.2−	2000 02 26	703	1.0+	0.1+				
1998 09 27	704	0.5−	0.9−	2000 03 02	703	0.1+	0.0				

1998 RO₇₃ = 2000 AU₁₁₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			

2000 MAR. 20

M.P.C. 39227

1998 09 18	704	0.2−	1.2+	1998 10 14	699	0.6+	0.0	2000 01 07	704	0.7+	0.4−
1998 09 18	704	1.9+	1.2+	1998 10 14	699	1.0−	0.0	2000 01 07	704	0.3+	0.1−
1998 09 18	704	0.0	1.1+	1999 12 14	704	2.0−	0.0	2000 01 07	704	0.4+	0.3+
1998 09 18	704	0.2−	1.0+	1999 12 14	704	0.6−	0.9+	2000 01 07	704	0.3+	0.0
1998 09 26	704	0.2+	0.5−	1999 12 14	704	0.4+	0.4+	2000 02 02	704	0.8+	0.4+
1998 09 26	704	0.5−	0.4−	1999 12 14	704	0.0	0.4−	2000 02 02	704	0.7−	0.5+
1998 09 26	704	0.7+	1.2−	1999 12 14	704	0.3+	0.7−	2000 02 02	704	0.3+	0.3−
1998 09 26	704	0.1−	1.1−	2000 01 05	704	0.3−	0.2−	2000 02 02	704	0.2−	0.2+
1998 09 26	704	0.8−	1.7−	2000 01 05	704	0.3+	0.3−	2000 02 02	704	0.6−	0.4+

1998 RV₇₃ = 2000 CT₃₅

Id. M. E. Sansaturio, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	9.06498		(2000.0)	P	Q
<i>n</i>	0.24584979	<i>ω</i>	218.56359	−0.75881842	−0.64776720
<i>a</i>	2.5236134	<i>Ω</i>	280.92511	+0.61336690	−0.67575087
<i>e</i>	0.1096402	<i>i</i>	3.95754	+0.21903344	−0.35179314
<i>P</i>	4.01	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	1.2+	1.5+	1998 10 14	699	1.1+	1.1+	2000 02 06	704	0.1+	0.1+
1998 09 14	704	1.7+	0.8+	1998 10 14	699	0.1−	0.0	2000 02 06	704	0.0	0.5−
1998 09 18	704	0.0	0.6+	1998 10 14	699	0.8+	0.7−	2000 02 06	704	0.4+	0.6+
1998 09 18	704	0.1−	0.4−	1999 12 05	704	1.2−	0.2+	2000 02 06	704	0.3+	0.1+
1998 09 18	704	0.4+	0.7+	1999 12 05	704	0.1+	0.9−	2000 02 06	704	0.3+	0.7+
1998 09 18	704	0.6+	1.0+	1999 12 05	704	0.7−	2.0−	2000 02 12	704	0.4+	1.0−
1998 09 18	704	0.4+	0.4−	1999 12 05	704	0.4−	0.3+	2000 02 12	704	0.1−	0.9−
1998 09 26	704	0.3+	0.8+	1999 12 05	704	0.1−	0.9−	2000 02 12	704	0.6+	0.1−
1998 09 26	704	0.8−	0.2−	2000 02 02	704	0.0	0.3+	2000 02 12	704	0.1−	0.6+
1998 09 26	704	(0.8−	2.9−)	2000 02 02	704	0.0	0.2+	2000 02 12	704	0.6−	0.7+
1998 09 26	704	1.5−	0.6−	2000 02 02	704	0.1+	0.0	2000 02 13	704	(2.1+	0.5−)
1998 09 26	704	1.9−	1.2−	2000 02 02	704	0.1−	0.1+	2000 02 13	704	1.9+	0.1−
1998 09 27	704	0.2+	0.6−	2000 02 02	704	0.2−	0.1−	2000 02 13	704	1.0−	1.7+
1998 09 27	704	1.4−	1.0−	2000 02 05	704	0.4−	0.2+	2000 03 06	704	0.2+	0.2−
1998 09 27	704	1.0−	0.3−	2000 02 05	704	0.0	0.5+	2000 03 06	704	0.2+	0.3−
1998 09 27	704	0.4−	0.3+	2000 02 05	704	0.1+	0.1+	2000 03 06	704	0.2−	0.3+

1998 RZ₇₃ = 2000 DA₈₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	121.52193		(2000.0)	P	Q
<i>n</i>	0.22570861	<i>ω</i>	16.26528	+0.99750110	−0.05126991
<i>a</i>	2.6715951	<i>Ω</i>	346.39397	+0.01415542	+0.81911321
<i>e</i>	0.2290269	<i>i</i>	11.92533	+0.06921828	+0.57133610
<i>P</i>	4.37	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 08 27	699	1.2−	0.2−	1998 09 25	699	0.0	0.2−	2000 02 03	704	0.6+	0.5+
1998 08 27	699	1.1−	0.6−	1998 10 02	704	0.7−	0.0	2000 02 03	704	0.6+	0.6+
1998 08 27	699	0.8−	0.4−	1998 10 02	704	0.4−	0.1−	2000 02 03	704	0.7+	0.7+
1998 08 28	704	0.1−	0.8+	1998 10 02	704	0.8−	0.8−	2000 02 11	704	0.1−	0.3+
1998 08 28	704	0.1−	0.9+	1998 10 02	704	0.9+	1.2−	2000 02 11	704	0.9−	0.3+
1998 08 28	704	0.7+	0.9−	1998 10 02	704	0.2−	0.0	2000 02 11	704	0.1+	0.8−
1998 08 28	704	1.1−	0.3+	1998 10 12	699	0.1+	0.4+	2000 02 11	704	0.7+	0.6−
1998 09 14	704	0.1+	0.4+	1998 10 12	699	0.2+	0.5+	2000 02 11	704	0.3−	0.8+
1998 09 14	704	0.6+	0.1−	1998 10 12	699	0.3+	0.1−	2000 02 28	704	0.4+	0.3+
1998 09 14	704	0.9+	0.5+	1998 10 18	699	0.3+	0.5−	2000 02 28	704	0.4−	0.2+
1998 09 18	704	0.1−	0.0	1998 10 18	699	0.1+	0.4−	2000 02 28	704	0.1−	0.0
1998 09 18	704	1.0+	0.1+	1998 10 18	699	0.3+	0.0	2000 02 28	704	0.3−	0.4+
1998 09 18	704	0.4−	0.8+	2000 01 04	704	0.3−	1.8−	2000 02 28	704	0.5−	0.4+
1998 09 18	704	0.8+	1.4+	2000 01 04	704	0.7−	0.8−	2000 03 04	704	0.3−	1.0+
1998 09 18	704	0.3−	0.2+	2000 01 04	704	0.6+	1.0−	2000 03 04	704	0.7−	0.0
1998 09 25	699	0.3+	0.0	2000 02 03	704	0.7+	0.2+	2000 03 04	704	0.1−	0.0
1998 09 25	699	0.1−	0.3−	2000 02 03	704	0.8+	0.0	2000 03 04	704	0.3−	0.3+

1998 RR₇₄ = 2000 EN₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	107.30525		(2000.0)	P	Q
<i>n</i>	0.28217246	<i>ω</i>	68.39777	+0.54083220	−0.84083135
<i>a</i>	2.3021112	<i>Ω</i>	348.77972	+0.72279525	+0.47821896
<i>e</i>	0.1043881	<i>i</i>	6.61987	+0.43019479	+0.25359273
<i>P</i>	3.49	<i>H</i>	15.6	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 09 14	704	0.1+	0.1+	1998 09 26	704	0.4−	0.3−	2000 03 10	704	(2.8+	0.5−)
1998 09 14	704	0.1+	0.7−	1998 09 26	704	0.9−	0.3+	2000 03 10	704	1.9+	0.0
1998 09 14	704	1.7−	1.3−	1998 09 26	704	0.6−	0.2−	2000 03 10	704	1.0+	0.0
1998 09 18	704	0.9+	0.4+	1998 09 26	704	0.2+	0.5+	2000 03 11	704	1.6−	0.3+
1998 09 18	704	2.0+	0.5+	1998 09 27	704	0.8+	0.3+	2000 03 11	704	0.3+	0.3+
1998 09 18	704	0.9−	0.6+	1998 09 27	704	0.2−	0.0	2000 03 11	704	0.1−	0.2−
1998 09 18	704	0.6+	0.7+	1998 09 27	704	0.4−	1.7−	2000 03 11	704	0.7−	0.4−
1998 09 18	704	0.9−	0.8+	1998 09 27	704	0.9+	0.1−	2000 03 11	704	0.7−	0.1+
1998 09 26	704	0.4+	0.9+	1998 09 27	704	0.4−	0.7−				

1998 RS₇₄ = 2000 DK₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	68.27121		(2000.0)	P	Q
<i>n</i>	0.21347212	<i>ω</i>	70.78589	+0.41261502	−0.91079831
<i>a</i>	2.7727365	<i>Ω</i>	354.78075	+0.76737255	+0.35582349
<i>e</i>	0.1451463	<i>i</i>	8.83662	+0.49080364	+0.20937067
<i>P</i>	4.62	<i>H</i>	14.2	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 09 14	704	0.4+	1.5+	1998 10 14	699	0.7−	0.3+	2000 02 11	704	0.1+	0.1+
1998 09 14	704	0.1+	1.0+	1998 10 14	699	0.6+	0.2−	2000 02 11	704	0.0	0.9−
1998 09 14	704	0.8−	0.6+	1998 10 14	699	0.1−	0.3+	2000 02 28	704	0.1+	0.2−
1998 09 15	699	0.4+	0.2+	1998 10 28	704	1.9−	0.8+	2000 02 28	704	0.3+	0.2+
1998 09 15	699	0.6+	0.3−	1998 10 28	704	1.0−	1.6−	2000 02 28	704	0.2+	0.2+
1998 09 15	699	0.8+	0.7+	1998 10 28	704	0.4+	1.7+	2000 02 28	704	0.7+	0.3+
1998 09 18	704	0.1−	0.6−	1998 10 28	704	(5.3−	1.5+)	2000 02 28	704	0.6+	0.4+
1998 09 18	704	0.6+	0.4−	1998 11 10	699	1.2+	0.3−	2000 02 29	704	0.4−	0.2−
1998 09 18	704	0.1+	0.1−	1998 11 10	699	0.1+	1.2−	2000 02 29	704	0.2−	0.2+
1998 09 18	704	0.5+	0.3+	1998 11 10	699	0.8+	0.6+	2000 02 29	704	0.5−	0.3+
1998 09 18	704	1.3−	0.1+	2000 02 03	704	0.1+	0.1+	2000 02 29	704	0.7−	0.3+
1998 09 26	704	0.3+	0.1−	2000 02 03	704	0.0	0.1+	2000 02 29	704	0.6−	0.2+
1998 09 26	704	0.3−	0.1−	2000 02 03	704	0.1−	0.5−	2000 03 05	704	0.5−	0.0
1998 09 26	704	1.1−	0.5−	2000 02 03	704	0.3−	0.2−	2000 03 05	704	0.1+	0.3+
1998 09 26	704	0.1−	1.0−	2000 02 03	704	0.0	0.1−	2000 03 05	704	0.1+	0.7+
1998 09 26	704	0.7−	0.3−	2000 02 06	703	0.3+	0.0	2000 03 05	704	0.5−	0.0
1998 09 27	704	0.3+	0.2+	2000 02 06	703	0.2+	0.2−	2000 03 05	704	0.1−	0.0
1998 09 27	704	0.0	0.3−	2000 02 06	703	0.1+	0.3−	2000 03 11	699	0.6+	0.0
1998 09 27	704	0.3+	0.4−	2000 02 06	703	0.1−	0.1+	2000 03 11	699	0.6+	0.0
1998 09 27	704	0.2−	0.3+	2000 02 11	704	1.7−	0.0	2000 03 11	699	0.6+	0.0
1998 09 27	704	0.9+	0.7−	2000 02 11	704	0.4+	0.2+	2000 03 11	699	0.4+	0.9−

1998 RB₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	128.80298		(2000.0)	P	Q
<i>n</i>	0.28949562	<i>ω</i>	32.62593	+0.82173510	−0.56985025
<i>a</i>	2.2631225	<i>Ω</i>	2.13139	+0.49197350	+0.70522245
<i>e</i>	0.1117122	<i>i</i>	7.26405	+0.28759954	+0.42181985
<i>P</i>	3.40	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 08 02	699	0.1−	0.0	1998 09 27	704	0.3+	1.1+	2000 02 28	120	0.5−	1.2−
1998 08 02	699	0.7−	0.6−	1998 09 27	704	0.1+	0.3+	2000 02 28	120	0.6−	1.5−
1998 08 02	699	0.6−	1.0−	1998 09 27	704	0.4+	0.9+	2000 03 02	120	1.1−	1.1−
1998 09 02	691	0.2+	0.1−	1998 10 14	699	0.0	0.6−	2000 03 02	120	(2.2−	1.1−)
1998 09 02	691	0.1+	0.2+	1998 10 14	699	0.5+	0.4−	2000 03 05	120	0.7−	1.7−
1998 09 02	691	0.0	0.3+	1998 10 14	699	0.1−	0.5−	2000 03 05	120	1.0−	0.4−

1998 09 14	704	1.3−	2.0+	1998 12 09	704	1.6−	0.5+	2000 03 05	120	1.7−	0.2+
1998 09 14	704	0.1−	0.3−	1998 12 09	704	0.0	1.9−	2000 03 11	704	0.4+	0.5+
1998 09 14	704	0.1−	0.4+	1998 12 09	704	0.2−	1.1−	2000 03 11	704	0.4+	0.6+
1998 09 15	699	0.1−	0.6+	1998 12 09	704	0.9+	0.2−	2000 03 11	704	(0.5+	3.3+)
1998 09 15	699	0.8+	1.1+	1998 12 09	704	0.2+	0.7+	2000 03 11	704	0.7+	0.6+
1998 09 15	699	0.5+	1.2+	1998 12 24	699	(0.5−	2.5−)	2000 03 11	704	0.2+	1.7+
1998 09 18	704	0.1+	0.2−	1998 12 24	699	1.6+	0.2+	2000 03 11	704	0.8+	0.8+
1998 09 18	704	0.3−	0.2+	1998 12 24	699	0.1−	0.2−	2000 03 11	704	0.2−	1.1+
1998 09 18	704	0.0	0.6+	2000 02 11	704	1.0+	0.1+	2000 03 11	704	1.0+	1.1+
1998 09 18	704	0.4−	0.0	2000 02 11	704	0.6+	0.1−	2000 03 11	704	1.0+	1.3+
1998 09 18	704	0.6−	0.5+	2000 02 11	704	0.5+	0.5−	2000 03 14	703	0.5−	0.1−
1998 09 26	704	0.7−	0.2−	2000 02 11	704	0.6+	0.0	2000 03 14	703	0.2+	0.2+
1998 09 26	704	0.8−	1.1−	2000 02 11	704	0.2−	0.3−	2000 03 14	703	0.1−	0.3+
1998 09 26	704	0.2−	0.1+	2000 02 27	703	0.5+	1.0+	2000 03 14	703	0.2+	0.5+
1998 09 26	704	0.4−	0.2+	2000 02 27	703	0.1−	1.4+	2000 03 15	704	0.6+	0.4−
1998 09 26	704	0.6−	1.2+	2000 02 27	703	0.6+	0.3+	2000 03 15	704	0.5+	0.5+
1998 09 27	704	0.4+	0.2−	2000 02 27	703	0.1+	0.2+	2000 03 15	704	0.5+	0.2+
1998 09 27	704	0.2+	0.2+	2000 02 28	120	(3.8−	0.6−)	2000 03 15	704	0.2−	0.3+

1998 RL₇₅ = 2000 AO₁₆₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	325.67113	(2000.0)	
<i>P</i>	4.63	<i>H</i>	14.0
<i>n</i>	0.21286942	ω	341.34076
<i>a</i>	2.7779678	Ω	178.19817
<i>e</i>	0.0760040	<i>i</i>	11.23070
<i>P</i>	4.63	<i>H</i>	14.0

Residuals in seconds of arc

1996 03 16	566	0.5−	1.6−	1998 09 26	704	(2.6+	2.3+)	2000 01 08	704	0.6+	0.7−
1996 03 16	566	0.5−	1.5−	1998 09 26	704	1.5+	0.1+	2000 01 08	704	0.6−	0.6−
1996 03 16	566	0.1+	1.3−	1998 09 26	704	0.1−	0.1+	2000 01 10	704	0.0	0.1+
1998 09 14	704	1.0−	1.8−	1998 09 26	704	0.9+	0.0	2000 01 10	704	0.0	0.7+
1998 09 14	704	1.2+	0.6−	1998 09 27	704	0.6−	0.2−	2000 01 10	704	0.5+	0.4+
1998 09 14	704	0.5−	0.2+	1998 09 27	704	0.7+	0.2−	2000 01 10	704	0.2+	0.3+
1998 09 18	704	0.3+	0.3+	1998 09 27	704	0.4−	0.4−	2000 01 10	704	0.4−	0.1+
1998 09 18	704	1.5−	1.8−	1998 09 27	704	1.0+	0.2+	2000 01 11	704	0.2−	0.4+
1998 09 18	704	0.8+	0.0	1998 09 27	704	0.7−	0.8+	2000 01 11	704	0.2−	0.2−
1998 09 18	704	0.5+	1.8−	2000 01 08	704	0.1−	0.4−	2000 01 11	704	0.0	0.3+
1998 09 18	704	1.1−	0.2+	2000 01 08	704	0.2+	0.4−	2000 01 11	704	0.1+	0.6+

1998 RP₇₅ = 1991 PN₂₀ = 2000 DK₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	234.50298	(2000.0)	
<i>P</i>	3.35	<i>H</i>	15.1
<i>n</i>	0.29415997	ω	233.72824
<i>a</i>	2.2391353	Ω	46.79571
<i>e</i>	0.0449202	<i>i</i>	2.88077
<i>P</i>	3.35	<i>H</i>	15.1

Residuals in seconds of arc

1991 08 06	675	0.8+	0.5+	1998 09 26	704	0.3−	0.2−	2000 02 28	704	0.6−	0.4−
1991 08 06	675	0.7−	0.8−	1998 09 26	704	0.2+	0.2+	2000 02 28	704	0.4−	0.2+
1998 09 14	704	0.3−	0.4+	1998 09 26	704	0.7−	0.8−	2000 03 05	704	0.2+	0.1−
1998 09 14	704	0.4+	0.1+	1998 09 26	704	0.2−	0.7−	2000 03 05	704	0.1−	0.1−
1998 09 14	704	1.1−	0.6+	1998 09 26	704	0.2−	0.9−	2000 03 05	704	0.6+	0.2+
1998 09 17	699	0.7+	0.0	1998 09 27	704	0.6+	0.2−	2000 03 05	704	1.1+	0.1+
1998 09 17	699	0.7+	0.3+	1998 09 27	704	0.0	0.1+	2000 03 05	704	0.3+	0.3−
1998 09 17	699	0.3−	0.4−	1998 09 27	704	0.4+	0.2−	2000 03 11	699	0.2−	0.0
1998 09 18	704	0.2+	1.2+	1998 09 27	704	0.1+	0.2−	2000 03 11	699	0.3−	0.0
1998 09 18	704	0.6−	0.5+	1998 09 27	704	0.3+	0.2−	2000 03 11	699	0.2−	0.5−
1998 09 18	704	0.1+	0.0	2000 02 28	704	0.3+	0.9+	2000 03 11	699	0.9−	0.2−
1998 09 18	704	0.3+	0.5−	2000 02 28	704	0.0	0.1−				
1998 09 18	704	0.1−	0.7+	2000 02 28	704	0.1+	0.1−				

1998 RT₇₅ = 2000 DW₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	179.07011	(2000.0)	
<i>P</i>	3.35	<i>H</i>	15.9
<i>n</i>	0.29464340	ω	166.25352
<i>a</i>	2.2366854	Ω	163.72448
<i>e</i>	0.1725014	<i>i</i>	6.61234
<i>P</i>	3.35	<i>H</i>	15.9

Residuals in seconds of arc

1998 09 14	704	0.9+	1.1−	1998 09 25	699	0.7+	0.6+	1998 10 17	699	1.0+	1.0−
1998 09 14	704	1.0+	1.1−	1998 09 26	704	0.2−	1.5−	1998 10 17	699	0.7−	0.3+
1998 09 14	704	1.2−	0.8−	1998 09 26	704	1.1+	0.1−	1998 10 17	699	0.6−	1.2−
1998 09 18	704	0.1+	0.1−	1998 09 26	704	0.2+	0.8+	2000 02 29	704	1.0−	0.3−
1998 09 18	704	1.0−	0.7−	1998 09 26	704	0.5+	0.1+	2000 02 29	704	0.3−	0.2+
1998 09 18	704	0.8−	0.0	1998 09 27	704	0.3−	0.2−	2000 02 29	704	0.3+	1.1−
1998 09 18	704	1.8−	1.1+	1998 09 27	704	0.3−	0.5+	2000 03 03	704	0.4+	0.0
1998 09 18	704	1.2+	2.0+	1998 09 27	704	0.5−	1.2+	2000 03 03	704	0.5+	0.4+
1998 09 25	699	0.1+	1.0+	1998 09 27	704	0.0	0.6+	2000 03 03	704	0.2+	1.1+
1998 09 25	699	0.2+	0.3−	1998 09 27	704	0.2+	0.1+				

1998 RA₇₆ = 2000 CA₈₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	98.32418	(2000.0)	
<i>P</i>	4.60	<i>H</i>	15.3
<i>n</i>	0.21426895	ω	304.85903
<i>a</i>	2.7658581	Ω	78.75137
<i>e</i>	0.1508068	<i>i</i>	2.23503
<i>P</i>	4.60	<i>H</i>	15.3

Residuals in seconds of arc

1998 09 14	704	0.5−	0.0	1998 09 26	704	0.7−	1.3+	2000 02 08	819	0.3−	0.7−
1998 09 14	704	0.6−	0.6−	1998 09 26	704	0.4+	1.8+	2000 02 08	819	0.4−	0.3−
1998 09 14	704	2.1+	0.2+	1998 09 26	704	1.0−	1.1+	2000 02 08	819	0.3+	0.7+
1998 09 18	704	0.4−	1.1−	1998 09 27	704	0.6+	0.6−	2000 02 08	819	0.0	0.6+
1998 09 18	704	0.9−	1.8−	1998 09 27	704	0.9+	0.3+	2000 02 08	819	0.2−	0.0
1998 09 18	704	0.3−	0.7−	1998 09 27	704	0.7+	1.5−	2000 02 12	819	0.3+	0.6+
1998 09 18	704	0.8−	0.6+	1998 09 27	704	0.3+	0.8−	2000 02 12	819	0.9+	0.7+
1998 09 25	699	0.0	0.8+	1998 09 27	704	0.2+	1.7−	2000 02 12	819	0.1+	0.5−
1998 09 25	699	0.0	0.0	1998 10 14	699	0.4−	0.4+	2000 02 12	819	0.4+	0.1+
1998 09 25	699	0.1−	1.2−	1998 10 14	699	0.5−	1.0−	2000 02 12	819	0.4+	0.3−
1998 09 26	704	1.3+	2.0+	1998 10 14	699	0.4−	0.3+	2000 02 12	819	0.6−	0.6−
1998 09 26	704	0.1+	2.1+	2000 02 08	819	0.0	0.6−	2000 02 12	819	0.7−	0.1+

1998 RK₇₇ = 1975 TF₆ = 1999 XU₂₃₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	17.46772	(2000.0)	
<i>P</i>	4.62	<i>H</i>	14.3
<i>n</i>	0.21338797	ω	76.51869
<i>a</i>	2.7734655	Ω	32.22466
<i>e</i>	0.0765986	<i>i</i>	7.32104
<i>P</i>	4.62	<i>H</i>	14.3

Residuals in seconds of arc

1975 10 09	711	1.0+	1.8−	Y	1998 09 26	704	0.7−	0.3+	1999 12 10	704	0.9+	0.0
1998 09 14	704	0.7+	0.1+		1998 09 27	704	1.3+	0.5−	2000 01 02	704	0.3+	0.2−
1998 09 14	704	0.9+	0.2−		1998 09 27	704	0.5−	0.5+	2000 01 02	704	0.1+	0.2+
1998 09 14	704	(2.9−	0.5−)		1998 09 27	704	0.0	0.3−	2000 01 02	704	0.2+	1.4−
1998 09 18	704	0.9+	1.0+		1998 09 27	704	1.0−	0.4+	2000 01 02	704	1.2−	0.7−
1998 09 18	704	0.4−	0.1+		1998 09 27	704	0.3−	0.6+	2000 01 02	704	0.4+	0.4−
1998 09 18	704	0.6−	0.8+		1999 12 07	703	0.2−	0.6−	2000 01 29	704	0.1+	0.2+
1998 09 18	704	1.6−	1.2+		1999 12 07	703	0.4+	0.6+	2000 01 29	704	0.4+	0.1+
1998 09 18	704	1.5−	0.2−		1999 12 07	703	0.2−	1.0+	2000 01 29	704	0.3−	0.1+
1998 09 26	704	1.3+	0.2−		1999 12 07	703	0.3−	0.6+	2000 01 29	704	0.5−	0.5+
1998 09 26	704	0.3+	1.1−		1999 12 10	704	0.1−	0.0	2000 01 29	704	0.7−	0.3+

2000 MAR. 20

M.P.C. 39229

1998 09 26 704 0.1+ 0.6- 1999 12 10 704 0.6+ 0.3+
1998 09 26 704 (0.2+ 2.2-) 1999 12 10 704 0.4+ 0.0

1998 RT₇₈ = 2000 DU₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	165.03281		(2000.0)		P		Q
<i>n</i>	0.28278649	ω	196.83667	+0.93914130		+0.33565627	
<i>a</i>	2.2987775	Ω	143.28924	-0.29940676		+0.90412924	
<i>e</i>	0.1570881	<i>i</i>	7.02731	-0.16843162		+0.26435805	
<i>P</i>	3.49	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 28	704	0.8+ 0.6+	1998 09 18	704	0.7- 1.3-	2000 02 29	704	0.4+ 0.4-
1998 08 28	704	(2.1+ 1.3-)	1998 09 22	910	1.0+ 0.3+	2000 02 29	704	0.7+ 0.8-
1998 08 28	704	(2.2- 0.3+)	1998 09 23	910	0.9+ 0.2+	2000 02 29	704	0.1- 0.5+
1998 08 28	704	1.2- 1.6-	1998 09 23	910	0.8+ 0.3+	2000 03 03	704	0.5+ 0.6-
1998 09 14	704	0.1+ 0.3-	2000 02 05	695	0.4+ 0.8-	2000 03 03	704	1.1- 0.3+
1998 09 14	704	0.4- 0.7-	2000 02 05	695	0.8+ 0.7-	2000 03 03	704	1.0- 0.3+
1998 09 14	704	0.9- 0.5-	2000 02 27	691	0.7- 0.0	2000 03 03	704	0.7- 0.0
1998 09 18	704	0.7+ 0.3-	2000 02 27	691	0.6- 0.1-	2000 03 05	704	(2.1- 0.8-)
1998 09 18	704	0.4- 1.3+	2000 02 27	691	0.8- 0.1+	2000 03 05	704	0.7+ 0.3-
1998 09 18	704	0.3- 1.3+	2000 02 29	704	0.5+ 0.3+	2000 03 05	704	0.5- 1.1+
1998 09 18	704	0.5- 0.7+	2000 02 29	704	0.3+ 0.4+	2000 03 05	704	1.2+ 0.6+

1998 RN₈₀ = 2000 DY₆₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	105.64779		(2000.0)		P		Q
<i>n</i>	0.25450838	ω	221.84725	+0.70221302		-0.71193764	
<i>a</i>	2.4660468	Ω	183.56595	+0.67766367		+0.67113280	
<i>e</i>	0.1219091	<i>i</i>	5.95749	+0.21833189		+0.20670164	
<i>P</i>	3.87	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.3- 0.2-	1998 09 27	704	1.3- 1.3+	2000 02 29	704	1.0- 0.2-
1998 09 14	704	0.7- 0.8-	1998 09 27	704	0.1+ 1.1+	2000 02 29	704	0.4- 0.1-
1998 09 14	704	1.0- 1.2-	1998 09 27	704	0.3+ 0.2-	2000 02 29	704	0.3- 0.7+
1998 09 18	704	0.2+ 0.2-	1998 09 27	704	(2.2- 0.5+)	2000 02 29	704	0.1- 0.1-
1998 09 18	704	1.2- 0.2+	1998 10 10	699	0.7+ 0.4+	2000 03 03	704	0.4+ 0.6+
1998 09 18	704	1.0+ 1.5+	1998 10 10	699	0.9+ 1.3-	2000 03 03	704	0.1+ 0.4-
1998 09 18	704	0.2+ 0.8+	1998 10 10	699	0.2- 1.0+	2000 03 03	704	0.2+ 0.3-
1998 09 23	120	0.1+ 0.4+	1998 10 28	704	1.8- 0.2+	2000 03 03	704	0.1- 0.5+
1998 09 24	120	0.5+ 1.4-	1998 10 28	704	0.6+ 0.6-	2000 03 03	704	0.1+ 0.2-
1998 09 24	120	0.2+ 0.6+	1998 10 28	704	1.3- 0.4-	2000 03 11	704	0.4- 0.1+
1998 09 26	704	0.3+ 1.1-	1998 10 28	704	(3.3- 0.6-)	2000 03 11	704	0.7+ 0.2-
1998 09 26	704	0.0+ 1.0-	1998 10 29	704	0.1- 0.0	2000 03 11	704	0.2+ 0.2-
1998 09 26	704	1.0+ 0.3-	1998 10 29	704	0.0 1.7-	2000 03 11	704	0.6+ 0.2-
1998 09 26	704	0.0 0.0	1998 10 29	704	0.9+ 1.0+			
1998 09 27	704	1.0+ 1.4+	1998 10 29	704	0.2- 0.4+			

1998 SG = 1999 XG₁₈₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	210.29879		(2000.0)		P		Q
<i>n</i>	0.21556853	ω	260.24666	-0.44489031		+0.89404717	
<i>a</i>	2.7547307	Ω	343.03679	-0.73494398		-0.39793873	
<i>e</i>	0.1102028	<i>i</i>	10.35893	-0.51179094		-0.20572901	
<i>P</i>	4.57	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 23	704	1.0- 1.5-	1998 09 16	691	0.7- 0.1+	1999 12 12	704	0.2+ 0.3-
1998 08 23	704	0.7+ 1.6+	1998 09 16	691	0.5- 0.0	1999 12 12	704	0.5+ 0.4+
1998 08 23	704	0.8- 0.6-	1998 09 16	691	0.8- 0.2-	1999 12 12	704	0.4+ 0.8+
1998 08 23	704	0.3- 0.6-	1998 09 17	691	0.0 0.4-	1999 12 12	704	0.2- 0.9+
1998 08 23	704	(4.7- 1.7+)	1998 09 17	691	0.4- 0.1-	1999 12 15	704	0.5- 1.4-
1998 08 26	699	0.7+ 0.8+	1998 09 17	691	0.2- 0.0	1999 12 15	704	0.4+ 0.3-

1998 08 26	699	0.6+ 0.3+	1998 09 18	704	0.3+ 0.3+	1999 12 15	704	0.6+ 0.5-
1998 08 26	699	0.5- 0.4-	1998 09 18	704	1.1+ 0.5-	1999 12 15	704	0.2- 0.3-
1998 09 14	704	0.3+ 0.2+	1998 09 18	704	1.1+ 0.3+	2000 01 02	704	0.1+ 0.1-
1998 09 14	704	1.0+ 0.1-	1998 09 18	704	0.9- 1.1+	2000 01 02	704	0.3- 0.3+
1998 09 14	704	1.0+ 1.0-	1998 09 18	704	0.5- 0.0	2000 01 02	704	0.2- 0.1-
1998 09 14	704	0.0 1.0+	1999 12 12	704	0.3- 0.5+	2000 01 02	704	0.5- 0.0

1998 SY = 2000 ED₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	110.46064		(2000.0)		P		Q
<i>n</i>	0.23477395	ω	6.90641	+0.81246595		-0.58177430	
<i>a</i>	2.6023724	Ω	28.77370	+0.53106149		+0.71167012	
<i>e</i>	0.1472641	<i>i</i>	4.51807	+0.24056761		+0.39378206	
<i>P</i>	4.20	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 16	910	0.7+ 0.5-	1998 09 21	809	0.7- 0.1+	1998 11 14	699	0.4+ 0.8+
1998 09 16	910	0.7+ 0.4-	1998 10 10	699	0.2+ 0.2+	1998 11 14	699	0.9- 0.7+
1998 09 16	910	0.8+ 0.9-	1998 10 10	699	0.2- 0.0	1998 11 14	699	0.1- 0.2+
1998 09 18	910	1.2- 0.5-	1998 10 10	699	0.7+ 0.3-	1998 11 23	699	0.6- 0.1+
1998 09 18	910	1.1- 0.7-	1998 10 28	704	0.6+ 0.4+	1998 11 23	699	0.1- 0.1+
1998 09 18	910	1.2- 0.7-	1998 10 28	704	0.3+ 0.8-	1998 11 23	699	0.0 0.5-
1998 09 18	809	0.9- 1.9+	1998 10 28	704	(2.2- 0.9+)	2000 03 05	704	0.4- 0.0
1998 09 18	809	(0.4- 2.3+)	1998 10 28	704	0.2+ 0.6-	2000 03 05	704	0.0 0.4-
1998 09 18	809	(1.9- 2.7+)	1998 10 29	704	1.4+ 1.9-	2000 03 05	704	0.2- 0.3-
1998 09 20	910	0.5- 0.8-	1998 10 29	704	0.6+ 0.3+	2000 03 05	704	0.0 0.4-
1998 09 20	910	0.2- 0.5-	1998 10 29	704	0.2+ 0.1-	2000 03 05	704	0.2+ 0.1-
1998 09 20	910	0.0 0.4-	1998 10 29	704	1.0+ 0.2-	2000 03 08	704	0.3+ 0.2-
1998 09 20	809	0.5+ 1.2+	1998 10 29	704	0.4+ 0.6-	2000 03 08	704	0.1+ 0.1+
1998 09 20	809	0.3+ 1.9+	1998 11 10	704	1.4- 0.0	2000 03 08	704	1.3- 1.3+
1998 09 20	809	0.7+ 1.8+	1998 11 10	704	0.4- 0.3+	2000 03 09	704	0.2+ 0.3+
1998 09 20	809	(0.8+ 3.2+)	1998 11 10	704	0.8- 0.4+	2000 03 09	704	0.4- 0.1-
1998 09 20	809	(0.4- 2.4+)	1998 11 10	704	0.6- 0.6+	2000 03 09	704	0.3+ 0.0
1998 09 20	809	(0.6+ 2.7+)	1998 11 11	704	(3.1- 1.0+)	2000 03 09	704	0.3+ 0.2-
1998 09 21	809	1.5+ 0.1+	1998 11 11	704	0.0 0.2+	2000 03 09	704	0.8+ 0.2-
1998 09 21	809	0.6- 0.8-	1998 11 11	704	(2.3+ 2.0+)			

1998 SZ = 2000 CX₇₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	82.75650		(2000.0)		P		Q
<i>n</i>	0.20337503	ω	228.75450	+0.67506373		-0.73775907	
<i>a</i>	2.8637666	Ω	178.78569	+0.68659136		+0.62788830	
<i>e</i>	0.0380836	<i>i</i>	1.93758	+0.26996531		+0.24792706	
<i>P</i>	4.85	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 16	910	0.2- 0.0	2000 01 07	704	0.4- 0.0	2000 02 02	704	0.8- 0.5+
1998 09 16	910	0.3- 0.6-	2000 01 07	704	0.3+ 0.7-	2000 02 02	704	0.8- 0.1-
1998 09 16	910	0.1+ 0.2+	2000 01 07	704	0.0 0.5-	2000 02 02	704	0.6- 0.1+
1998 09 18	910	0.0 0.1+	2000 01 07	704	0.0 0.4-	2000 02 02	704	1.3+ 1.6-
1998 09 18	910	0.1+ 0.0	2000 01 07	704	0.3- 0.3-	2000 02 03	704	0.0 0.2-
1998 09 18	910	0.1+ 0.0	2000 01 30	703	0.6+ 0.5+	2000 02 03	704	0.3+ 0.7+
1998 09 20	910	0.1+ 0.1-	2000 01 30	703	0.2- 0.6+	2000 02 03	704	0.1- 0.1+
1998 09 20	910	0.1+ 0.4+	2000 01 30	703	0.5- 0.7+	2000 02 03	704	0.8+ 0.1-
1998 09 20	910	0.1- 0.2+	2000 01 30	703	0.5+ 0.7+			

1998 SQ₁ = 2000 AK₉₈

Id. A. Doppler

M.P.C. 39230

2000 MAR. 20

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	33.87492		(2000.0)	P	Q
<i>n</i>	0.24187023	ω	40.52741	-0.46971394	-0.87721939
<i>a</i>	2.5512192	Ω	77.70177	+0.78143944	-0.46545708
<i>e</i>	0.1961939	<i>i</i>	5.83153	+0.41075687	-0.11762592
<i>P</i>	4.07	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 16	910	0.3-	0.5+	1998 09 27	704	0.0	1.3-	2000 02 26	703	0.2-	0.6+
1998 09 16	910	0.0	0.4+	1998 09 27	704	0.4+	0.7+	2000 02 26	703	(5.3-	1.3-)
1998 09 16	910	0.4+	0.4+	1998 09 27	704	1.9-	0.1+	2000 02 26	703	(0.3-	2.1-)
1998 09 17	910	0.1+	0.5+	2000 01 04	704	0.2+	0.7-	2000 03 05	704	1.1-	1.1+
1998 09 18	910	0.2+	0.5+	2000 01 04	704	0.4+	0.7-	2000 03 05	704	0.7+	0.7+
1998 09 18	910	0.4+	0.6+	2000 01 04	704	0.4+	0.5-	2000 03 05	704	0.2+	0.5+
1998 09 19	910	0.3+	0.3+	2000 01 04	704	0.6+	1.4-	2000 03 05	704	0.4+	0.6+
1998 09 19	910	0.2+	0.1+	2000 01 07	704	0.1-	0.8-	2000 03 12	704	0.0	0.6+
1998 09 20	910	0.2+	0.3+	2000 01 07	704	0.8-	1.0-	2000 03 12	704	0.4-	0.3+
1998 09 22	910	0.2+	0.4+	2000 01 07	704	0.9-	0.8-	2000 03 12	704	0.4-	0.0
1998 09 23	910	0.1+	0.5+	2000 01 07	704	0.6+	0.7+	2000 03 12	704	0.5-	0.5-
1998 09 23	910	0.2+	0.3+	2000 02 04	704	0.0	0.3-	2000 03 12	704	1.1-	0.3-
1998 09 26	704	0.5-	0.4+	2000 02 04	704	1.0+	0.0	2000 03 14	608	0.5+	0.0
1998 09 26	704	0.1-	1.5-	2000 02 04	704	0.3+	0.6+	2000 03 14	608	0.5+	0.3-
1998 09 26	704	0.4-	0.7-	2000 02 04	704	0.1-	0.9+	2000 03 14	608	0.6+	0.4-
1998 09 26	704	0.2+	0.7-	2000 02 04	704	0.1-	1.9+				
1998 09 27	704	1.1-	1.0+	2000 02 26	703	0.6+	0.4+				

1998 SF₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	170.58097		(2000.0)	P	Q
<i>n</i>	0.30483001	ω	232.77782	+0.92801042	+0.36140331
<i>a</i>	2.1865743	Ω	105.87720	-0.30504165	+0.87650644
<i>e</i>	0.2160801	<i>i</i>	5.39695	-0.21388374	+0.31800016
<i>P</i>	3.23	<i>H</i>	15.6	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 09 17	426	0.0	0.1+	1998 10 19	426	0.2-	0.4-	2000 02 03	704	0.7+	0.5-
1998 09 17	426	0.5-	0.0	1998 10 19	426	0.0	0.7-	2000 02 03	704	0.5+	0.1-
1998 09 17	426	0.8-	0.2+	1998 10 19	426	0.6-	0.6-	2000 02 03	704	1.0-	0.4+
1998 09 18	426	0.1+	0.3+	1998 11 14	426	0.3-	0.0	2000 02 27	858	0.2+	0.2+
1998 09 18	426	0.1+	0.4+	1998 11 14	426	0.0	0.4+	2000 02 27	858	0.3+	0.3+
1998 09 18	426	0.2+	0.4+	1998 11 14	426	0.4+	0.3+	2000 02 27	858	0.1-	0.2-
1998 09 26	426	0.3+	0.4+	1998 11 16	426	0.2+	0.3+	2000 03 01	858	0.3-	0.1+
1998 09 26	426	0.0	0.4+	1998 11 16	426	0.2-	0.2+	2000 03 01	858	0.4-	0.1-
1998 09 26	426	0.3+	0.3+	1998 11 16	426	0.2+	0.1+	2000 03 01	858	0.4+	0.4+
1998 09 27	699	0.3+	0.3+	1998 12 16	426	0.6+	0.6-	2000 03 05	704	0.3+	1.4-
1998 09 27	699	0.3-	0.4+	1998 12 16	426	0.8-	0.3+	2000 03 05	704	0.0	0.3+
1998 09 27	699	0.0	0.3+	1998 12 16	426	0.6+	0.1+	2000 03 05	704	0.1-	0.0
1998 10 13	426	0.4-	0.7-	1998 12 18	426	0.8+	0.3-	2000 03 05	704	0.5-	0.4+
1998 10 13	426	0.2-	0.4-	1998 12 18	426	0.0	0.3-	2000 03 05	704	0.1+	1.9+
1998 10 13	426	0.1+	0.4-	2000 02 03	704	0.5+	0.1+				

1998 SO₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	127.45828		(2000.0)	P	Q
<i>n</i>	0.24051667	ω	328.59702	+0.72354348	-0.64852030
<i>a</i>	2.5607819	Ω	73.76083	+0.67332215	+0.58761787
<i>e</i>	0.1702214	<i>i</i>	14.25693	+0.15205957	+0.48386637
<i>P</i>	4.10	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1977 07 21	413	0.9+	0.9-	1998 10 18	721	0.1-	0.2+	1998 12 17	704	1.2+	0.6-
1977 07 21	413	0.6+	0.3+	1998 11 11	721	0.7-	0.7+	1998 12 17	704	1.0+	0.1-
1977 08 18	413	1.0-	0.8-	1998 11 11	721	0.2+	0.2+	1998 12 17	704	0.2+	0.1-
1977 08 18	413	0.4+	0.3-	1998 11 20	910	0.7+	0.3-	1999 01 05	699	0.4+	0.9-
1996 04 24	675	0.6-	0.1-	1998 11 20	910	0.7+	0.4-	1999 01 05	699	0.2-	1.2+

1996 04 24	675	0.4+	0.7-	1998 11 20	910	0.6+	0.4-	1999 01 05	699	0.4+	0.1+
1998 09 18	721	1.7+	0.1-	1998 12 14	704	(0.3+	2.2-)	2000 03 11	703	0.5-	0.2+
1998 09 18	721	0.8-	0.0	1998 12 14	704	1.8-	1.3-	2000 03 11	703	0.3+	0.4-
1998 09 18	721	0.6-	0.2+	1998 12 14	704	0.0	0.5-	2000 03 11	703	0.3+	1.1-
1998 09 19	721	(2.6-	0.2-)	1998 12 14	704	0.0	0.2+	2000 03 11	703	0.8-	0.2+
1998 09 19	721	0.7+	0.2+	1998 12 14	704	0.7-	0.5-				
1998 10 18	721	0.4-	0.2+	1998 12 17	704	2.0-	1.0+				

1998 SJ₄ = 2000 EV₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	92.20547		(2000.0)	P	Q
<i>n</i>	0.26137510	ω	29.89097	+0.51218869	-0.85874768
<i>a</i>	2.4226643	Ω	29.30662	+0.78194082	+0.45917713
<i>e</i>	0.2142020	<i>i</i>	1.71728	+0.35529046	+0.22739565
<i>P</i>	3.77	<i>H</i>	15.7	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 09 19	735	0.1-	0.3-	1998 09 24	747	0.8+	0.9+	2000 03 10	704	0.6+	0.1+
1998 09 19	735	0.7-	0.1-	1998 09 27	735	0.0	0.0	2000 03 10	704	1.4-	0.3-
1998 09 20	735	0.5-	0.4-	1998 09 27	735	0.1+	0.2-	2000 03 10	704	0.3+	1.1+
1998 09 20	735	0.1-	0.3+	1998 09 27	735	0.4+	0.0	2000 03 10	704	(0.1+	3.0+)
1998 09 20	684	0.6-	0.2+	1998 10 09	747	0.9+	0.3+	2000 03 10	704	1.1+	1.3+
1998 09 20	684	0.7-	0.2+	1998 10 09	747	1.5+	0.3+	2000 03 11	704	0.2+	0.1-
1998 09 21	684	1.0-	0.3-	1998 10 10	735	0.3-	0.3-	2000 03 11	704	0.5+	0.2+
1998 09 21	684	0.9-	0.1-	1998 10 10	735	0.9-	0.1+	2000 03 11	704	0.2-	0.7-
1998 09 23	735	0.5+	0.4+	1998 10 10	735	0.6-	0.2-	2000 03 11	704	0.2-	0.1+
1998 09 23	735	0.6+	0.1+	1998 11 11	735	1.1-	0.2-	2000 03 11	704	0.1+	0.3+
1998 09 24	747	0.0	0.7+	1998 11 11	735	0.3-	1.0+				
1998 09 24	747	0.9+	0.0	1998 11 11	735	1.3+	0.1-				

1998 SM₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	129.89924		(2000.0)	P	Q
<i>n</i>	0.26160924	ω	174.41536	+0.94895293	-0.31517205
<i>a</i>	2.4212186	Ω	203.96730	+0.28819106	+0.88240290
<i>e</i>	0.2160115	<i>i</i>	1.75586	+0.12819615	+0.34933037
<i>P</i>	3.77	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 08 02	699	(2.9+	0.2-)	1998 12 08	699	0.2+	0.4-	2000 03 04	704	0.0	0.7+
1998 08 02	699	0.1-	0.1+	1998 12 08	704	0.0	0.2-	2000 03 04	704	0.1+	0.4+
1998 08 02	699	0.6-	0.1+	1998 12 08	704	0.2+	0.1-	2000 03 04	704	0.4+	0.3+
1998 09 18	343	0.2+	0.3+	1998 12 08	699	0.5-	0.9+	2000 03 04	704	0.5-	0.1-
1998 09 18	343	(2.5-	0.2+)	1998 12 08	704	1.0-	1.2-	2000 03 05	704	0.6-	0.5+
1998 09 19	343	(1.8+	2.9-)	1998 12 08	704	0.0	0.4-	2000 03 05	704	0.4-	0.4+
1998 09 19	343	(2.1+	0.9-)	1998 12 08	699	0.6+	1.2-	2000 03 05	704	0.2+	0.7+
1998 09 20	684	0.4+	0.2-	1998 12 22	327	0.0	1.0+	2000 03 05	704	0.3-	0.3+
1998 09 20	684	0.2+	0.1-	1998 12 22	327	0.3-	0.5+	2000 03 05	704	0.2+	0.9+
1998 09 21	684	0.0	0.0	1998 12 22	327	0.3-	0.4+	2000 03 05	608	0.3+	0.2-
1998 09 21	684	0.0	0.0	2000 02 26	684	0.1-	0.1-	2000 03 05	608	0.3+	0.4-
1998 09 24	684	0.2+	0.1-	2000 02 26	684	0.0	0.4-	2000 03 05	608	0.0	1.4-
1998 09 24	684	0.2+	0.0	2000 02 27	684	0.2+	0.4-	2000 03 10	691	0.1+	0.2-
1998 09 25	684	0.1+	0.1-	2000 02 27	684	0.1+	0.2-	2000 03 10	691	0.0	0.2-
1998 09 25	684	0.0	0.2-	2000 02 29	704	0.2+	0.6+	2000 03 10	691	0.0	0.1-
1998 09 26	704	0.8+	0.0	2000 02 29	704	0.7+	0.3-	2000 03 11	704	0.5+	0.2+
1998 09 26	704	0.5-	0.0	2000 02 29	704	0.1-	0.2-	2000 03 11	704	0.3+	0.5+
1998 09 26	704	0.5+	0.1+	2000 02 29	704	0.6-	0.6+	2000 03 11	704	0.4+	0.5+
1998 09 26	704	0.7-	0.7-	2000 03 02	684	0.7+	0.1-	2000 03 11	704	0.3+	1.1+
1998 09 26	704	0.2-	0.1-	2000 03 02	684	0.7+	0.1+	2000 03 11	704	0.7+	0.5+
1998 09 27	704	0.1-	0.1+	2000 03 02	684	0.4+	0.3-	2000 03 11	699	0.2-	0.2+
1998 09 27	704	0.1+	0.3+	2000 03 03	704	0.0	0.3+	2000 03 11	699	0.6-	0.1+
1998 09 27	704	0.5-	0.4-	2000 03 03	691	0.4-	0.1-	2000 03 11	699	0.5-	0.9-
1998 09 27	704	0.1-	0.3+	2000 03 03	704	0.1-	0.2-	2000 03 11	699	0.8+	0.7-
1998 09 27	704	0.5-	1.0+	2000 03 03	684	0.3+	1.0-	2000 03 12	691	0.6-	0.2-
1998 10 16	684	0.6+	0.0	2000 03 03	704	0.0	0.2+	2000 03 12	691	0.7-	0.1-
1998 10 16	684	0.7+	0.0	2000 03 03	684	0.0	1.0-	2000 03 12	691	0.6-	0.2-

2000 MAR. 20

1998 10 17	684	0.4−	0.7−	2000 03 03	691	0.6−	0.1−	2000 03 14	691	0.1+	0.1−
1998 11 10	684	0.1+	0.1+	2000 03 03	704	0.0	0.0	2000 03 14	691	0.1−	0.0
1998 11 11	684	0.2+	0.0	2000 03 03	704	0.2−	0.1+	2000 03 14	691	0.3+	0.0
1998 11 11	684	0.3+	0.4+	2000 03 03	691	0.6−	0.2−				
1998 12 08	704	0.1−	1.0+	2000 03 04	704	0.7−	0.0				

1998 SF₆ = 2000 DW₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	95.16809		(2000.0)	P	Q		
<i>n</i>	0.26323547	ω	240.94258	+0.74263068	−0.66952985		
<i>a</i>	2.4112363	Ω	161.07495	+0.62953554	+0.69019718		
<i>e</i>	0.1355041	<i>i</i>	2.67692	+0.22843965	+0.27451345		
<i>P</i>	3.74	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 20	691	0.1+	0.0	2000 02 08	704	0.4−	0.2+	2000 03 03	704	0.1−	0.2+
1998 09 20	691	0.2−	0.0	2000 02 08	704	0.0	0.0	2000 03 03	704	0.1−	0.7+
1998 09 20	691	0.1+	0.1−	2000 02 08	704	0.5+	0.3+	2000 03 03	704	0.9+	0.2+
1998 09 21	691	0.2+	0.2−	2000 02 29	704	0.4−	0.0	2000 03 05	704	0.2−	0.9+
1998 09 21	691	0.4−	0.1−	2000 02 29	704	0.2+	0.2+	2000 03 05	704	1.3−	0.2−
1998 09 21	691	0.1−	0.1−	2000 02 29	704	1.2−	0.1−	2000 03 05	704	0.5+	0.6−
1998 09 25	691	0.1+	0.2+	2000 02 29	704	0.1+	0.0	2000 03 05	704	1.1+	0.9−
1998 09 25	691	0.0	0.2+	2000 02 29	704	0.0	0.1+	2000 03 05	704	0.5+	0.3−
1998 09 25	691	0.2+	0.0	2000 03 03	704	0.0	0.2+				
2000 02 08	704	0.1+	0.7−	2000 03 03	704	0.3−	0.0				

1998 ST₇ = 1991 VA₁₃ = 2000 AD₁₃₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	38.86687		(2000.0)	P	Q		
<i>n</i>	0.26264263	ω	108.23650	−0.39234540	−0.91981238		
<i>a</i>	2.4148634	Ω	4.86759	+0.82901049	−0.35511864		
<i>e</i>	0.1667723	<i>i</i>	2.16381	+0.39850557	−0.16684104		
<i>P</i>	3.75	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 11 10	033	0.3+	0.4−	2000 02 06	704	0.9−	0.9+	2000 03 03	704	0.1−	0.4−
1991 11 11	033	0.3−	0.3−	2000 02 11	704	0.6+	0.4−	2000 03 11	704	0.3+	0.2+
1998 09 20	691	0.3−	0.7+	2000 02 11	704	0.2−	0.5+	2000 03 11	699	0.1+	0.3+
1998 09 20	691	0.4−	0.8+	2000 02 11	704	0.3−	0.8+	2000 03 11	704	0.4+	0.4+
1998 09 21	691	0.4−	1.0+	2000 02 11	704	0.5−	0.5+	2000 03 11	704	0.4+	0.0
1998 09 21	691	0.4−	0.8+	2000 02 11	704	0.9−	0.3+	2000 03 11	699	0.4+	0.1+
1998 09 21	691	0.5−	0.9+	2000 02 16	703	0.7−	1.1−	2000 03 11	704	0.5+	0.2+
1998 09 23	691	1.0−	1.0+	2000 02 16	703	0.3+	0.9+	2000 03 11	699	0.3+	0.5+
1998 09 23	691	1.1−	1.0+	2000 02 16	703	0.1−	1.2−	2000 03 11	704	0.7+	0.3+
1998 09 30	691	0.0	0.9+	2000 02 16	703	0.3+	0.2+	2000 03 11	699	0.2+	0.5+
1998 09 30	691	0.2+	0.9+	2000 02 26	703	0.4−	0.3+	2000 03 12	704	0.4+	0.0
1998 09 30	691	0.4−	0.7+	2000 02 26	703	0.3+	0.3+	2000 03 12	704	0.3+	0.5+
2000 01 04	704	0.2+	0.3+	2000 02 26	703	0.2−	0.3−	2000 03 12	704	0.6+	0.3+
2000 01 04	704	0.1−	0.4−	2000 02 26	703	0.1+	0.4−	2000 03 12	691	0.3−	0.0
2000 01 04	704	0.1+	0.2−	2000 02 29	704	0.4+	0.5+	2000 03 12	704	0.7+	0.6+
2000 01 08	704	0.0	1.4−	2000 02 29	704	0.0	0.5+	2000 03 12	691	0.3−	0.0
2000 01 08	704	0.6−	0.6−	2000 02 29	704	0.4−	0.8+	2000 03 12	704	0.5+	0.3+
2000 01 08	704	0.3−	0.7−	2000 02 29	704	0.1−	0.7+	2000 03 12	691	0.3−	0.1+
2000 01 08	704	0.4+	0.2−	2000 02 29	704	0.9−	2.0+	2000 03 14	691	0.1+	0.0
2000 02 06	704	0.8+	0.3−	2000 03 03	704	0.2+	0.1−	2000 03 14	691	0.1+	0.1−
2000 02 06	704	0.4+	0.7+	2000 03 03	704	0.1+	0.2−	2000 03 14	691	0.2+	0.0
2000 02 06	704	0.1+	0.4+	2000 03 03	704	0.3+	0.2−				
2000 02 06	704	0.1−	0.4+	2000 03 03	704	0.1+	0.1−				

1998 SH₈ = 1991 PZ₂₃ = 2000 DO₄₉

Id. G. V. Williams, M. E. Sansaturio

M.P.C. 39231

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	162.10805		(2000.0)	P	Q		
<i>n</i>	0.28895647	ω	15.09194	+0.97404902	+0.22631728		
<i>a</i>	2.2659367	Ω	331.82717	−0.20831294	+0.89121828		
<i>e</i>	0.2372590	<i>i</i>	0.36412	−0.08851122	+0.39307818		
<i>P</i>	3.41	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 08 02	809	0.9+	0.5−	1998 09 21	691	0.1−	0.1+	1998 09 27	704	0.0	0.4+
1991 08 02	809	0.6−	0.8+	1998 09 23	691	1.1−	0.1−	1998 09 27	691	0.3−	0.2−
1991 08 02	809	0.3−	0.2−	1998 09 23	691	1.0−	0.3−	1998 09 27	704	0.4+	0.2+
1998 09 14	704	0.4−	0.1+	1998 09 23	691	1.2−	0.3−	1998 09 27	691	0.2−	0.2−
1998 09 14	704	0.3+	0.5−	1998 09 23	120	0.2+	0.1−	1998 10 14	699	0.6+	0.2−
1998 09 14	704	0.3−	0.6−	1998 09 23	120	0.7+	1.3+	1998 10 14	699	0.7+	0.2+
1998 09 15	699	0.5+	0.8+	1998 09 23	120	0.2+	0.3+	1998 10 14	699	0.2+	0.2+
1998 09 15	699	0.4+	0.4+	1998 09 24	120	0.7+	0.2−	1998 12 09	704	0.1+	0.8+
1998 09 15	699	0.0	0.3+	1998 09 24	120	0.7+	0.2+	1998 12 09	704	1.1+	1.4−
1998 09 18	704	1.5+	0.2−	1998 09 24	120	0.4+	0.1−	1998 12 09	704	1.4−	1.0+
1998 09 18	704	0.3+	0.3+	1998 09 26	704	0.1+	0.1+	1998 12 09	704	0.1+	0.5−
1998 09 18	704	0.9+	0.4−	1998 09 26	704	0.3−	0.3−	2000 02 29	704	1.3−	0.4−
1998 09 18	704	0.5−	0.1−	1998 09 26	704	0.2+	0.9−	2000 02 29	704	0.2+	0.7+
1998 09 18	704	0.1−	0.7+	1998 09 26	704	0.4+	0.9−	2000 02 29	704	0.8+	0.0
1998 09 20	691	0.2−	0.3−	1998 09 26	704	0.4−	0.6−	2000 03 03	704	0.3−	0.9+
1998 09 20	691	0.6−	0.3−	1998 09 27	704	0.2+	0.4+	2000 03 03	704	0.0	0.8+
1998 09 20	691	0.1−	0.4−	1998 09 27	704	0.7−	0.5+	2000 03 03	704	0.2−	0.1−
1998 09 21	691	0.7−	0.0	1998 09 27	704	0.1−	1.2+	2000 03 03	704	0.2+	0.9−
1998 09 21	691	1.0−	0.2−	1998 09 27	691	0.4−	0.1−	2000 03 03	704	0.7+	0.6−

1998 SJ₁₀ = 2000 DP₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	87.95099		(2000.0)	P	Q		
<i>n</i>	0.18518796	ω	204.41318	+0.65269679	−0.75757215		
<i>a</i>	3.0483223	Ω	204.84424	+0.69836527	+0.60593361		
<i>e</i>	0.1792191	<i>i</i>	1.15188	+0.29372240	+0.24275274		
<i>P</i>	5.32	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 18	910	0.2−	0.2+	1998 11 11	699	0.5+	1.5+	2000 02 29	704	0.2+	0.2−
1998 09 18	910	0.3−	0.0	1998 11 11	699	1.0+	0.2+	2000 02 29	704	0.2+	0.2−
1998 09 18	910	0.3−	0.2−	1998 11 15	691	0.6−	0.1+	2000 03 03	704	0.2−	0.4−
1998 09 22	910	0.3+	0.7−	1998 11 15	691	0.6−	0.0	2000 03 03	704	0.1−	0.1−
1998 09 22	910	0.4+	0.9−	1998 11 15	691	0.6−	0.1−	2000 03 03	704	1.0−	0.4−
1998 09 22	910	0.4+	0.5−	2000 02 29	704	1.1+	0.2+	2000 03 03	704	0.0	0.1−
1998 11 11	699	0.1+	0.3−	2000 02 29	704	0.6−	0.4−	2000 03 03	704	0.3+	1.0+

1998 SV₁₂ = 2000 CA₃₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	39.94908		(2000.0)	P	Q		
<i>n</i>	0.17943825	ω	300.36446	−0.16236977	−0.96996975		
<i>a</i>	3.1130973	Ω	156.77948	+0.98672124	−0.15883776		
<i>e</i>	0.1972593	<i>i</i>	27.34268	−0.00415406	+0.18419895		
<i>P</i>	5.49	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 23	703	0.0	0.0	2000 02 06	704	0.2−	0.1−	2000 03 03	704	0.0	0.1−
1998 09 23	703	0.5+	0.1+	2000 02 06	704	0.3−	0.2−	2000 03 03	704	0.1−	0.3−
1998 09 23	703	0.0	0.3+	2000 02 06	704	0.4+	0.2+	2000 03 03	704	0.0	0.2+
1998 09 24	703	0.1−	0.0	2000 02 06	704	0.2−	0.2+	2000 03 03	704	0.1−	0.1−
1998 09 24	703	0.5−	0.4−	2000 02 06	704	0.2+	0.1+	2000 03 03	704	0.0	0.2+
1998 09 25	703	1.1+	0.3+	2000 02 12	704	0.4−	0.1−	2000 03 06	704	0.7+	0.3−
1998 09 25	703	1.0−	0.4−	2000 02 12	704	(0.9+	2.6−)	2000 03 06	704	0.0	0.9−
2000 01 06	699	0.3+	0.4−	2000 02 12	704	0.7+	0.4−	2000 03 06	704	0.1+	0.4+
2000 01 06	699	1.4−	0.5+	2000 02 12	704	(2.8+	0.4+)	2000 03 06	704	0.4−	0.1−
2000 01 06	699	0.1+	0.5+	2000 02 13	704	1.1+	0.4+	2000 03 11	704	0.6−	0.1+

2000 02 02	704	0.3+	0.2+	2000 02 13	704	1.3+	0.8+	2000 03 11	704	0.1-	0.3+
2000 02 02	704	0.0	0.2+	2000 02 13	704	0.4+	1.0+	2000 03 11	704	0.3-	0.2+
2000 02 02	704	0.4+	0.2-	2000 02 13	704	1.3+	1.0-	2000 03 11	704	0.1+	0.8+
2000 02 02	704	0.4-	0.3-	2000 02 29	704	0.3-	0.2+	2000 03 11	704	0.3-	0.5+
2000 02 02	704	0.6-	0.5-	2000 02 29	704	0.1+	0.1+	2000 03 11	699	0.3+	0.6-
2000 02 05	704	0.6-	0.2-	2000 02 29	704	0.6-	0.0	2000 03 11	699	0.0	0.5-
2000 02 05	704	0.1-	0.7+	2000 02 29	704	0.0	0.9+	2000 03 11	699	0.1+	0.1-
2000 02 05	704	1.0-	0.4-	2000 02 29	704	0.0	0.7-	2000 03 11	699	0.1-	0.2-

1998 SA₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	322.59266		(2000.0)	P	Q
<i>n</i>	0.22857246	ω	325.83470	-0.18991228	+0.95397110
<i>a</i>	2.6492328	Ω	292.24674	-0.83545150	-0.28119933
<i>e</i>	0.0805467	<i>i</i>	14.52316	-0.51570739	+0.10424047
<i>P</i>	4.31	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1955 12 12	675	0.4-	1.2-	1998 10 21	557	0.2-	0.6+	1999 01 10	691	0.3-	0.3-
1955 12 12	675	0.0	0.7+	1998 11 12	557	0.4-	0.5-	1999 01 10	699	1.2+	0.4-
1993 09 16	675	0.3+	0.2+	1998 11 12	557	1.2-	0.0	1999 01 10	691	0.5-	0.1-
1993 09 16	675	1.4-	0.8-	1998 11 24	557	0.3-	0.1-	1999 01 10	699	0.6+	0.2+
1993 09 24	675	0.6+	0.9+	1998 11 24	557	0.3-	0.4-	1999 01 20	704	0.1-	0.3+
1993 09 24	675	0.5+	0.5+	1998 12 10	557	0.4-	0.0	1999 01 20	704	0.2-	0.4+
1998 09 22	557	0.1+	0.3-	1998 12 10	557	0.4-	0.1+	1999 01 20	704	1.3+	1.6+
1998 09 22	557	0.6+	0.4-	1998 12 13	691	0.4-	0.4-	1999 02 10	557	0.1+	0.0
1998 09 24	557	0.1-	0.4+	1998 12 13	691	0.4-	0.3-	1999 02 10	557	0.2+	0.1-
1998 09 24	557	0.1+	0.3+	1998 12 13	691	0.6-	0.2-	1999 02 11	557	0.3-	0.2+
1998 09 24	557	0.2+	0.4-	1998 12 22	691	1.1+	0.8-	1999 02 11	557	0.4-	0.3+
1998 09 25	557	0.1+	0.1-	1998 12 22	691	0.2-	0.5-	1999 02 11	557	0.2-	0.1-
1998 09 25	557	0.8-	0.3-	1998 12 22	691	0.0	0.2-	1999 02 12	704	0.2-	0.2+
1998 10 20	557	0.4-	0.2-	1999 01 07	557	1.7+	0.9-	1999 02 12	704	0.4-	0.1+
1998 10 20	557	0.4-	0.2+	1999 01 07	557	0.9+	0.6-	1999 02 12	704	0.1-	0.9+
1998 10 20	557	0.0	0.5+	1999 01 10	691	0.3-	0.2-	1999 02 12	704	0.6-	0.4+
1998 10 21	557	0.2-	0.4+	1999 01 10	699	0.9+	0.5+	1999 02 12	704	0.0	0.0

1998 SJ₁₃ = 2000 DL₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	204.43774		(2000.0)	P	Q
<i>n</i>	0.30443452	ω	190.62039	+0.55883594	+0.82625865
<i>a</i>	2.1884676	Ω	113.38968	-0.75508897	+0.54223682
<i>e</i>	0.1521298	<i>i</i>	4.41810	-0.34284550	+0.15256433
<i>P</i>	3.24	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	0.3-	0.3+	1998 09 26	704	0.1-	0.4-	2000 02 03	704	0.8+	0.4+
1998 09 14	704	0.7-	0.2-	1998 09 26	704	0.5-	0.2-	2000 02 03	704	0.3+	0.2+
1998 09 14	704	1.7-	0.2+	1998 09 27	704	0.1-	0.5-	2000 02 03	704	1.5+	0.0
1998 09 17	699	0.1+	0.4+	1998 09 27	704	0.0	0.1-	2000 02 03	704	0.2+	0.2+
1998 09 17	699	0.2-	0.4+	1998 09 27	704	0.2-	0.1-	2000 02 11	704	1.2-	0.2+
1998 09 17	699	0.3-	0.2+	1998 09 27	704	0.4-	0.2+	2000 02 11	704	1.4-	0.5-
1998 09 18	704	0.2-	0.3+	1998 09 27	704	0.3-	0.2+	2000 02 11	704	0.1+	0.2+
1998 09 18	704	0.9-	0.6+	1998 10 17	699	0.2+	0.6+	2000 02 11	704	0.1+	0.4+
1998 09 18	704	0.9-	0.0	1998 10 17	699	0.5+	0.1+	2000 02 11	704	0.6+	0.0
1998 09 18	704	0.0	0.1-	1998 10 17	699	1.1+	0.2-	2000 02 28	704	1.0-	0.8+
1998 09 18	704	0.9+	1.1-	1998 10 28	704	(2.5+	0.7+)	2000 02 28	704	0.2-	0.0
1998 09 21	910	0.7+	0.6+	1998 10 28	704	0.0	1.2-	2000 02 28	704	0.2+	0.0
1998 09 21	910	0.8+	0.6+	1998 10 28	704	0.4-	0.7-	2000 02 28	704	0.2-	0.5-
1998 09 21	910	0.8+	0.5+	1998 10 28	704	0.3-	0.7-	2000 02 28	704	0.2+	0.3+
1998 09 23	910	0.8+	0.2+	1998 10 29	704	0.2-	0.2-	2000 03 04	704	0.0	0.9+
1998 09 23	910	0.5+	0.5+	1998 10 29	704	1.0-	0.7+	2000 03 04	704	0.6+	0.2-
1998 09 23	910	0.6+	0.3+	1998 10 29	704	1.8+	0.5+	2000 03 04	704	0.7-	0.5-
1998 09 26	704	0.2-	0.1-	1998 10 29	704	0.6+	0.3+	2000 03 04	704	0.3-	0.3-
1998 09 26	704	0.5-	0.7-	1998 10 29	704	0.6-	0.0				
1998 09 26	704	0.3+	1.1-	2000 02 03	704	0.4+	0.9-				

1998 SN₁₃ = 2000 CJ₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	120.12852		(2000.0)	P	Q
<i>n</i>	0.29367526	ω	296.41245	+0.71220485	-0.69732814
<i>a</i>	2.2415984	Ω	107.92234	+0.67045480	+0.64170699
<i>e</i>	0.0951040	<i>i</i>	4.85989	+0.20797743	+0.31928922
<i>P</i>	3.36	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	0.1-	0.6-	1998 09 23	910	0.9+	0.5+	2000 02 29	704	0.6+	0.6+
1998 09 14	704	0.8-	1.5-	1998 10 17	699	0.1-	0.8-	2000 02 29	704	0.6-	0.0
1998 09 14	704	1.4-	1.2-	1998 10 17	699	0.5-	0.2-	2000 02 29	704	1.0+	0.7+
1998 09 18	704	0.2-	0.3-	1998 10 17	699	0.7-	0.1-	2000 03 12	703	0.2-	0.1-
1998 09 18	704	1.3-	0.0	2000 02 06	704	0.9+	0.2-	2000 03 12	703	0.6-	0.0
1998 09 18	704	0.1+	1.1+	2000 02 06	704	0.1-	1.4-	2000 03 12	703	0.2+	0.3+
1998 09 18	704	0.9+	0.0	2000 02 06	704	1.4-	0.5+	2000 03 12	703	0.4-	0.1+
1998 09 18	704	1.4-	0.3+	2000 02 06	704	0.2+	0.4-	2000 03 12	704	0.1+	0.4+
1998 09 21	910	0.8+	0.6+	2000 02 11	704	1.0+	0.2+	2000 03 12	704	0.2+	0.3+
1998 09 21	910	0.9+	0.8+	2000 02 11	704	0.0	0.5+	2000 03 12	704	0.4-	0.2-
1998 09 21	910	0.9+	0.6+	2000 02 11	704	0.4+	0.2-	2000 03 12	704	1.0-	0.5-
1998 09 23	910	0.9+	0.4+	2000 02 11	704	1.2+	0.2-				
1998 09 23	910	0.8+	0.5+	2000 02 11	704	0.7-	0.2-				

1998 SG₁₅ = 2000 DX₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	34.49428		(2000.0)	P	Q
<i>n</i>	0.26521400	ω	175.00991	-0.52358445	-0.85161825
<i>a</i>	2.3992293	Ω	306.56088	+0.78060671	-0.46795213
<i>e</i>	0.1342786	<i>i</i>	1.75579	+0.34133926	-0.23615070
<i>P</i>	3.72	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1994 08 10	809	0.1-	1.2+	2000 02 08	704	0.5-	0.6+	2000 03 05	704	0.1-	0.2+
1994 08 10	809	0.8-	1.0+	2000 02 08	704	0.3+	0.2+	2000 03 05	704	0.3+	0.2+
1994 08 10	809	0.4-	0.7+	2000 02 27	703	0.4+	0.7+	2000 03 05	704	0.1-	0.5-
1998 09 22	113	1.0-	0.6+	2000 02 27	703	0.0	0.3+	2000 03 05	704	0.3-	0.1-
1998 09 22	113	0.4+	0.7-	2000 02 27	703	0.2-	0.4+	2000 03 05	704	0.1+	0.8+
1998 09 24	113	0.5-	0.3+	2000 02 27	703	0.5+	0.0	2000 03 11	704	0.1+	0.5-
1998 09 24	113	0.9-	0.6-	2000 02 29	704	1.0-	0.6-	2000 03 11	699	0.4-	0.5-
1998 09 29	113	0.2-	0.1+	2000 02 29	704	0.9+	0.3+	2000 03 11	704	0.0	0.0
1998 09 29	113	0.0	0.4-	2000 02 29	704	0.2+	0.8-	2000 03 11	704	0.0	0.2-
1998 10 20	113	1.1+	0.0	2000 02 29	704	0.8+	0.3+	2000 03 11	699	0.8-	0.2-
1998 10 20	113	0.6+	1.0+	2000 03 03	704	0.1+	0.1-	2000 03 11	704	0.1-	0.6-
1998 10 20	113	0.4+	0.2+	2000 03 03	704	0.4+	0.4+	2000 03 11	699	0.5-	0.5-
2000 02 08	704	0.3+	1.7+	2000 03 03	704	0.2+	0.4+	2000 03 11	704	0.1+	0.6-
2000 02 08	704	0.1+	0.8+	2000 03 03	704	0.0	0.2+	2000 03 11	699	0.4-	0.3-
2000 02 08	704	0.4+	0.6+	2000 03 03	704	0.5+	0.7+				

1998 SQ₁₅ = 2000 DK₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	74.64907		(2000.0)	P	Q
<i>n</i>	0.24374949	ω	206.85097	+0.40911626	-0.91239800
<i>a</i>	2.5380894	Ω	219.00316	+0.84068627	+0.38217521
<i>e</i>	0.1747955	<i>i</i>	1.12899	+0.35478230	+0.14653327
<i>P</i>	4.04	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 16	691	0.0	0.3-	2000 02 29	704	0.2+	0.1-	2000 03 04	704	0.1+	0.1+
1998 09 16	691	0.0	0.2-	2000 02 29	704	0.0	0.3+	2000 03 04	704	0.6-	0.7-
1998 09 16	691	0.0	0.2-	2000 02 29	704	0.3+	0.9-	2000 03 04	704	0.7-	0.5-
1998 09 23	691	0.5-	0.3+	2000 02 29	704	0.1-	0.5-	2000 03 04	704	0.3-	0.1-
1998 09 23	691	0.1-	0.1+	2000 03 03	704	0.4-	0.1+	2000 03 04	704	0.2+	0.5-
1998 09 23	691	0.9+	0.1-	2000 03 03	704	0.0	0.3+	2000 03 11	704	0.1-	0.6+
1998 09 27	691	0.3-	0.2+	2000 03 03	704	0.2+	0.2-	2000 03 11	704	0.9+	1.1+

2000 MAR. 20

M.P.C. 39233

1998 09 27 691 0.1+ 0.3+ 2000 03 03 704 0.2+ 0.8+ 2000 03 11 704 0.3+ 0.4+
 1998 09 27 691 0.2- 0.1+ 2000 03 03 704 0.2- 0.1-

1998 SS₁₅ = 2000 CW₆₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	154.21243		(2000.0)	P		Q	
<i>n</i>	0.27452032	ω	36.81375	+0.95360515		+0.30078387	
<i>a</i>	2.3446951	Ω	305.67664	-0.27986299		+0.86986280	
<i>e</i>	0.0977013	<i>i</i>	0.90954	-0.11096809		+0.39098309	
<i>P</i>	3.59	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 09 14	704	0.7+	0.8-	1998 09 18	704	(0.3+ 2.7+)	2000 02 01	691	0.0	0.1-
1998 09 14	704	0.1+	0.3+	1998 09 18	704	(0.1- 2.6+)	2000 02 01	691	0.2-	0.3-
1998 09 14	704	1.7+	1.2-	1998 09 23	691	0.4-	2000 02 05	695	0.3+	0.2+
1998 09 14	704	1.7-	1.6+	1998 09 23	691	0.2-	2000 02 05	695	0.2-	0.4+
1998 09 16	691	0.2-	0.4-	1998 09 23	691	0.8+	2000 02 07	691	0.0	0.1-
1998 09 16	691	0.0	0.1-	1998 09 27	691	0.3-	2000 02 07	691	0.0	0.1-
1998 09 16	691	0.1-	0.2-	1998 09 27	691	0.1-	2000 02 07	691	0.0	0.1-
1998 09 18	704	0.2-	1.0-	1998 09 27	691	0.2-	2000 02 07	691	0.0	0.1-
1998 09 18	704	(0.2- 2.8+)		2000 02 01	691	0.0	0.0			

1998 SM₁₇ = 2000 DT₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	105.68847		(2000.0)	P		Q	
<i>n</i>	0.23845248	ω	231.52518	+0.81140254		-0.58403551	
<i>a</i>	2.5755391	Ω	164.16711	+0.55906963		+0.76404360	
<i>e</i>	0.1871499	<i>i</i>	4.83328	+0.17049066		+0.27411659	
<i>P</i>	4.13	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 17	699	0.5+	0.6+	1998 09 27	704	0.1-	0.0	2000 03 04	858	0.9-	0.2-
1998 09 17	699	1.2-	0.2+	1998 09 27	704	0.2-	0.2+	2000 03 04	474	0.1+	0.1-
1998 09 17	699	0.0	0.2+	1998 10 17	699	1.3+	0.2+	2000 03 04	474	0.1-	0.3-
1998 09 17	691	0.5+	0.4-	1998 10 17	699	0.1+	0.0	2000 03 04	474	0.1-	0.3-
1998 09 17	691	0.8+	0.5-	1998 10 17	699	0.9-	0.6-	2000 03 05	704	0.5-	0.8+
1998 09 17	691	0.6+	0.4-	1998 10 19	699	0.2-	1.0-	2000 03 05	704	0.2-	0.6-
1998 09 24	691	0.6-	0.8-	1998 10 19	699	0.5-	0.6+	2000 03 05	704	0.6-	0.6-
1998 09 24	691	0.3+	0.5-	1998 10 19	699	0.7+	0.0	2000 03 05	858	0.1+	0.2-
1998 09 24	691	0.5-	0.4-	2000 02 29	704	0.6+	0.5+	2000 03 05	858	0.7-	0.3+
1998 09 25	699	0.5+	0.6+	2000 02 29	704	0.2+	0.2-	2000 03 05	858	0.6-	0.3+
1998 09 25	699	0.5-	0.7+	2000 02 29	704	0.3+	0.5-	2000 03 05	474	0.1+	0.1-
1998 09 25	699	0.1+	0.6+	2000 02 29	704	0.3+	0.3-	2000 03 05	474	0.2-	0.4-
1998 09 26	704	0.4-	0.1-	2000 03 03	704	0.1-	0.4+	2000 03 05	474	0.3-	0.7-
1998 09 26	704	0.2-	0.9-	2000 03 03	704	0.0	0.1+	2000 03 09	704	0.6+	0.5+
1998 09 26	704	1.0+	1.2+	2000 03 03	704	0.4+	0.4+	2000 03 09	704	1.4+	0.7-
1998 09 26	704	0.3-	0.3-	2000 03 03	704	0.1-	0.6+	2000 03 09	704	0.2-	0.2+
1998 09 26	704	0.1+	0.7+	2000 03 03	704	0.6+	0.7+	2000 03 09	704	1.2+	0.1+
1998 09 27	704	0.4-	0.5-	2000 03 04	858	0.9-	0.5+				
1998 09 27	704	0.5-	0.7+	2000 03 04	858	0.2-	0.0				

1998 SR₂₁ = 1998 UD₃₇ = 2000 EZ₉₁

Id. A. Doppler (d, MPC 34061), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	67.27490		(2000.0)	P		Q	
<i>n</i>	0.26861085	ω	247.01583	-0.17842768		-0.98214853	
<i>a</i>	2.3789593	Ω	213.43550	+0.93771642		-0.15139287	
<i>e</i>	0.0631361	<i>i</i>	6.20588	+0.29807965		-0.11164434	
<i>P</i>	3.67	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 21	691	0.1-	0.3+	1998 10 28	704	0.5-	0.6-	1998 11 14	699	0.0	0.1+
1998 09 21	691	0.2+	0.4+	1998 10 28	704	0.1-	0.2+	2000 03 09	704	0.1+	0.4+
1998 09 21	691	0.1+	0.0	1998 10 29	704	0.3+	0.7-	2000 03 09	704	0.4+	0.7+

1998 09 24	691	0.4-	0.4+	1998 10 29	704	0.4-	0.4+	2000 03 09	704	0.5+	0.4+
1998 09 24	691	0.8-	0.1+	1998 10 29	704	0.4-	0.6-	2000 03 09	704	0.4-	0.6+
1998 09 27	691	0.3+	0.0	1998 10 29	704	1.4-	0.0	2000 03 09	704	0.1+	0.3+
1998 09 27	691	0.3+	0.2-	1998 10 29	704	0.7-	0.4+	2000 03 13	704	0.6-	1.4-
1998 09 27	691	0.4+	0.1-	1998 11 10	704	(2.3- 1.4-)		2000 03 13	704	1.0+	0.1+
1998 10 10	699	0.2+	0.6-	1998 11 10	704	0.1-	0.2+	2000 03 13	704	0.3-	0.5-
1998 10 10	699	0.2-	0.4+	1998 11 10	704	0.8+	0.5+	2000 03 13	704	0.1+	0.7-
1998 10 10	699	0.3+	0.2-	1998 11 10	704	0.1+	0.2+	2000 03 13	704	0.9-	0.1-
1998 10 28	704	0.8+	0.6-	1998 11 14	699	0.4-	0.9+				
1998 10 28	704	1.1+	1.3-	1998 11 14	699	0.6+	0.5+				

1998 SA₂₂ = 2000 ET₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	44.60911		(2000.0)	P		Q	
<i>n</i>	0.28739563	ω	116.79265	-0.58819786		-0.80846967	
<i>a</i>	2.2741334	Ω	9.31508	+0.69117179		-0.51539211	
<i>e</i>	0.0671068	<i>i</i>	7.09832	+0.41988670		-0.28416151	
<i>P</i>	3.43	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 23	120	0.5-	1.1-	1998 10 11	699	0.4-	0.0	2000 03 08	704	0.8+	1.0+
1998 09 23	120	1.3+	1.0+	1998 10 11	699	1.0+	0.4+	2000 03 08	704	0.3+	0.8+
1998 09 23	120	0.6+	0.6+	1998 10 11	120	0.4-	0.9-	2000 03 08	704	0.4+	0.7+
1998 09 24	120	0.2+	0.7+	1998 10 11	120	0.3-	0.2+	2000 03 10	704	1.1+	0.2-
1998 09 24	120	0.2-	0.9+	1998 10 11	120	(0.8- 2.2-)		2000 03 10	704	0.6-	0.6+
1998 09 24	120	0.1+	0.2+	1998 10 19	327	0.0	0.3-	2000 03 10	704	0.1+	0.6+
1998 09 26	704	1.0+	0.8+	1998 10 19	327	0.2+	0.1-	2000 03 10	704	0.0	0.1-
1998 09 26	704	0.3-	1.3-	1998 10 19	327	0.2-	0.1+	2000 03 10	704	0.0	0.2+
1998 09 26	704	0.3-	0.3-	1998 10 24	120	(2.3+ 0.8+)		2000 03 11	704	0.5+	0.0
1998 09 26	704	0.1+	1.0-	1998 10 24	120	0.2-	0.2-	2000 03 11	704	0.3+	0.1+
1998 09 26	704	0.0	1.6-	2000 03 02	691	0.3-	0.6-	2000 03 11	704	0.3+	0.2+
1998 09 27	704	0.6-	0.9+	2000 03 02	691	0.2-	0.6-	2000 03 11	704	0.1+	0.1+
1998 09 27	704	0.0	0.5+	2000 03 02	691	0.2-	0.8-	2000 03 11	704	0.3-	0.0
1998 09 27	704	0.3+	0.2-	2000 03 03	691	0.3-	0.7-	2000 03 14	703	0.2-	0.7-
1998 09 27	704	1.7-	0.4+	2000 03 03	691	0.3-	0.5-	2000 03 14	703	0.2-	0.0
1998 09 27	704	0.5-	0.0	2000 03 03	691	0.5-	0.7-	2000 03 14	703	0.3-	0.5-
1998 10 11	699	0.6+	0.8+	2000 03 08	704	0.4-	0.9+	2000 03 14	703	0.0	0.6+

1998 SS₂₂ = 2000 EY₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	127.57492		(2000.0)	P		Q	
<i>n</i>	0.26145824	ω	20.49430	+0.94335287		-0.33178300	
<i>a</i>	2.4221507	Ω	358.87487	+0.28552992		+0.81537268	
<i>e</i>	0.1286392	<i>i</i>	6.80234	+0.16899123		+0.47443381	
<i>P</i>	3.77	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 14	704	0.3-	0.5+	1998 09 27	704	0.9-	0.5+	2000 02 06	695	0.5+	0.2-
1998 09 14	704	0.4+	0.1+	1998 09 27	704	0.4-	0.5+	2000 02 06	695	0.1-	0.2-
1998 09 14	704	0.8+	0.5-	1998 09 27	704	0.5-	0.1+	2000 02 25	703	0.6-	0.9-
1998 09 15	699	1.9+	0.6+	1998 09 27	704	0.2-	0.6-	2000 02 25	703	1.0+	0.8+
1998 09 15	699	0.1+	0.3+	1998 10 02	120	(2.2+ 0.2+)		2000 02 25	703	0.2+	0.2-
1998 09 15	699	0.5+	1.2+	1998 10 02	120	0.4-	0.7+	2000 02 25	703	(4.2- 5.9-)	
1998 09 15	699	0.2+	0.0	1998 10 02	120	0.4+	0.6+	2000 03 05	704	0.1-	0.1-
1998 09 15	699	0.2+	1.1+	1998 10 11	120	0.8-	0.3+	2000 03 05	704	0.6-	0.4-
1998 09 15	699	0.1+	1.7+	1998 10 11	120	1.8+	0.9-	2000 03 05	704	0.4+	0.1+
1998 09 18	704	0.2+	0.5-	1998 10 11	120	0.3-	0.1-	2000 03 05	704	0.3-	0.4+
1998 09 18	704	0.4-	0.1+	1998 10 13	120	0.6+	0.6-	2000 03 05	704	0.2-	0.2-
1998 09 18	704	1.4-	0.6-	1998 10 13	120	0.4-	0.3-	2000 03 08	704	0.5+	0.1+
1998 09 18	704	1.2-	0.1+	1998 10 14	699	(1.1- 2.8-)		2000 03 08	704	0.1-	1.2+
1998 09 18	704	0.6-	0.9-	1998 10 14	699	0.2-	0.9-	2000 03 08	704	0.4-	0.3+
1998 09 2											

M.P.C. 39234

2000 MAR. 20

1998 09 24	120	0.5+	0.9−	1998 10 28	704	0.5−	1.7−	2000 03 12	704	0.2+	0.4+
1998 09 26	704	0.2+	0.1+	1998 10 28	704	0.1+	0.8−	2000 03 12	704	0.2+	0.5+
1998 09 26	704	1.0−	0.4−	1998 10 28	704	0.4+	0.4−	2000 03 12	704	0.3−	0.1−
1998 09 26	704	1.3−	1.3−	1998 10 29	704	1.5+	1.1+	2000 03 12	704	0.7+	0.1+
1998 09 26	704	0.5−	0.7−	1998 10 29	704	0.3−	0.9+	2000 03 12	704	0.4+	0.6+
1998 09 26	704	0.4−	0.1−	1998 10 29	704	0.1−	1.0+				
1998 09 27	704	0.3−	0.3+	1998 10 29	704	0.0	0.9+				

1998 SD₂₅ = 2000 DW₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	200.48234		(2000.0)	P	Q
<i>n</i>	0.29494207	ω	274.17401	+0.59371387	+0.80256747
<i>a</i>	2.2351752	Ω	32.47213	−0.68855924	+0.54414698
<i>e</i>	0.1748848	<i>i</i>	6.22512	−0.41640126	+0.24451898
<i>P</i>	3.34	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 19	699	0.0	0.1−	1998 09 27	704	1.6−	0.2+	1998 10 29	704	0.0	0.8+
1998 09 19	699	0.3+	0.0	1998 10 10	699	0.3+	0.5+	1998 10 29	704	0.6−	0.1+
1998 09 19	699	0.6+	0.4−	1998 10 10	699	0.5+	0.4+	1998 10 29	704	0.4+	0.5−
1998 09 24	699	0.2−	0.7+	1998 10 10	699	0.2+	0.1−	2000 02 28	704	1.4−	0.9−
1998 09 24	699	0.6+	0.3+	1998 10 19	699	0.1+	0.3+	2000 02 28	704	0.5+	0.2−
1998 09 24	699	0.5+	0.9+	1998 10 19	699	0.0	0.5+	2000 02 28	704	0.3−	0.5+
1998 09 26	704	0.1−	0.1−	1998 10 19	699	0.3+	0.5+	2000 02 28	704	0.1+	0.2+
1998 09 26	704	0.6+	1.4−	1998 10 28	704	0.4+	0.5−	2000 02 28	704	0.2−	0.5+
1998 09 26	704	0.3+	1.8−	1998 10 28	704	0.4−	0.6−	2000 03 06	704	0.3+	0.7+
1998 09 26	704	0.3+	0.1+	1998 10 28	704	0.3−	0.6−	2000 03 06	704	0.5−	0.8−
1998 09 27	704	0.3−	0.5−	1998 10 28	704	0.5−	0.4+	2000 03 06	704	0.1−	0.2−
1998 09 27	704	0.8−	0.5+	1998 10 28	704	0.2−	1.2+	2000 03 06	704	0.7+	0.3−
1998 09 27	704	0.5−	0.0	1998 10 29	704	0.7+	0.8−	2000 03 06	704	0.9+	0.5+
1998 09 27	704	0.3−	0.6+	1998 10 29	704	0.2−	0.7−				

1998 SJ₂₅ = 2000 EK₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	65.90947		(2000.0)	P	Q
<i>n</i>	0.29200489	ω	4.75570	−0.40906626	−0.90773698
<i>a</i>	2.2501388	Ω	109.41451	+0.83391553	−0.41333043
<i>e</i>	0.0958095	<i>i</i>	5.66859	+0.37047226	−0.07191337
<i>P</i>	3.38	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 22	699	0.3−	0.6+	1998 10 28	704	0.4+	0.0	1998 11 11	704	(1.5−	2.6−)
1998 09 22	699	0.6−	0.2−	1998 10 28	704	0.2+	0.4−	2000 03 08	704	0.7+	0.1−
1998 09 22	699	1.1+	0.1−	1998 10 28	704	0.1−	0.2+	2000 03 08	704	0.1−	0.6+
1998 09 24	699	0.9+	1.4−	1998 10 28	704	1.3−	0.4+	2000 03 08	704	0.7+	1.1−
1998 09 24	699	0.1+	0.2−	1998 10 29	704	1.5−	0.3−	2000 03 08	704	1.1+	0.2+
1998 09 24	699	0.2+	0.5−	1998 10 29	704	0.1+	0.1+	2000 03 08	704	0.3−	0.5+
1998 10 17	699	0.7+	0.8+	1998 10 29	704	0.4−	0.0	2000 03 10	691	0.4−	0.1−
1998 10 17	699	0.0	0.3+	1998 10 29	704	0.5+	1.4−	2000 03 10	691	0.4−	0.1−
1998 10 17	699	0.3−	0.8+	1998 10 29	704	1.5−	1.0−	2000 03 10	691	0.6−	0.2−
1998 10 20	699	0.6−	1.5+	1998 11 11	704	0.6+	0.7+	2000 03 11	691	0.1−	0.1−
1998 10 20	699	0.4+	0.6+	1998 11 11	704	1.5+	0.5−	2000 03 11	691	0.2−	0.2+
1998 10 20	699	1.2−	1.0+	1998 11 11	704	1.4+	1.0−	2000 03 11	691	0.2−	0.2+

1998 SS₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	117.05381		(2000.0)	P	Q
<i>n</i>	0.27773342	ω	347.64768	+0.61975308	−0.77873655
<i>a</i>	2.3265763	Ω	63.97158	+0.72894118	+0.52524234
<i>e</i>	0.1615559	<i>i</i>	6.21902	+0.29077633	+0.34305957
<i>P</i>	3.55	<i>H</i>	15.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1991 10 14	675	0.3−	0.3+	1998 09 27	704	0.0	0.3−	1998 10 29	704	0.3−	0.2−
1991 10 14	675	0.9+	0.2−	1998 09 27	704	0.3+	0.1+	1998 11 10	704	1.6+	1.4−

1991 10 16	675	0.9−	0.5+	1998 09 27	704	0.8−	0.7+	1998 11 10	704	0.3−	1.2−
1991 10 16	675	0.0	0.4+	1998 09 27	704	0.4−	0.6+	1998 11 10	704	0.6−	0.1−
1995 11 30	675	1.6−	0.2−	1998 09 27	704	1.2−	0.6−	1998 11 10	704	0.6+	0.5−
1995 11 30	675	0.8+	0.8−	1998 10 17	699	1.0+	0.9−	1998 11 10	704	0.7+	0.7+
1996 04 08	675	0.4+	1.5+	1998 10 17	699	0.7+	0.9+	1998 11 11	704	1.6−	0.2−
1996 04 08	675	0.1+	0.8−	1998 10 17	699	0.6+	0.0	1998 11 11	704	1.0−	0.6+
1998 09 22	699	0.3−	0.8+	1998 10 20	699	0.7+	0.3+	1998 11 11	704	0.1−	0.2−
1998 09 22	699	0.1+	0.5−	1998 10 20	699	0.4+	0.2+	1998 11 11	704	0.4−	0.0
1998 09 22	699	0.2+	0.6−	1998 10 20	699	0.7+	0.3+	1998 11 11	704	0.4−	0.0
1998 09 24	699	0.6−	0.4+	1998 10 28	704	1.0+	0.4−	1998 11 14	699	1.1+	1.4+
1998 09 24	699	0.9−	0.5+	1998 10 28	704	0.9+	0.9−	1998 11 14	699	0.8+	0.0
1998 09 24	699	0.7−	0.3+	1998 10 28	704	1.0+	0.6−	1998 11 14	699	0.9−	0.3−
1998 09 26	704	0.1−	0.7−	1998 10 28	704	0.4−	0.3−	1999 01 15	691	0.5−	0.1+
1998 09 26	704	0.5+	0.0	1998 10 29	704	0.6+	0.5+	1999 01 15	691	0.3−	0.1+
1998 09 26	704	0.1−	0.1−	1998 10 29	704	0.0	0.6+	1999 01 15	691	0.0	0.2+
1998 09 26	704	1.1−	0.5−	1998 10 29	704	0.5−	0.8+	1999 01 19	691	0.0	0.5+
1998 09 26	704	0.1−	0.7−	1998 10 29	704	0.6−	0.2+	1999 01 19	691	0.0	0.4+

1998 SU₂₅ = 1993 HV₈

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	156.67022		(2000.0)	P	Q
<i>n</i>	0.25737856	ω	280.33983	+0.91655701	+0.39215507
<i>a</i>	2.4476791	Ω	56.61268	−0.32028112	+0.83715063
<i>e</i>	0.2128546	<i>i</i>	5.38384	−0.23946452	+0.38130463
<i>P</i>	3.83	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1993 04 16	413	0.5−	0.7−	1998 09 27	704	0.5−	1.0−	1998 10 29	704	0.0	0.4−
1995 12 21	675	0.6−	0.2+	1998 09 27	704	0.0	1.4−	1998 10 29	704	0.5−	1.1+
1995 12 21	675	1.0+	0.5+	1998 09 29	704	0.2−	0.4+	1998 10 29	704	1.0−	0.3+
1996 02 14	675	(6.2+	0.3−)	1998 09 29	704	0.3−	0.3+	1998 10 29	704	0.2+	0.1−
1996 02 14	675	(7.7+	0.0)	1998 09 29	704	0.4−	0.1−	1998 11 10	704	1.0−	0.2−
1998 09 22	699	0.0	0.7+	1998 09 29	704	0.1+	0.4−	1998 11 10	704	0.0	0.1+
1998 09 22	699	0.3−	0.5+	1998 09 29	704	0.1−	0.6−	1998 11 10	704	0.2−	0.7+
1998 09 22	699	0.4+	0.5−	1998 10 17	699	0.1+	0.4−	1998 11 10	704	0.1−	0.2−
1998 09 24	699	0.5+	0.1+	1998 10 17	699	0.2+	0.1−	1998 11 11	699	0.1−	1.4+
1998 09 24	699	0.2+	0.6+	1998 10 17	699	0.1−	0.5−	1998 11 11	699	0.6+	0.4+
1998 09 24	699	0.0	0.5+	1998 10 19	699	0.5+	0.3−	1998 11 11	699	1.5+	0.5+
1998 09 26	704	0.0	0.2+	1998 10 19	699	0.1−	0.0	1998 11 25	699	0.4−	0.1−
1998 09 26	704	0.5+	0.6−	1998 10 19	699	0.1−	0.3−	1998 11 25	699	0.2+	0.7−
1998 09 26	704	0.3+	0.1−	1998 10 28	704	0.2+	0.3−	1998 11 25	699	0.3−	1.2−
1998 09 26	704	0.2+	0.1−	1998 10 28	704	0.9+	0.1−	1999 01 15	691	0.5−	0.1+
1998 09 26	704	0.0	0.9+	1998 10 28	704	0.7+	0.4−	1999 01 15	691	0.5−	0.2−
1998 09 27	704	0.3−	0.3+	1998 10 28	704	0.4−	1.1+	1999 01 15	691	0.5−	0.4−
1998 09 27	704	0.5−	0.1+	1998 10 28	704	0.3−	0.3+	1999 01 17	691	0.9+	0.8−
1998 09 27	704	0.1+	0.0	1998 10 29	704	0.2−	0.1−	1999 01 17	691	0.9+	0.6−

1998 SZ₂₅ = 2000 EU₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	16.73777		(2000.0)	P	Q
<i>n</i>	0.28744664	ω	350.60957	−0.89059310	−0.45370675
<i>a</i>	2.2738644	Ω	162.30462	+0.42371503	−0.85291451
<i>e</i>	0.0970826	<i>i</i>	5.95406	+0.16525587	−0.25823830
<i>P</i>	3.43	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 22	699	0.2−	0.9+	1999 12 09	703	0.0	0.3+	2000 03 08	704	0.4+	0.8+
1998 09 22	699	0.7+	0.2+	1999 12 09	703	(0.9+	2.5+)	2000 03 08	704	0.0	0.2−
1998 09 22	699	1.0+	1.5+	1999 12 09	703	1.1+	0.4−	2000 03 08	704	0.3−	0.8+
1998 09 24	699	1.4−	1.1+	1999 12 09	703	0.4−	0.5+	2000 03 10	704	0.1−	0.2+
1998 09 24	699	0.3+	0.4+	2000 01 05	704	0.1−	0.4+	2000 03 10	704	0.0	0.4+
1998 09 24	699	0.0	1.5+	2000 01 05	704	0.5−	0.4−	2000 03 10	704	0.2+	0.6+
1998 09 25	691	0.7−	0.4−	2000 01 05	704	0.3+	1.3−	2000 03 10	704	0.3+	0.5+
1998 09 25	691	0.5−	0.0	2000 01 05	704	0.9−	1.4−	2000 03 10	704	0.2+	0.2+
1998 09 25	691	0.6−	0.1+	2000 02 08	704	0.1+	0.3−	2000 03 11	704	0.3+	0.1−

2000 MAR. 20

M.P.C. 39235

1998 09 26	704	0.5+	0.5+	2000 02 08	704	0.5−	1.0−	2000 03 11	704	0.2+	0.2+
1998 09 26	704	0.6−	0.5−	2000 02 08	704	0.8+	0.2−	2000 03 11	704	0.2+	0.0
1998 09 26	704	1.1+	0.4−	2000 02 08	704	1.2+	0.4−	2000 03 11	704	0.2+	0.1+
1998 09 26	704	0.1+	1.3−	2000 02 27	703	0.2−	0.3−	2000 03 11	704	0.1+	0.1−
1998 09 27	704	0.2−	0.2+	2000 02 27	703	0.1−	0.0	2000 03 14	703	0.2+	0.2+
1998 09 27	704	0.0	0.2−	2000 02 27	703	0.2+	0.1+	2000 03 14	703	0.3−	0.6+
1998 09 27	704	0.3+	1.0−	2000 02 27	703	0.1+	0.1−	2000 03 14	703	0.1+	0.2+
1998 09 27	704	1.1−	1.0+	2000 03 08	704	0.7−	1.2+	2000 03 14	703	0.2−	0.1+
1998 09 27	704	0.4+	0.0	2000 03 08	704	0.5−	0.6+				

1998 SA₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	74.40679		(2000.0)	P	Q
<i>n</i>	0.28165662	ω	43.55543	−0.17127479	−0.98195424
<i>a</i>	2.3049211	Ω	56.46149	+0.87550579	−0.18902481
<i>e</i>	0.1414738	<i>i</i>	5.52096	+0.45183466	−0.00595726
<i>P</i>	3.50	<i>H</i>	15.1	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1990 07 21	413	0.3+	0.1−	1998 09 26	704	0.0	0.4−	1998 10 28	704	0.8+	0.6−
1990 07 21	413	0.1+	0.5−	1998 09 26	704	0.6+	0.6−	1998 10 28	704	1.1+	0.0
1991 09 11	675	1.5−	0.5−	1998 09 26	704	0.2−	0.3−	1998 10 28	704	0.0	0.7+
1991 09 11	675	0.6−	0.2−	1998 09 27	704	0.6−	1.1−	1998 10 29	704	1.3+	0.5+
1991 10 01	413	0.7−	0.4−	1998 09 27	704	0.6+	0.3−	1998 10 29	704	0.6−	1.5−
1991 10 01	413	0.3+	0.6−	1998 09 27	704	0.3+	0.7+	1998 10 29	704	1.1−	0.2+
1993 03 29	413	0.5−	1.7−	1998 09 27	704	0.8+	0.5+	1998 10 29	704	(0.2−	2.1+)
1993 03 29	413	1.9+	1.5−	1998 09 27	704	0.1+	0.9+	1998 10 29	704	0.1+	0.7−
1998 09 22	699	0.5−	0.1−	1998 10 17	699	0.3−	0.9−	1999 01 05	910	(4.1+	1.1+)
1998 09 22	699	1.2−	0.5−	1998 10 17	699	0.2−	0.2−	1999 01 05	910	(4.2+	1.3+)
1998 09 22	699	0.8−	0.6+	1998 10 17	699	1.2+	0.1−	1999 01 05	910	(4.0+	1.4+)
1998 09 24	699	0.4−	0.3+	1998 10 19	699	1.2+	0.3+	2000 03 14	703	1.6−	1.2−
1998 09 24	699	0.4−	0.5+	1998 10 19	699	0.5+	0.3−	2000 03 14	703	1.4−	0.8−
1998 09 24	699	0.1+	0.2−	1998 10 19	699	1.0+	0.2−	2000 03 14	703	(3.1−	0.3−)
1998 09 26	704	0.3+	0.9−	1998 10 28	704	0.7−	0.8+	2000 03 14	703	1.6−	0.2−
1998 09 26	704	0.7+	0.4+	1998 10 28	704	1.2+	1.3−				

1998 SC₂₆ = 2000 BD₂₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	167.26653		(2000.0)	P	Q
<i>n</i>	0.27223252	ω	193.35705	+0.85523047	+0.51319329
<i>a</i>	2.3578131	Ω	135.52356	−0.46551063	+0.82194318
<i>e</i>	0.2448586	<i>i</i>	5.91533	−0.22777335	+0.24706688
<i>P</i>	3.62	<i>H</i>	15.1	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 09 22	699	0.2−	0.1+	1998 09 27	704	0.3−	0.0	2000 02 01	691	0.2−	0.5−
1998 09 22	699	0.2+	0.6+	1998 09 27	704	0.1+	0.0	2000 02 03	704	1.1−	0.2+
1998 09 22	699	0.2−	0.2+	1998 09 27	704	0.5−	0.1−	2000 02 03	704	1.0+	0.6−
1998 09 24	699	0.4+	0.2+	1998 09 27	704	0.3−	0.3+	2000 02 03	704	0.2−	0.2−
1998 09 24	699	0.2+	0.2+	1998 09 27	704	0.4−	0.4−	2000 02 07	691	0.9+	1.3−
1998 09 24	699	0.0	0.4+	2000 01 30	691	0.2+	0.5+	2000 02 07	691	0.1−	0.1+
1998 09 26	704	1.4+	0.4+	2000 01 30	691	0.2+	0.5+	2000 02 07	691	0.3+	0.1+
1998 09 26	704	0.4−	1.0−	2000 01 30	691	0.1−	0.9+	2000 02 14	691	0.4+	0.4+
1998 09 26	704	0.4+	0.3−	2000 02 01	691	0.2−	0.4−	2000 02 14	691	0.2−	0.0
1998 09 26	704	0.4−	0.5−	2000 02 01	691	0.6−	0.1−	2000 02 14	691	0.2−	0.2+

1998 SF₂₇ = 2000 DE₇₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	71.74560		(2000.0)	P	Q
<i>n</i>	0.26194095	ω	277.28872	+0.19834064	−0.98009356
<i>a</i>	2.4191741	Ω	161.26433	+0.90972900	+0.18074137
<i>e</i>	0.1519900	<i>i</i>	1.57153	+0.36476587	+0.08215329
<i>P</i>	3.76	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.1−	0.1−	1998 09 29	120	(2.1+	0.2−)	2000 03 03	704	0.1+	0.6+
1998 09 14	704	0.2+	0.2+	1998 09 29	120	0.4−	1.0−	2000 03 03	704	0.2+	0.1+
1998 09 14	704	0.0	0.5+	1998 09 29	120	0.5+	0.3+	2000 03 03	704	0.2+	0.4+
1998 09 14	704	0.0	0.4+	1998 09 29	120	1.3+	0.1−	2000 03 05	704	0.8+	0.3−
1998 09 14	704	0.7−	0.4+	2000 01 08	704	(0.4−	2.4−)	2000 03 05	704	0.6+	0.1−
1998 09 18	704	1.1−	0.1−	2000 01 08	704	0.1−	1.2−	2000 03 05	704	0.0	0.5+
1998 09 18	704	0.8+	0.5+	2000 01 08	704	0.0	0.3−	2000 03 05	704	0.3+	0.8+
1998 09 18	704	1.9−	1.0+	2000 01 08	704	0.5−	1.6−	2000 03 05	704	0.1−	0.5+
1998 09 18	704	0.9−	1.6+	2000 02 27	703	1.0+	0.1−	2000 03 11	704	0.2−	0.3+
1998 09 18	704	(2.7−	0.8+)	2000 02 27	703	0.9+	0.2−	2000 03 11	699	0.1+	0.4+
1998 09 18	120	0.0	1.2+	2000 02 27	703	0.4+	0.4+	2000 03 11	704	0.3−	0.7+
1998 09 18	120	0.8−	0.5+	2000 02 27	703	0.4−	0.4+	2000 03 11	704	0.2−	1.0+
1998 09 18	120	0.4+	0.1−	2000 02 29	704	0.2+	0.3+	2000 03 11	699	0.0	0.3+
1998 09 23	120	0.5+	0.0	2000 02 29	704	0.0	0.1+	2000 03 11	704	0.2−	1.3+
1998 09 23	120	0.3+	0.1−	2000 02 29	704	0.1+	0.6−	2000 03 11	699	0.2+	0.2+
1998 09 23	120	0.3−	0.0	2000 02 29	704	0.5−	0.0	2000 03 11	704	0.4−	1.5+
1998 09 29	120	0.9+	1.7+	2000 03 03	704	0.2+	0.1+	2000 03 11	699	0.0	0.3+
1998 09 29	120	1.4−	0.0	2000 03 03	704	0.2+	0.3+				

1998 SQ₂₇ = 2000 CF₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	189.00848		(2000.0)	P	Q
<i>n</i>	0.23938119	ω	177.52772	+0.78876234	+0.57361353
<i>a</i>	2.5688734	Ω	144.36761	−0.57028257	+0.81701455
<i>e</i>	0.0210809	<i>i</i>	22.28845	−0.22941613	−0.05877710
<i>P</i>	4.12	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 24	703	0.0	0.9+	2000 02 04	704	0.0	0.3+	2000 02 28	704	0.2−	0.9−
1998 09 24	703	1.0+	0.6+	2000 02 04	704	1.5+	0.1−	2000 02 28	704	0.6+	0.5−
1998 09 25	703	0.0	0.1−	2000 02 04	704	0.6+	0.3+	2000 03 05	704	0.0	0.2−
1998 09 25	703	0.1−	0.5+	2000 02 04	120	0.1−	0.1−	2000 03 05	704	0.3+	0.1+
1998 10 29	703	0.1−	0.9−	2000 02 04	120	0.1−	0.6−	2000 03 05	704	0.1+	0.4+
1998 10 29	703	1.2−	0.4−	2000 02 06	120	0.5−	1.0−	2000 03 05	704	0.1+	0.5+
1998 10 29	703	0.5+	0.5−	2000 02 06	120	0.3−	0.1−	2000 03 05	704	0.7−	0.1+
2000 01 08	704	0.3−	0.4−	2000 02 06	120	0.0	0.6+	2000 03 06	120	0.7−	0.2+
2000 01 08	704	0.3−	1.2−	2000 02 06	120	0.3+	0.9−	2000 03 06	120	0.5−	0.0
2000 01 08	704	2.0−	1.4−	2000 02 06	120	0.0	0.1+	2000 03 06	120	0.0	0.3−
2000 01 30	704	0.3+	0.5+	2000 02 11	704	0.0	1.4+	2000 03 09	704	1.2+	1.5−
2000 01 30	704	0.2−	0.2−	2000 02 11	704	1.0+	0.6−	2000 03 09	704	0.6−	0.7+
2000 01 30	704	1.7−	0.4+	2000 02 11	704	0.4+	0.8+	2000 03 09	704	0.0	0.2+
2000 02 02	703	0.8−	0.9+	2000 02 11	704	0.3+	0.1+	2000 03 09	704	1.1−	0.4−
2000 02 02	703	0.4+	0.2+	2000 02 11	704	0.9+	0.2+	2000 03 09	704	0.2+	0.3−
2000 02 02	703	1.5+	0.2+	2000 02 25	703	0.7−	0.7+	2000 03 12	704	0.1+	0.0
2000 02 02	703	0.1−	0.8+	2000 02 25	703	0.1−	0.4+	2000 03 12	704	0.4+	0.0
2000 02 04	120	0.9−	0.2+	2000 02 25	703	(1.2−	2.7+)	2000 03 12	704	0.6+	1.0−
2000 02 04	120	1.1+	0.2−	2000 02 25	703	(0.3+	2.7+)	2000 03 12	704	0.4+	0.0
2000 02 04	704	0.3+	1.5+	2000 02 28	704	0.4−	0.3−				
2000 02 04	704	0.5−	0.5+	2000 02 28	704	0.1+	0.2−				

1998 SR₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

M	119.64542		(2000.0)	P	Q
n	0.27066610	ω	136.79665	+0.63355345	−0.66703695
a	2.3669013	Ω	269.70386	+0.55903216	+0.74493560
e	0.2687031	i	23.07994	+0.53487668	+0.01151780
P	3.64	H	15.8	G 0.15	U 2

1979 08 15	413	0.7−	0.4−	1998 09 26	703	1.9+	0.1−	1998 12 10	704	0.9+	0.9−
1998 08 25	704	0.3+	0.0	1998 09 30	658	0.1+	0.1−	1998 12 10	704	1.3+	1.7−
1998 08 25	704	0.4−	0.3−	1998 09 30	658	0.1+	0.2−	1999 01 08	704	1.6−	1.0+
1998 08 25	704	1.0−	1.0+	1998 09 30	658	0.1+	0.2−	1999 01 08	704	1.7−	0.4−
1998 08 25	704	0.5+	0.2−	1998 10 25	704	0.5−	0.1−	1999 01 08	704	(2.6−	0.3−)
1998 08 25	704	0.5−	0.1−	1998 10 25	704	0.2−	0.3+	1999 01 08	704	0.3+	1.0+

1998 SX₂₈ = 2000 ER₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	45.69604		(2000.0)		P		Q
<i>n</i>	0.26528979	ω	15.32087	−0.37817572		−0.92526289	
<i>a</i>	2.3987723	Ω	96.90704	+0.84618777		−0.35843855	
<i>e</i>	0.0939376	<i>i</i>	1.70427	+0.37543227		−0.12413861	
<i>P</i>	3.72	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 18	691	0.1+	0.3−	1998 09 27	704	0.8+	0.8+	2000 03 11	699	0.4−	0.5−
1998 09 18	691	0.1−	0.6−	1998 09 27	704	0.3+	0.3+	2000 03 11	699	0.1+	0.1+
1998 09 18	691	0.2+	0.6−	1998 09 27	704	0.1−	0.3−	2000 03 12	704	0.0	0.4−
1998 09 25	691	0.1−	0.0	1998 09 27	704	0.1+	1.3+	2000 03 12	704	0.5+	0.0
1998 09 25	691	0.2−	0.1+	2000 03 03	704	0.5−	0.3−	2000 03 12	704	0.6+	0.9+
1998 09 25	691	0.1−	0.7−	2000 03 03	704	0.3−	0.1+	2000 03 12	704	0.3+	0.4+
1998 09 26	704	1.0−	0.1+	2000 03 03	704	0.6+	0.3−	2000 03 12	704	0.0	0.9+
1998 09 26	704	(1.8−	2.3−)	2000 03 03	704	0.5−	0.7−	2000 03 15	704	1.5−	0.3−
1998 09 26	704	0.3+	0.9+	2000 03 03	704	0.0	0.4−	2000 03 15	704	0.1−	0.5+
1998 09 26	704	0.1+	0.1−	2000 03 11	699	0.5+	0.1+	2000 03 15	704	0.2+	0.5−
1998 09 27	704	0.4−	1.0−	2000 03 11	699	0.3+	0.4+	2000 03 15	704	0.2+	0.1+

1998 SC₂₉ = 2000 AA₁₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	105.05640		(2000.0)		P		Q
<i>n</i>	0.18284873	ω	328.99629	+0.99815277		+0.02465330	
<i>a</i>	3.0742658	Ω	29.74416	+0.00534211		+0.87481123	
<i>e</i>	0.0937888	<i>i</i>	6.42606	−0.06051861		+0.48383626	
<i>P</i>	5.39	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 18	691	0.7−	0.0	1998 09 26	704	1.8+	0.3−	1998 10 01	691	0.8−	0.1+
1998 09 18	691	0.7−	0.1+	1998 09 26	704	1.0+	0.9−	2000 01 04	704	0.5−	0.8−
1998 09 18	691	0.5−	0.0	1998 09 27	704	0.2−	0.2+	2000 01 04	704	1.5−	0.0
1998 09 25	691	0.2+	0.3+	1998 09 27	704	0.1+	1.2+	2000 01 04	704	0.9+	1.5−
1998 09 25	691	0.3+	0.1+	1998 09 27	704	0.4+	0.2−	2000 01 04	704	1.0+	0.8−
1998 09 25	691	0.3+	0.0	1998 09 27	704	0.5−	0.0	2000 01 08	704	1.3+	0.6+
1998 09 26	704	1.1+	0.2+	1998 09 27	704	1.0−	0.8−	2000 01 08	704	0.5−	0.6+
1998 09 26	704	1.0+	1.5−	1998 10 01	691	0.8−	0.4+	2000 01 08	704	0.3−	1.1+
1998 09 26	704	0.3−	1.1+	1998 10 01	691	0.8−	0.1+	2000 01 08	704	0.5−	0.8+

1998 SO₃₂ = 2000 AA₁₀₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	8.77262		(2000.0)		P		Q
<i>n</i>	0.21558597	ω	289.61309	−0.10006995		−0.99466502	
<i>a</i>	2.7545821	Ω	166.05927	+0.94740306		−0.10294679	
<i>e</i>	0.0545082	<i>i</i>	5.96825	+0.30399579		−0.00659212	
<i>P</i>	4.57	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 23	691	0.1−	0.2+	1998 09 29	691	0.1+	0.1−	2000 01 05	704	0.2+	0.6+
1998 09 23	691	0.0	0.0	1998 09 29	691	0.1−	0.1−	2000 01 05	704	0.2+	0.5+
1998 09 23	691	0.4−	0.2+	1999 12 14	704	0.2+	0.3+	2000 01 05	704	0.0	0.1+
1998 09 26	691	0.0	0.1−	1999 12 14	704	0.2+	0.4−	2000 01 07	704	0.0	0.4−
1998 09 26	691	0.2+	0.0	1999 12 14	704	0.0	0.3−	2000 01 07	704	0.1−	0.0
1998 09 26	691	0.7+	0.0	1999 12 14	704	0.3−	0.2−	2000 01 07	704	0.7+	0.2+
1998 09 29	691	0.3−	0.1−	2000 01 05	704	1.6−	0.1−	2000 01 07	704	0.5+	0.4−

1998 SL₃₅ = 2000 EC₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	109.92990		(2000.0)		P		Q
<i>n</i>	0.28862213	ω	244.90045	+0.64800069		−0.76129047	
<i>a</i>	2.2676863	Ω	164.63995	+0.72640009		+0.60863119	
<i>e</i>	0.1688012	<i>i</i>	4.99505	+0.22899348		+0.22361773	
<i>P</i>	3.41	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 14	704	0.0	0.1−	1998 10 09	747	0.6+	0.6+	1998 11 19	747	0.9+	1.3+
1998 09 14	704	0.3−	0.3−	1998 10 11	747	0.2−	0.4+	2000 03 04	688	0.1+	0.7+
1998 09 14	704	0.1+	0.2−	1998 10 11	747	0.3+	0.9+	2000 03 04	688	0.1−	1.0+
1998 09 14	704	0.6−	0.9+	1998 10 12	699	0.6−	0.5−	2000 03 08	704	0.9−	0.9+
1998 09 18	704	0.7−	0.7−	1998 10 12	699	0.3−	1.4−	2000 03 08	704	0.3+	0.7+
1998 09 18	704	0.9−	1.0+	1998 10 12	699	0.1−	0.8−	2000 03 08	704	0.1−	1.1+
1998 09 18	704	0.2−	0.4+	1998 10 24	747	0.5−	0.9−	2000 03 08	704	0.5+	0.3+
1998 09 18	704	0.8−	0.3+	1998 10 24	747	0.1+	0.1−	2000 03 08	704	0.7+	0.0
1998 09 18	704	0.2+	1.8+	1998 10 24	747	0.3−	0.4+	2000 03 10	704	0.9+	1.0+
1998 09 27	747	0.2+	0.1+	1998 10 24	747	0.3+	0.8+	2000 03 10	704	0.1−	1.1+
1998 09 27	747	0.7+	0.5+	1998 10 24	747	0.3+	0.2+	2000 03 10	704	0.4+	0.3+
1998 09 27	747	0.2+	0.0	1998 10 26	747	0.2−	0.1−	2000 03 10	704	0.3+	0.7+
1998 09 27	747	0.2−	0.1−	1998 10 26	747	0.1+	0.1−	2000 03 10	704	0.5+	0.8+
1998 09 28	670	0.5−	0.4+	1998 11 18	747	0.1+	0.3−	2000 03 11	704	0.9+	0.3+
1998 09 28	670	0.3−	0.8+	1998 11 18	747	0.1+	0.2+	2000 03 11	704	0.2+	0.1+
1998 09 28	670	0.7−	0.7+	1998 11 19	747	0.3−	0.1+	2000 03 11	704	0.3+	0.5+
1998 10 09	747	0.4+	0.3+	1998 11 19	747	0.3+	1.0+	2000 03 11	704	0.2−	0.0
1998 10 09	747	0.9+	1.0+	1998 11 19	747	0.4−	0.9+	2000 03 11	704	0.6−	0.2+

1998 SR₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	86.79295		(2000.0)		P		Q
<i>n</i>	0.29522091	ω	69.97823	−0.34337733		−0.93838444	
<i>a</i>	2.2337675	Ω	40.17245	+0.83747673		−0.32475308	
<i>e</i>	0.1193206	<i>i</i>	3.47248	+0.42511732		−0.11819511	
<i>P</i>	3.34	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1991 10 05	413	2.0−	0.3−	1998 10 14	691	0.0	0.1−	1998 11 16	691	0.1+	0.0
1991 10 05	413	2.0+	0.2+	1998 10 14	691	(3.7−	2.1−)	1998 11 16	691	0.1−	0.1+
1998 09 22	910	0.2−	0.1−	1998 10 19	691	0.3−	0.2−	1998 11 16	691	0.2+	0.0
1998 09 22	910	0.1−	0.2−	1998 10 19	691	0.3−	0.3−	1998 11 19	691	0.0	0.2+
1998 09 22	910	0.2−	0.2−	1998 10 19	691	0.1−	0.2−	1998 11 19	691	(1.4−	2.4+)
1998 09 29	910	0.1+	0.1+	1998 11 10	704	0.8+	0.0	1998 11 19	691	0.5−	0.4+
1998 09 29	910	0.4+	0.2+	1998 11 10	704	(0.9−	1.7+)	1999 01 19	910	0.2−	0.8−
1998 09 29	910	0.2−	0.4+	1998 11 10	704	0.0	0.9+	1999 01 19	910	0.1−	0.2−
1998 10 14	691	0.0	0.5−	1998 11 10	704	0.2+	0.1−	1999 01 19	910	0.3+	0.3+

1998 SM₃₇ = 2000 DO₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	50.64076		(2000.0)		P		Q
<i>n</i>	0.23433619	ω	116.70519	−0.15802943		−0.98736924	
<i>a</i>	2.6056124	Ω	342.37633	+0.89211887		−0.13784133	
<i>e</i>	0.0465479	<i>i</i>	2.14722	+0.42326188		−0.07811371	
<i>P</i>	4.21	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 21	691	0.7+	0.2+	1998 10 01	691	0.8−	0.2−	2000 02 29	704	1.0+	0.9−
1998 09 21	691	0.8+	0.2+	1998 10 01	691	0.6−	0.5−	2000 02 29	704	0.6−	0.3−
1998 09 21	691	0.4+	0.0	1998 10 14	910	0.6+	0.3+	2000 02 29	704	0.1−	0.6−
1998 09 27	691	0.3−	0.2+	1998 10 15	910	0.5+	0.2+	2000 03 03	704	0.2−	0.4+
1998 09 27	691	0.2+	0.2+	1998 10 15	910	0.9+	0.4+	2000 03 03	704	0.0	0.8+
1998 09 27	691	1.6−	0.4−	1998 10 21	910	0.2−	0.0	2000 03 03	704	0.3−	0.4+
1998 09 30	691	0.1−	0.3−	1998 10 21	910	0.6−	0.2+	2000 03 03	704	0.5+	0.3+
1998 09 30	691	0.6+	0.3−	1998 10 22	910	0.1−	0.0	2000 03 03	704	0.1−	0.8+

2000 MAR. 20

M.P.C. 39237

1998 09 30 691 0.4+ 0.0 2000 02 29 704 0.1- 0.5-
 1998 10 01 691 0.7- 0.2- 2000 02 29 704 0.3- 0.4-

1998 SM₄₁ = 2000 EA₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	47.60615		(2000.0)	P	Q
<i>n</i>	0.25608330	ω	108.97532	-0.31591765	-0.94878507
<i>a</i>	2.4559256	Ω	359.43238	+0.79243794	-0.26286502
<i>e</i>	0.1901347	<i>i</i>	9.95595	+0.52176445	-0.17523947
<i>P</i>	3.85	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1996 04 20	566	0.2+	0.6-	1998 09 27	704	0.4-	1.0+	2000 02 27	703	0.5-	0.3+
1996 04 20	566	0.3-	0.3-	1998 09 27	704	1.5+	0.5+	2000 02 27	703	0.2-	0.4+
1996 04 20	566	0.6-	0.3-	1998 09 27	704	0.2+	0.1+	2000 02 27	703	0.1-	0.4+
1998 08 28	704	(2.4-	0.9-)	1998 09 28	691	0.3-	0.4+	2000 02 27	703	0.4-	0.1+
1998 08 28	704	0.2-	0.7+	1998 09 28	691	0.3-	0.4+	2000 03 02	691	0.0	0.6-
1998 08 28	704	0.9-	0.5-	1998 09 29	691	0.5-	0.4+	2000 03 02	691	0.1-	0.6-
1998 08 28	704	0.0	1.1+	1998 09 29	691	0.9-	0.4+	2000 03 02	691	0.0	0.5-
1998 08 28	704	0.7+	0.1-	1998 09 29	691	1.0-	0.3+	2000 03 03	691	0.0	0.6-
1998 09 14	704	1.1+	0.1+	1998 10 18	327	0.8-	0.2+	2000 03 03	691	0.1+	0.7-
1998 09 14	704	0.1-	1.5+	1998 10 18	327	0.5-	0.2+	2000 03 03	691	0.0	0.7-
1998 09 14	704	0.2+	0.2-	1998 10 18	327	0.7-	0.8-	2000 03 08	704	0.1-	0.6+
1998 09 18	704	1.0+	0.8+	1998 10 19	327	1.0-	0.2-	2000 03 08	704	0.4+	0.6+
1998 09 18	704	1.9+	1.1-	1998 10 19	327	0.6-	0.1-	2000 03 08	704	0.3+	0.7+
1998 09 18	704	1.1-	0.7+	1998 10 19	327	0.7-	0.2-	2000 03 08	704	0.1+	0.1-
1998 09 18	704	1.6+	1.2-	1998 10 20	327	0.9-	0.1-	2000 03 08	704	0.2+	0.1+
1998 09 18	704	0.3-	0.2-	1998 10 20	327	0.9-	0.1-	2000 03 10	704	0.0	0.4+
1998 09 25	691	0.1+	0.5+	1998 10 20	327	0.5-	0.3-	2000 03 10	704	0.5+	0.3+
1998 09 25	699	0.1-	0.5+	1998 10 27	327	0.0	0.3-	2000 03 10	704	0.1+	0.5+
1998 09 25	691	0.1+	0.6+	1998 10 27	327	0.3+	1.1-	2000 03 10	704	0.1+	1.0+
1998 09 25	699	0.8+	0.8+	1998 10 27	327	0.2+	1.1-	2000 03 10	704	0.1+	0.6+
1998 09 25	691	0.1+	0.4+	2000 01 08	704	0.2+	0.0	2000 03 11	704	0.4+	0.2+
1998 09 25	699	0.9+	1.0+	2000 01 08	704	0.7+	0.2-	2000 03 11	704	0.4+	0.5+
1998 09 26	704	0.8+	0.1+	2000 01 08	704	0.2-	0.0	2000 03 11	704	0.5+	0.5+
1998 09 26	704	0.4-	0.3-	2000 01 08	704	0.0	0.7-	2000 03 11	704	0.5+	0.6+
1998 09 26	704	1.4-	0.1-	2000 01 08	704	0.0	0.8-	2000 03 11	704	0.5+	0.8+
1998 09 26	704	0.1-	0.5+	2000 02 11	704	0.1+	0.4+	2000 03 14	703	0.1-	0.5+
1998 09 26	704	0.3-	0.2-	2000 02 11	704	0.3+	0.5+	2000 03 14	703	0.1-	0.5+
1998 09 27	704	0.1-	0.5+	2000 02 11	704	0.7+	0.3+	2000 03 14	703	0.1-	0.1+
1998 09 27	704	0.9-	0.2+	2000 02 11	704	0.2+	0.1+	2000 03 14	703	0.2+	0.6+

1998 SJ₄₃ = 2000 DL₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	115.48706		(2000.0)	P	Q
<i>n</i>	0.24007115	ω	55.07976	+0.89665578	-0.44245854
<i>a</i>	2.5639491	Ω	331.17203	+0.39502500	+0.81531724
<i>e</i>	0.1628039	<i>i</i>	1.83676	+0.19990912	+0.37348124
<i>P</i>	4.11	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 23	327	0.2+	0.5+	1998 10 19	327	0.2+	0.8-	1998 10 29	704	(0.0	2.4+)
1998 09 23	327	0.0	0.1+	1998 10 19	327	0.1-	0.7-	1998 10 29	704	0.0	0.2+
1998 09 23	327	0.1+	0.5-	1998 10 20	327	0.2-	0.5-	1998 10 29	704	0.3+	1.0-
1998 09 25	327	1.3-	0.2-	1998 10 20	327	0.0	0.5-	2000 02 29	704	0.1-	0.4-
1998 09 25	327	1.0-	0.0	1998 10 20	327	0.1-	0.3-	2000 02 29	704	0.0	0.2-
1998 09 25	327	1.0-	0.5+	1998 10 22	327	0.0	0.4-	2000 02 29	704	0.3-	0.9+
1998 09 26	704	0.5+	0.9+	1998 10 22	327	0.1+	0.5-	2000 02 29	704	0.2+	0.6-
1998 09 26	704	0.1-	0.7-	1998 10 22	327	0.0	0.2-	2000 02 29	704	0.5+	0.1+
1998 09 26	704	0.2-	0.1-	1998 10 26	327	0.1+	0.2+	2000 03 03	704	0.2-	0.2+
1998 09 26	704	0.2+	0.1+	1998 10 26	327	0.1+	0.1-	2000 03 03	704	0.4-	0.1+
1998 09 26	704	0.3-	0.2-	1998 10 26	327	0.3+	0.1+	2000 03 03	704	0.2-	0.3+
1998 09 27	704	1.0+	0.2+	1998 10 28	704	0.9-	0.4-	2000 03 03	704	0.3-	0.1-
1998 09 27	704	0.6+	0.2+	1998 10 28	704	0.4+	0.9+	2000 03 03	704	0.6+	0.2-
1998 09 27	704	0.3-	0.1+	1998 10 28	704	1.0-	0.4-	2000 03 11	704	0.2-	0.6-
1998 09 27	704	0.3+	0.9+	1998 10 28	704	0.1-	0.0	2000 03 11	704	0.0	0.1-

1998 09 27 704 0.7+ 1.0+ 1998 10 29 704 1.9+ 1.4+ 2000 03 11 704 0.0 0.3+
 1998 10 19 327 0.0 1.0- 1998 10 29 704 0.5- 1.7+ 2000 03 11 704 0.5+ 0.8+

1998 SK₄₃ = 2000 DU₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	26.83341		(2000.0)	P	Q
<i>n</i>	0.26683408	ω	125.04949	-0.65719268	-0.75358313
<i>a</i>	2.3895081	Ω	6.09853	+0.63944057	-0.56762808
<i>e</i>	0.0471195	<i>i</i>	7.84454	+0.39901571	-0.33152802
<i>P</i>	3.69	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 09 23	327	0.4-	0.1+	1998 10 19	327	0.0	0.1-	2000 02 29	704	0.1+	0.8+
1998 09 23	327	0.8-	0.0	1998 10 19	327	0.0	0.1+	2000 02 29	704	0.4+	0.4+
1998 09 23	327	0.4-	0.7+	1998 10 19	327	0.4-	0.0	2000 03 02	703	0.6-	0.1-
1998 09 25	327	(2.3-	0.0)	1998 10 20	327	0.6+	0.0	2000 03 02	703	1.2-	2.0+
1998 09 25	327	(2.1-	0.3+)	1998 10 20	327	0.8+	0.1+	2000 03 02	703	0.0	0.7-
1998 09 25	327	1.5-	0.1+	1998 10 20	327	0.0	0.5+	2000 03 02	703	0.2-	0.4-
1998 09 26	704	0.4+	1.1-	2000 01 07	704	0.6-	0.1+	2000 03 05	704	0.1+	0.1-
1998 09 26	704	0.6+	0.3-	2000 01 07	704	0.3+	1.3-	2000 03 05	704	0.5-	0.2-
1998 09 26	704	0.9+	0.1-	2000 01 07	704	1.0-	0.7-	2000 03 05	704	0.0	0.7+
1998 09 26	704	0.0	0.5-	2000 01 07	704	0.2-	0.4-	2000 03 05	704	0.4-	0.7-
1998 09 27	704	0.3+	0.3-	2000 02 04	704	0.3-	0.2-	2000 03 05	704	0.0	0.4-
1998 09 27	704	1.3+	1.4+	2000 02 04	704	0.2+	1.4+	2000 03 09	704	0.2+	0.3-
1998 09 27	704	1.3+	0.3-	2000 02 04	704	0.6+	0.7-	2000 03 09	704	0.6+	0.3-
1998 09 27	704	1.3-	0.1+	2000 02 04	704	0.7+	0.1-	2000 03 09	704	0.5+	0.2+
1998 09 27	704	0.4-	0.1-	2000 02 11	704	0.5+	0.7+	2000 03 09	704	0.5+	0.4-
1998 10 15	327	0.0	0.0	2000 02 11	704	0.2+	0.2-	2000 03 09	704	0.6+	0.3-
1998 10 15	327	0.1-	0.1-	2000 02 11	704	0.3-	0.3+	2000 03 12	704	0.2-	0.9-
1998 10 15	327	0.2-	0.2-	2000 02 11	704	0.8-	0.7+	2000 03 12	704	0.1-	0.1-
1998 10 17	327	0.8-	0.1-	2000 02 29	704	0.9+	0.2-	2000 03 12	704	0.2-	0.0
1998 10 17	327	0.3-	0.2+	2000 02 29	704	0.5+	0.1+	2000 03 12	704	0.3-	0.6+
1998 10 17	327	0.1-	0.1+	2000 02 29	704	0.4+	0.6+	2000 03 12	704	0.4-	0.1-

1998 SL₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	123.11107		(2000.0)	P	Q
<i>n</i>	0.27581389	ω	181.88546	+0.71993347	-0.69372931
<i>a</i>	2.3373583	Ω	222.06644	+0.63717900	+0.67256834
<i>e</i>	0.2281386	<i>i</i>	1.78481	+0.27513400	+0.25766543
<i>P</i>	3.57	<i>H</i>	16.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1991 10 12	675	0.1-	0.3-	1998 09 25	327	0.2-	0.2+	1998 10 26	327	0.2-	0.2+
1991 10 12	675	0.4+	0.1+	1998 09 25	327	0.4-	0.0	1998 10 26	327	0.2-	0.2-
1991 10 17	675	0.3-	0.6+	1998 09 25	327	0.3-	0.4-	1998 10 26	327	0.0	0.6+
1998 09 23	327	0.1-	0.1-	1998 10 20	327	0.2+	0.2+	1999 01 07	691	0.1+	0.2-
1998 09 23	327	0.1+	0.0	1998 10 20	327	0.5+	0.1+	1999 01 07	691	0.1-	0.4-
1998 09 23	327	0.4+	0.5-	1998 10 20	327	0.2+	0.1-	1999 01 07	691	0.1+	0.1-

1998 SN₄₃ = 2000 DJ₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	82.24058		(2000.0)	P	Q
<i>n</i>	0.21939725	ω	359.23576	+0.62429220	-0.77795056
<i>a</i>	2.7225880	Ω	52.13085	+0.71720552	+0.53471615
<i>e</i>	0.0867016	<i>i</i>	5.16589	+0.30963767	+0.32995692
<i>P</i>	4.49	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 09 24	699	0.2+	0.2-	1998 10 10	699	0.4+	0.7+	1999 11 16	704	0.7+	0.3+
1998 09 24	699</										

1998 09 25	327	1.0−	0.2+	1998 10 28	704	0.6−	0.8+	2000 01 30	704	0.1−	0.6−
1998 09 25	327	1.3−	0.2+	1998 10 28	704	0.5+	1.5−	2000 01 30	704	0.6+	0.5+
1998 09 25	327	1.0−	0.3+	1998 10 28	704	0.8−	0.2+	2000 02 11	704	1.0−	0.4+
1998 09 26	704	0.2−	0.2+	1998 10 28	704	1.4+	1.4−	2000 02 11	704	0.3+	0.0
1998 09 26	704	0.8+	1.7−	1998 10 28	704	0.7−	1.2+	2000 02 11	704	0.2−	0.2−
1998 09 26	704	0.4+	0.3−	1998 10 29	704	0.3+	0.4−	2000 02 11	704	0.2+	0.2+
1998 09 26	704	0.1+	0.5−	1998 10 29	704	1.1−	1.7+	2000 02 11	704	0.3+	2.0−
1998 09 26	704	0.4−	0.3+	1998 10 29	704	0.4+	0.0	2000 02 28	704	0.1−	0.1+
1998 09 27	704	0.1−	0.5+	1998 10 29	704	0.2−	0.0	2000 02 28	704	0.2−	0.1−
1998 09 27	704	0.4+	0.1+	1998 10 29	704	(2.4−	0.3−)	2000 02 28	704	0.2−	0.5+
1998 09 27	704	0.1−	0.6−	1998 12 08	699	1.5+	0.1−	2000 02 28	704	0.3+	0.8+
1998 09 27	704	0.9+	0.2−	1998 12 08	699	0.4+	0.3+	2000 02 28	704	0.7−	0.7+
1998 09 27	704	(1.3−	2.1−)	1998 12 08	699	0.1−	0.3−	2000 03 04	704	0.7−	0.3+
1998 10 01	691	0.3+	0.3−	1999 01 05	910	0.3−	0.4−	2000 03 04	704	0.6−	0.1+
1998 10 01	691	0.2+	0.4−	1999 01 05	910	0.4−	0.2−	2000 03 04	704	0.3+	0.1−
1998 10 01	691	0.3+	0.1−	1999 01 05	910	0.3−	0.4−	2000 03 04	704	0.3−	0.0
1998 10 02	327	0.2+	0.4−	1999 11 16	704	0.6+	0.0	2000 03 04	704	0.0	0.1+
1998 10 02	327	0.2+	0.2+	1999 11 16	704	0.3−	0.2−				
1998 10 02	327	0.0	0.6+	1999 11 16	704	0.3+	0.1−				

1998 ST₄₃ = 2000 DX₆₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	136.51909		(2000.0)	P	Q
<i>n</i>	0.26595789	ω	233.86935	+0.97093567	−0.23714235
<i>a</i>	2.3947534	Ω	139.82034	+0.23253758	+0.90266274
<i>e</i>	0.2282227	<i>i</i>	2.87530	+0.05665862	+0.35911487
<i>P</i>	3.71	<i>H</i>	14.5	<i>G</i>	0.15

Residuals in seconds of arc

1998 09 18	699	0.6+	0.3+	1998 10 02	327	1.5+	0.6+	1998 12 08	704	1.2+	0.4−
1998 09 18	699	0.7+	0.1+	1998 10 02	327	(2.2+	0.1+)	1998 12 08	704	(3.7−	0.1+)
1998 09 18	699	0.6+	0.1+	1998 10 10	699	0.3−	0.2−	2000 02 16	703	0.2−	1.1−
1998 09 23	327	1.5−	0.2−	1998 10 10	699	0.1+	0.6−	2000 02 16	703	1.5−	1.0+
1998 09 23	327	1.4−	0.4−	1998 10 10	699	0.2−	0.4−	2000 02 16	703	0.0	0.0
1998 09 23	327	1.4−	0.1−	1998 10 19	699	0.7+	1.0−	2000 02 16	703	1.8+	1.1−
1998 09 25	327	1.3+	0.0	1998 10 19	699	0.3−	0.9−	2000 02 29	704	0.8+	0.7−
1998 09 25	327	1.0+	0.1+	1998 10 19	699	0.1+	1.2−	2000 02 29	704	0.3+	0.3+
1998 09 25	327	1.1+	0.1+	1998 10 28	704	0.1+	0.1+	2000 02 29	704	0.5−	0.7+
1998 09 26	704	0.2+	0.7+	1998 10 28	704	0.5−	1.1+	2000 03 03	704	0.0	0.2+
1998 09 26	704	0.8+	0.1−	1998 10 28	704	0.3+	0.4+	2000 03 03	704	0.4+	0.2+
1998 09 26	704	0.3+	0.1+	1998 10 28	704	0.1−	0.7+	2000 03 03	704	0.3−	0.2+
1998 09 26	704	0.2+	0.3+	1998 10 28	704	0.8−	1.2+	2000 03 03	704	0.0	0.2+
1998 09 27	704	0.3+	1.2+	1998 10 29	704	0.1+	0.1−	2000 03 03	704	0.2+	0.2−
1998 09 27	704	0.4+	0.6+	1998 10 29	704	0.0	0.1+	2000 03 11	704	0.4+	0.4+
1998 09 27	704	0.3+	0.2−	1998 10 29	704	0.2−	0.9+	2000 03 11	699	0.2−	0.1−
1998 09 27	704	0.2−	0.2+	1998 10 29	704	0.3−	0.9+	2000 03 11	704	0.4+	0.1+
1998 09 27	704	1.4−	0.1−	1998 10 29	704	0.7−	0.1+	2000 03 11	699	0.5−	0.0
1998 09 29	327	1.4−	0.1−	1998 11 10	704	1.0+	0.0	2000 03 11	704	0.1+	0.3+
1998 09 29	327	1.3−	0.2−	1998 11 10	704	1.2+	0.9+	2000 03 11	704	0.6+	0.6+
1998 09 29	327	1.4−	0.1−	1998 11 10	704	0.9+	1.3−	2000 03 11	699	0.7−	0.2+
1998 10 01	691	0.1+	0.5−	1998 11 10	704	1.7−	0.6+	2000 03 11	704	0.1−	0.5+
1998 10 01	691	0.1+	0.5−	1998 12 08	704	0.7−	1.6−	2000 03 11	699	0.3−	0.1−
1998 10 01	691	0.3+	0.3−	1998 12 08	704	(2.2+	1.2−)				
1998 10 02	327	0.0	0.1+	1998 12 08	704	0.7+	0.7−				

1998 SK₄₅ = 1999 VE₁₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	177.43971		(2000.0)	P	Q
<i>n</i>	0.17737542	ω	228.12451	−0.04782825	+0.99864699
<i>a</i>	3.1371871	Ω	39.14818	−0.90658981	−0.03482306
<i>e</i>	0.1367117	<i>i</i>	1.85278	−0.41929391	−0.03862041
<i>P</i>	5.56	<i>H</i>	13.7	<i>G</i>	0.15

Residuals in seconds of arc

1996 03 21	566	0.4−	0.5−	1998 09 27	704	0.3+	0.5−	1999 11 12	704	1.0−	0.4+
1996 03 21	566	0.3−	0.3−	1998 09 27	704	0.5−	0.2+	1999 11 12	704	0.3+	0.3+

1996 03 21	566	0.1−	0.7−	1998 09 27	704	1.1−	0.5−	1999 11 16	704	0.4+	0.8−
1996 04 20	566	0.1+	0.3−	1998 09 27	704	0.3−	0.7−	1999 11 16	704	0.2−	0.4−
1996 04 20	566	0.5−	1.1−	1998 09 30	691	0.1−	0.4−	1999 11 16	704	0.4+	0.4+
1996 04 20	566	0.4−	0.6−	1998 09 30	691	0.0	0.4−	1999 11 16	704	0.8+	1.1+
1998 09 17	699	0.2−	0.2+	1998 09 30	691	0.0	0.5−	1999 11 16	704	0.7−	0.6+
1998 09 17	699	0.4−	1.9+	1998 10 14	699	1.3+	0.9+	1999 12 07	704	1.3−	0.1+
1998 09 17	699	0.7+	0.0	1998 10 14	699	0.7+	0.3+	1999 12 07	704	0.8−	0.1−
1998 09 25	691	0.1−	0.3−	1998 10 14	699	1.4+	0.3−	1999 12 07	704	1.1+	0.3+
1998 09 25	691	0.9−	0.3−	1998 12 17	621	1.4+	1.5−	1999 12 07	704	0.9−	0.2+
1998 09 25	691	0.7−	0.2−	1998 12 17	621	0.1+	0.8+	2000 01 04	704	0.7−	0.4−
1998 09 26	704	0.6+	1.1+	1998 12 17	621	0.5−	0.2−	2000 01 04	704	1.3+	0.1+
1998 09 26	704	0.5−	0.5−	1998 12 17	621	0.4+	0.4−	2000 01 04	704	0.5+	0.5−
1998 09 26	704	0.6+	1.1−	1998 12 17	621	0.1−	0.4+	2000 01 04	704	0.3−	0.5+
1998 09 26	704	0.7+	0.2−	1998 12 17	621	1.2−	1.1−	2000 01 04	704	0.1+	1.0+
1998 09 27	704	0.0	0.8−	1999 11 12	704	0.9+	1.6−				

1998 SD₄₆ = 1998 UC₃₇ = 2000 EA₃₇Id. S. Nakano (d, *MPC* 33590), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	69.97843		(2000.0)	P	Q
<i>n</i>	0.26246393	ω	93.01106	−0.09801886	−0.99518362
<i>a</i>	2.4159594	Ω	2.61521	+0.90079355	−0.08930384
<i>e</i>	0.0733875	<i>i</i>	1.71100	+0.42304053	−0.04042743
<i>P</i>	3.76	<i>H</i>	15.3	<i>G</i>	0.15

Residuals in seconds of arc

1998 09 25	691	0.3+	0.1+	1998 10 29	704	0.7−	0.1+	2000 03 10	704	0.2−	0.2+
1998 09 25	691	0.5+	0.3−	1998 10 29	704	0.7+	0.6−	2000 03 10	704	0.1+	0.2+
1998 09 25	691	0.5+	0.1−	2000 02 27	703	1.1−	0.9+	2000 03 10	704	0.3+	0.3+
1998 09 30	691	0.6−	0.0	2000 02 27	703	1.1+	0.4+	2000 03 11	704	0.3−	0.4−
1998 09 30	691	0.2−	0.0	2000 02 27	703	0.0	0.5−	2000 03 11	704	0.1−	0.0
1998 09 30	691	0.3−	0.7−	2000 02 27	703	0.1−	0.4+	2000 03 11	704	0.2−	0.2+
1998 10 28	704	0.5−	1.3+	2000 03 08	704	0.4+	0.1−	2000 03 11	704	0.5+	0.3+
1998 10 28	704	0.9−	0.3+	2000 03 08	704	0.9−	0.6−	2000 03 11	704	0.1−	0.3+
1998 10 28	704	0.4−	0.8−	2000 03 08	704	0.7+	0.9−	2000 03 14	703	0.3+	0.4−
1998 10 28	704	0.6−	0.5+	2000 03 08	704	0.6+	0.9−	2000 03 14	703	0.1−	0.2−
1998 10 29	704	1.5+	1.0−	2000 03 08	704	0.6+	0.1−	2000 03 14	703	1.1−	0.4+
1998 10 29	704	0.8+	0.2+	2000 03 10	704	0.2+	0.1+	2000 03 14	703	0.1−	0.1−
1998 10 29	704	0.1+	0.6+	2000 03 10	704	0.6−	0.1+				

1998 SK₄₈ = 2000 EV₉₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	44.54198		(2000.0)	P	Q
<i>n</i>	0.24278986	ω	118.66090	−0.52431447	−0.85152222
<i>a</i>	2.5447728	Ω	2.96363	+0.76669725	−0.47313405
<i>e</i>	0.1392909	<i>i</i>	2.28282	+0.37049922	−0.22595149
<i>P</i>	4.06	<i>H</i>	15.9	<i>G</i>	0.15

Residuals in seconds of arc

1998 09 27	691	0.6+	0.0	1998 10 21	910	0.1+	0.2+	2000 03 10	704	0.4+	0.7+
1998 09 27	691	0.8+	0.1+	1998 10 21	910	0.0	0.0	2000 03 10	704	1.1+	0.3+
1998 09 27	691	0.6+	0.4+	1998 10 22	910	0.0	0.3+	2000 03 11	704	0.6−	0.1−
1998 09 30	691	0.9−	0.2−	2000 03 10	704	0.8−	1.3−	2000 03 11	704	0.7+	0.3+
1998 09 30	691	0.5−	0.1−	2000 03 10	704	1.3−	0.1−	2000 03 11	704	0.3+	0.3+
1998 09 30	691	0.7−	0.7−	2000 03 10	704	0.2+	0.3−				

2000 MAR. 20

M.P.C. 39239

Residuals in seconds of arc

1998 08 23	704	0.4+	1.0-	1998 09 26	704	(3.0+	2.2-)	2000 02 29	704	0.6+	0.4+
1998 08 23	704	0.8+	1.9-	1998 09 26	704	0.7+	0.4-	2000 02 29	704	0.2+	0.1-
1998 08 23	704	0.4+	0.6-	1998 09 27	704	1.5-	1.7-	2000 03 03	704	0.0	0.3+
1998 08 23	704	(4.7-	0.2-)	1998 09 27	704	0.8+	0.0	2000 03 03	704	0.0	0.1-
1998 09 14	704	0.4-	1.4+	1998 09 27	704	0.4+	0.3+	2000 03 03	704	0.1-	0.6-
1998 09 14	704	(2.0+	1.8-)	1998 09 27	704	1.1-	0.7-	2000 03 03	704	0.4+	0.0
1998 09 14	704	0.5+	0.6-	1998 09 29	120	1.9+	0.4+	2000 03 03	704	0.0	1.6-
1998 09 14	704	0.5+	0.8+	1998 09 29	120	0.1+	0.2-	2000 03 04	704	0.9+	1.5-
1998 09 14	704	(0.7-	2.1+)	1998 09 29	120	0.9+	0.2-	2000 03 04	704	0.1+	0.8-
1998 09 18	704	1.2-	0.4-	1998 09 29	120	1.1-	1.0+	2000 03 04	704	0.9-	0.9+
1998 09 18	704	0.2-	0.6-	1998 09 29	120	1.2+	0.5+	2000 03 05	704	1.4+	1.2+
1998 09 18	704	(2.3-	1.0+)	1998 09 29	120	(2.9+	0.1-)	2000 03 05	704	0.7-	0.1-
1998 09 18	704	1.5-	0.8+	1998 09 29	120	1.6+	1.1+	2000 03 05	704	1.6-	1.3-
1998 09 18	704	1.5-	0.3+	2000 02 06	704	0.2+	0.3+	2000 03 11	699	0.4+	0.1-
1998 09 23	120	0.5-	0.0	2000 02 06	704	0.9+	1.0-	2000 03 11	699	0.8-	0.5-
1998 09 23	120	0.0	0.0	2000 02 06	704	0.5+	1.4+	2000 03 11	699	0.7-	0.4+
1998 09 23	120	0.3-	0.2-	2000 02 06	704	0.2+	0.4+	2000 03 11	699	0.5-	0.4+
1998 09 26	704	(2.1+	0.6-)	2000 02 29	704	0.8-	0.2+				

1998 SM₅₁ = 2000 AZ₁₉₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	296.75527		(2000.0)	P	Q
<i>n</i>	0.21666581	ω	354.65160	-0.91688188	+0.38771033
<i>a</i>	2.7454221	Ω	208.74712	-0.35851474	-0.90443874
<i>e</i>	0.0850022	<i>i</i>	11.38176	-0.17548447	-0.17796423
<i>P</i>	4.55	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 27	691	0.1-	0.3-	1998 10 12	691	0.5-	0.4+	2000 01 11	704	0.1-	0.2-
1998 09 27	691	0.2-	0.2-	1998 10 12	691	0.8-	0.5+	2000 01 11	704	0.2-	0.9+
1998 09 27	691	0.4-	0.0	2000 01 08	704	0.3+	0.5-	2000 01 11	704	0.6-	1.3-
1998 10 01	691	0.9+	0.2+	2000 01 08	704	0.4+	0.5-	2000 01 11	704	0.6-	0.2-
1998 10 01	691	0.7+	0.5-	2000 01 08	704	0.7-	0.1-	2000 02 06	704	0.7+	0.6+
1998 10 01	691	1.0+	0.5-	2000 01 08	704	0.7+	0.3-	2000 02 06	704	0.0	0.7+
1998 10 12	691	0.6-	0.5+	2000 01 11	704	0.3+	0.0	2000 02 06	704	0.1-	0.8+

1998 SQ₅₂ = 2000 BG₁₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	284.28411		(2000.0)	P	Q
<i>n</i>	0.26678873	ω	215.48446	-0.84613923	+0.53293260
<i>a</i>	2.3897790	Ω	356.70433	-0.46377904	-0.74143100
<i>e</i>	0.0598463	<i>i</i>	5.58042	-0.26259743	-0.40775349
<i>P</i>	3.69	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	1.1-	1.0+	1998 09 29	691	1.1-	0.3-	2000 01 04	704	0.3-	0.3+
1998 09 14	704	0.2+	1.4+	1998 09 29	691	0.3-	0.2-	2000 01 30	704	0.1+	0.0
1998 09 14	704	0.6+	0.8+	1998 09 29	691	0.5-	0.2-	2000 01 30	704	0.2-	0.1-
1998 09 18	704	0.6+	0.9+	1998 10 01	691	0.8-	0.2+	2000 01 30	704	0.4+	0.9-
1998 09 18	704	1.1+	0.5-	1998 10 01	691	0.2-	0.1-	2000 01 30	704	0.4+	0.1-
1998 09 18	704	0.7-	1.1-	1998 10 01	691	0.1+	0.3-	2000 01 30	704	0.4+	0.0
1998 09 18	704	1.4+	0.2+	1998 10 14	327	0.4-	0.1+	2000 01 31	704	0.2-	1.0+
1998 09 18	704	0.0	0.3-	1998 10 14	327	0.2-	0.1+	2000 01 31	704	0.4+	0.2+
1998 09 26	704	1.0+	1.1+	1998 10 14	327	0.8-	0.2+	2000 01 31	704	0.1-	0.2-
1998 09 26	704	0.6-	0.0	2000 01 03	704	(0.6-	2.2+)	2000 01 31	704	0.6+	0.8-
1998 09 26	704	0.1-	1.2-	2000 01 03	704	0.8-	0.4-	2000 02 07	703	0.3+	0.0
1998 09 26	704	0.5+	0.2-	2000 01 03	704	0.6-	0.5-	2000 02 07	703	0.3-	0.1-
1998 09 26	704	0.4-	0.7-	2000 01 03	704	0.2+	0.2-	2000 02 07	703	0.3-	0.1+
1998 09 27	704	0.6+	0.6-	2000 01 03	704	0.7-	0.3-	2000 02 07	703	0.4+	0.5+
1998 09 27	704	0.1+	0.3+	2000 01 04	704	0.4+	0.2+	2000 02 11	704	0.1+	0.1+
1998 09 27	704	1.0-	1.4+	2000 01 04	704	0.2-	0.0	2000 02 11	704	0.5-	0.9+
1998 09 27	704	1.9+	1.3-	2000 01 04	704	0.1-	0.1-	2000 02 11	704	0.7+	0.8+
1998 09 27	704	0.1-	0.3-	2000 01 04	704	0.1-	0.0				

1998 ST₅₂

Id. J. C. Pelle (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	26.46173		(2000.0)	P	Q
<i>n</i>	0.24465271	ω	265.05649	-0.78785365	-0.61360144
<i>a</i>	2.5318387	Ω	237.08278	+0.58700934	-0.72228848
<i>e</i>	0.1809644	<i>i</i>	3.60101	+0.18629724	-0.31904957
<i>P</i>	4.03	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 30	691	0.5+	0.7-	1998 10 28	704	(2.1-	1.4-)	1998 11 10	704	1.5-	0.2+
1998 09 30	691	0.5+	0.7-	1998 10 28	704	0.2+	0.4+	1998 11 11	704	1.3+	0.5+
1998 09 30	691	0.3+	0.2+	1998 10 28	704	(0.9+	2.2+)	1998 11 11	704	0.1-	0.5-
1998 10 01	691	0.5-	0.5-	1998 10 29	704	0.6-	1.8+	1998 11 11	704	0.5+	1.5-
1998 10 01	691	0.4-	0.4-	1998 10 29	704	0.2+	0.9+	2000 03 11	931	0.5+	0.0
1998 10 01	691	0.5-	0.3-	1998 10 29	704	1.8-	0.1-	2000 03 11	931	0.3+	0.5-
1998 10 20	910	0.9+	0.6+	1998 10 29	704	0.6+	1.1-	2000 03 12	931	0.3-	0.2-
1998 10 20	910	0.9+	0.5+	1998 10 29	704	1.3-	0.3+	2000 03 12	931	0.5-	0.6+
1998 10 20	910	1.0+	0.7+	1998 11 10	704	0.8+	1.2-				
1998 10 28	704	1.2-	1.3+	1998 11 10	704	0.2+	0.7-				

1998 SN₅₃ = 2000 DZ₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	176.83256		(2000.0)	P	Q
<i>n</i>	0.30616383	ω	357.16837	+0.90156533	+0.43108989
<i>a</i>	2.1802191	Ω	337.18488	-0.39506298	+0.78578858
<i>e</i>	0.1417948	<i>i</i>	5.41999	-0.17636665	+0.44350628
<i>P</i>	3.22	<i>H</i>	15.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 08 23	704	1.0+	0.1+	1998 09 27	704	0.5-	0.2+	2000 03 03	704	0.1+	0.0
1998 08 23	704	0.8-	0.7-	1998 09 27	704	0.0	0.9-	2000 03 03	704	0.1+	0.1+
1998 08 23	704	(2.3-	2.0-)	1998 09 27	704	0.4-	0.2+	2000 03 03	704	0.1+	0.2-
1998 08 23	704	0.3+	1.1+	1998 09 27	704	0.7-	1.0+	2000 03 05	704	0.8+	0.3+
1998 08 23	704	(2.3+	0.6+)	1998 10 11	699	0.5+	0.1-	2000 03 05	704	0.6+	0.3+
1998 09 14	704	0.5+	0.5-	1998 10 11	699	0.7+	0.4+	2000 03 05	704	1.1+	0.3-
1998 09 14	704	0.2-	0.5+	1998 10 11	699	0.2-	0.1+	2000 03 05	704	0.6+	0.1+
1998 09 14	704	0.6+	0.6+	2000 02 04	704	0.1+	0.2-	2000 03 05	704	0.5+	0.5-
1998 09 14	704	0.5+	0.4+	2000 02 04	704	1.3-	0.7-	2000 03 06	704	0.1-	0.3+
1998 09 14	704	0.5+	1.1+	2000 02 04	704	0.4+	1.7-	2000 03 06	704	0.1+	0.2-
1998 09 16	699	0.1-	0.0	2000 02 04	704	0.4+	0.0	2000 03 06	704	0.4+	0.6+
1998 09 16	699	0.4+	0.5-	2000 02 11	704	0.8+	0.1-	2000 03 06	704	0.9-	0.9+
1998 09 16	699	0.3+	0.5-	2000 02 11	704	0.5-	0.1+	2000 03 09	704	0.6+	0.4+
1998 09 18	704	0.1+	0.1+	2000 02 11	704	1.8-	0.4+	2000 03 09	704	0.1-	0.7+
1998 09 18	704	0.2-	0.1+	2000 02 11	704	0.4+	0.8-	2000 03 09	704	0.2+	1.4+
1998 09 18	704	0.2-	0.3+	2000 02 11	704	0.2+	0.2-	2000 03 09	704	0.6-	0.1+
1998 09 18	704	0.9-	0.7+	2000 02 25	703	0.2+	0.9+	2000 03 10	691	0.0	0.1-
1998 09 18	704	0.1+	0.9+	2000 02 25	703	0.8-	0.6+	2000 03 10	691	0.1-	0.1-
1998 09 25	699	0.6+	0.6-	2000 02 25	703	0.2-	1.4-	2000 03 10	691	0.1+	0.1-
1998 09 25	699	0.3-	0.5-	2000 02 25	703	1.2-	0.1-	2000 03 11	704	0.1-	0.2-
1998 09 25	699	0.2+	0.3+	2000 02 29	704	0.4+	0.3+	2000 03 11	704	0.3+	0.3+
1998 09 26	704	0.4-	0.3-	2000 02 29	704	0.9-	0.2+	2000 03 11	704	0.1-	0.2-
1998 09 26	704	0.4-	0.7-	2000 02 29	704	0.3-	0.2+	2000 03 11	704	1.0-	1.1+
1998 09 26	704	0.5-	0.8-	2000 02 29	704	0.7+	0.2+	2000 03 11	704	1.1+	0.4-
1998 09 26	704	0.6-	1.2-	2000 02 29	704	0.6+	0.5+	2000 03 12	691	0.0	0.5-
1998 09 26	704	0.6-	0.7-	2000 03 03	704	0.2+	0.2+	2000 03 12	691	0.0	0.5-
1998 09 27	704	0.0	0.8+	2000 03 03	704	0.5-	0.2-	2000 03 12	691	0.1-	0.5-

M.P.C. 39240

2000 MAR. 20

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	89.55206		(2000.0)	P	Q
<i>n</i>	0.17907121	ω	167.43714	+0.99889333	-0.02705325
<i>a</i>	3.1173498	Ω	194.28197	+0.01639693	+0.96700115
<i>e</i>	0.1112516	<i>i</i>	8.97235	+0.04408237	+0.25333158
<i>P</i>	5.50	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 17	704	(3.2+ 1.6-)	1998 09 18	704	0.5- 1.4+	1998 09 27	704	0.2- 0.4-
1998 08 17	704	0.5+ 0.0	1998 09 18	704	(0.0 2.5+)	1998 09 27	704	0.8+ 1.7-
1998 08 17	704	1.0- 0.9-	1998 09 18	704	0.6+ 0.3+	1998 09 27	704	0.3- 0.8-
1998 08 17	704	0.6+ 0.9-	1998 09 18	704	0.5+ 1.2+	1998 09 27	704	0.7+ 0.3+
1998 08 17	704	(2.6- 3.0-)	1998 09 25	699	0.7+ 0.3-	2000 01 07	704	0.0 0.4-
1998 09 14	704	0.1+ 0.5+	1998 09 25	699	0.3+ 0.8-	2000 01 07	704	0.3+ 0.2-
1998 09 14	704	0.7- 1.5+	1998 09 25	699	0.7+ 0.5-	2000 01 07	704	0.1+ 0.2+
1998 09 14	704	1.6- 1.4+	1998 09 26	704	0.3+ 0.6+	2000 01 07	704	0.1+ 0.3+
1998 09 14	704	(1.5- 2.6+)	1998 09 26	704	0.9- 0.4+	2000 01 07	704	0.2+ 0.4+
1998 09 16	699	0.8+ 0.6-	1998 09 26	704	1.7- 0.0	2000 01 11	704	0.4- 0.3-
1998 09 16	699	0.9+ 0.4+	1998 09 26	704	0.1- 0.3+	2000 01 11	704	1.3- 0.4-
1998 09 16	699	0.1+ 0.2-	1998 09 26	704	0.8- 0.6-	2000 01 11	704	0.4- 0.3+
1998 09 18	704	0.1- 0.1-	1998 09 27	704	0.2+ 0.5-	2000 01 11	704	1.3+ 0.2+

1998 SD₅₄ = 2000 AS₁₅₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	115.81738		(2000.0)	P	Q
<i>n</i>	0.22172388	ω	2.10297	+0.99982804	-0.01850710
<i>a</i>	2.7035085	Ω	358.95531	+0.01593759	+0.88988069
<i>e</i>	0.1192603	<i>i</i>	3.68515	+0.00948047	+0.45581778
<i>P</i>	4.45	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 14	704	1.0- 0.2-	1998 09 25	699	0.9- 0.8+	2000 01 03	704	0.9- 1.2-
1998 09 14	704	0.1+ 0.3-	1998 09 26	704	0.2+ 0.1-	2000 01 04	704	0.7- 0.3-
1998 09 14	704	0.5- 0.4-	1998 09 26	704	0.8+ 0.2+	2000 01 04	704	0.7- 0.7-
1998 09 16	699	0.3+ 0.1-	1998 09 26	704	0.4- 0.9-	2000 01 04	704	1.5+ 1.1+
1998 09 16	699	0.6+ 0.1-	1998 09 26	704	0.8+ 0.7-	2000 01 04	704	0.0 1.1+
1998 09 16	699	0.3+ 0.4-	1998 09 26	704	0.1+ 0.7-	2000 01 31	704	0.2+ 0.1+
1998 09 18	704	0.2+ 0.4-	1998 09 27	704	0.1- 0.2+	2000 01 31	704	0.9+ 0.5+
1998 09 18	704	1.0+ 0.9+	1998 09 27	704	0.5- 0.4+	2000 01 31	704	0.1+ 0.1-
1998 09 18	704	0.5+ 0.8+	1998 09 27	704	1.0- 0.3+	2000 02 11	704	0.1- 0.4+
1998 09 18	704	0.5+ 1.4+	1998 09 27	704	0.8- 0.5-	2000 02 11	704	0.2+ 0.4+
1998 09 18	704	0.6+ 0.9+	1998 09 27	704	0.2- 0.7-	2000 02 11	704	0.7+ 0.4+
1998 09 25	699	0.9- 0.3+	2000 01 03	704	(0.8- 2.5-)	2000 02 11	704	0.5- 0.5+
1998 09 25	699	0.1+ 0.3-	2000 01 03	704	0.8- 1.9-			

1998 SY₅₄ = 2000 EJ₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	107.35662		(2000.0)	P	Q
<i>n</i>	0.23516858	ω	18.63959	+0.90336549	-0.42840714
<i>a</i>	2.5994603	Ω	6.82828	+0.36905640	+0.75283089
<i>e</i>	0.2222070	<i>i</i>	9.66117	+0.21846777	+0.49971289
<i>P</i>	4.19	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 08 28	704	0.8+ 0.9-	1998 09 25	699	0.8- 0.3+	2000 02 11	704	1.4+ 0.4+
1998 08 28	704	0.3+ 1.6+	1998 09 26	704	0.5+ 0.0	2000 02 11	704	0.0 0.0
1998 08 28	704	1.9- 0.6-	1998 09 26	704	0.0 0.2-	2000 02 11	704	0.1+ 0.6-
1998 08 28	704	2.0- 0.5+	1998 09 26	704	0.0 0.6-	2000 02 11	704	1.4+ 1.1-
1998 08 28	704	1.0- 1.8+	1998 09 27	704	0.6+ 0.4+	2000 02 29	704	0.1- 0.2-
1998 09 14	704	0.0 0.0	1998 09 27	704	1.1+ 0.1+	2000 02 29	704	0.2+ 1.2-
1998 09 14	704	0.4+ 0.0	1998 09 27	704	1.1+ 0.8+	2000 02 29	704	0.3- 0.1-
1998 09 14	704	0.1- 0.5-	1998 09 27	704	1.1+ 0.5-	2000 02 29	704	0.4- 0.2+
1998 09 16	699	1.1+ 0.9-	1998 09 27	704	0.8+ 0.1-	2000 02 29	704	1.2- 0.1-
1998 09 16	699	0.7+ 0.5-	1998 10 12	691	0.3- 0.2+	2000 03 08	704	0.0 0.7+

1998 09 16	699	0.2- 0.2-	1998 10 12	691	0.2- 0.0	2000 03 08	704	0.7- 0.9+
1998 09 18	704	0.0 0.1+	1998 10 12	691	0.2- 0.0	2000 03 08	704	0.7- 1.6+
1998 09 18	704	1.3- 1.0-	1998 10 16	691	1.0- 0.5-	2000 03 08	704	0.0 0.8+
1998 09 18	704	0.4+ 0.3-	1998 10 16	691	1.1- 0.4-	2000 03 09	704	0.1- 0.4+
1998 09 18	704	0.2- 0.2+	1998 10 16	691	1.0- 0.4-	2000 03 09	704	0.0 0.3+
1998 09 18	704	0.0 0.3+	1998 10 29	327	0.7+ 0.7+	2000 03 09	704	0.1+ 0.9-
1998 09 25	699	0.3+ 0.4+	1998 10 29	327	0.0 0.5+	2000 03 09	704	0.1+ 0.2-
1998 09 25	699	0.2+ 0.1+	1998 10 29	327	0.2+ 0.2+	2000 03 09	704	0.5+ 0.3-

1998 SM₅₅ = 2000 CQ

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	84.51368		(2000.0)	P	Q
<i>n</i>	0.21335885	ω	34.91749	+0.78718694	-0.61670682
<i>a</i>	2.7737178	Ω	3.16365	+0.55240516	+0.70287939
<i>e</i>	0.1732588	<i>i</i>	3.18865	+0.27419931	+0.35444783
<i>P</i>	4.62	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	0.7- 0.1-	1998 09 27	704	0.0 0.6+	2000 02 05	118	0.2- 0.6-
1998 09 14	704	0.3- 0.2-	1998 09 27	704	0.1- 1.9+	2000 02 07	118	0.3- 0.8+
1998 09 14	704	0.7- 0.1-	1998 09 27	704	1.2+ 0.7+	2000 02 07	118	0.7- 0.2+
1998 09 16	699	0.6+ 1.1+	1998 09 27	704	0.9+ 1.5+	2000 02 10	118	0.3+ 0.9+
1998 09 16	699	1.2+ 0.1-	2000 01 30	704	0.9+ 0.4-	2000 02 10	118	0.3- 1.1+
1998 09 16	699	0.6+ 0.0	2000 01 30	704	1.3+ 0.0	2000 02 11	704	0.9+ 0.3+
1998 09 18	704	0.7- 1.5-	2000 01 30	704	0.4- 0.0	2000 02 11	704	0.1+ 0.5+
1998 09 18	704	0.5- 0.7+	2000 02 02	118	0.1- 0.2+	2000 02 11	704	0.3- 0.6-
1998 09 18	704	0.7+ 0.3-	2000 02 02	118	0.1- 0.2-	2000 02 11	704	0.2- 1.5+
1998 09 18	704	0.7- 1.1-	2000 02 02	118	0.1+ 0.3+	2000 02 26	703	0.3+ 0.2+
1998 09 18	704	0.2- 1.1+	2000 02 03	704	0.5+ 1.6-	2000 02 26	703	0.3- 0.2-
1998 09 25	699	0.2- 1.6-	2000 02 03	704	0.1- 0.5-	2000 02 26	703	0.9- 0.3+
1998 09 25	699	0.2- 0.2-	2000 02 03	704	0.4- 1.0-	2000 02 26	703	1.7- 0.6-
1998 09 25	699	0.6- 0.8-	2000 02 03	704	0.9+ 0.5-	2000 02 27	118	0.0 0.5-
1998 09 26	704	0.8+ 1.3-	2000 02 03	704	0.2+ 0.7+	2000 02 27	118	0.7+ 0.7-
1998 09 26	704	1.0+ 0.8-	2000 02 04	118	0.0 0.4-	2000 02 27	118	0.3+ 0.5+
1998 09 26	704	0.3- 0.3+	2000 02 04	118	0.6- 0.2-	2000 03 04	704	0.3+ 0.3-
1998 09 26	704	1.4- 0.4+	2000 02 04	118	1.0- 1.1+	2000 03 04	704	0.0 0.3-
1998 09 27	704	0.3- 0.1-	2000 02 05	118	0.2+ 0.5+	2000 03 04	704	0.6+ 1.0-

1998 SX₅₅ = 2000 DW₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	36.42093		(2000.0)	P	Q
<i>n</i>	0.23680642	ω	112.38580	-0.25549026	-0.96629873
<i>a</i>	2.5874606	Ω	352.21364	+0.77935728	-0.18657104
<i>e</i>	0.1693671	<i>i</i>	13.43952	+0.57212494	-0.17736409
<i>P</i>	4.16	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 09 14	704	0.1- 0.3-	1999 12 15	704	0.8- 1.6-	2000 03 04	704	0.0 0.4+
1998 09 14	704	1.1+ 1.0+	1999 12 15	704	0.4- 0.9-	2000 03 04	704	0.0 0.1+
1998 09 14	704	0.9- 1.0+	1999 12 17	699	1.2- 0.2-	2000 03 04	704	0.4- 0.1-
1998 09 14	704	0.1- 0.3-	1999 12 17	699	1.2- 1.0+	2000 03 04	704	0.1- 0.5+
1998 09 14	704	0.8+ 1.0+	1999 12 17	699	0.3- 0.6+	2000 03 05	704	0.0 0.0
1998 09 16	699	0.8- 1.1+	2000 02 03	704	0.2+ 0.3+	2000 03 05	704	0.1+ 0.4-
1998 09 16	699	0.5- 0.4-	2000 02 03	704	0.0 0.5+	2000 03 05	704	1.1- 0.7+
1998 09 16	699	0.1- 1.2+	2000 02 03	704	0.3+ 0.8+	2000 03 05	704	0.3+ 0.2+
1998 09 18	704	1.2+ 0.6+	2000 02 03	704	0.1+ 0.3+	2000 03 05	704	0.2- 0.1+
1998 09 18	704	0.1+ 0.0	2000 02 03	704	0.3+ 0.4+	2000 03 05	704	0.0 0.1-
1998 09 18	704	0.6- 1.6-	2000 02 06	703	0.5- 0.2-	2000 03 05	704	0.1+ 0.2-
1998 09 18	704	0.4+ 0.4-	2000 02 06	703	0.7- 0.3+	2000 03 05	704	0.7+ 0.0
1998 09 18	704	1.0- 0.7+	2000 02 06	703	0.2+ 0.1+	2000 03 05	704	0.2+ 0.2+
1998 09 25	699	0.5- 0.6+	2000 02 06	703	0.3- 0.7-	2000 03 05	704	0.1+ 0.4-
1998 09 25	699	0.8+ 1.2+	2000 02 11	704	0.4+ 0.3+	2000 03 09	704	0.2+ 0.2-
1998 09 25	699	0.0 0.2-	2000 02 11	704	0.4+ 0.3-	2000 03 09	704	0.1- 0.1-
1998 09 26	704	0.8- 0.2-	2000 02 11	704	0.1+ 0.1+	2000 03 09	704	0.0 0.1-
1998 09 26	704	0.8- 0.1+	2000 02 11	704	0.1- 0.6-	2000 03 09	704	0.0 0.1+

2000 MAR. 20

M.P.C. 39241

1998 09 26	704	1.0+	0.6-	2000 02 11	704	0.2-	0.1-	2000 03 09	704	0.4-	0.1+
1998 09 26	704	0.7-	1.0-	2000 02 25	703	0.9-	1.9+	2000 03 11	699	0.5+	0.1-
1998 09 26	704	0.1+	0.4+	2000 02 25	703	(1.9+	2.4+)	2000 03 11	699	0.2+	0.1+
1998 09 27	704	1.0+	1.5-	2000 02 25	703	0.2-	0.2-	2000 03 11	699	0.1-	0.3-
1998 09 27	704	0.3+	0.5+	2000 02 25	703	0.1-	0.3+	2000 03 11	699	0.2+	0.1+
1998 09 27	704	1.5-	0.2+	2000 02 29	704	0.4+	0.3+	2000 03 12	704	0.1+	0.3-
1998 09 27	704	0.3+	0.4-	2000 02 29	704	0.6+	0.0	2000 03 12	704	0.4+	0.1-
1998 09 27	704	0.5-	0.3-	2000 02 29	704	0.6+	0.0	2000 03 12	704	0.1+	0.2+
1999 12 15	704	0.8+	1.0-	2000 02 29	704	0.8+	0.0	2000 03 12	704	0.0	0.2+
1999 12 15	704	0.3+	0.8-	2000 02 29	704	0.6+	0.2-	2000 03 12	704	0.3+	0.5+

1998 SF₅₆ = 2000 DJ₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	152.06788		(2000.0)		P	Williams	Q
<i>n</i>	0.27403276	ω	156.79237	+0.96714211	+0.25406554		
<i>a</i>	2.3474754	Ω	188.50541	-0.24201857	+0.90881931		
<i>e</i>	0.1968540	<i>i</i>	3.61239	-0.07786624	+0.33090505		
<i>P</i>	3.60	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.1+	0.7-	1998 09 18	704	0.5-	0.3+	1998 09 27	704	0.5-	0.2-
1998 09 14	704	0.1-	0.1+	1998 09 18	704	0.5-	0.5-	1998 09 29	120	0.7-	0.4+
1998 09 14	704	0.1-	0.2+	1998 09 25	699	0.0	0.7+	1998 09 29	120	0.0	0.2+
1998 09 14	704	0.2+	0.2-	1998 09 25	699	0.3-	1.3+	1998 10 13	120	0.3+	0.0
1998 09 14	704	0.9+	0.2-	1998 09 25	699	0.1-	1.1+	1998 10 13	120	0.1+	0.7+
1998 09 14	704	0.5-	0.4-	1998 09 26	704	1.2+	0.2-	2000 02 29	704	0.3+	0.6-
1998 09 14	704	0.5+	0.9+	1998 09 26	704	0.1+	0.2-	2000 02 29	704	1.2+	0.1+
1998 09 14	704	0.8-	0.9+	1998 09 26	704	0.2+	0.5-	2000 02 29	704	0.8+	0.7+
1998 09 16	699	0.5+	0.1-	1998 09 26	704	0.3+	1.3-	2000 02 29	704	0.4-	0.6-
1998 09 16	699	0.8+	0.1-	1998 09 26	704	0.7+	1.3-	2000 03 03	704	0.6-	0.7+
1998 09 16	699	1.5+	0.2-	1998 09 27	704	0.1+	0.1+	2000 03 03	704	0.7-	0.1-
1998 09 18	704	0.9-	0.5-	1998 09 27	704	0.1+	1.3+	2000 03 03	704	0.6-	0.4-
1998 09 18	704	0.7-	0.2-	1998 09 27	704	0.4-	0.6-				
1998 09 18	704	0.9-	0.3-	1998 09 27	704	0.5-	0.6-				

1998 SX₅₆ = 2000 EP₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	107.43110		(2000.0)		P	Williams	Q
<i>n</i>	0.26719030	ω	25.85363	+0.63905112	-0.76884698		
<i>a</i>	2.3873839	Ω	24.44443	+0.69611132	+0.56590091		
<i>e</i>	0.2461968	<i>i</i>	3.06007	+0.32717381	+0.29770871		
<i>P</i>	3.69	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.3-	0.2+	1998 09 18	704	0.5-	0.0	1998 09 27	704	0.4+	0.2-
1998 09 14	704	0.1+	0.1+	1998 09 18	704	0.7+	0.7+	1998 10 17	699	0.5+	0.7+
1998 09 14	704	0.2-	0.3+	1998 09 25	699	0.3+	0.1-	1998 10 17	699	(0.8+	2.2+)
1998 09 17	699	0.1-	0.1+	1998 09 25	699	0.2-	0.1+	1998 10 17	699	0.2+	1.8+
1998 09 17	699	0.4+	0.3+	1998 09 25	699	0.1-	0.2+	1998 12 09	704	0.9+	0.2-
1998 09 17	699	0.1-	0.1-	1998 09 26	704	0.1-	1.2-	1998 12 09	704	0.9-	0.1+
1998 09 18	704	0.2+	0.4-	1998 09 26	704	0.6-	0.1-	1998 12 09	704	1.8+	1.6-
1998 09 18	704	0.1+	0.7-	1998 09 26	704	0.1-	1.3-	1998 12 09	704	1.5-	0.5+
1998 09 18	704	0.6-	0.5-	1998 09 26	704	0.4-	0.7-	2000 03 10	704	0.7-	0.5-
1998 09 18	704	0.1-	0.5+	1998 09 26	704	0.6+	0.1-	2000 03 10	704	0.9+	0.1-
1998 09 18	704	0.0	0.2-	1998 09 27	704	0.5-	0.7+	2000 03 10	704	1.5-	0.3+
1998 09 18	704	1.1+	0.2-	1998 09 27	704	0.2-	0.7+	2000 03 11	704	0.4+	0.0
1998 09 18	704	0.5+	1.4-	1998 09 27	704	0.3-	0.5+	2000 03 11	704	0.1+	0.1+
1998 09 18	704	0.3+	0.4+	1998 09 27	704	0.4-	0.7+	2000 03 11	704	0.4+	0.6-

1998 SS₅₇ = 2000 CH₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	74.15647		(2000.0)		P	Williams	Q
<i>n</i>	0.23437104	ω	351.33408	+0.45060349	-0.89124889		
<i>a</i>	2.6053540	Ω	71.87011	+0.82225982	+0.39197289		
<i>e</i>	0.1520531	<i>i</i>	3.09446	+0.34762807	+0.22810672		
<i>P</i>	4.21	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 17	699	0.5+	0.5+	2000 02 04	704	0.1-	0.0	2000 03 08	704	0.1-	0.4-
1998 09 17	699	0.3+	0.2-	2000 02 04	704	0.4+	1.8-	2000 03 08	704	1.6-	0.1+
1998 09 17	699	0.1+	0.7-	2000 02 04	704	1.9-	0.3-	2000 03 08	704	0.1+	1.1-
1998 09 25	699	0.9+	0.1-	2000 02 04	704	0.1-	0.2+	2000 03 08	704	0.1-	0.0
1998 09 25	699	0.5+	0.6+	2000 02 04	704	0.2+	0.2-	2000 03 09	704	0.5+	0.4+
1998 09 25	699	1.1+	1.1-	2000 02 11	704	0.0	0.9+	2000 03 09	704	0.6+	0.5+
1998 09 26	704	1.1-	0.6-	2000 02 11	704	0.5-	0.6-	2000 03 09	704	0.2-	1.4+
1998 09 26	704	1.2-	0.3+	2000 02 11	704	0.9+	0.3+	2000 03 09	704	1.2+	1.0-
1998 09 26	704	0.1+	0.5+	2000 02 25	703	0.8-	0.1-	2000 03 09	704	1.5+	0.5+
1998 09 27	704	1.1-	0.8-	2000 02 25	703	0.5-	0.3+	2000 03 11	699	0.3+	0.2-
1998 09 27	704	0.4-	0.5+	2000 02 25	703	0.5-	1.0+	2000 03 11	699	0.5-	0.1+
1998 09 27	704	0.3+	0.5+	2000 02 25	703	0.0	0.1+	2000 03 11	699	0.4-	0.1-
1998 09 27	704	0.8-	0.3+	2000 03 05	704	0.5+	0.1+	2000 03 11	699	0.4-	0.5+
1998 09 27	704	0.9+	0.2+	2000 03 05	704	0.1+	0.3-	2000 03 12	704	0.2+	0.3-
2000 02 01	703	0.6-	0.1+	2000 03 05	704	0.3+	0.5+	2000 03 12	704	0.3-	0.5-
2000 02 01	703	0.5+	0.7+	2000 03 05	704	0.1+	0.2-	2000 03 12	704	0.2+	0.0
2000 02 01	703	0.8+	0.4+	2000 03 05	704	1.0+	0.1+	2000 03 12	704	0.2-	0.4-
2000 02 01	703	0.4+	0.4-	2000 03 08	704	0.7-	0.0	2000 03 12	704	0.4-	0.5-

1998 SJ₅₈ = 2000 CZ₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	7.82143		(2000.0)		P	Williams	Q
<i>n</i>	0.26467414	ω	123.49202	-0.80620829	-0.59155013		
<i>a</i>	2.4024906	Ω	20.24637	+0.53295268	-0.73336139		
<i>e</i>	0.1199104	<i>i</i>	1.62783	+0.25688448	-0.33503659		
<i>P</i>	3.72	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 17	699	0.2-	0.7+	2000 02 10	865	1.0-	0.1-	2000 02 29	865	(2.2-	0.2+)
1998 09 17	699	0.5+	0.4+	2000 02 10	865	(2.1+	1.0-)	2000 02 29	704	0.8+	0.0
1998 09 17	699	0.5+	0.3+	2000 02 11	704	1.1+	0.1+	2000 02 29	865	(2.6-	1.0+)
1998 09 25	699	0.7-	0.6+	2000 02 11	704	0.9+	0.0	2000 02 29	704	0.8+	0.3-
1998 09 25	699	0.7+	0.2+	2000 02 11	704	0.7+	0.1-	2000 02 29	865	1.4-	0.3-
1998 09 25	699	0.1+	1.2+	2000 02 11	704	0.9+	0.0	2000 03 01	865	1.8-	0.1-
1998 09 26	704	0.8-	0.2-	2000 02 11	704	0.7+	0.3-	2000 03 01	865	1.0-	0.0
1998 09 26	704	0.5-	0.4-	2000 02 12	865	1.0-	0.7-	2000 03 01	865	1.6-	0.2+
1998 09 26	704	0.5+	1.2-	2000 02 12	865	0.2-	0.1-	2000 03 01	865	1.7-	0.5+
1998 09 26	704	0.4+	1.4-	2000 02 12	865	0.8-	0.3+	2000 03 01	865	0.8-	0.5-
1998 09 27	704	0.9-	1.2-	2000 02 12	865	0.4-	0.6-	2000 03 03	704	0.0	0.1-
1998 09 27	704	0.2+	0.4-	2000 02 12	865	1.6-	0.2-	2000 03 03	704	0.1-	0.3-
1998 09 27	704	1.1-	0.3+	2000 02 12	865	0.6-	0.2+	2000 03 03	704	0.2+	0.4-
1998 09 27	704	0.8+	0.0	2000 02 12	865	0.3-	0.4-	2000 03 03	704	0.3+	0.6-
1998 09 27	704	(2.6-	0.3-)	2000 02 12	865	1.7-	0.1+	2000 03 03	704	0.2-	0.7-
1998 10 14	699	0.5+	0.3+	2000 02 12	865	0.2+	0.2+	2000 03 04	704	0.3+	0.0
1998 10 14	699	0.5+	0.3+	2000 02 12	865	0.9-	0.3-	2000 03 04	704	0.2+	0.1-
1998 10 14	699	0.5+	1.1-	2000 02 12	865	0.6+	0.2-	2000 03 04	704	0.6+	0.1-
1999 11 16	704	0.1+	0.0	2000 02 12	865	0.0	0.1-	2000 03 04	704	0.4+	0.3-
1999 11 16	704	0.1+	0.9+	2000 02 12	865	1.0-	0.5-	2000 03 04	704	0.2+	0.2-
1999 11 16	704	0.6+	0.1+	2000 02 15	865	1.7-	0.1+	2000 03 05	704	0.4+	0.5+
1999 11 16	704	0.1-	0.2-	2000 02 15	865	1.9+	0.4+	2000 03 05	704	0.4+	0.3+
1999 11 16	704	0.3-	0.6+	2000 02 15	865	(0.4-	2.1+)	2000 03 05	704	0.6+	0.2+
2000 02 04	704	1.0+	0.6+	2000 02 25	703	0.3-	0.1+	2000 03 05	704	0.0	0.6+
2000 02 04	704	0.6+	0.5+	2000 02 25	703	0.3-	0.3+	2000 03 05	704	0.5+	0.2+
2000 02 04	704	0.6+	0.1+	2000 02 25	703	0.1-	0.4+	2000 03 11	704	0.1+	0.3-
2000 02 04	704	0.9+	0.0	2000 02 25	703	0.0	0.6+	2000 03 11	704	0.3-	0.5-
2000 02 04	704	0.5+	0.9+	2000 02 29	704	0.7+	0.3+	2000 03 11	704	0.1+	0.3-
2000 02 06	695	0.4+	0.3-	2000 02 29	865	(2.8-	0.5-)	2000 03 11	704	0.3+	0.5-

2000 02 06 695 0.2+ 0.1- 2000 02 29 704 0.7+ 0.1+ 2000 03 11 704 0.5- 0.4-
 2000 02 10 865 0.9+ 0.4+ 2000 02 29 704 0.9+ 0.1+

1998 SV₅₈ = 2000 DJ₁

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	68.46357		(2000.0)	P	Q
<i>n</i>	0.23045817	ω	261.54771	+0.24326140	-0.96991185
<i>a</i>	2.6347615	Ω	174.34498	+0.92428425	+0.22874864
<i>e</i>	0.1715458	<i>i</i>	5.67343	+0.29414709	+0.08333703
<i>P</i>	4.28	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 17	699	0.2+	0.4-	1998 10 29	704	0.4-	1.0+	2000 03 04	704	0.3-	0.1+
1998 09 17	699	0.5-	0.1-	1998 10 29	704	0.3-	0.8-	2000 03 04	704	0.6-	0.1+
1998 09 17	699	0.3+	0.4+	1998 10 29	704	0.1-	0.6+	2000 03 04	704	0.1-	0.2-
1998 09 25	699	0.5-	0.1+	1998 10 29	704	0.0	0.7+	2000 03 04	704	0.2-	0.1-
1998 09 25	699	0.8+	0.9+	2000 02 02	704	0.4+	0.2+	2000 03 04	704	0.1-	0.3-
1998 09 25	699	0.8+	0.1+	2000 02 02	704	0.3+	0.4+	2000 03 05	704	0.6-	0.3+
1998 09 26	704	0.2+	0.2-	2000 02 02	704	0.1+	0.2+	2000 03 05	704	0.8-	0.1+
1998 09 26	704	1.0+	0.1+	2000 02 02	704	0.3-	1.8+	2000 03 05	704	0.6-	0.1+
1998 09 26	704	(2.2- 1.3-)		2000 02 02	704	0.8+	1.7+	2000 03 05	704	0.2-	0.1-
1998 09 26	704	(1.0+ 2.1-)		2000 02 26	684	0.0	0.9-	2000 03 05	704	0.2-	0.1-
1998 09 27	704	0.6+	0.8-	2000 02 26	684	0.0	1.0-	2000 03 05	608	0.4+	0.7-
1998 09 27	704	0.3-	0.9-	2000 02 29	684	0.4-	0.5-	2000 03 05	608	0.2+	0.9-
1998 09 27	704	0.1-	0.2-	2000 02 29	684	0.0	0.6-	2000 03 05	608	(0.2+ 2.1-)	
1998 09 27	704	0.4-	0.2-	2000 02 29	704	0.4+	0.6+	2000 03 11	704	0.4+	0.5+
1998 09 27	704	1.3-	1.5-	2000 02 29	684	0.0	0.6-	2000 03 11	704	0.5+	0.5+
1998 10 17	699	0.6+	0.5-	2000 02 29	704	0.0	0.5+	2000 03 11	704	0.2+	0.5+
1998 10 17	699	0.6+	0.1-	2000 02 29	704	0.2+	0.2-	2000 03 11	704	0.1-	0.5+
1998 10 17	699	0.6+	0.2-	2000 02 29	704	0.5+	0.5+	2000 03 11	704	0.1-	0.3+
1998 10 19	699	0.9-	1.0+	2000 03 02	684	0.1+	0.8-	2000 03 11	699	0.2-	0.6+
1998 10 19	699	0.4+	0.5+	2000 03 02	684	0.3+	0.8-	2000 03 11	699	0.2-	0.2+
1998 10 19	699	0.4-	1.4+	2000 03 02	684	0.0	0.9-	2000 03 11	699	0.4+	0.6+
1998 10 28	704	0.1+	0.2-	2000 03 03	704	0.0	0.1+	2000 03 11	699	0.5-	0.3+
1998 10 28	704	(0.1- 2.9-)		2000 03 03	704	0.0	0.5-	2000 03 12	691	0.2+	0.1-
1998 10 28	704	0.1-	2.0-	2000 03 03	704	0.3+	0.9-	2000 03 12	691	0.1+	0.1-
1998 10 28	704	(1.3+ 2.2-)		2000 03 03	704	0.7-	0.5-	2000 03 12	691	0.2+	0.0
1998 10 29	704	0.6-	0.2-	2000 03 03	704	0.1-	0.4-				

1998 SN₅₉ = 2000 BB₂₈

Id. M. E. Sansaturio, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	267.79348		(2000.0)	P	Q
<i>n</i>	0.27427958	ω	199.11512	-0.49044926	+0.86941460
<i>a</i>	2.3460669	Ω	41.57291	-0.78735749	-0.41264792
<i>e</i>	0.0294298	<i>i</i>	5.17168	-0.37353407	-0.27173509
<i>P</i>	3.59	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	0.1-	0.8-	1998 09 27	704	0.3-	0.6+	2000 01 30	704	0.5-	0.4+
1998 09 14	704	1.1+	1.3-	1998 10 19	699	0.5-	0.1-	2000 01 30	704	0.4-	0.5+
1998 09 14	704	0.8-	0.2-	1998 10 19	699	0.9+	0.3-	2000 01 30	704	0.3-	0.7+
1998 09 17	699	0.3-	0.0	1998 10 19	699	0.2-	0.3+	2000 02 05	704	0.0	0.1+
1998 09 17	699	0.7+	0.3+	1998 10 28	704	0.6-	1.5-	2000 02 05	704	1.1+	0.6+
1998 09 17	699	0.0	0.0	1998 10 28	704	0.6+	0.3-	2000 02 05	704	0.3+	0.2+
1998 09 18	704	0.6+	0.5-	1998 10 28	704	0.9+	0.8+	2000 02 05	704	0.8+	0.0
1998 09 18	704	0.7-	1.0-	1998 10 28	704	1.4-	0.4-	2000 02 11	704	0.6+	0.1-
1998 09 18	704	0.8+	0.1+	1998 10 28	704	0.3-	1.0+	2000 02 11	704	0.2-	0.2+
1998 09 18	704	(3.0- 2.0+)		1998 10 29	704	0.4+	0.7-	2000 02 11	704	0.0	0.1-
1998 09 18	704	0.5+	0.9+	1998 10 29	704	0.0	0.7+	2000 02 11	704	0.6+	0.2+
1998 09 25	699	0.0	0.2+	1998 10 29	704	(1.0- 2.1+)		2000 02 28	704	0.0	0.1-
1998 09 25	699	0.5+	0.4-	1998 10 29	704	0.3+	1.3+	2000 02 28	704	0.1-	0.2-
1998 09 25	699	0.2-	0.9-	1998 10 29	704	1.2+	0.5+	2000 02 28	704	0.1+	0.0
1998 09 26	704	0.8-	0.3+	1999 12 08	704	1.0-	1.4-	2000 02 28	704	0.2-	0.0
1998 09 26	704	0.6-	0.2+	1999 12 08	704	0.0	1.4-	2000 02 28	704	0.3-	0.4+

1998 09 26	704	1.6-	0.4+	1999 12 08	704	0.3-	1.1-	2000 03 04	704	0.0	0.3+
1998 09 26	704	0.4-	0.7+	2000 01 04	704	0.3-	0.2-	2000 03 04	704	0.3+	0.5+
1998 09 26	704	0.4-	0.2+	2000 01 04	704	1.0+	0.7+	2000 03 04	704	0.1+	0.2-
1998 09 27	704	0.5+	0.1+	2000 01 04	704	(1.6- 3.4+)		2000 03 04	704	0.1-	0.1-
1998 09 27	704	0.0	0.2+	2000 01 04	704	(0.3+ 3.2+)		2000 03 04	704	0.3-	0.3-
1998 09 27	704	0.7+	0.3-	2000 01 30	704	0.5-	0.3-				
1998 09 27	704	0.9-	0.6+	2000 01 30	704	0.8-	0.0				

1998 SW₅₉ = 2000 DU₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	122.41289		(2000.0)	P	Q
<i>n</i>	0.24558519	ω	226.81482	+0.95564135	-0.29002560
<i>a</i>	2.5254257	Ω	149.93667	+0.29110875	+0.90358042
<i>e</i>	0.2472444	<i>i</i>	5.88106	+0.04478061	+0.31532138
<i>P</i>	4.01	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 17	699	0.6+	0.6+	1998 09 27	704	1.0-	0.0	2000 02 29	704	1.5-	0.8+
1998 09 17	699	1.0+	0.6+	1998 09 27	704	1.0-	0.5+	2000 02 29	704	0.3+	1.2+
1998 09 17	699	0.6+	1.2+	1998 09 27	704	0.1-	0.7+	2000 03 03	704	0.2+	0.2+
1998 09 25	699	1.7-	0.3+	1998 09 27	704	0.9-	0.6+	2000 03 03	704	1.3+	0.2+
1998 09 25	699	0.2+	0.1-	1998 09 27	704	0.4-	0.0	2000 03 03	704	0.9+	1.0-
1998 09 25	699	0.4-	0.4-	1998 12 08	704	0.5-	0.3+	2000 03 03	704	0.1-	1.3-
1998 09 26	704	0.3+	0.4-	1998 12 08	704	0.2-	1.4-	2000 03 03	704	1.0+	0.9-
1998 09 26	704	0.5+	1.4-	1998 12 08	704	1.5+	0.0	2000 03 11	704	1.0-	1.7+
1998 09 26	704	0.3+	0.8-	1998 12 08	704	(4.8+ 0.5+)		2000 03 11	704	0.4+	0.5-
1998 09 26	704	0.7+	0.5+	2000 02 29	704	0.1-	0.9+	2000 03 11	704	0.4-	0.2-
1998 09 26	704	0.6+	0.1-	2000 02 29	704	1.1-	1.2+	2000 03 11	704	0.6+	0.9-

1998 SL₆₀ = 1998 SX₁₀₃ = 2000 AN₁₇Id. S. Nakano (d, *MPC* 33590), A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	240.61779		(2000.0)	P	Q
<i>n</i>	0.20151939	ω	150.57827	-0.66312024	+0.74659366
<i>a</i>	2.8813200	Ω	77.82820	-0.69701077	-0.58982315
<i>e</i>	0.0146510	<i>i</i>	3.14134	-0.27285076	-0.30774431
<i>P</i>	4.89	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 17	699	(1.8+ 2.8-)		1998 09 27	704	1.0-	0.8+	2000 01 04	704	0.3-	0.3-
1998 09 17	699	1.6+	0.9-	1998 09 27	704	1.6-	0.9+	2000 01 04	704	0.6-	0.3-
1998 09 17	699	1.7+	0.9-	1998 09 27	704	0.7-	1.3+	2000 01 04	704	0.2+	1.3+
1998 09 25	699	0.2+	1.5-	1998 09 27	704	0.3-	1.8+	2000 01 04	704	0.1-	0.3+
1998 09 25	699	0.7+	1.0-	1998 09 27	704	1.1+	0.7+	2000 01 04	704	1.4-	0.4-
1998 09 25	699	1.0+	0.1-	2000 01 03	704	0.4+	0.9+	2000 01 30	704	0.1-	0.7-
1998 09 26	704	0.2+	1.7-	2000 01 03	704	0.4+	0.5+	2000 01 30	704	0.5-	0.6-
1998 09 26	704	0.6-	1.1-	2000 01 03	704	0.2-	0.6-	2000 01 30	704	0.4+	0.3-
1998 09 26	704	1.5-	1.2+	2000 01 03	704	0.0	0.8-	2000 01 30	704	0.6+	0.4+
1998 09 26	704	0.9-	0.5+	2000 01 03	704	0.6+	1.0-	2000 01 30	704	0.8+	1.4+

1998 SC₆₁ = 2000 DY₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	146.67434		(2000.0)	P	Q
<i>n</i>	0.28162957	ω	200.23283	+0.99771609	-0.06475386
<i>a</i>	2.3050687	Ω	163.44492	+0.06743963	+0.93889292
<i>e</i>	0.1341010	<i>i</i>	3.86844	+0.00380808	+0.33806364
<i>P</i>	3.50	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 14	704	0.6-	0.4-	1998 09 25	699	0.2+	0.1+	2000 02 29	704	1.0+	0.4-
1998 09 14	704	0.5-	1.2-	1998 09 26	704	0.2+	0.2-	2000 02 29	704	0.7+	1.1-
1998 09 14											

2000 MAR. 20

M.P.C. 39243

1998 09 18	704	0.2−	0.2−	1998 09 27	704	0.3+	0.9+	2000 03 03	704	1.4−	0.8+
1998 09 18	704	0.3−	0.2+	1998 09 27	704	0.5−	0.6+	2000 03 03	704	0.1+	1.4+
1998 09 18	704	0.1+	0.5+	1998 09 27	704	0.1−	0.1+	2000 03 11	704	0.6+	0.1+
1998 09 18	704	0.6−	0.1+	1998 09 27	704	0.2+	0.5−	2000 03 11	704	0.0	0.6+
1998 09 18	704	0.5+	1.8+	1998 09 27	704	0.9+	0.7−	2000 03 11	704	0.7−	0.6+
1998 09 25	699	0.1+	0.5+	2000 02 29	704	(2.3+	1.5−)	2000 03 11	704	0.5+	0.2+
1998 09 25	699	0.9+	1.1+	2000 02 29	704	0.1−	1.3−				

1998 SV₆₁ = 2000 AD₁₁₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	353.10403		(2000.0)	P	Q
<i>n</i>	0.21770242	ω	255.99120	−0.66391249	−0.74257442
<i>a</i>	2.7367001	Ω	235.95974	+0.72065142	−0.60377481
<i>e</i>	0.0251716	<i>i</i>	6.11961	+0.19970411	−0.28989518
<i>P</i>	4.53	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 17	699	0.7+	0.2−	1998 09 27	704	0.6+	0.3−	2000 01 07	704	0.0	0.3+
1998 09 17	699	0.5−	1.1+	1998 09 27	704	0.6+	0.9+	2000 01 07	704	0.4+	0.1−
1998 09 17	699	0.8+	0.3+	1998 09 27	704	0.1+	0.3−	2000 01 07	704	0.6+	0.4+
1998 09 25	699	0.8−	0.7−	1998 09 27	704	0.5−	0.2+	2000 01 07	704	0.3+	0.4−
1998 09 25	699	0.6−	0.1+	1998 09 27	704	1.0−	0.5+	2000 02 02	704	0.5−	1.2−
1998 09 25	699	0.6+	0.8+	2000 01 05	704	0.5−	0.7+	2000 02 02	704	0.2−	0.3+
1998 09 26	704	(0.1+	2.4−)	2000 01 05	704	0.3+	0.3+	2000 02 02	704	0.2+	0.7−
1998 09 26	704	0.1+	0.6−	2000 01 05	704	0.3−	0.1−	2000 02 02	704	0.7+	0.1+
1998 09 26	704	0.8−	0.1+	2000 01 05	704	0.4+	0.1−	2000 02 02	704	0.1+	1.1+
1998 09 26	704	1.3+	0.9−	2000 01 05	704	0.1−	0.2−				
1998 09 26	704	0.6−	1.0−	2000 01 07	704	1.3−	0.2−				

1998 SS₆₂ = 2000 EZ₉₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	74.54406		(2000.0)	P	Q
<i>n</i>	0.24295911	ω	348.96123	+0.25227770	−0.96719041
<i>a</i>	2.5435909	Ω	86.42132	+0.89007800	+0.21978722
<i>e</i>	0.1220684	<i>i</i>	1.72123	+0.37962759	+0.12742171
<i>P</i>	4.06	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 23	327	0.9−	0.3−	1998 10 02	327	0.3+	0.0	2000 03 11	704	0.4−	0.2−
1998 09 23	327	0.1−	0.6−	1998 10 10	699	0.1+	0.4+	2000 03 11	699	0.6−	0.3+
1998 09 23	327	0.2−	0.4−	1998 10 10	699	0.4−	0.3+	2000 03 11	704	0.0	0.6+
1998 09 26	704	1.2+	0.7+	1998 10 10	699	0.5−	0.3−	2000 03 11	699	0.5−	0.2−
1998 09 26	704	0.5−	0.8+	1998 10 19	699	0.3−	1.3−	2000 03 11	704	0.6+	0.7+
1998 09 26	704	0.1+	1.4−	1998 10 19	699	0.1+	0.3+	2000 03 11	704	0.5+	0.6+
1998 09 26	704	0.7+	0.9−	1998 10 19	699	0.1−	0.7+	2000 03 11	699	0.7−	0.6+
1998 09 27	704	0.7−	0.8+	1999 01 09	910	0.2−	0.2−	2000 03 11	704	0.9+	0.9+
1998 09 27	704	1.6−	1.6+	1999 01 09	910	0.0	0.1+	2000 03 11	699	0.4−	0.1−
1998 09 27	704	0.2−	0.0	1999 01 09	910	0.1+	0.4+	2000 03 12	704	0.8+	0.5−
1998 09 27	704	1.0+	0.3−	2000 02 11	704	0.4+	0.8−	2000 03 12	704	0.2+	0.3−
1998 09 27	704	1.1+	0.5−	2000 02 11	704	0.1+	0.4−	2000 03 12	704	0.3+	0.3−
1998 10 02	327	0.3+	0.0	2000 02 11	704	0.1−	0.1−	2000 03 12	704	0.3−	0.9−
1998 10 02	327	0.6+	0.1+	2000 02 11	704	1.1−	0.4+	2000 03 12	704	0.2+	0.5−

1998 SL₆₃ = 2000 DE₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	159.70622		(2000.0)	P	Q
<i>n</i>	0.29705601	ω	26.47074	+0.98654721	+0.14871767
<i>a</i>	2.2245585	Ω	324.76873	−0.16292085	+0.86021946
<i>e</i>	0.1680993	<i>i</i>	6.75750	−0.01346845	+0.48775561
<i>P</i>	3.32	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 23	704	0.4+	0.5−	1998 09 18	704	0.3−	0.3−	2000 03 03	704	0.7+	0.1+
1998 08 23	704	0.4+	0.6+	1998 09 18	704	0.3−	0.4−	2000 03 03	704	0.6+	0.4−

1998 08 23	704	0.6+	0.6−	1998 09 18	704	0.4+	0.1+	2000 03 03	704	0.4+	1.0−
1998 08 23	704	1.5−	0.9+	1998 09 29	327	0.8+	0.1+	2000 03 03	704	0.5+	0.0
1998 08 23	704	0.1−	0.3−	1998 09 29	327	0.3+	0.0	2000 03 03	704	0.6+	0.4−
1998 09 14	704	0.2−	0.2+	1998 09 29	327	0.4+	0.1−	2000 03 09	704	0.2+	1.0−
1998 09 14	704	0.3−	0.2+	1998 10 01	327	0.4−	0.3−	2000 03 09	704	1.0−	0.2−
1998 09 14	704	0.1+	0.6+	1998 10 01	327	0.3−	0.4−	2000 03 09	704	0.4−	0.2+
1998 09 14	704	0.4−	0.2+	1998 10 01	327	0.2−	0.2−	2000 03 09	704	0.3+	0.4−
1998 09 16	699	0.5+	0.3−	2000 02 29	704	0.6+	0.2+	2000 03 11	704	0.4−	0.0
1998 09 16	699	0.3+	0.2+	2000 02 29	704	0.5+	0.5+	2000 03 11	704	0.4−	0.9+
1998 09 16	699	0.0	0.0	2000 02 29	704	1.3−	0.0	2000 03 11	704	0.0	0.3−
1998 09 18	704	0.3−	0.2+	2000 02 29	704	0.3−	0.6+	2000 03 11	704	0.5+	1.1+
1998 09 18	704	0.1−	0.4+	2000 02 29	704	0.9−	0.6+				

1998 SN₆₃ = 2000 CU₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	94.45345		(2000.0)	P	Q
<i>n</i>	0.23899312	ω	206.30805	+0.74014991	−0.67234301
<i>a</i>	2.5716535	Ω	195.95690	+0.62411264	+0.69323738
<i>e</i>	0.1714192	<i>i</i>	2.40412	+0.25032285	+0.25957042
<i>P</i>	4.12	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 16	699	0.1−	0.3−	1998 10 01	327	0.9−	0.0	2000 02 29	704	0.3+	0.0
1998 09 16	699	1.4−	1.4+	1998 10 01	327	0.7−	0.0	2000 02 29	704	0.2+	0.5−
1998 09 16	699	0.2−	1.3+	1998 10 01	327	0.7−	0.2+	2000 03 03	704	0.2+	0.1+
1998 09 26	704	0.8+	0.3−	1998 10 01	327	0.1−	0.3−	2000 03 03	704	0.4+	0.2+
1998 09 26	704	0.1+	0.1−	1998 10 14	699	0.6+	0.4−	2000 03 03	704	0.1+	0.4+
1998 09 26	704	0.8+	1.0−	1998 10 14	699	0.7−	1.6+	2000 03 03	704	0.2+	0.2+
1998 09 26	704	0.5+	0.6−	1998 10 14	699	0.5−	0.7+	2000 03 03	704	0.6+	0.5+
1998 09 26	704	0.3+	0.2−	1998 10 14	327	0.1−	0.0	2000 03 11	704	0.2−	0.0
1998 09 27	704	0.4+	0.0	1998 10 14	327	0.3−	0.2−	2000 03 11	704	0.6−	0.7−
1998 09 27	704	0.2−	0.2−	1998 10 14	327	0.3+	0.0	2000 03 11	704	0.4+	0.1−
1998 09 27	704	0.5−	0.1−	2000 02 02	704	0.1−	0.8+	2000 03 11	704	0.3−	0.4−
1998 09 27	704	0.2+	1.0−	2000 02 02	704	0.4−	0.1−	2000 03 11	699	0.0	0.7+
1998 09 27	704	0.4+	0.5−	2000 02 02	704	1.2−	0.2+	2000 03 11	704	0.3+	1.2−
1998 09 29	327	1.0+	0.3−	2000 02 06	704	0.5+	0.2+	2000 03 11	699	0.4−	1.5−
1998 09 29	327	0.8+	0.2−	2000 02 06	704	0.1−	1.1+	2000 03 11	699	1.7−	0.3−
1998 09 29	327	0.8+	0.5−	2000 02 06	704	1.7+	0.0	2000 03 11	699	0.1−	0.6+
1998 10 01	327	0.2−	0.0	2000 02 29	704	0.1−	0.5−				
1998 10 01	327	0.6−	0.3+	2000 02 29	704	0.1+	0.6−				

1998 SS₆₃ = 2000 DM₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	97.50974		(2000.0)	P	Q
<i>n</i>	0.23242325	ω	50.03087	+0.78042706	−0.62450778
<i>a</i>	2.6198896	Ω	348.50543	+0.51704766	+0.67194147
<i>e</i>	0.2093650	<i>i</i>	8.77235	+0.35156126	+0.39810135
<i>P</i>	4.24	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.2−	0.4−	2000 02 04	704	0.1−	0.4+	2000 03 05	704	0.0	0.8−
1998 09 26	704	0.3−	0.3+	2000 02 04	704	0.6−	0.5−	2000 03 05	704	0.2+	0.1−
1998 09 26	704	1.7−	1.8+	2000 02 04	704	(2.3−	2.3−)	2000 03 05	704	0.1+	0.2+
1998 09 26	704	0.7−	0.2+	2000 02 11	704	0.3+	0.3−	2000 03 05	704	0.1+	0.3+
1998 09 26	704	0.4−	0.1+	2000 02 11	704	0.1+	0.2−	2000 03 06	704	0.2+	0.1+
1998 09 27	704	1.0+	0.1−	2000 02 11	704	0.2−	0.7−	2000 03 06	704	0.1−	0.0
1998 09 27	704	1.2+	0.3−	2000 02 11	704	0.1−	0.3+	2000 03 06	704	0.7+	0.4−
1998 09 27	704	0.4+	0.1−	2000 02 29	704	0.5+	0.4+	2000 03 08	704	0.3+	0.3+
1998 09 27	704	0.8+	0.6−	2000 02 29	704	0.1−	0.3−	2000 03 08	704	0.5+	0.5−
1998 09 27	704	0.8+	1.4−	2000 02 29	704	0.3+	0.1+	2000 03 08	704	0.4+	1.0+
1998 09 30	327	0.1−	0.1+	2000 02 29	704	0.3+	0.2−	2000 03 08	704	0.8+	0.4−
1998 09 30	327	0.2+	0.2+	2000 02 29	704	0.4−	0.3−	2000 03 08	704	0.5+	0.5+
1998 09 30	327	0.4−	0.3+	2000 03 03	704	0.1+	0.1−	2000 03 11	704	0.2−	1.5+
1998 10 01	327	0.4−	0.2+	2000 03 03	704	0.8−	0.2−	2000 03 11	704	0.7−	1.3+
1998 10 01	327	0.6−	0.6+	2000 03 03	704	0.0	0.1+	2000 03 11	704	0.1−	0.3−
1998 10 01	327	0.1−	0.8+	2000 03 03	704	0.1−	0.3+	2000 03 11	699	0.6−	0.1−

1998 10 14	327	0.2−	0.2−	2000 03 03	704	0.1+	0.3+	2000 03 11	704	0.4−	1.1−
1998 10 14	327	0.1+	0.4−	2000 03 04	704	0.5+	0.1−	2000 03 11	699	0.1−	0.1−
1998 10 14	327	0.4+	0.1+	2000 03 04	704	0.1−	0.3+	2000 03 11	699	0.7−	0.0
1998 10 17	327	0.1+	0.1−	2000 03 04	704	0.0	0.1−	2000 03 11	699	0.3−	0.3−
1998 10 17	327	0.2−	0.4−	2000 03 04	704	0.0	0.1−				
1998 10 17	327	0.1+	0.3−	2000 03 05	704	0.2+	0.2+				

1998 SH₆₄ = 1998 UE₃₈ = 1994 XJ₅ = 2000 EN₈₂Id. A. Doppler (d, *MPC* 33785; unpublished), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	104.98114		(2000.0)	P	Q
<i>n</i>	0.23260295	ω	333.96033	+0.74241644	−0.66275071
<i>a</i>	2.6185402	Ω	67.90701	+0.63162781	+0.64375504
<i>e</i>	0.1915548	<i>i</i>	6.06346	+0.22330278	+0.38254534
<i>P</i>	4.24	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1994 12 04	098	0.4+	1.0+	1998 10 28	704	0.2+	0.7−	1998 12 09	699	0.3+	0.3+
1994 12 04	098	0.7−	0.0	1998 10 28	704	0.4−	0.6−	2000 02 11	704	1.1+	0.0
1994 12 04	098	(9.6+	0.9+)	1998 10 29	704	0.2−	0.4−	2000 02 11	704	0.4−	0.0
1998 09 20	809	1.7+	1.6+	1998 10 29	704	0.6+	0.2−	2000 02 11	704	0.1−	0.1−
1998 09 20	809	1.6+	1.7+	1998 10 29	704	0.8−	0.4−	2000 02 11	704	0.3−	0.6+
1998 09 20	809	0.6+	1.3+	1998 10 29	704	0.2+	0.0	2000 03 05	704	0.2−	0.0
1998 09 21	809	(2.4+	2.2+)	1998 10 29	704	0.1−	0.3−	2000 03 05	704	0.2−	0.6+
1998 09 21	809	0.8+	1.7+	1998 11 11	704	0.4−	0.2+	2000 03 05	704	0.8−	0.2−
1998 09 21	809	(1.1+	2.7+)	1998 11 11	704	(2.3−	1.7−)	2000 03 05	704	0.5−	0.6−
1998 10 01	910	0.3−	0.4−	1998 11 11	704	1.6−	1.0−	2000 03 05	704	0.2−	0.9−
1998 10 01	910	0.0	0.4−	1998 11 11	704	0.6−	0.6−	2000 03 12	704	0.1−	0.0
1998 10 01	910	0.3−	0.3−	1998 11 11	704	0.6−	0.8−	2000 03 12	704	0.1+	0.1+
1998 10 11	699	1.0−	0.9−	1998 11 14	699	0.3+	0.6+	2000 03 12	704	0.2−	0.4−
1998 10 11	699	0.4−	1.2−	1998 11 14	699	1.0+	1.5+	2000 03 12	704	1.2+	0.8−
1998 10 11	699	1.1−	0.5−	1998 11 14	699	0.8+	0.0	2000 03 12	704	0.3+	1.2+
1998 10 28	704	0.4−	0.5−	1998 12 09	699	(2.5+	1.5+)				
1998 10 28	704	0.1−	1.0−	1998 12 09	699	1.5+	1.0+				

1998 SL₆₅ = 2000 EN₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	136.48993		(2000.0)	P	Q
<i>n</i>	0.26121706	ω	253.53521	+0.93871759	−0.33984962
<i>a</i>	2.4236414	Ω	126.29698	+0.33717853	+0.87072328
<i>e</i>	0.0353170	<i>i</i>	4.09443	+0.07155370	+0.35544789
<i>P</i>	3.77	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 09 18	699	0.6−	0.1−	1998 11 11	704	0.4+	0.4−	2000 02 11	704	0.8−	1.1+
1998 09 18	699	1.3−	0.8+	1998 11 11	704	0.2−	0.4−	2000 02 11	704	0.1−	1.1+
1998 09 18	699	1.4−	0.3+	1998 11 11	704	0.4+	0.8−	2000 03 02	703	0.3−	0.3+
1998 09 20	809	1.3+	0.9+	1998 11 16	566	0.2−	0.7−	2000 03 02	703	0.0	1.1+
1998 09 20	809	0.5+	0.9+	1998 11 16	566	0.2−	0.6−	2000 03 02	703	0.2−	0.4+
1998 09 20	809	0.0	0.5+	1998 11 16	566	0.1−	0.7−	2000 03 02	703	0.1+	0.6+
1998 09 21	809	0.7+	0.6+	1999 01 11	704	0.8−	0.2−	2000 03 05	704	0.2+	0.0
1998 09 21	809	0.3+	1.1+	1999 01 11	704	0.0	0.7+	2000 03 05	704	0.3+	0.2−
1998 09 21	809	0.3−	1.3+	1999 01 11	704	0.8+	0.5+	2000 03 05	704	0.2+	0.1−
1998 10 11	699	0.2+	0.3−	1999 01 11	704	(3.2−	1.4−)	2000 03 05	704	0.5+	0.3+
1998 10 11	699	0.1−	0.6−	2000 02 04	704	1.3+	1.0−	2000 03 05	704	0.3+	0.2−
1998 10 11	699	0.3+	0.4−	2000 02 04	704	0.5+	0.1−	2000 03 12	704	0.1+	0.3−
1998 11 10	704	0.5+	0.3−	2000 02 04	704	0.4−	0.2−	2000 03 12	704	0.0	0.5−
1998 11 10	704	0.4−	0.6−	2000 02 04	704	0.4−	0.5−	2000 03 12	704	0.2+	0.1+
1998 11 10	704	0.1−	0.2−	2000 02 04	704	0.6−	0.6+	2000 03 12	704	0.5+	0.8−
1998 11 10	704	0.3+	0.4−	2000 02 11	704	0.5−	0.4+	2000 03 12	704	0.2+	1.0−
1998 11 11	704	0.1−	0.7+	2000 02 11	704	0.4−	0.1−				
1998 11 11	704	0.4−	0.3−	2000 02 11	704	0.2−	0.3+				

1998 SC₆₆ = 2000 EH₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	169.92224		(2000.0)	P	Q
<i>n</i>	0.26889710	ω	200.92515	+0.89478529	+0.44461861
<i>a</i>	2.3772707	Ω	132.60790	−0.40135118	+0.84107689
<i>e</i>	0.2066221	<i>i</i>	3.18631	−0.19564382	+0.30806487
<i>P</i>	3.67	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 20	809	(2.6+	4.2+)	1998 11 10	704	0.8+	0.6−	2000 03 03	704	1.5+	0.1−
1998 09 20	809	(2.2+	3.8+)	1998 11 11	704	0.0	0.6+	2000 03 03	704	0.1+	1.0−
1998 09 20	809	(1.7+	3.8+)	1998 11 11	704	0.2−	1.1−	2000 03 03	704	1.7−	0.4−
1998 09 21	809	(2.6+	3.4+)	1998 11 11	704	0.7+	1.7−	2000 03 03	704	0.2−	0.2+
1998 09 21	809	(2.0+	3.6+)	1998 11 11	704	0.9+	0.2+	2000 03 03	704	0.1−	1.1−
1998 09 21	809	(0.7+	3.3+)	1998 11 11	704	1.4+	1.4−	2000 03 05	704	0.3−	1.0−
1998 10 11	699	0.3+	0.5+	1998 11 14	699	1.0+	1.3+	2000 03 05	704	0.2−	0.9+
1998 10 11	699	0.1+	0.7+	1998 11 14	699	0.1−	0.8+	2000 03 05	704	0.7−	0.6+
1998 10 11	699	0.0	0.8+	1998 11 14	699	0.3−	0.3+	2000 03 09	704	0.2−	0.2−
1998 10 28	704	0.4+	0.7+	2000 02 06	704	0.2−	1.2−	2000 03 09	704	0.0	0.0
1998 10 28	704	0.1−	0.5+	2000 02 06	704	0.6+	0.6+	2000 03 09	704	0.7+	0.7+
1998 10 28	704	0.3−	0.1−	2000 02 06	704	0.6+	0.2−	2000 03 09	704	0.7+	0.1+
1998 10 28	704	0.1−	1.2−	2000 02 06	704	0.0	0.5+	2000 03 09	704	1.0+	0.4+
1998 10 29	704	0.6−	0.6+	2000 02 06	704	0.1+	0.3+	2000 03 11	704	0.3+	0.6+
1998 10 29	704	0.7−	0.1+	2000 02 11	704	(0.7+	2.2+)	2000 03 11	691	0.4+	0.1−
1998 10 29	704	0.8−	1.0+	2000 02 11	704	0.7+	0.0	2000 03 11	704	0.4+	0.1+
1998 10 29	704	1.2−	0.1+	2000 02 11	704	0.1+	1.0+	2000 03 11	691	0.4+	0.1−
1998 10 29	704	1.2−	0.6+	2000 02 11	704	0.2+	0.6−	2000 03 11	704	0.2−	0.7+
1998 11 10	704	0.2+	0.3−	2000 02 27	703	1.4−	1.0+	2000 03 11	704	0.4−	0.0
1998 11 10	704	0.5−	0.8−	2000 02 27	703	0.0	0.4−	2000 03 11	691	0.2+	0.1+
1998 11 10	704	0.2+	0.4−	2000 02 27	703	0.7−	0.3+				
1998 11 10	704	0.4+	1.1−	2000 02 27	703	0.8−	0.8−				

1998 SB₆₇

Id. F. B. Zoltowski (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	138.67081		(2000.0)	P	Q
<i>n</i>	0.24233797	ω	284.29789	+0.99561020	−0.05718136
<i>a</i>	2.5479353	Ω	79.01984	+0.08267494	+0.90840627
<i>e</i>	0.1532234	<i>i</i>	4.32884	−0.04387699	+0.41415981
<i>P</i>	4.07	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 18	699	1.0−	0.3−	1998 10 28	704	0.6+	0.4+	1998 11 10	704	0.1−	1.0+
1998 09 18	699	(2.1−	0.5−)	1998 10 28	704	0.9+	0.9−	1998 11 11	704	0.3−	0.0
1998 09 18	699	1.3−	0.1−	1998 10 28	704	0.3+	0.1−	1998 11 11	704	0.2−	0.1−
1998 09 20	809	(2.6+	0.3−)	1998 10 28	704	0.3−	0.5−	1998 11 11	704	1.4−	1.1+
1998 09 20	809	1.0+	0.3+	1998 10 29	704	0.8+	1.3−	1998 11 11	704	0.6−	0.5+
1998 09 20	809	1.4+	0.4−	1998 10 29	704	0.5−	0.4+	1998 11 11	704	1.1+	0.9−
1998 09 21	809	1.0+	0.3−	1998 10 29	704	0.3−	0.4−	2000 02 27	858	0.4+	0.5+
1998 09 21	809	0.5−	1.1+	1998 10 29	704	0.6+	0.0	2000 02 27	858	0.3+	0.6+
1998 09 21	809	0.5−	0.4+	1998 10 29	704	0.1−	0.6−	2000 02 27	858	0.5−	0.7−
1998 10 11	699	0.8−	0.1+	1998 11 10	704	0.6+	0.5−	2000 03 01	858	0.2+	0.2+
1998 10 11	699	0.3−	0.2+	1998 11 10	704	0.2−	0.8+	2000 03 01	858	0.8−	0.4−
1998 10 11	699	0.3+	0.1+	1998 11 10	704	0.0	0.2−	2000 03 01	858	0.4+	0.1−

1998 ST₆₇ = 2000 DM₉₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	242.10522		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.28530730	ω	182.16096	+0.17448742	+0.98030000
a	2.2852171	Ω	97.89737	-0.90200006	+0.19682939
e	0.0707223	i	5.36149	-0.39490508	-0.01643458
P	3.45	H	15.2	G 0.15	U 4

2000 MAR. 20

M.P.C. 39245

Residuals in seconds of arc

1998 09 20	809	1.1−	0.3+	1998 10 29	704	0.4−	0.3−	2000 02 29	704	0.1−	0.2+
1998 09 20	809	1.0−	0.9+	1998 10 29	704	0.9+	0.3−	2000 02 29	704	0.0	0.3−
1998 09 20	809	(2.4−	0.2−)	1998 10 29	704	0.4−	1.0−	2000 03 05	704	0.6−	0.7−
1998 09 21	809	1.0+	0.4+	2000 02 06	703	0.2+	1.1−	2000 03 05	704	0.6−	0.7+
1998 09 21	809	0.6−	0.7+	2000 02 06	703	1.2+	0.8+	2000 03 05	704	1.4−	0.6+
1998 09 21	809	2.0−	0.6+	2000 02 06	703	0.9+	0.1+	2000 03 05	704	0.5−	0.0
1998 10 20	699	1.5+	1.5+	2000 02 06	703	1.5+	0.1+	2000 03 11	699	0.2+	0.3+
1998 10 20	699	0.0	0.1+	2000 02 11	704	0.4−	1.2+	2000 03 11	699	0.3−	0.4−
1998 10 20	699	0.9+	0.3+	2000 02 11	704	0.2+	0.4−	2000 03 11	699	0.2−	0.4−
1998 10 28	704	1.5+	0.6−	2000 02 11	704	0.1+	0.0	2000 03 11	699	0.3−	0.2−
1998 10 28	704	0.4+	1.4−	2000 02 11	704	0.2−	0.3−	2000 03 12	704	0.0	0.2−
1998 10 28	704	(0.7−	2.2−)	2000 02 11	704	0.3+	0.5+	2000 03 12	704	0.5+	0.2−
1998 10 28	704	0.9−	0.0	2000 02 29	704	0.3−	0.1+	2000 03 12	704	0.1+	0.0
1998 10 29	704	0.4−	0.4−	2000 02 29	704	0.3+	0.1−	2000 03 12	704	0.2+	0.8+
1998 10 29	704	0.0	0.3−	2000 02 29	704	0.2+	0.1−	2000 03 12	704	0.5−	0.3−

1998 SY₇₀ = 2000 AC₁₇₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	328.17953		(2000.0)	P	Q		
n	0.18686125	ω	330.25766	−0.87811058	−0.47844633		
a	3.0300972	Ω	181.17356	+0.46462988	−0.85106355		
e	0.0247289	i	9.28526	+0.11419669	−0.21628671		
P	5.27	H	13.7	G	0.15	U	4

Residuals in seconds of arc

1998 09 21	809	(0.7+	2.3+)	1998 09 27	704	0.6+	0.4−	2000 01 07	704	0.6+	0.3+
1998 09 21	809	0.2+	0.3+	1998 09 27	704	0.4+	0.6−	2000 01 07	704	0.3+	0.2−
1998 09 21	809	0.3+	1.2+	1998 09 27	704	0.1+	0.0	2000 01 07	704	0.6+	0.5−
1998 09 23	809	(1.9+	3.2+)	1998 09 27	704	0.5−	0.5+	2000 01 07	704	0.4−	0.6−
1998 09 23	809	(1.4+	3.3+)	1998 10 20	699	1.1−	1.3+	2000 01 07	704	0.2+	0.0
1998 09 23	809	(1.3+	2.9+)	1998 10 20	699	0.1+	0.8+	2000 01 11	704	0.8−	0.3+
1998 09 26	704	0.2+	0.8−	1998 10 20	699	0.1−	1.1+	2000 01 11	704	0.0	0.3−
1998 09 26	704	0.5+	0.5−	1998 11 10	704	0.1−	0.8−	2000 01 11	704	0.5−	0.4+
1998 09 26	704	0.3−	1.6−	1998 11 10	704	0.9+	0.2−	2000 01 11	704	0.1+	0.6+
1998 09 26	704	1.1−	0.3+	1998 11 10	704	0.0	1.0−				
1998 09 26	704	(1.9−	2.4−)	1998 11 10	704	(5.5−	0.2−)				

1998 SA₇₁ = 2000 EB₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	46.50715		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.24068772	ω	288.67648	-0.37785398	-0.92580713
a	2.5595686	Ω	183.57525	$+0.89974295$	-0.36452843
e	0.1311374	i	9.57253	$+0.21837809$	-0.10000094
P	4.09	H	14.0	G	0.15
				U	2

Residuals in seconds of arc

1996 03 19	566	0.2−	0.7−	1998 10 28	704	0.0	0.2−	2000 01 05	704	0.2−	0.4−
1996 03 19	566	0.1+	0.5−	1998 10 28	704	(2.5+	0.3−)	2000 02 08	704	0.8−	0.3−
1996 03 19	566	0.3−	0.3−	1998 10 28	704	0.8−	1.6−	2000 02 08	704	0.5+	0.9+
1998 09 21	809	0.3+	1.7+	1998 10 28	704	0.4−	0.9−	2000 02 08	704	0.1+	0.1−
1998 09 21	809	0.3+	1.3+	1998 10 29	704	0.0	1.1−	2000 02 08	704	0.2−	0.3+
1998 09 21	809	0.6−	1.7+	1998 10 29	704	0.3−	0.7−	2000 02 29	704	0.3+	0.7+
1998 09 23	809	(2.3−	4.0+)	1998 10 29	704	0.1−	0.3−	2000 02 29	704	0.6−	0.5+
1998 09 23	809	(2.5−	4.1+)	1998 10 29	704	0.7−	0.7−	2000 02 29	704	0.2+	0.1+
1998 09 23	809	(3.1−	4.5+)	1998 10 29	704	0.7−	2.0−	2000 03 01	703	0.2−	0.3+
1998 09 26	704	0.5+	0.2+	1998 11 10	704	0.1−	0.2+	2000 03 01	703	0.4+	0.2+
1998 09 26	704	0.3−	0.1+	1998 11 10	704	0.7−	1.6+	2000 03 01	703	0.2−	0.4+
1998 09 26	704	1.2+	1.0−	1998 11 10	704	0.5+	0.6−	2000 03 01	703	0.1−	0.5+
1998 09 26	704	1.6+	0.9−	1998 11 10	704	0.6−	0.1+	2000 03 08	704	0.5+	0.2−
1998 09 26	704	1.1+	0.4−	1998 11 10	704	0.5+	0.3−	2000 03 08	704	0.2−	0.3+
1998 09 27	704	0.1−	0.0	1998 11 11	704	0.5−	0.7−	2000 03 08	704	0.5+	0.6+
1998 09 27	704	0.0	0.1−	1998 11 11	704	0.3+	0.8+	2000 03 08	704	0.0	0.3−
1998 09 27	704	0.1+	0.2−	1998 11 11	704	0.1+	0.2−	2000 03 08	704	0.3+	0.3+
1998 09 27	704	0.7−	0.4−	1998 11 11	704	1.9−	0.9−	2000 03 11	704	0.0	0.2−

1998 09 27	704	0.8−	0.2+	1998 11 11	704	0.7+	0.5+	2000 03 11	704	0.1−	0.3+
1998 10 11	699	0.7+	0.4+	1998 11 14	699	1.4+	1.6+	2000 03 11	704	0.4+	0.2+
1998 10 11	699	0.7+	0.4+	1998 11 14	699	1.3+	1.3+	2000 03 11	704	0.3+	0.3+
1998 10 11	699	0.5−	1.0−	1998 11 14	699	0.7−	0.5−	2000 03 11	704	0.3+	0.6+
1998 10 20	699	0.3−	0.2−	2000 01 05	704	0.4−	0.3+	2000 03 12	049	0.2−	1.2−
1998 10 20	699	0.4−	1.3+	2000 01 05	704	0.3+	0.5+	2000 03 12	049	0.3−	1.0−
1998 10 20	699	0.7+	1.3+	2000 01 05	704	0.4−	0.6−	2000 03 12	049	0.3−	1.5−

1998 SH₇₁ = 1979 OF₆ = 2000 ES₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	116.46658		(2000.0)	P	Q
n	0.26621050	ω	262.48637	+0.68513747	−0.72781608
a	2.3932382	Ω	144.20911	+0.68662371	+0.63177870
e	0.1679937	i	2.89162	+0.24317594	+0.26671977
P	3.70	H	14.9	G 0.15	U 3

Residuals in seconds of arc

1979 07 24	675	0.1+	0.7−	1998 10 02	704	0.8+	0.5+	1998 11 11	704	0.1−	2.0−
1979 07 25	675	(7.6+	2.1+)	1998 10 02	704	0.9+	1.5+	1998 11 11	704	2.2−	1.4−
1998 09 21	809	(1.0+	2.9+)	1998 10 02	704	1.6+	1.1+	1998 11 14	699	1.3+	1.1+
1998 09 21	809	(0.8−	3.1+)	1998 10 02	704	0.6+	0.3+	1998 11 14	699	1.3+	0.6+
1998 09 21	809	(0.5−	2.8+)	1998 10 11	699	0.7−	0.1+	1998 11 14	699	0.9+	0.4+
1998 09 23	809	(1.6+	4.1+)	1998 10 11	699	0.4−	0.1+	2000 03 08	704	0.2+	0.9−
1998 09 23	809	(1.6+	3.5+)	1998 10 11	699	0.6−	0.0	2000 03 08	704	0.6+	0.9−
1998 09 23	809	(1.0+	3.9+)	1998 10 20	699	0.3−	1.2+	2000 03 08	704	0.1−	0.1−
1998 09 26	704	0.2−	0.0	1998 10 20	699	0.4−	0.1+	2000 03 08	704	0.8+	0.6−
1998 09 26	704	0.1−	0.9−	1998 10 20	699	0.0	0.7+	2000 03 10	704	0.3−	0.0
1998 09 26	704	0.5+	0.2−	1998 11 10	704	0.4+	0.0	2000 03 10	704	0.6−	0.1−
1998 09 26	704	0.6−	1.4−	1998 11 10	704	0.2−	0.5+	2000 03 10	704	1.0−	0.5−
1998 09 26	704	0.2+	0.4−	1998 11 10	704	0.6+	0.4−	2000 03 10	704	0.6−	0.1+
1998 09 27	704	0.4−	0.2−	1998 11 10	704	0.1−	0.6−	2000 03 10	704	0.2−	0.1+
1998 09 27	704	0.0	0.5+	1998 11 10	704	0.3−	0.6−	2000 03 11	704	0.2+	1.0+
1998 09 27	704	0.2−	0.1+	1998 11 11	704	0.4−	0.2−	2000 03 11	704	0.3+	0.0
1998 09 27	704	0.4−	0.8−	1998 11 11	704	1.2−	0.2−	2000 03 11	704	0.1−	0.2+
1998 09 27	704	0.1+	0.4−	1998 11 11	704	0.0	0.5−	2000 03 11	704	0.2+	0.4+

1998 SP₇₁ = 2000 BJ₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	86.09421		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.22609254	ω	307.58829	+0.59026143	−0.80676370
a	2.6685698	Ω	106.21495	+0.74915376	+0.53509156
e	0.0496781	i	1.60550	+0.30059954	+0.25061795
P	4.36	H	14.7	G 0.15	U 4

Residuals in seconds of arc

1998 09 21	809	0.3−	1.5+	2000 01 07	704	0.5+	0.7−	2000 02 29	704	0.0	0.3−
1998 09 21	809	1.3−	1.6+	2000 01 28	691	0.2−	0.3−	2000 02 29	704	0.2−	0.1+
1998 09 21	809	1.4−	1.5+	2000 01 28	691	0.2−	0.1−	2000 03 02	691	0.0	0.5−
1998 09 23	809	1.3+	1.4+	2000 01 28	691	0.2−	0.0	2000 03 02	691	0.1−	0.7−
1998 09 23	809	0.6+	0.3+	2000 01 30	703	0.2−	0.8−	2000 03 02	691	0.1+	0.5−
1998 09 23	809	1.0+	1.7+	2000 01 30	703	(1.3−	2.1−)	2000 03 03	704	0.4+	0.5+
1998 10 28	704	0.6−	0.4−	2000 01 30	703	0.9+	0.7+	2000 03 03	704	1.1+	0.5−
1998 10 28	704	0.2+	0.2−	2000 01 30	703	0.8−	0.3+	2000 03 03	704	0.0	0.7+
1998 10 28	704	0.3−	0.3−	2000 02 03	704	0.9−	0.9+	2000 03 03	704	1.0+	0.9+
1998 10 28	704	0.3−	0.5−	2000 02 03	704	1.2−	0.1+	2000 03 03	704	0.7+	0.7+
1998 10 29	704	0.8−	0.3−	2000 02 03	704	0.9−	0.8+	2000 03 04	704	0.7+	1.0−
1998 10 29	704	(0.7−	3.7−)	2000 02 03	704	0.9−	0.7+	2000 03 04	704	0.4−	1.0−
1998 10 29	704	1.2−	0.2+	2000 02 11	704	0.3−	0.9+	2000 03 04	704	1.0+	0.1+
1998 10 29	704	(0.5−	2.1−)	2000 02 11	704	0.1+	0.9−	2000 03 04	704	0.5+	0.7+
1998 11 10	704	1.6+	1.6−	2000 02 11	704	0.9−	0.4+	2000 03 05	704	0.0	0.3−
1998 11 10	704	(3.5+	2.5−)	2000 02 11	704	0.9−	0.5+	2000 03 05	704	0.1+	0.0
1998 11 10	704	1.1+	0.9+	2000 02 11	704	0.2+	1.0+	2000 03 05	704	0.5+	0.3+
1998 11 11	704	0.4+	0.2−	2000 02 27	703	0.1−	0.5−	2000 03 05	704	0.0	0.5+
1998 11 11	704	0.9−	0.9−	2000 02 27	703	0.5+	0.8−	2000 03 05	704	0.7−	0.1+
1998 11 11	704	0.0	1.6−	2000 02 27	703	0.1−	0.5−	2000 03 05	704	0.7+	0.2−
1998 11 11	704	0.8+	2.0−	2000 02 27	703	1.0+	1.7+	2000 03 05	704	0.9−	0.3+

M.P.C. 39246

2000 MAR. 20

2000 01 07	704	0.2+	0.8−	2000 02 29	704	0.0	0.2+	2000 03 05	704	0.5−	0.3−
2000 01 07	704	0.6+	0.1+	2000 02 29	704	0.1+	0.7−	2000 03 05	704	0.1−	0.3+
2000 01 07	704	1.2+	0.4−	2000 02 29	704	0.3−	0.2−				

1998 SL₇₂ = 2000 CF₃₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	1.26789		(2000.0)	P		Q	
<i>n</i>	0.23312186	<i>ω</i>	356.75805	−0.88881362		−0.45759265	
<i>a</i>	2.6146530	<i>Ω</i>	155.96111	+0.42181578		−0.83813041	
<i>e</i>	0.1271246	<i>i</i>	3.50246	+0.17911392		−0.29689457	
<i>P</i>	4.23	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 21	809	(3.3+ 4.8+)	1999 12 05	704	0.1+	0.8+	2000 02 29	704	0.4−	0.3−
1998 09 21	809	(2.5+ 2.6+)	1999 12 05	703	0.3+	0.5−	2000 02 29	704	0.1−	0.4−
1998 09 21	809	(2.3+ 3.2+)	1999 12 05	703	0.7+	0.3−	2000 02 29	704	0.1−	0.6−
1998 09 23	809	0.4− 0.3+	1999 12 05	703	0.6+	0.4+	2000 03 03	704	0.0	0.3+
1998 09 23	809	0.3− 0.3+	1999 12 05	703	0.4− 1.0−		2000 03 03	704	0.0	0.2+
1998 09 23	809	0.1− 1.1+	2000 02 01	703	0.5− 0.4+		2000 03 03	704	0.1−	0.2+
1998 10 11	699	0.3+ 0.0−	2000 02 01	703	0.3− 0.1+		2000 03 03	704	0.2−	0.4+
1998 10 11	699	0.5+ 0.1−	2000 02 01	703	(3.4− 3.1−)		2000 03 03	704	0.2−	0.5+
1998 10 11	699	1.1+ 0.5+	2000 02 01	703	0.3− 0.1+		2000 03 05	704	0.3+	0.1+
1998 10 28	704	1.6+ 0.5−	2000 02 02	704	0.2− 0.0		2000 03 05	704	0.3+	0.1−
1998 10 28	704	0.1+ 0.2+	2000 02 02	704	0.1+ 0.2−		2000 03 05	704	0.1+	0.4−
1998 10 28	704	0.8+ 0.8+	2000 02 02	704	0.0	0.3−	2000 03 05	704	0.1+	0.0
1998 10 28	704	0.3+ 1.5+	2000 02 02	704	0.6− 0.1−		2000 03 05	704	0.3+	0.3−
1998 10 29	704	0.6+ 0.5−	2000 02 02	704	0.1− 0.5−		2000 03 09	704	0.0	0.2+
1998 10 29	704	1.4− 1.5+	2000 02 04	704	0.2− 0.0		2000 03 09	704	0.0	0.0
1998 10 29	704	0.6+ 0.2+	2000 02 04	704	0.1− 0.1+		2000 03 09	704	0.0	0.2−
1998 10 29	704	0.4+ 0.8−	2000 02 04	704	0.2− 0.2+		2000 03 09	704	0.0	0.2−
1998 10 29	704	0.2− 1.5−	2000 02 04	704	0.6− 0.4−		2000 03 09	704	0.1+	0.6−
1998 11 11	704	0.1− 1.0−	2000 02 11	704	0.1− 0.0		2000 03 11	704	0.3+	0.5+
1998 11 11	704	0.3− 0.5−	2000 02 11	704	0.0	0.1+	2000 03 11	704	0.4+	0.8+
1998 11 11	704	0.3− 0.1+	2000 02 11	704	0.1− 0.5−		2000 03 11	704	0.4+	0.8+
1998 11 11	704	0.4− 0.7+	2000 02 11	704	0.0	0.0	2000 03 11	704	0.2+	0.6+
1998 11 11	704	0.7− 0.8+	2000 02 11	704	0.1− 0.4−		2000 03 11	704	0.2+	1.0+
1999 01 09	910	1.3− 0.6−	2000 02 25	703	0.3+ 0.9+		2000 03 11	699	0.0	0.3+
1999 01 09	910	1.2− 0.6−	2000 02 25	703	0.3− 0.0		2000 03 11	699	0.1−	0.3+
1999 01 09	910	1.5− 0.8−	2000 02 25	703	0.3− 0.3+		2000 03 11	699	0.1+	0.3+
1999 12 05	704	0.7+ 0.9−	2000 02 25	703	0.9+ 0.9−		2000 03 11	699	0.0	0.4+
1999 12 05	704	1.1+ 1.2−	2000 02 29	704	0.4− 0.0					

1998 SU₇₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	184.87772		(2000.0)	P		Q	
<i>n</i>	0.27838758	<i>ω</i>	266.03715	+0.74892052		+0.66001541	
<i>a</i>	2.3229301	<i>Ω</i>	52.65019	−0.57463050		+0.69128934	
<i>e</i>	0.1890033	<i>i</i>	4.26657	−0.33002705		+0.29410663	
<i>P</i>	3.54	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1980 07 12	413	0.2− 0.5+	1998 10 02	704	0.1−	0.2+	2000 02 03	704	0.1−	0.6+
1980 07 12	413	0.7− 0.7+	1998 10 02	704	0.3−	0.7+	2000 02 03	704	1.1+	1.0+
1983 05 07	413	0.8− 0.1+	1998 10 02	704	0.3+	0.3−	2000 02 28	704	1.4−	0.5+
1983 05 07	413	1.5+ 0.1−	1998 10 02	704	0.7+	0.1+	2000 02 28	704	0.6−	0.6−
1983 05 08	413	0.4− 0.7−	1998 10 02	704	0.1−	1.6−	2000 02 28	704	0.1+	0.0
1983 05 08	413	0.4+ 0.1−	1998 10 11	699	0.3−	0.1+	2000 02 28	704	0.7+	0.1−
1995 10 24	675	0.1− 0.9−	1998 10 11	699	0.2−	0.2+	2000 02 28	704	0.0	0.4+
1997 04 04	566	0.2− 1.4−	1998 10 11	699	0.5−	0.1+	2000 02 29	704	1.0−	0.4−
1997 04 04	566	0.2+ 1.1−	1998 10 28	704	0.1+ 0.4−		2000 02 29	704	0.3−	0.1+
1997 04 04	566	0.8− 1.0−	1998 10 28	704	0.2−	0.5−	2000 02 29	704	0.4−	0.3+
1997 05 08	675	1.7− 0.1+	1998 10 28	704	1.5−	0.6−	2000 02 29	704	0.3−	0.1−
1997 05 08	675	1.1− 0.2−	1998 10 28	704	0.7−	0.2−	2000 03 04	704	0.2+	0.7+
1998 09 18	699	0.2− 0.8+	1998 10 28	704	0.4−	1.1−	2000 03 04	704	0.3+	0.1+
1998 09 18	699	0.3+ 0.1−	1998 10 29	704	(2.4+ 1.1−)		2000 03 04	704	0.1+	0.5−

1998 09 18	699	0.2−	0.3+	1998 10 29	704	1.8+	0.6−	2000 03 04	704	0.2−	0.0
1998 09 21	809	(0.8+	2.1+)	1998 10 29	704	1.4+	1.5−	2000 03 04	704	0.2+	0.0
1998 09 21	809	0.1+	1.8+	1998 10 29	704	1.4+	1.2−	2000 03 04	704	0.7−	0.3−
1998 09 21	809	0.1−	1.9+	1998 10 29	704	1.9+	1.7−	2000 03 04	704	0.4−	0.1−
1998 09 23	809	(1.7+	2.4+)	1998 11 10	704	0.0	0.6−	2000 03 04	704	0.2+	0.2−
1998 09 23	809	0.7+	1.4+	1998 11 10	704	0.4−	0.8−	2000 03 04	704	0.2+	0.0
1998 09 23	809	0.2+	1.8+	1998 11 10	704	0.1+	0.2+	2000 03 04	704	0.3+	0.0
1998 09 26	704	0.2−	0.4−	1998 11 10	704	0.4−	0.4+	2000 03 05	704	0.6+	0.2−
1998 09 26	704	0.2−	0.7−	1998 11 10	704	0.1−	0.2+	2000 03 05	704	0.3−	0.1−
1998 09 26	704	0.1+	1.3−	1998 11 10	699	0.4+	0.3+	2000 03 05	704	0.3−	0.5+
1998 09 26	704	0.0	1.4−	1998 11 10	699	1.0+	0.6+	2000 03 05	704	0.2+	0.2−
1998 09 26	704	0.3+	0.5−	1998 11 10	699	(2.2+	0.8−)	2000 03 05	704	0.6−	0.9−
1998 09 27	704	0.2−	0.4−	1998 11 11	704	1.0−	0.4−	2000 03 06	704	1.0+	0.1+
1998 09 27	704	0.2−	0.0	1998 11 11	704	0.1+	1.1+	2000 03 06	704	0.3−	0.0
1998 09 27	704	0.3−	0.6+	1998 11 11	704	0.1−	0.9+	2000 03 06	704	0.2+	0.4−
1998 09 27	704	0.1+	1.1−	1998 11 11	704	0.4−	1.7+	2000 03 06	704	0.8+	0.5+
1998 09 27	704	0.2−	0.0	1998 11 11	704	0.1−	1.0+	2000 03 06	704	0.7+	0.7−
1998 09 29	704	0.3−	0.4−	1998 11 23	699	0.5+	0.3−	2000 03 08	704	0.2−	0.5−
1998 09 29	704	0.2−	0.4+	1998 11 23	699	0.5−	0.0	2000 03 08	704	0.6−	0.5+
1998 09 29	704	0.2−	0.3+	1998 11 23	699	0.3−	0.4+	2000 03 08	704	0.4+	0.8−
1998 09 29	704	0.9+	0.3−	1999 01 07	691	1.0−	0.5−	2000 03 09	704	0.4+	1.3+
1998 09 29	704	0.1+	0.7+	1999 01 07	691	0.9−	0.6−	2000 03 09	704	0.1+	0.7+
1998 10 02	704	0.7+	0.9+	1999 01 07	691	1.1−	0.4−	2000 03 09	704	0.1+	0.5−
1998 10 02	704	0.2−	0.8+	2000 02 03	704	1.2+	0.6+	2000 03 09	704	0.8−	0.7+
1998 10 02	704	0.3−	1.3−	2000 02 03	704	0.7+	0.8+	2000 03 09	704	0.1+	0.2+
1998 10 02	704	0.3+	1.3−	2000 02 03	704	0.2+	0.3+				

1998 SJ₇₄ = 2000 CE₃₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	138.66791		(2000.0)	P		Q	
<i>n</i>	0.22484514	<i>ω</i>	265.32060	+0.98675592		+0.14642746	
<i>a</i>	2.6784305	<i>Ω</i>	86.24791	−0.10665000		+0.90984766	
<i>e</i>	0.1010655	<i>i</i>	4.01100	−0.12222330		+0.38824764	
<i>P</i>	4.38	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 21	809	1.5+	0.8−	1998 10 11	699	0.2+	1.4+	2000 01 06	704	0.5+	0.6+
1998 09 21	809	0.4+	1.1−	1998 10 20	699	0.1−	0.1+	2000 01 06	704	1.0−	0.7−
1998 09 21	809	0.3+	0.8−	1998 10 20	699	0.3−	1.2+	2000 01 06	704	0.4−	1.4−
1998 09 23	809	1.5+	1.1−	1998 10 20	699	0.8−	1.0+	2000 02 03	704	1.2−	0.6+
1998 09 23	809	0.6+	0.2−	1998 10 28	704	0.3+	1.9−	2000 02 03	704	0.5+	0.4−
1998 09 23	809	0.6−	1.0−	1998 10 28	704	1.2+	0.3+	2000 02 03	704	0.7+	0.3−
1998 09 26	704	0.4−	0.4+	1998 10 28	704	0.3−	0.3−	2000 02 03	704	0.5−	0.3+
1998 09 26	704	0.9−	0.2−	1998 10 28	704	0.4−	1.3−	2000 02 03	704	0.1+	0.0
1998 09 26	704	0.2−	0.2−	1998 10 29	704	0.5+	0.8−	2000 02 05	704	0.4−	0.3−
1998 09 26	704	0.1−	0.9−	1998 10 29	704	0.2−	0.2+	2000 02 05	704	0.4−	0.6+
1998 09 26	704	0.4+	0.3+	1998 10 29	704	0.3+	1.6+	2000 02 05	704	0.8+	1.1−
1998 09 27	704	0.3+	0.1−	1998 10 29	704	0.6−	1.4+	2000 02 05	704	0.3−	0.3+
1998 09 27	704	0.3+	0.8+	1998 10 29	704	1.5−	1.2+	2000 02 11	704	0.0	0.9+
1998 09 27	704	1.6−	0.9+	1998 11 10	704	1.5−	1.2−	2000 02 11	704	0.5+	0.4+
1998 09 27	704	0.6−	1.2−	1998 11 10	704	0.1+	0.2+	2000 02 11	704	1.0+	0.2+
1998 09 27	704	0.5−	0.4+	1998 11 10	704	1.4−	1.3−	2000 02 11	704	0.0	0.7−
1998 10 11	699	0.4+	1.2+	1998 11 10	704	0.2+	0.2+	2000 02 11	704	0.4−	0.3−
1998 10 11	699	0.4+	1.2+	2000 01 06	704	0.5+	0.7+				

Residuals in seconds of arc

1998 09 18	699	0.7−	0.4+	1998 10 29	704	0.0	1.0+	2000 03 04	704	1.1+	0.8−
1998 09 18	699	0.1+	0.3+	1998 10 29	704	0.2+	1.3+	2000 03 04	704	0.8+	0.1−
1998 09 18	699	0.5−	1.2+	1998 10 29	704	0.3−	1.1+	2000 03 04	704	1.0+	0.4−
1998 09 21	809	1.5+	0.3+	1998 10 29	704	0.4−	0.1+	2000 03 04	704	0.9+	0.5−
1998 09 21	809	0.8+	0.1−	1998 11 10	704	0.0	0.3+	2000 03 06	704	0.1+	0.4−
1998 09 21	809	1.3+	0.2+	1998 11 10	704	0.0	0.6+	2000 03 06	704	0.2+	0.1+
1998 09 23	809	1.8+	0.4−	1998 11 10	704	0.3+	1.4+	2000 03 06	704	0.1+	0.0
1998 09 23	809	1.0+	0.8−	1998 11 10	704	0.2+	0.1−	2000 03 06	704	0.1+	0.0
1998 09 23	809	1.0+	1.1−	1998 11 10	704	0.7−	0.1−	2000 03 06	704	0.2+	0.1+
1998 09 26	704	1.0−	0.3−	1998 11 11	704	0.3−	0.6−	2000 03 09	704	0.2−	0.5−
1998 09 26	704	0.4+	0.1−	1998 11 11	704	1.5−	0.2+	2000 03 09	704	0.2+	0.4−
1998 09 26	704	0.8+	1.7−	1998 11 11	704	0.0	1.0+	2000 03 09	704	0.1−	0.3−
1998 09 26	704	0.2−	0.1−	1998 11 10	704	0.4+	0.3+	2000 03 09	704	0.2−	0.4−
1998 09 26	704	1.0−	1.1−	1998 11 11	704	1.0+	0.4−	2000 03 09	704	0.1−	0.3−
1998 09 27	704	0.5−	0.7+	1999 01 20	691	0.7+	0.8−	2000 03 11	699	0.2+	0.1+
1998 09 27	704	1.2−	0.5−	1999 01 20	691	0.5+	0.6−	2000 03 11	699	0.1+	0.4−
1998 09 27	704	0.8+	0.4+	1999 01 20	691	(2.0+	3.8−)	2000 03 11	699	0.0	0.5−
1998 09 27	704	1.0−	0.1−	1999 12 08	704	0.1−	0.1+	2000 03 11	699	0.1+	0.3−
1998 09 27	704	0.6+	0.4−	1999 12 08	704	0.3−	0.6−	2000 03 12	703	0.7−	0.3+
1998 10 11	699	0.3−	0.9+	1999 12 08	704	0.8−	0.8+	2000 03 12	703	0.5−	0.3+
1998 10 11	699	0.3−	0.6−	1999 12 08	704	0.1+	0.6+	2000 03 12	704	0.6−	0.1−
1998 10 11	699	0.5−	0.3−	2000 01 06	704	0.4−	0.1+	2000 03 12	703	0.1+	0.2+
1998 10 28	704	0.7−	0.7−	2000 01 06	704	0.0	0.4+	2000 03 12	704	0.2−	0.2−
1998 10 28	704	0.2−	0.8−	2000 01 06	704	0.0	0.2+	2000 03 12	703	0.6−	0.2+
1998 10 28	704	0.2−	1.0−	2000 01 31	704	0.2+	0.9+	2000 03 12	704	0.1−	0.2−
1998 10 28	704	1.0−	0.1+	2000 01 31	704	0.6−	0.6+	2000 03 12	704	0.2−	0.1−
1998 10 29	704	0.0	0.3−	2000 01 31	704	0.5−	0.9+	2000 03 12	704	0.4+	0.1+

1998 SA₇₅ = 2000 DD₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	114.41903		(2000.0)		P		Q
<i>n</i>	0.22273818	ω	290.84607	+0.93455185	−0.34530711		
<i>a</i>	2.6952948	Ω	89.43477	+0.34997818	+0.84843328		
<i>e</i>	0.1139812	<i>i</i>	4.92703	+0.06425041	+0.40115330		
<i>P</i>	4.42	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 18	699	0.5+	0.2+	1998 10 11	699	0.6+	0.3−	1998 11 11	704	(2.8+	2.1−)
1998 09 18	699	0.9+	0.5−	1998 10 11	699	0.1+	0.0	1998 11 11	704	(2.3+	1.4−)
1998 09 18	699	1.4+	0.3−	1998 10 20	699	0.0	0.1−	1998 11 11	704	1.4+	0.5−
1998 09 21	809	0.8−	0.6+	1998 10 20	699	0.4+	0.0	2000 01 30	703	0.3+	0.7+
1998 09 21	809	1.7−	1.1+	1998 10 20	699	0.7−	0.1+	2000 01 30	703	0.7+	0.5+
1998 09 21	809	1.8−	0.8+	1998 10 28	704	0.9−	0.2−	2000 01 30	703	(2.7+	0.1−)
1998 09 23	809	0.6+	1.4+	1998 10 28	704	1.0−	1.8−	2000 01 30	703	0.9+	0.0
1998 09 23	809	1.3−	0.7+	1998 10 28	704	0.7+	0.8+	2000 02 03	704	1.7−	0.6+
1998 09 23	809	(2.1−	0.9+)	1998 10 28	704	0.9−	0.9−	2000 02 03	704	0.1+	1.8+
1998 09 26	704	0.1+	1.5−	1998 10 29	704	0.4+	0.3+	2000 02 03	704	1.0+	1.1−
1998 09 26	704	0.2−	0.0	1998 10 29	704	0.2−	0.1−	2000 02 03	704	0.6+	0.4−
1998 09 26	704	0.4−	1.2−	1998 10 29	704	0.4−	0.2−	2000 02 28	704	0.4−	0.3−
1998 09 26	704	0.3+	0.6−	1998 10 29	704	0.5+	0.3+	2000 02 28	704	0.4−	0.3+
1998 09 26	704	1.0+	0.4+	1998 10 29	704	0.4−	0.6+	2000 02 28	704	1.2−	0.0
1998 09 27	704	0.6+	0.6−	1998 11 10	704	0.6+	0.4−	2000 02 28	704	0.4−	0.4+
1998 09 27	704	0.9+	0.2+	1998 11 10	704	0.9+	0.8−	2000 03 04	704	0.6+	0.3−
1998 09 27	704	0.7+	0.6+	1998 11 10	704	0.9−	0.3+	2000 03 04	704	0.3+	0.1+
1998 09 27	704	1.2−	0.5+	1998 11 10	704	0.1+	0.8−	2000 03 04	704	0.6+	1.4−
1998 10 11	699	0.2−	0.3+	1998 11 11	704	0.5+	1.4+	2000 03 04	704	0.9−	0.7−

1998 SN₇₅ = 2000 DK₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	157.00443		(2000.0)		P		Q
<i>n</i>	0.27002814	ω	213.17612	+0.97547454	+0.21623142		
<i>a</i>	2.3706278	Ω	134.27795	−0.18736593	+0.91382434		
<i>e</i>	0.2501680	<i>i</i>	3.29497	−0.11551378	+0.34375724		
<i>P</i>	3.65	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 28	704	(1.7−	2.6−)	1998 10 20	699	0.1+	0.8+	1998 11 10	704	0.9−	0.3−
1998 08 28	704	(1.5+	2.6−)	1998 10 20	699	0.0	0.7+	1998 11 11	704	0.5−	0.1+
1998 08 28	704	1.5−	0.2−	1998 10 28	704	0.0	0.0	1998 11 11	704	0.1−	0.7−
1998 08 28	704	(2.7−	2.1+)	1998 10 28	704	0.9−	1.0−	1998 11 11	704	0.1−	0.6−
1998 09 18	699	0.8−	1.0+	1998 10 28	704	0.7+	0.1+	1998 11 11	704	0.3−	1.1−
1998 09 18	699	0.9−	1.3+	1998 10 28	704	0.0	0.4+	1998 11 11	704	0.6−	0.6−
1998 09 18	699	1.3−	1.1+	1998 10 29	704	0.4+	0.4+	2000 02 29	704	0.5+	0.0
1998 09 21	809	0.5+	0.3+	1998 10 29	704	0.1+	0.2+	2000 02 29	704	0.5+	0.2+
1998 09 21	809	0.1+	1.3−	1998 10 29	704	0.1+	0.3+	2000 02 29	704	0.4+	1.2+
1998 09 21	809	0.2+	0.9−	1998 10 29	704	0.4+	0.5+	2000 03 03	704	0.2−	0.3+
1998 09 23	809	1.4+	0.1−	1998 10 29	704	0.1−	1.1+	2000 03 03	704	0.7−	0.2−
1998 09 23	809	1.3+	0.1−	1998 11 10	704	1.0+	0.6−	2000 03 03	704	0.5+	0.5+
1998 09 23	809	0.4+	0.2−	1998 11 10	704	0.0	0.2+	2000 03 03	704	0.2+	0.5+
1998 10 20	699	0.7+	0.4+	1998 11 10	704	0.0	1.0−	2000 03 03	704	0.9−	1.2−

1998 SS₇₅ = 2000 CC₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	354.26716		(2000.0)		P		Q
<i>n</i>	0.26444703	ω	342.53171	−0.95318061	−0.30240156		
<i>a</i>	2.4038660	Ω	179.86622	+0.28307246	−0.89239016		
<i>e</i>	0.1129836	<i>i</i>	2.86391	+0.10637999	−0.33495239		
<i>P</i>	3.73	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 20	327	0.0	1.1−	2000 02 05	704	0.5−	0.3+	2000 02 29	704	0.5+	0.1−
1998 09 20	327	1.6+	0.3−	2000 02 05	704	0.9+	0.6−	2000 02 29	704	0.9+	0.9−
1998 09 20	327	1.6+	0.9+	2000 02 05	704	0.0	1.1+	2000 03 03	704	0.0	0.2−
1998 09 25	327	1.5−	0.4+	2000 02 06	704	0.1−	0.9+	2000 03 03	704	0.2−	0.5+
1998 09 25	327	0.9−	0.4+	2000 02 06	704	0.2−	0.4+	2000 03 03	704	0.4−	0.0
1998 09 25	327	1.0−	0.4+	2000 02 06	704	0.6+	0.3−	2000 03 03	704	0.1−	0.0
1998 10 14	104	0.5−	1.0−	2000 02 06	704	0.2−	0.7+	2000 03 03	704	0.7−	0.2+
1998 10 14	104	0.2+	0.1−	2000 02 06	704	0.2+	0.6+	2000 03 11	704	0.7+	0.3−
1998 10 14	104	1.1+	0.4+	2000 02 12	704	1.1+	1.6−	2000 03 11	704	0.1−	0.2+
1998 10 14	104	0.3+	0.8+	2000 02 12	704	1.4+	0.5+	2000 03 11	704	0.4+	0.5−
1998 10 15	104	0.3+	0.7−	2000 02 12	704	0.7−	0.3+	2000 03 11	704	0.1+	0.1+
1998 10 15	104	0.8−	0.0	2000 02 12	704	0.7+	2.0+	2000 03 11	704	0.3+	0.4−
1998 10 15	104	0.1−	0.6−	2000 02 13	704	0.4−	0.5−	2000 03 11	699	0.6−	0.5+
2000 02 02	704	0.0	1.0+	2000 02 13	704	0.5−	0.1−	2000 03 11	699	0.4−	0.2−
2000 02 02	704	0.8−	0.2−	2000 02 13	704	1.8−	0.6−	2000 03 11	699	0.5−	0.1−
2000 02 02	704	0.6+	0.4−	2000 02 29	704	0.4+	0.1−	2000 03 11	699	0.5−	0.0
2000 02 02	704	0.5−	0.7−	2000 02 29	704	0.4+	0.8−				
2000 02 02	704	0.5−	0.6−	2000 02 29	704	0.4+	0.4−				

1998 SY₇₅ = 2000 DT₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	90.95371		(2000.0)		P		Q
<i>n</i>	0.27801308	ω	64.53059	+0.54086417	−0.84105519		
<i>a</i>	2.3250157	Ω	352.70459	+0.74201704	+0.48248606		
<i>e</i>	0.0917598	<i>i</i>	4.33461	+0.39607659	+0.24460860		
<i>P</i>	3.55	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

2000 02 29 704 0.1+ 0.6− 2000 03 05 704 0.3− 0.6+ 2000 03 11 699 0.0 0.3+
 2000 02 29 704 0.5+ 0.0 2000 03 05 704 0.5− 0.0 2000 03 11 699 0.4− 0.6−

1998 SF₇₉ = 1999 XB₁₉₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	124.20455	(2000.0)	P	Q
<i>n</i>	0.18708285	ω	294.50794	+0.78167263
<i>a</i>	3.0277039	Ω	27.56840	+0.68770957
<i>e</i>	0.1200049	<i>i</i>	10.57903	−0.39229064
<i>P</i>	5.27	<i>H</i>	14.7	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.3+	0.9+	1998 09 27	699	0.3−	0.4+	1999 12 12	704	0.3+	0.3+
1998 09 26	704	0.2−	0.5−	1998 09 27	704	0.9−	0.3−	1999 12 12	704	0.5−	0.1+
1998 09 26	704	1.9+	0.3−	1998 09 27	699	0.2−	0.5+	1999 12 12	704	0.0	1.0+
1998 09 26	704	0.4+	0.7−	1998 09 27	699	0.8+	0.3+	1999 12 15	704	0.1−	0.1+
1998 09 26	704	(2.6+	2.0+)	1998 10 12	699	0.2−	0.4+	1999 12 15	704	0.0	0.1−
1998 09 27	704	0.1−	0.6−	1998 10 12	699	0.2−	0.4−	1999 12 15	704	0.2−	0.1+
1998 09 27	704	0.9−	0.5+	1998 10 12	699	0.6+	0.1−	1999 12 15	704	0.5+	1.0−
1998 09 27	704	1.6−	0.7+	1999 12 12	704	0.1+	0.3−				
1998 09 27	704	0.6+	0.6−	1999 12 12	704	0.2−	0.2−				

1998 SY₇₉ = 2000 AQ₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	128.11030	(2000.0)	P	Q
<i>n</i>	0.21893599	ω	357.13429	+0.95762762
<i>a</i>	2.7264107	Ω	346.11808	−0.26250656
<i>e</i>	0.0726696	<i>i</i>	4.92531	−0.11848902
<i>P</i>	4.50	<i>H</i>	15.7	<i>G</i> 0.15 <i>U</i> 5

Residuals in seconds of arc

1998 09 18	703	0.2+	0.4−	1998 09 26	704	0.7−	0.5+	1998 10 01	691	0.3−	0.9+
1998 09 18	703	0.4+	0.1+	1998 09 27	704	0.7−	1.1+	2000 01 04	704	0.4−	0.9+
1998 09 18	703	0.1−	0.3+	1998 09 27	704	0.2−	0.4+	2000 01 04	704	0.2−	0.5+
1998 09 18	703	0.3−	0.1+	1998 09 27	704	0.0	0.2+	2000 01 04	704	0.5−	1.0+
1998 09 26	704	0.6+	0.5−	1998 09 27	704	0.5+	1.0−	2000 01 04	704	0.5+	0.1−
1998 09 26	704	0.2+	0.4−	1998 09 27	704	0.8+	1.4−	2000 01 07	704	1.1+	0.3−
1998 09 26	704	0.2−	0.0	1998 10 01	691	0.1+	0.6−	2000 01 07	704	0.4−	0.7−
1998 09 26	704	0.2−	0.4+	1998 10 01	691	0.2−	0.3+	2000 01 07	704	0.0	1.4−

1998 SC₈₀ = 2000 DV₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	77.77170	(2000.0)	P	Q
<i>n</i>	0.22992053	ω	117.32758	+0.51027649
<i>a</i>	2.6388673	Ω	301.89046	+0.76512944
<i>e</i>	0.1803789	<i>i</i>	3.60903	+0.39267652
<i>P</i>	4.29	<i>H</i>	15.0	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.7+	0.2+	1998 10 14	327	0.3−	0.2−	2000 02 29	704	0.7−	0.0
1998 09 26	704	0.3+	0.3+	1998 10 14	327	0.4+	0.6−	2000 02 29	704	0.2+	0.1−
1998 09 26	704	0.7+	0.6+	1998 10 14	327	0.2−	0.4−	2000 03 03	704	0.1−	0.7+
1998 09 26	704	0.4+	1.1+	1998 10 17	327	0.0	0.4−	2000 03 03	704	0.6+	0.2+
1998 09 26	704	2.0−	1.2+	1998 10 17	327	0.2−	0.0	2000 03 03	704	0.5+	0.2+
1998 09 27	704	0.4−	0.0	1998 10 17	327	0.2+	0.0	2000 03 03	704	0.6−	0.7+
1998 09 27	704	0.4+	1.8−	2000 02 29	704	0.5−	0.3−	2000 03 11	704	1.3−	0.1+
1998 09 27	704	(0.6−	2.5−)	2000 02 29	704	0.3−	0.5−	2000 03 11	704	0.9+	0.4−
1998 09 27	704	(1.2−	2.2−)	2000 02 29	704	0.1+	0.1−	2000 03 11	704	1.3+	0.1−

1998 SS₈₃ = 2000 CU₇₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	110.50074	(2000.0)	P	Q
<i>n</i>	0.24468244	ω	172.50352	+0.89634216
<i>a</i>	2.5316336	Ω	213.81312	+0.40569498
<i>e</i>	0.1763481	<i>i</i>	1.18698	+0.17883600
<i>P</i>	4.03	<i>H</i>	15.7	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 16	699	0.6+	0.5−	1998 09 27	704	0.2−	1.2+	2000 02 11	691	0.2−	0.2−
1998 09 16	699	1.4−	0.4−	1998 09 27	704	(0.2+	2.4+)	2000 02 11	691	0.6−	0.2−
1998 09 16	699	0.1+	1.2−	1998 09 27	704	0.5+	1.1+	2000 02 29	704	0.1−	0.2+
1998 09 25	699	0.9+	1.1+	1998 09 27	704	0.2+	0.4+	2000 02 29	704	0.2−	0.2+
1998 09 25	699	0.7+	0.5+	1998 10 16	691	0.4−	0.2−	2000 02 29	704	0.3−	0.6+
1998 09 25	699	0.9−	0.3−	1998 10 16	691	0.2+	0.2−	2000 02 29	704	0.2+	0.8+
1998 09 26	704	0.4+	0.1−	1998 10 16	691	0.2−	0.1−	2000 02 29	704	0.3+	0.9+
1998 09 26	704	0.5+	0.2−	2000 02 07	691	0.0	0.6−	2000 03 03	704	0.2−	0.6−
1998 09 26	704	1.0−	0.7−	2000 02 07	691	0.3+	0.5−	2000 03 03	704	0.0	0.4+
1998 09 26	704	0.7−	0.2−	2000 02 07	691	0.0	0.6−	2000 03 03	704	0.9+	0.3+
1998 09 27	704	0.5+	0.2−	2000 02 11	691	0.0	0.4−				

1998 SD₈₇ = 2000 AQ₁₀₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	68.23932	(2000.0)	P	Q
<i>n</i>	0.17846989	ω	162.02244	+0.81285482
<i>a</i>	3.1243480	Ω	233.33731	+0.51477043
<i>e</i>	0.0521683	<i>i</i>	8.43746	+0.27254074
<i>P</i>	5.52	<i>H</i>	14.5	<i>G</i> 0.15 <i>U</i> 5

Residuals in seconds of arc

1998 09 26	704	0.5+	0.4+	1998 09 27	704	1.9−	1.0+	2000 01 07	704	0.4−	0.3−
1998 09 26	704	1.9+	0.6+	1998 10 14	699	1.8−	0.2−	2000 01 07	704	0.6−	0.8−
1998 09 26	704	1.3−	1.1−	1998 10 14	699	1.1+	0.5+	2000 01 07	704	0.9+	0.6+
1998 09 26	704	0.5+	0.0	1998 10 14	699	0.9+	0.4−	2000 01 07	704	0.6+	0.0
1998 09 26	704	1.5+	1.4−	2000 01 05	704	0.8−	0.4+	2000 01 07	704	0.4+	1.3−
1998 09 27	704	1.4−	0.6−	2000 01 05	704	0.2−	0.7+				
1998 09 27	704	0.1+	1.3+	2000 01 05	704	0.2+	0.7+				

1998 SM₉₁ = 2000 CJ₃₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	13.13547	(2000.0)	P	Q
<i>n</i>	0.27177197	ω	189.66373	−0.79610392
<i>a</i>	2.3604761	Ω	313.13697	+0.56068429
<i>e</i>	0.0562968	<i>i</i>	4.82099	+0.22770963
<i>P</i>	3.63	<i>H</i>	14.4	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.4+	0.5+	1998 10 29	704	1.9−	1.3+	2000 02 05	704	0.2−	0.1+
1998 09 26	704	0.8−	0.4−	1998 10 29	704	0.5−	1.4−	2000 02 06	704	0.2−	0.4−
1998 09 26	704	0.6−	0.6−	1998 10 29	704	0.1+	1.3+	2000 02 06	704	0.6+	0.3−
1998 09 26	704	0.4−	0.3−	2000 01 05	699	0.5+	0.6−	2000 02 06	704	0.1−	0.5−
1998 09 26	704	0.5+	1.6−	2000 01 05	699	0.9+	0.9+	2000 02 12	704	(1.3−	3.2+)
1998 09 27	704	0.6+	0.4+	2000 01 05	699	0.7+	0.8+	2000 02 12	704	(0.6+	3.0+)
1998 09 27	704	0.1+	0.1+	2000 02 02	704	0.3−	0.4−	2000 02 12	704	0.9+	0.7+
1998 09 27	704	0.6+	0.0	2000 02 02	704	0.3−	0.2+	2000 02 29	704	0.3−	0.5−
1998 09 27	704	1.6+	1.7−	2000 02 02	704	0.0	0.2+	2000 02 29	704	0.0	0.4−
1998 10 28	704	0.9+	0.3−	2000 02 02	704	0.3−	0.1−	2000 02 29	704	0.2−	0.1−
1998 10 28	704	0.9−	0.1+	2000 02 02	704	0.5−	0.2+	2000 02 29	704	0.2−	0.2−
1998 10 28	704	1.8+	0.4+	2000 02 05	704	0.2−	0.0	2000 02 29	704	0.1−	0.1−
1998 10 29	704	1.1−	1.2+	2000 02 05	704	0.7−	0.3−				

2000 MAR. 20

M.P.C. 39249

1998 SN₁₀₀ = 2000 DT₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	180.54747	(2000.0)	P		Q	
<i>n</i>	0.30118448	ω	21.89078	+0.90456436	+0.42433094	
<i>a</i>	2.2041831	Ω	312.93240	-0.39904807	+0.80857129	
<i>e</i>	0.1902622	<i>i</i>	3.23452	-0.15007981	+0.40762203	
<i>P</i>	3.27	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 20	699	0.2-	0.2+	1998 10 11	699	0.1-	0.2+	2000 02 29	704	0.7+	0.2-
1998 08 20	699	0.6-	0.5+	1998 10 28	704	0.4-	0.4+	2000 02 29	704	0.1+	0.1-
1998 08 20	699	0.3-	0.7+	1998 10 28	704	0.5+	0.9+	2000 02 29	704	0.2+	0.9-
1998 09 26	704	0.6-	0.2-	1998 10 28	704	0.4+	0.3+	2000 02 29	704	0.5+	0.0
1998 09 26	704	0.4+	0.3+	1998 10 28	704	0.3+	0.8-	2000 02 29	704	0.2-	0.3+
1998 09 26	704	0.1+	0.1-	1998 10 29	704	0.4-	1.0-	2000 03 03	704	0.4-	0.4+
1998 09 26	704	0.3-	1.4+	1998 10 29	704	1.1-	0.8-	2000 03 03	704	0.3-	0.1+
1998 09 26	704	0.2-	0.4-	1998 10 29	704	0.3+	0.2+	2000 03 03	704	0.7-	0.1+
1998 09 27	704	0.6+	0.3-	1998 10 29	704	0.4-	0.8-	2000 03 03	704	0.3-	0.6+
1998 09 27	704	0.5+	1.3+	1998 10 29	704	1.0+	0.7+	2000 03 03	704	0.7-	0.1+
1998 09 27	704	0.2+	0.5-	1998 12 09	704	0.3+	0.1-	2000 03 11	704	1.4+	0.7+
1998 09 27	704	0.3+	0.9-	1998 12 09	704	0.2-	1.7-	2000 03 11	704	0.4-	0.4+
1998 10 11	699	0.5-	0.2+	1998 12 09	704	0.2-	1.0+	2000 03 11	704	0.6+	0.5+
1998 10 11	699	0.3-	0.3+	1998 12 09	704	(0.4-	3.8+)	2000 03 11	704	0.2+	0.4-

1998 SE₁₀₂ = 2000 EG₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	97.87348	(2000.0)	P		Q	
<i>n</i>	0.29051950	ω	52.86574	+0.31997837	-0.94706963	
<i>a</i>	2.2578020	Ω	18.52379	+0.84129703	+0.27143688	
<i>e</i>	0.0995441	<i>i</i>	4.68367	+0.43569846	+0.17140926	
<i>P</i>	3.39	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 01	691	0.9-	0.9+	1998 10 28	704	0.5-	0.2-	1998 12 13	704	0.7-	1.1+
1998 09 01	691	0.9-	0.8+	1998 10 29	704	0.2-	0.1+	1998 12 13	704	0.7+	0.5+
1998 09 01	691	0.5-	0.9+	1998 10 29	704	0.1+	0.8+	2000 03 01	703	0.1+	0.6-
1998 09 15	699	(0.4-	2.4+)	1998 10 29	704	(0.4-	2.5+)	2000 03 01	703	0.7-	0.2+
1998 09 15	699	0.5+	1.4+	1998 10 29	704	1.3-	0.4-	2000 03 01	703	0.2+	0.4-
1998 09 15	699	(0.5-	2.6+)	1998 10 29	704	(2.6-	1.3+)	2000 03 01	703	0.2-	0.2+
1998 09 26	704	0.6+	0.3+	1998 11 11	699	0.0	0.0	2000 03 08	704	0.7-	0.2+
1998 09 26	704	0.4-	0.1-	1998 11 11	699	0.8+	0.4+	2000 03 08	704	0.0	1.0+
1998 09 26	704	0.3+	0.3+	1998 11 11	699	0.3+	0.6-	2000 03 08	704	0.8+	0.3-
1998 09 26	704	0.3+	0.0	1998 12 09	704	(2.1-	2.4+)	2000 03 08	704	0.1+	0.6+
1998 09 26	704	0.1-	0.1-	1998 12 09	704	1.9-	0.2+	2000 03 08	704	0.9+	0.2-
1998 09 27	704	0.4-	0.8+	1998 12 09	704	0.0	0.5-	2000 03 10	704	2.0+	0.3+
1998 09 27	704	0.7-	0.6+	1998 12 09	704	1.1-	0.6+	2000 03 10	704	0.4-	0.7+
1998 09 27	704	0.6-	0.8+	1998 12 09	704	(2.5-	1.3+)	2000 03 10	704	0.1+	1.4+
1998 09 27	704	1.0-	0.7+	1998 12 13	704	0.2+	1.0-	2000 03 10	704	0.2+	0.5+
1998 09 27	704	0.4-	0.8-	1998 12 13	704	0.3+	0.9+	2000 03 11	704	0.3-	0.2+
1998 10 28	704	0.0	0.6-	1998 12 13	704	0.4+	0.5-	2000 03 11	704	0.0	0.3-
1998 10 28	704	1.6+	1.4-	1998 12 13	704	0.5+	0.0	2000 03 11	704	0.1+	0.4+
1998 10 28	704	0.8+	0.1+	1998 12 13	704	0.7+	1.8+	2000 03 11	704	0.6+	1.4+
1998 10 28	704	0.3+	1.3-	1998 12 13	704	0.9+	0.7-				

1998 SO₁₀₂ = 1999 XT₁₉₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	284.72631	(2000.0)	P		Q	
<i>n</i>	0.21994271	ω	175.03828	-0.95240996	+0.29945098	
<i>a</i>	2.7180848	Ω	22.64004	-0.28451103	-0.80623054	
<i>e</i>	0.1154263	<i>i</i>	8.50927	-0.10940171	-0.51021703	
<i>P</i>	4.48	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.0	0.4-	1998 10 28	704	1.2+	0.4-	1999 12 15	704	0.1+	1.2-
1998 09 26	704	0.5-	0.5-	1998 10 28	704	0.1+	0.1+	1999 12 15	704	0.1+	0.5+
1998 09 26	704	1.6-	1.1-	1998 10 29	704	0.4+	0.6-	1999 12 15	704	0.4+	0.4-
1998 09 26	704	0.2-	0.8-	1998 10 29	704	0.2-	1.4+	1999 12 15	704	0.5-	0.7+
1998 09 26	704	0.3-	0.9-	1998 10 29	704	1.5+	1.6+	2000 01 02	704	0.4-	0.2-
1998 09 27	704	0.2-	0.1+	1998 10 29	704	0.1-	1.7+	2000 01 02	704	0.4-	0.0
1998 09 27	704	0.7-	0.2-	1999 12 12	704	0.4+	0.1-	2000 01 02	704	0.1+	0.3-
1998 09 27	704	0.1-	0.9+	1999 12 12	704	1.0+	0.1+	2000 01 02	704	0.0	0.4-
1998 09 27	704	0.1-	0.3+	1999 12 12	704	0.6-	0.4+	2000 01 29	704	0.5-	0.0
1998 09 27	704	0.3+	0.3-	1999 12 12	704	0.8+	0.0	2000 01 29	704	0.7-	0.1+
1998 10 28	704	(0.6-	2.4-)	1999 12 12	704	1.0+	0.2+	2000 01 29	704	0.9-	0.1-
1998 10 28	704	0.4+	0.8-	1999 12 15	704	0.2+	0.1-	2000 01 29	704	0.1-	0.3+

1998 SK₁₀₄ = 1999 XQ₁₉₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	272.91542	(2000.0)	P		Q	
<i>n</i>	0.22652594	ω	170.87512	-0.90078938	+0.42362506	
<i>a</i>	2.6651649	Ω	34.69351	-0.40825788	-0.75117751	
<i>e</i>	0.0771097	<i>i</i>	9.65899	-0.14799999	-0.50623527	
<i>P</i>	4.35	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 21	910	0.1+	0.2-	1998 09 27	704	0.3+	0.0	1999 12 15	704	0.4+	0.6+
1998 09 21	910	0.0	0.1-	1998 09 27	704	0.5-	0.4+	1999 12 15	704	0.6-	0.0
1998 09 21	910	0.2+	0.3-	1998 09 27	704	1.0+	0.8+	1999 12 16	704	0.3+	0.1-
1998 09 26	704	1.1-	0.4+	1999 12 12	704	0.3-	0.3-	1999 12 16	704	0.2+	0.1-
1998 09 26	704	0.2+	0.4-	1999 12 12	704	0.2+	0.3+	1999 12 16	704	0.4+	0.2+
1998 09 26	704	0.1-	0.8-	1999 12 12	704	0.1+	0.3-	1999 12 16	704	0.2-	0.1-
1998 09 26	704	0.5+	0.1-	1999 12 12	704	0.6-	0.1-	1999 12 16	704	0.2-	0.3-
1998 09 26	704	0.2+	0.5+	1999 12 12	704	0.2+	0.7-				
1998 09 27	704	0.6-	0.2-	1999 12 15	704	0.1+	0.9+				

1998 SG₁₀₅ = 2000 CX₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	40.48398	(2000.0)	P		Q	
<i>n</i>	0.29300547	ω	327.58479	-0.51397654	-0.85599366	
<i>a</i>	2.2450132	Ω	153.22059	+0.81103000	-0.50607539	
<i>e</i>	0.0204468	<i>i</i>	7.10191	+0.27938945	-0.10565300	
<i>P</i>	3.36	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 17	699	0.8-	0.7+	1998 10 28	704	(2.5-	2.4-)	2000 02 26	703	0.3-	0.2-
1998 09 17	699	0.3+	1.6+	1998 10 29	704	1.0+	0.3-	2000 02 26	703	0.3+	0.1+
1998 09 17	699	0.0	1.6+	1998 10 29	704	1.7+	0.1-	2000 02 26	703	0.5+	1.1+
1998 09 26	704	0.1-	0.4+	1998 10 29	704	(1.0+	2.2+)	2000 02 29	704	0.5+	0.1+
1998 09 26	704	0.5+	0.8+	1998 10 29	704	0.1-	0.0	2000 02 29	704	0.1+	0.0
1998 09 26	704	0.8+	0.5-	2000 01 08	704	1.9-	0.7-	2000 02 29	704	0.2+	0.2-
1998 09 26	704	0.3+	0.9-	2000 01 08	704	0.4+	0.3+	2000 02 29	704	0.6-	0.5-
1998 09 26	704	0.7-	1.2-	2000 01 08	704	0.0	0.7+	2000 02 29	704	0.2+	0.3-
1998 09 27	704	0.2-	0.4+	2000 02 06	704	0.1+	0.7-	2000 03 03	704	0.0	0.0
1998 09 27	704	0.1-	0.3-	2000 02 06	704	0.2+	0.4-	2000 03 03	704	0.4+	0.5-
1998 09 27	704	0.2+	0.5+	2000 02 06	704	0.2-	0.2+	2000 03 03	704	0.5+	0.4-
1998 09 27	704	1.5-	0.7+	2000 02 06	704	0.1+	1.1+	2000 03 03	704	0.4+	0.2-
1998 09 27	704	0.7-	0.4+	2000 02 11	704	1.7-	1.7+	2000 03 03	704	0.2+	0.0
1998 10 28	704	0.4+	0.6-	2000 02 11	704	0.3+	0.2+	2000 03 05	608	0.4-	0.4-
1998 10 28	704	0.2-	1.3-	2000 02 11	704	0.1-	0.9+	2000 03 05	608	0.1-	0.0
1998 10 28	704	1.0-	1.0-	2000 02 11	704	1.6+	0.0	2000 03 05	608	0.6-	0.2-
1998 10 28	704	(1.6-	2.7-)	2000 02 26	703	0.2-	0.2-				

1998 SY₁₀₆ = 2000 DF₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26758754	ω	76.66478	+0.05861312	−0.99808301		
<i>a</i>	2.3850205	Ω	10.03846	+0.86611363	+0.04094577		
<i>e</i>	0.0854361	<i>i</i>	6.54538	+0.49639872	+0.04640841		
<i>P</i>	3.68	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 15	699	0.4−	0.7+	1998 10 29	704	0.7−	0.2−	2000 03 02	703	0.2−	1.4+
1998 09 15	699	0.7+	0.8+	1998 10 29	704	(0.9−	2.8+)	2000 03 02	703	(2.2−	1.0+)
1998 09 15	699	0.1+	0.5+	1998 10 29	704	0.3+	0.3−	2000 03 02	703	0.1−	0.4+
1998 09 26	704	1.2−	0.3+	1998 10 29	704	0.2−	0.4−	2000 03 02	703	0.4−	0.4+
1998 09 26	704	0.4−	0.8−	2000 02 02	703	1.1+	0.2−	2000 03 11	699	0.3−	0.3+
1998 09 26	704	0.6+	0.6+	2000 02 02	703	1.4+	0.0	2000 03 11	699	0.3−	0.4+
1998 09 26	704	0.7−	0.2−	2000 02 02	703	1.2+	0.3−	2000 03 11	699	0.6−	0.5+
1998 09 26	704	0.4−	0.4+	2000 02 02	703	0.3−	0.2−	2000 03 11	699	0.2+	0.0
1998 09 27	704	0.7−	0.4+	2000 02 11	704	0.5+	0.5−	2000 03 12	704	0.3−	0.5+
1998 09 27	704	0.8+	0.4+	2000 02 11	704	0.2+	0.7−	2000 03 12	704	0.7−	0.1+
1998 09 27	704	0.6−	0.6+	2000 02 11	704	0.5−	0.9−	2000 03 12	704	0.3−	0.2−
1998 09 27	704	(0.1+	2.4+)	2000 02 11	704	0.6+	1.1−	2000 03 12	704	0.2+	0.3−
1998 10 28	704	0.8+	0.6−	2000 02 11	704	0.1+	0.6+	2000 03 12	704	0.6+	0.7+
1998 10 28	704	0.7+	0.2−	2000 02 26	703	0.8+	0.1+	2000 03 14	608	0.2−	0.5−
1998 10 28	704	0.7−	0.5+	2000 02 26	703	0.1+	0.1−	2000 03 14	608	0.3−	0.4−
1998 10 28	704	0.4+	1.0−	2000 02 26	703	1.3−	0.3+	2000 03 14	608	0.2−	0.3−
1998 10 29	704	1.1+	0.2−	2000 02 26	703	0.3+	0.8+				

1998 SV₁₁₀ = 1998 SN₁₆₄ = 2000 EH₂₅Id. G. V. Williams (d, *MPC* 33130; unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28244876	ω	115.28820	−0.46711167	−0.88418182		
<i>a</i>	2.3006096	Ω	2.57786	+0.76188572	−0.40558886		
<i>e</i>	0.0820160	<i>i</i>	6.89965	+0.44870573	−0.23177615		
<i>P</i>	3.49	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 23	327	0.9−	0.6−	1998 10 17	327	0.6+	1.0+	2000 03 08	691	0.6−	0.4−
1998 09 23	327	1.0−	0.2+	1998 10 17	327	0.2+	0.1+	2000 03 08	704	0.3+	0.7−
1998 09 23	327	1.1−	0.2+	1998 10 19	327	0.1−	0.1−	2000 03 08	704	0.7+	0.0
1998 09 26	704	(2.8+	1.5+)	1998 10 19	327	0.2+	0.5+	2000 03 08	691	0.5−	0.4−
1998 09 26	704	0.9+	1.0−	1998 10 19	327	0.4+	0.1−	2000 03 09	691	0.6−	0.3−
1998 09 26	704	0.3−	0.2−	1998 10 28	704	1.3−	1.3−	2000 03 09	691	0.5−	0.3−
1998 09 26	704	0.5+	0.2−	1998 10 28	704	0.2+	0.4−	2000 03 09	691	0.5−	0.4−
1998 09 26	704	1.2+	0.2−	1998 10 28	704	0.5−	0.8+	2000 03 10	704	0.2−	0.4+
1998 09 27	704	0.5+	0.3+	1998 10 29	704	0.7−	0.7−	2000 03 10	704	0.1+	0.5+
1998 09 27	704	(1.2+	2.2+)	1998 10 29	704	1.6+	0.5+	2000 03 10	704	0.1−	0.2+
1998 09 27	704	0.0	0.3−	1998 10 29	704	0.8−	0.5−	2000 03 10	704	0.2+	0.2+
1998 09 27	704	0.1−	1.0+	1998 10 29	704	1.0+	0.1+	2000 03 10	704	0.0	0.8+
1998 09 27	704	0.8−	0.8−	1998 10 29	704	1.4−	0.3−	2000 03 11	704	0.0	0.7+
1998 10 01	327	1.2+	1.1+	2000 03 08	704	0.4+	0.5−	2000 03 11	704	0.1−	0.2+
1998 10 01	327	(0.5+	2.4+)	2000 03 08	691	0.8−	1.0−	2000 03 11	704	0.4+	0.9+
1998 10 01	327	0.0	1.0+	2000 03 08	704	0.7+	0.1+	2000 03 11	704	0.0	0.2+
1998 10 17	327	0.5+	0.2+	2000 03 08	704	0.8+	0.4−	2000 03 11	704	0.4+	0.4+

1998 SF₁₁₄ = 1999 XH₂₀₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19145644	ω	307.75209	+0.96201192	+0.25155440		
<i>a</i>	2.9814170	Ω	38.01181	−0.16290412	+0.84073892		
<i>e</i>	0.0921903	<i>i</i>	9.91929	−0.21907832	+0.47945642		
<i>P</i>	5.15	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 25	699	0.5−	0.1+	1998 10 19	699	0.5−	0.1+	1999 12 12	704	0.6−	0.9−
1998 09 25	699	0.7−	0.0	1998 10 28	704	1.1+	0.5−	1999 12 12	704	0.3−	1.0−
1998 09 25	699	0.2−	0.2+	1998 10 28	704	0.7+	1.4−	1999 12 15	704	0.2+	0.0
1998 09 26	704	0.1+	0.7+	1998 10 28	704	(2.6−	3.8−)	1999 12 15	704	0.2−	0.3+
1998 09 26	704	0.0	0.6−	1998 10 28	704	1.9−	0.1+	1999 12 15	704	0.0	0.5−
1998 09 26	704	0.1−	0.3+	1998 10 29	704	(0.2+	3.0+)	1999 12 15	704	0.1−	0.4−
1998 09 26	704	0.4+	1.0−	1998 10 29	704	(0.0	2.9+)	1999 12 15	704	0.0	0.5−
1998 09 26	704	0.8+	0.9−	1998 10 29	704	(0.1−	2.5+)	2000 01 02	704	0.2−	0.6+
1998 09 27	704	0.0	0.2+	1998 10 29	704	0.9+	1.6+	2000 01 02	704	0.4−	0.4+
1998 09 27	704	0.4+	0.3+	1998 10 29	704	0.1−	1.6+	2000 01 02	704	0.4+	0.1−
1998 09 27	704	0.3−	0.2−	1998 11 06	699	1.0−	0.1−	2000 01 29	704	0.3+	1.3+
1998 09 27	704	0.5+	0.3−	1998 11 06	699	0.0	0.3+	2000 01 29	704	0.4+	1.5+
1998 09 27	704	0.0	0.5−	1998 11 06	699	0.1+	0.2−	2000 01 29	704	(1.1+	2.2+)
1998 10 19	699	0.3+	0.3+	1999 12 12	704	0.1+	0.2−	2000 01 29	704	(0.2−	2.2+)
1998 10 19	699	0.2−	0.4+	1999 12 12	704	0.1−	0.8−				

1998 SK₁₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	27.07046	ω	107.47818	−0.50105619	−0.86401102		
<i>a</i>	2.6583883	Ω	12.93891	+0.68680836	−0.43164139		
<i>e</i>	0.1329033	<i>i</i>	12.71180	+0.52653297	−0.25917305		
<i>P</i>	4.33	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1980 06 23	413	0.6−	0.1−	1998 10 15	327	0.2+	0.4+	2000 02 03	704	0.2−	0.4+
1980 06 23	413	0.4−	1.1+	1998 10 20	327	0.2+	0.4+	2000 02 03	704	0.0	0.4+
1987 04 27	675	0.3+	1.1−	1998 10 20	327	0.2+	0.3+	2000 02 03	704	0.7−	0.7+
1987 04 27	675	1.1−	0.5−	1998 10 20	327	0.2+	0.2+	2000 02 03	704	0.5−	0.8+
1989 09 05	413	0.5−	0.3+	1998 10 20	120	0.1+	0.0	2000 02 03	704	0.7−	0.6+
1989 09 05	413	0.0	0.2+	1998 10 20	120	0.6+	0.4−	2000 02 26	628	0.9+	0.2+
1989 10 28	413	0.3+	0.6+	1998 10 27	120	1.6+	0.2−	2000 02 26	628	1.1+	0.5+
1989 10 28	413	0.4+	0.6−	1998 10 27	120	0.2+	0.7−	2000 02 26	127	0.6+	0.1+
1992 04 09	413	0.7+	0.2+	1998 10 28	704	0.2+	0.7−	2000 02 26	127	0.4+	0.1+
1992 04 09	413	0.6+	0.5+	1998 10 28	704	0.5−	0.1−	2000 02 26	628	0.1−	0.7+
1996 03 21	566	0.6−	0.0	1998 10 28	704	0.0	1.6−	2000 02 26	628	0.1+	0.4+
1996 03 21	566	0.8−	0.2+	1998 10 28	704	0.4+	0.2−	2000 02 26	628	0.4+	0.2+
1996 03 21	566	0.5−	0.1+	1998 10 28	704	0.7+	0.1+	2000 02 26	628	1.1+	0.4+
1998 09 14	327	0.1+	0.4+	1998 10 29	704	0.9+	1.1−	2000 02 28	850	0.5+	0.3−
1998 09 14	327	0.4−	0.1−	1998 10 29	704	0.0	0.1−	2000 02 28	850	0.1+	0.4−
1998 09 14	327	0.1−	0.4+	1998 10 29	704	0.4+	0.9+	2000 02 28	850	0.2+	0.7−
1998 09 15	699	0.5−	0.2−	1998 10 29	704	0.7+	1.1+	2000 02 28	850	0.4+	0.7−
1998 09 15	699	0.3+	0.1+	1998 10 29	704	1.0+	0.9+	2000 03 04	704	0.2−	0.1+
1998 09 15	699	0.1+	0.1+	1998 11 10	699	0.2−	0.2−	2000 03 04	704	0.0	0.1+
1998 09 26	704	0.5−	0.0	1998 11 10	699	0.6−	0.4+	2000 03 04	704	0.0	0.3+
1998 09 26	704	0.6−	1.3−	1998 11 10	699	0.1−	0.8−	2000 03 04	704	0.3−	0.1+
1998 09 26	704	0.7−	0.5+	1998 11 15	327	0.3+	0.2−	2000 03 04	704	0.3+	0.5+
1998 09 26	704	0.3−	1.0+	1998 11 15	327	0.2−	0.1+	2000 03 11	699	0.0	0.1−
1998 09 26	704	0.6−	0.3−	1998 11 15	327	0.3−	0.1−	2000 03 11	699	0.1+	0.1−
1998 09 27	704	0.0	0.3+	1999 01 11	704	0.9−	1.0+	2000 03 11	699	0.0	0.1−
1998 09 27	704	0.8−	0.3+	1999 01 11	704	0.1−	1.0+	2000 03 11	699	0.1−	0.3+
1998 09 27	704	0.5−	0.1+	1999 01 11	704	(1.0−	2.4+)	2000 03 12	704	0.2+	0.4−
1998 09 27	704	0.2−	0.6−	1999 01 11	704	0.8+	0.6+	2000 03 12	704	0.1+	0.3−
1998 09 27	704	1.5−	1.2−	1999 12 17	699	1.0−	0.7−	2000 03 12	704	0.1−	0.5−
1998 10 15	327	0.0	0.1+	1999 12 17	699	0.0	0.8−	2000 03 12	704	0.3−	0.7−
1998 10 15	327	0.1+	0.2+	1999 12 17	699	0.4−	1.9+	2000 03 12	704	0.1+	0.6−

2000 MAR. 20

M.P.C. 39251

Residuals in seconds of arc

1989 10 28	675	0.3+	0.6-	1998 10 11	699	0.3+	0.1-	1999 01 11	704	0.0	1.2-
1989 10 28	675	0.9-	0.8-	1998 10 11	699	0.6-	0.1+	1999 02 04	699	0.6+	1.8-
1990 01 23	675	0.4-	0.5-	1998 10 28	704	0.1-	0.4-	1999 02 04	699	0.0	0.9+
1990 01 23	675	0.6+	0.2+	1998 10 28	704	0.2+	0.4-	1999 02 04	699	0.4+	0.9-
1998 09 17	699	0.2-	0.6+	1998 10 28	704	0.4-	0.1-	1999 12 09	703	0.3+	0.7+
1998 09 17	699	0.0	0.5+	1998 10 28	704	0.9-	0.5+	1999 12 09	703	0.2+	0.7+
1998 09 17	699	0.0	0.4+	1998 10 28	704	0.1+	0.8+	1999 12 09	703	0.2-	0.3+
1998 09 26	704	0.0	1.5-	1998 10 29	704	0.7+	0.3-	1999 12 09	703	0.4-	0.4+
1998 09 26	704	0.5-	0.4-	1998 10 29	704	0.3+	0.6+	2000 01 03	704	1.0+	0.5-
1998 09 26	704	0.3+	0.3+	1998 10 29	704	0.4-	0.0	2000 01 03	704	0.1-	0.6-
1998 09 26	704	0.1+	0.9-	1998 10 29	704	0.1+	0.9-	2000 01 03	704	0.3+	0.2-
1998 09 26	704	0.1+	0.4-	1998 10 29	704	0.1-	0.0	2000 01 03	704	0.3+	0.7-
1998 09 27	704	0.3-	0.4-	1998 11 20	699	0.0	0.1+	2000 01 03	704	0.0	0.5+
1998 09 27	704	0.1+	0.5+	1998 11 20	699	0.4-	0.2+	2000 01 31	704	0.5-	0.1+
1998 09 27	704	0.0	0.3+	1998 11 20	699	0.1+	0.2+	2000 01 31	704	0.7-	0.7+
1998 09 27	704	0.7+	0.7+	1999 01 11	704	0.3-	0.3-	2000 01 31	704	0.5+	0.3+
1998 09 27	704	0.4+	0.6+	1999 01 11	704	0.0	1.6+				
1998 10 11	699	0.3-	0.1+	1999 01 11	704	0.1+	1.6+				

1998 SV₁₁₇ = 2000 EE₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	111.01863	(2000.0)	
<i>n</i>	0.25609575	ω 77.32699	+0.70899873
<i>a</i>	2.4558460	Ω 327.48431	+0.63022770
<i>e</i>	0.1655732	<i>i</i> 2.32840	+0.31643933
<i>P</i>	3.85	<i>H</i> 14.8	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	699	1.1-	0.5+	1998 10 28	704	0.9+	0.7-	2000 02 27	703	0.2-	0.2+
1998 09 14	699	0.2-	0.4+	1998 10 28	704	0.6-	0.1-	2000 02 27	703	0.7-	0.3+
1998 09 14	699	0.2-	1.0+	1998 10 29	704	1.0+	0.5-	2000 03 04	688	0.5-	0.7+
1998 09 26	704	1.0+	0.3+	1998 10 29	704	0.8-	0.2-	2000 03 04	688	0.8-	0.4+
1998 09 26	704	1.1+	0.5+	1998 10 29	704	0.5-	0.4+	2000 03 08	704	0.0	0.0
1998 09 26	704	0.3-	1.0-	1998 10 29	704	0.4-	0.6+	2000 03 08	704	0.1-	0.7-
1998 09 26	704	0.6+	0.2-	1998 10 29	704	1.0+	0.5+	2000 03 08	704	0.9-	0.5+
1998 09 26	704	0.1-	0.4+	1998 11 10	699	0.1-	0.1-	2000 03 08	704	0.2+	0.4+
1998 09 27	704	0.7-	0.3-	1998 11 10	699	1.0-	0.6+	2000 03 11	704	0.1+	0.2+
1998 09 27	704	0.2+	0.4+	1998 11 10	699	0.5-	0.6-	2000 03 11	704	0.4-	0.0
1998 09 27	704	0.3-	0.9+	2000 02 08	704	0.7+	0.1-	2000 03 11	704	0.0	0.9+
1998 09 27	704	0.1+	0.6+	2000 02 08	704	1.3+	0.8-	2000 03 11	704	0.2-	0.8+
1998 09 27	704	1.1-	1.1-	2000 02 08	704	0.6+	0.6-	2000 03 11	704	0.1-	1.0+
1998 10 28	704	1.4+	0.3-	2000 02 08	704	0.3-	0.8+	2000 03 11	049	1.2+	1.4-
1998 10 28	704	0.4+	1.0-	2000 02 27	703	(2.1-	0.2+)	2000 03 11	049	0.6+	1.3-
1998 10 28	704	0.3-	0.1+	2000 02 27	703	0.0	0.8+	2000 03 11	049	0.1+	1.0-

1998 SL₁₁₈ = 2000 DW₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	74.08999	(2000.0)	
<i>n</i>	0.18801133	ω 51.82953	+0.58988718
<i>a</i>	3.0177276	Ω 2.02205	+0.73303006
<i>e</i>	0.2434027	<i>i</i> 1.39538	+0.33867396
<i>P</i>	5.24	<i>H</i> 14.7	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	1.1-	0.2-	1998 10 28	704	1.6-	0.4-	2000 03 03	704	0.3-	0.0
1998 09 26	704	0.5+	0.6-	1998 10 29	704	0.7+	0.5-	2000 03 03	704	0.3+	0.1-
1998 09 26	704	0.5-	0.8-	1998 10 29	704	(0.8+	2.3-)	2000 03 03	704	0.4-	0.4-
1998 09 26	704	0.2-	1.1-	1998 10 29	704	(0.4-	2.4-)	2000 03 03	704	0.0	0.1-
1998 09 27	704	0.5+	0.9+	1998 10 29	704	0.6-	0.3+	2000 03 04	704	0.5+	0.6+
1998 09 27	704	0.5-	0.5+	1998 10 29	704	0.5+	0.5-	2000 03 04	704	0.1+	0.3+
1998 09 27	704	0.2-	1.3+	1998 11 10	699	0.4-	0.2+	2000 03 04	704	0.3+	0.2+
1998 09 27	704	0.9+	0.1+	1998 11 10	699	1.0+	0.8+	2000 03 04	704	0.6-	0.8+
1998 09 27	704	0.1-	0.6+	1998 11 10	699	0.7-	0.2+	2000 03 11	704	0.5-	0.2-
1998 10 11	699	0.1+	0.6+	2000 02 29	704	0.1-	0.2-	2000 03 11	704	0.4+	0.4+
1998 10 11	699	0.2-	0.6+	2000 02 29	704	0.4+	0.8-	2000 03 11	699	0.9-	0.1+

1998 10 11	699	0.1-	0.4+	2000 02 29	704	0.1-	0.2-	2000 03 11	704	0.0	0.6+
1998 10 28	704	0.4+	1.0-	2000 02 29	704	0.1-	0.1-	2000 03 11	699	0.4-	0.0
1998 10 28	704	1.7+	1.8-	2000 02 29	704	0.6+	0.8+	2000 03 11	699	0.8+	0.8-
1998 10 28	704	0.4-	0.6+	2000 03 03	704	0.2+	0.1+	2000 03 11	699	0.1-	0.8-

1998 ST₁₁₈ = 2000 EF₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	18.54865	(2000.0)	
<i>n</i>	0.28707203	ω 117.83950	-0.88367478
<i>a</i>	2.2758421	Ω 34.32133	+0.41060127
<i>e</i>	0.0905752	<i>i</i> 2.78098	+0.22477872
<i>P</i>	3.43	<i>H</i> 15.2	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.6+	0.3+	2000 02 27	703	0.2+	0.5+	2000 03 08	704	0.3-	0.3+
1998 09 26	704	0.5+	0.1-	2000 02 27	703	0.8-	0.2+	2000 03 10	704	0.3+	0.7+
1998 09 26	704	0.6+	0.5-	2000 03 02	104	0.5+	0.7-	2000 03 10	704	0.1+	0.5+
1998 09 26	704	0.0	0.7-	2000 03 03	104	0.9+	0.8-	2000 03 10	704	0.0	0.6+
1998 09 26	704	0.7-	0.9-	2000 03 05	104	0.1+	0.6-	2000 03 10	704	0.0	0.1+
1998 09 27	704	0.4+	1.0+	2000 03 05	104	1.5-	0.0	2000 03 10	704	0.4-	0.7+
1998 09 27	704	1.7-	1.1+	2000 03 05	104	0.4-	0.1-	2000 03 11	704	0.1+	0.6+
1998 09 27	704	1.3-	0.1+	2000 03 05	608	0.4+	1.2-	2000 03 11	704	0.0	0.2+
1998 10 10	699	0.9-	1.5+	2000 03 05	608	0.6+	1.3-	2000 03 11	704	0.7+	0.5+
1998 10 10	699	1.6+	0.9+	2000 03 05	608	0.4+	0.5-	2000 03 11	704	0.1-	0.6+
1998 10 10	699	0.9+	0.1+	2000 03 06	104	0.3-	1.0-	2000 03 11	704	0.1-	0.7+
1998 10 28	704	0.4-	0.4-	2000 03 06	104	0.0	1.1-	2000 03 12	104	0.3-	0.4-
1998 10 28	704	0.7+	1.1-	2000 03 06	104	0.9+	1.0-	2000 03 12	104	0.6-	0.9-
1998 10 28	704	0.2+	0.5-	2000 03 08	704	0.2-	0.3+	2000 03 14	703	0.2-	0.4+
1998 10 28	704	0.9-	0.1-	2000 03 08	704	0.7-	1.2+	2000 03 14	703	0.1-	0.7+
2000 02 27	703	0.8+	0.9+	2000 03 08	704	0.1-	0.2-	2000 03 14	703	0.3-	0.0
2000 02 27	703	0.4+	0.1+	2000 03 08	704	0.2-	0.1+	2000 03 14	703	0.4+	0.4+

1998 SY₁₁₈ = 1998 TE₂₃ = 2000 CW₃₆Id. S. Nakano (d, *MPC* 33590), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	44.76540	(2000.0)	
<i>n</i>	0.23708402	ω 276.25238	-0.26799677
<i>a</i>	2.5854404	Ω 189.29529	+0.89284743
<i>e</i>	0.1148461	<i>i</i> 1.33042	+0.36194087
<i>P</i>	4.16	<i>H</i> 14.7	<i>U</i> 2

Residuals in seconds of arc

1993 07 13	809	0.8-	1.9+	2000 02 02	704	0.3+	0.4+	2000 03 04	704	0.1+	0.3+
1993 07 13	809	0.2+	1.7+	2000 02 02	704	0.3+	0.0	2000 03 04	704	0.6-	0.3-
1993 07 13	809	0.2-	0.8+	2000 02 02	704	0.5+	1.6+	2000 03 04	704	0.1+	0.4+
1998 09 26	704	0.0	1.6-	2000 02 05	704	0.9-	0.4+	2000 03 04	704	0.1-	0.1+
1998 09 26	704	1.0+	1.0-	2000 02 05	704	0.9+	0.2-	2000 03 04	704	0.3+	0.6+
1998 09 26	704	0.3-	0.4-	2000 02 05	704	0.5+	0.3+	2000 03 05	704	0.2+	0.4+
1998 09 26	704	0.6+	0.2+	2000 02 06	704	0.3-	0.4+	2000 03 05	704	0.4+	0.3+
1998 09 26	704	0.6+	0.8+	2000 02 06	704	1.3-	0.4+	2000 03 05	704	0.2-	0.2+
1998 09 27	704	0.4+	0.5-	2000 02 06	704	0.9-	0.2+	2000 03 05	704	0.2-	0.2+
1998 09 27	704	1.3-	0.5+	2000 02 06	704	0.1+	0.5+	2000 03 05	704	0.2-	0.5+
1998 09 27	704	0.1+	1.1+	2000 02 27	739	0.4-	0.4-	2000 03 11	699	0.1+	0.3+
1998 09 27	704	0.1-	1.7+	2000 02 27	739	0.0	0.6-	2000 03 11	704	0.0	0.0
1998 10 14	691	0.3+	0.4+	2000 02 27	739	0.4-	0.6-	2000 03 11	699	0.0	0.6-
1998 10 14	691	0.5+	0.2+	2000 02 28	739	(2.0+	3.8-)	2000 03 11	704	0.2-	0.3+
1998 10 14	691	0.4+	0.2+	2000 02 28	739	1.9+	0.5-	2000 03 11	699	0.2+	0.0
1998 10 15	327	0.1-	0.5+	2000 02 28	739	0.4+	0.4-	2000 03 11	704	0.4+	0.1+
1998 10 15	327	1.2-	0.9+	2000 02 29	704	0.1-	0.0	2000 03 11	704	0.5+	0.0
1998 10 15	327	0.0	1.8+	2000 02 29	704	0.5+	0.5+	2000 03 11	699	0.1+	0.3-
1998 10 19	691	0.9-	0.1-	2000 02 29	704	0.5+	0.4+	2000 03 11	704	0.1+	0.4+
1998 10 19	691	0.9+	0.0	2000 02 29	704	0.4+	0.3+	2000 03 15	704	0.0	0.2+
1998 10 19	691	0.8-	0.1+	2000 03 03	704	0.3+	0.0	2000 03 15	704	0.3-	0.1-
1999 01 05	910	0.0	0.0	2000 03 03	704	0.3+	0.2-	2000 03 15	704	0.5-	0.8+
1999 01 05	910	0.3-	0.4-	2000 03 03	704	0.1-	0.3-	2000 03 15	704	0.4-	0.6+

M.P.C. 39252

2000 MAR. 20

1999 01 05 910 0.4+ 0.1- 2000 03 03 704 0.1- 0.1- 2000 03 15 704 0.1+ 0.2+
 2000 02 02 704 0.1- 0.3- 2000 03 03 704 0.1+ 0.2+

1998 SB₁₂₂ = 2000 DT₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	142.49116	(2000.0)	
	P	Q	
<i>n</i>	0.25539643	ω 55.46615	+0.99555041 -0.08939136
<i>a</i>	2.4603270	Ω 309.64362	+0.06866822 +0.90485789
<i>e</i>	0.0755049	<i>i</i> 2.21854	+0.06452945 +0.41622276
<i>P</i>	3.86	<i>H</i> 15.2	<i>G</i> 0.15 <i>U</i> 5

Residuals in seconds of arc

1998 09 26	704	0.5+	0.8-	1998 10 28	704	0.4-	0.8-	2000 03 03	704	0.7+	0.3-
1998 09 26	704	0.5-	0.9+	1998 10 29	704	0.5-	0.3+	2000 03 03	704	0.4+	0.4-
1998 09 26	704	1.3+	0.6-	1998 10 29	704	(0.4+	2.2+)	2000 03 03	704	0.3+	0.4+
1998 09 26	704	1.2-	0.2+	1998 10 29	704	1.4+	0.5-	2000 03 03	704	0.2-	0.3+
1998 09 26	704	0.7+	0.8+	1998 10 29	704	(2.4+	1.2+)	2000 03 09	704	0.5+	0.7+
1998 09 27	704	0.0	0.2+	1998 11 10	704	1.5-	0.5-	2000 03 09	704	0.5-	0.7-
1998 09 27	704	0.5-	0.2+	1998 11 10	704	1.0+	0.3-	2000 03 09	704	0.6-	0.3+
1998 09 27	704	0.3-	0.0	1998 11 10	704	1.1+	0.2-	2000 03 09	704	0.4-	0.1+
1998 09 27	704	1.9-	0.2-	1998 11 10	704	1.4-	0.0	2000 03 11	704	0.6+	0.3+
1998 10 17	699	0.1+	0.2-	2000 02 29	704	0.3+	0.9-	2000 03 11	704	0.0	0.3+
1998 10 17	699	0.7+	0.3+	2000 02 29	704	0.3+	0.6-	2000 03 11	704	0.3+	1.0+
1998 10 17	699	1.2+	0.0	2000 02 29	704	0.1-	0.3-	2000 03 11	704	0.0	0.1-
1998 10 28	704	0.8+	0.5+	2000 02 29	704	0.0	0.2+	2000 03 11	704	1.5-	0.4-
1998 10 28	704	1.1-	0.7+	2000 02 29	704	0.3-	0.2+				
1998 10 28	704	(2.5-	2.4-)	2000 03 03	704	0.2+	0.2+				

1998 SJ₁₂₃ = 2000 DR₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	273.58980	(2000.0)	
	P	Q	
<i>n</i>	0.27445291	ω 226.81692	-0.49239613 +0.86998750
<i>a</i>	2.3450791	Ω 13.75249	-0.76370264 -0.41761802
<i>e</i>	0.0579074	<i>i</i> 6.24057	-0.41749770 -0.26213915
<i>P</i>	3.59	<i>H</i> 14.3	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 18	699	0.2-	0.5+	1998 10 29	704	1.4-	0.2-	2000 02 11	704	1.1-	0.7-
1998 09 18	699	0.5+	0.9+	1998 10 29	704	0.3+	1.0-	2000 02 11	704	0.6-	0.5-
1998 09 18	699	1.3-	0.9+	1999 12 08	704	0.3+	0.9-	2000 02 28	704	0.3-	0.1-
1998 09 26	704	0.7-	0.1-	1999 12 08	704	0.6-	0.4-	2000 02 28	704	0.0	0.1-
1998 09 26	704	0.9+	1.9-	1999 12 08	704	0.0	0.1-	2000 02 28	704	0.2-	0.1+
1998 09 26	704	1.2+	0.4-	2000 02 03	704	0.0	0.9+	2000 02 28	704	0.1-	0.2+
1998 09 27	704	0.5+	0.7+	2000 02 03	704	0.2+	0.6+	2000 02 28	704	0.2+	0.3+
1998 09 27	704	0.5+	0.6+	2000 02 03	704	0.6-	1.0+	2000 03 04	704	0.1+	0.2-
1998 09 27	704	0.3-	1.2+	2000 02 03	704	1.1+	0.6+	2000 03 04	704	0.1+	0.1+
1998 09 27	704	1.2+	1.0-	2000 02 03	704	0.5+	0.0	2000 03 04	704	0.4+	0.1+
1998 09 27	704	0.6-	0.3-	2000 02 06	703	0.1-	0.2+	2000 03 04	704	0.3+	0.2+
1998 10 28	704	0.9+	0.7-	2000 02 06	703	0.6-	0.1-	2000 03 04	704	0.4+	0.0
1998 10 28	704	0.5-	0.8-	2000 02 06	703	0.5-	0.2-	2000 03 12	704	0.4+	0.2+
1998 10 28	704	0.8-	0.7+	2000 02 06	703	0.5+	0.1-	2000 03 12	704	0.8+	0.1+
1998 10 29	704	0.0	0.4-	2000 02 11	704	0.6-	0.2-	2000 03 12	704	0.4-	0.4+
1998 10 29	704	0.5+	1.3+	2000 02 11	704	0.4+	0.5-	2000 03 12	704	0.1+	0.2-
1998 10 29	704	0.9-	0.6+	2000 02 11	704	0.6-	0.6-	2000 03 12	704	0.7+	0.2-

1998 SE₁₂₄ = 2000 EK₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	78.25106	(2000.0)	
	P	Q	
<i>n</i>	0.26734452	ω 264.03621	+0.10559802 -0.99440888
<i>a</i>	2.3864657	Ω 179.90155	+0.95084071 +0.10091491
<i>e</i>	0.0849735	<i>i</i> 6.41504	+0.29112024 +0.03109916
<i>P</i>	3.69	<i>H</i> 15.5	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	1.1+	0.4-	1998 10 28	704	1.5-	0.7-	2000 03 08	704	0.0	0.4+
1998 09 26	704	1.1-	1.0-	1998 10 29	704	0.2-	1.2-	2000 03 08	704	1.3+	0.6+
1998 09 26	704	0.1+	0.6+	1998 10 29	704	1.5+	0.7+	2000 03 08	704	1.5+	0.1+
1998 09 26	704	0.9+	1.0+	1998 10 29	704	0.5-	0.1+	2000 03 11	704	0.6-	0.2-
1998 09 26	704	1.7-	0.3-	1998 10 29	704	1.2-	0.4-	2000 03 11	704	0.2-	0.3-
1998 09 27	704	0.2+	1.6-	2000 03 05	143	1.2-	0.4+	2000 03 11	704	0.4-	0.1+
1998 09 27	704	0.7+	1.5+	2000 03 05	143	(2.2-	3.8+)	2000 03 11	704	0.3+	0.3-
1998 09 27	704	0.8+	1.0+	2000 03 06	143	1.2+	0.7-	2000 03 11	704	0.2-	0.5+
1998 09 27	704	1.5-	0.6-	2000 03 06	143	1.0-	0.9-	2000 03 14	703	0.5-	0.6-
1998 10 28	704	0.3+	0.8-	2000 03 06	143	(2.8-	0.7-)	2000 03 14	703	0.6+	1.8+
1998 10 28	704	0.6+	1.4+	2000 03 07	143	(0.8-	2.1-)	2000 03 14	703	0.1-	0.1-
1998 10 28	704	0.5+	0.5-	2000 03 07	143	(2.5-	0.5-)	2000 03 14	703	0.3-	0.5+
1998 10 28	704	0.9+	1.5+	2000 03 07	143	0.4-	1.3-				

1998 SD₁₂₅ = 2000 BL₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	29.55219	(2000.0)	
	P	Q	
<i>n</i>	0.19027266	ω 61.64574	-0.03849052 -0.99416587
<i>a</i>	2.9937702	Ω 31.06152	+0.83477946 -0.08741466
<i>e</i>	0.0757633	<i>i</i> 11.26157	+0.54923741 +0.06318943
<i>P</i>	5.18	<i>H</i> 13.7	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.3+	0.3-	1998 10 28	704	0.2+	0.3+	2000 01 10	699	0.0	0.3+
1998 09 26	704	1.1+	0.1+	1998 10 28	704	0.5+	0.9+	2000 01 10	699	0.3+	0.4+
1998 09 26	704	(0.8-	2.6-)	1998 10 28	704	1.0-	0.8-	2000 01 29	704	0.7-	0.3+
1998 09 26	704	0.8+	0.9-	1998 10 29	704	0.5-	1.0-	2000 01 29	704	0.0	0.3+
1998 09 26	704	0.6-	0.9+	1998 10 29	704	0.2+	0.0	2000 01 29	704	0.4+	0.5+
1998 09 27	704	0.6-	0.7+	1998 10 29	704	0.2-	0.6-	2000 01 29	704	0.0	0.0
1998 09 27	704	0.8+	0.6+	1998 10 29	704	0.6+	1.8+	2000 01 29	704	0.2+	0.7+
1998 09 27	704	0.5-	0.7-	1998 10 29	704	1.6-	0.1+	2000 01 30	704	0.3-	0.4+
1998 09 27	704	1.8-	1.0-	2000 01 02	704	1.1-	0.6-	2000 01 30	704	0.3+	0.1-
1998 10 10	699	1.2+	0.4-	2000 01 02	704	0.3+	1.0-	2000 01 30	704	0.5+	0.2-
1998 10 10	699	1.2+	0.6+	2000 01 02	704	1.2-	1.1-	2000 01 30	704	1.1+	0.3-
1998 10 10	699	0.2-	0.2-	2000 01 10	699	0.0	0.3+				

1998 SK₁₂₇ = 2000 DN₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	164.96742	(2000.0)	
	P	Q	
<i>n</i>	0.28006001	ω 186.51910	+0.91546183 +0.39973569
<i>a</i>	2.3136730	Ω 149.78679	-0.36492234 +0.87314399
<i>e</i>	0.2690388	<i>i</i> 5.27582	-0.16959164 +0.27898200
<i>P</i>	3.52	<i>H</i> 14.7	<i>G</i> 0.15 <i>U</i> 3

Residuals in seconds of arc

1998 06 29	704	1.8+	0.1-	1998 10 28	704	0.7+	1.4-	2000 02 27	703	0.1+	1.6+
1998 06 29	704	0.8-	0.1-	1998 10 28	704	0.6-	0.9-	2000 02 27	703	1.2+	1.2-
1998 06 29	704	1.2-	0.5+	1998 10 29	704	0.3-	0.1-	2000 02 27	703	0.4-	0.0
1998 09 24	699	0.2-	0.7+	1998 10 29	704	0.7+	0.8-	2000 02 29	704	0.8-	0.2+
1998 09 24	699	0.0	1.6+	1998 10 29	704	0.0	0.1-	2000 02 29	704	0.3-	0.3-
1998 09 24	699	0.5-	0.9+	1998 10 29	704	0.5+	0.6+	2000 02 29	704	0.7-	0.1-
1998 09 26	704	0.1-	1.5+	1998 11 11	704	0.5+	0.6-	2000 02 29	704	0.2-	0.3-
1998 09 26	704	0.1-	0.5-	1998 11 11	704	(2.3-	1.9-)	2000 02 29	704	0.4+	0.5-
1998 09 26	704	0.1+	0.4-	1998 11 11	704	0.6-	1.3+	2000 03 03	704	0.3+	1.2+
1998 09 26	704	0.1-	0.9+	1998 11 11	704	1.1-	0.0	2000 03 03	704	0.2-	0.4+
1998 09 27	704	0.6-	0.2+	1998 11 11	704	(2.7-	0.6-)	2000 03 03	704	0.3-	0.3-
1998 09 27	704	0.2-	0.5+	1998 12 14	699	0.7+	0.2-	2000 03 03	704	0.0	0.1-
1998 09 27	704	0.1+	0.7+	1998 12 14	699	0.4-	0.5-	2000 03 03	704	0.3+	0.3+
1998 09 27	704	0.2+	0.2-	1998 12 14	699	0.2-	0.2-	2000 03 05	704	0.1-	1.0+
1998 09 27	704	0.8-	0.1+	2000 02 26	691	0.5-	0.7-	2000 03 05	704	0.2-	0.5+
1998 10 28	704										

2000 MAR. 20

M.P.C. 39253

1998 SY₁₂₈ = 2000 DL₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27319316	ω	122.38572	−0.93781984	−0.33927820		
<i>a</i>	2.3522826	Ω	37.92472	+0.26464790	−0.83563043		
<i>e</i>	0.0381218	<i>i</i>	6.85665	+0.22462289	−0.43198621		
<i>P</i>	3.61	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 18	699	1.3−	0.1+	1998 10 29	704	0.1−	0.3+	2000 03 02	703	0.4−	0.4+
1998 09 18	699	0.1−	0.3−	1998 10 29	704	(3.2+ 1.9+)		2000 03 02	703	0.8−	0.4−
1998 09 18	699	0.0	0.6+	1998 10 29	704	1.2+ 0.6+		2000 03 02	703	1.7−	0.2−
1998 09 26	704	1.5−	0.1+	1998 11 10	704	1.5−	0.4−	2000 03 02	703	0.8−	0.3−
1998 09 26	704	0.8+	0.8−	1998 11 10	704	0.8−	0.5+	2000 03 05	704	0.1+	0.4−
1998 09 26	704	0.2+	0.7−	1998 11 10	704	0.4+	0.2−	2000 03 05	704	0.3+	0.7+
1998 09 26	704	0.8−	0.3+	1998 11 10	704	0.2−	1.2+	2000 03 05	704	0.3−	0.4+
1998 09 27	704	0.0	0.4−	2000 01 04	704	0.8−	0.7−	2000 03 05	704	0.0	0.5+
1998 09 27	704	0.0	0.1−	2000 01 04	704	0.1+	1.1−	2000 03 05	704	0.0	0.3+
1998 09 27	704	0.0	1.0+	2000 01 04	704	0.5−	0.7−	2000 03 09	704	0.3−	0.2+
1998 09 27	704	0.0	0.1−	2000 02 04	704	0.2−	0.9−	2000 03 09	704	0.5−	0.6+
1998 09 27	704	0.2−	0.4−	2000 02 04	704	0.3−	0.3−	2000 03 09	704	0.2−	0.4+
1998 10 10	699	0.5+	0.5−	2000 02 04	704	0.0	0.2−	2000 03 09	704	0.0	0.2+
1998 10 10	699	0.3+	0.2+	2000 02 04	704	0.3+	0.0	2000 03 09	704	0.2+	0.2+
1998 10 10	699	1.4+	0.5+	2000 02 04	704	0.9+	0.6+	2000 03 12	704	0.3+	0.2+
1998 10 28	704	0.4+	0.8−	2000 02 29	704	0.2−	0.5+	2000 03 12	704	0.6+	0.1−
1998 10 28	704	0.5−	0.5+	2000 02 29	704	0.5+	0.2−	2000 03 12	704	0.2+	0.4+
1998 10 28	704	0.3−	0.9−	2000 02 29	704	0.7+	0.5−	2000 03 12	704	0.6+	0.5+
1998 10 28	704	1.0+	0.8+	2000 02 29	704	0.4+	0.1−	2000 03 12	704	0.7+	0.2+
1998 10 29	704	(1.0+ 2.3+)		2000 02 29	704	1.2+	0.0				

1998 SJ₁₃₀ = 2000 CY₁₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25767671	ω	36.64244	−0.61682861	+0.78668375		
<i>a</i>	2.4457906	Ω	195.32627	−0.74312954	−0.59274974		
<i>e</i>	0.0945155	<i>i</i>	5.54008	−0.25938574	−0.17255845		
<i>P</i>	3.82	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.6−	1.4−	1998 10 29	704	1.3+	0.3+	2000 02 04	704	0.3−	0.9−
1998 09 26	704	0.6−	0.4+	1998 10 29	704	0.1−	1.7+	2000 02 04	704	1.1−	0.6+
1998 09 26	704	1.8−	0.5−	1998 10 29	704	0.7+	0.7+	2000 02 04	704	0.1−	0.2+
1998 09 26	704	0.2−	0.9+	1998 10 29	704	0.7−	0.1−	2000 02 04	704	0.3+	0.0
1998 09 27	704	0.9+	1.4−	2000 01 07	704	0.7+	0.4−	2000 02 12	704	0.2+	0.4+
1998 09 27	704	0.8−	0.3−	2000 01 07	704	0.1+	0.3−	2000 02 12	704	0.4−	0.5+
1998 09 27	704	1.1+	1.8+	2000 01 07	704	0.4+	0.4−	2000 02 12	704	1.7−	1.1+
1998 09 27	704	1.0+	0.4−	2000 01 07	704	0.5+	0.5−	2000 03 05	704	0.9+	0.1−
1998 09 27	704	0.6−	0.5+	2000 01 07	704	1.0+	1.2−	2000 03 05	704	0.1−	0.1−
1998 10 28	704	0.4+	1.2−	2000 02 02	704	0.2−	0.0	2000 03 05	704	0.1+	0.3−
1998 10 28	704	0.7+	0.5+	2000 02 02	704	0.5−	0.3+	2000 03 05	704	0.2+	0.5−
1998 10 28	704	0.7−	1.2−	2000 02 02	704	0.2+	0.4+	2000 03 05	704	0.1−	0.1−
1998 10 28	704	(2.6− 0.1−)		2000 02 02	704	0.0	0.9+				

1998 SD₁₃₂ = 2000 CV₃₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23563171	ω	14.28037	+0.88313867	+0.46629342		
<i>a</i>	2.5960530	Ω	317.80223	−0.43755464	+0.77931296		
<i>e</i>	0.1645507	<i>i</i>	4.38423	−0.16915088	+0.41861888		
<i>P</i>	4.18	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 26	704	0.4+	0.1−	1998 10 28	704	0.6−	0.5−	1998 11 17	699	0.2+	0.6−
1998 09 26	704	0.6−	0.2−	1998 10 29	704	0.0	0.3+	1998 11 17	699	0.8−	0.8+
1998 09 26	704	0.6−	0.8−	1998 10 29	704	0.5−	0.7+	2000 02 03	704	0.5+	0.5−
1998 09 26	704	0.5+	1.4−	1998 10 29	704	0.0	0.2+	2000 02 03	704	0.4−	0.2+
1998 09 26	704	0.2−	0.9−	1998 10 29	704	0.0	0.5+	2000 02 03	704	0.1−	0.6+
1998 09 27	704	0.3+	0.2−	1998 10 29	704	0.4−	0.1+	2000 02 03	704	0.6+	1.4+
1998 09 27	704	0.5−	0.1−	1998 11 10	704	0.4−	0.1+	2000 02 05	704	0.8+	0.3+
1998 09 27	704	0.9+	0.4+	1998 11 10	704	0.1+	0.2+	2000 02 05	704	0.8+	0.5−
1998 09 27	704	0.5−	0.2+	1998 11 10	704	0.4−	0.5−	2000 02 05	704	0.8−	0.2+
1998 09 27	704	0.0	0.1−	1998 11 10	704	0.6−	0.4−	2000 02 05	704	0.5−	1.1−
1998 10 11	699	0.8+	0.4−	1998 11 11	704	0.3+	0.5+	2000 02 11	704	0.6−	0.7+
1998 10 11	699	1.0+	0.2−	1998 11 11	704	1.0−	0.5−	2000 02 11	704	0.2+	0.0
1998 10 11	699	0.5+	0.3+	1998 11 11	704	0.4+	0.0	2000 02 11	704	0.6−	1.5−
1998 10 28	704	0.4+	0.6+	1998 11 11	704	1.0+	1.1+	2000 02 11	704	0.3−	0.7−
1998 10 28	704	0.3−	0.7+	1998 11 11	704	0.9−	0.2−				
1998 10 28	704	0.4+	0.1+	1998 11 17	699	0.8+	0.1+				

1998 SL₁₃₂ = 2000 DA₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29399670	ω	344.84515	+0.78240147	+0.62182718		
<i>a</i>	2.2399642	Ω	336.60008	−0.56201751	+0.68124603		
<i>e</i>	0.1726780	<i>i</i>	4.95966	−0.26829883	+0.38630921		
<i>P</i>	3.35	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 26	704	0.9−	1.0+	1998 10 29	704	1.5−	0.1+	2000 03 09	704	0.3−	0.3−
1998 09 26	704	0.8+	0.6−	1998 10 29	704	0.1+	0.1+	2000 03 09	704	0.4−	0.3+
1998 09 26	704	0.7−	0.9+	1998 10 29	704	0.4+	1.5−	2000 03 09	704	0.3+	1.0+
1998 09 26	704	0.6+	0.0	1998 11 10	704	1.0+	1.9+	2000 03 09	691	0.2−	0.4−
1998 09 27	704	0.3−	0.7+	1998 11 10	704	0.5+	0.9+	2000 03 09	704	0.4−	0.0
1998 09 27	704	1.1−	1.1+	1998 11 10	704	0.8+	1.2−	2000 03 09	691	0.4−	0.5−
1998 09 27	704	2.0−	0.8+	1998 11 10	704	0.5−	0.6−	2000 03 09	691	0.9−	0.7−
1998 09 27	704	1.6+	1.2−	2000 02 29	704	0.6−	0.5−	2000 03 10	691	0.0	0.4−
1998 09 27	704	0.5+	0.9−	2000 02 29	704	1.0−	0.4+	2000 03 10	691	0.1+	0.3−
1998 10 11	699	1.1+	0.2−	2000 02 29	704	0.1+	0.1−	2000 03 10	691	0.1+	0.0
1998 10 11	699	0.4+	0.1+	2000 02 29	704	0.4−	0.1−	2000 03 11	704	1.0−	0.5−
1998 10 11	699	0.9+	0.1−	2000 02 29	704	0.1+	0.5+	2000 03 11	704	0.4+	0.5+
1998 10 28	704	1.5−	0.4+	2000 03 03	704	0.7+	0.5+	2000 03 11	704	0.1−	0.9+
1998 10 28	704	1.8+	0.6+	2000 03 03	704	0.7+	0.4+	2000 03 11	704	1.1+	0.3−
1998 10 28	704	1.1−	1.0+	2000 03 03	704	0.4+	0.2+	2000 03 11	704	0.3−	0.4−
1998 10 28	704	1.0−	1.8−	2000 03 03	704	1.0+	0.5+				
1998 10 29	704	0.1+	1.2−	2000 03 03	704	1.0+	0.2−				

1998 SO₁₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21044661	ω	192.49803	+0.44874855	−0.88864502		
<i>a</i>	2.7992483	Ω	230.91867	+0.83004080	+0.45365895		
<i>e</i>	0.1558332	<i>i</i>	6.99424	+0.33114500	+0.06710875		
<i>P</i>	4.68	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1989 11 30	675	0.8−	0.4−	1998 10 11	699	1.1+	0.2+	1998 10 29	704	0.6−	0.8−
1989 11 30	675	1.2+	0.2+	1998 10 11	699	0.9+	0.2+	1998 10 29	704	0.6+	0.1+
1990 01 26	675	0.5−	0.0	1998 10 11	699	1.0+	0.3+	1998 11 11	704	0.9+	0.2+
1998 09 26	704	0.4−	0.3+	1998 10 26	910	0.5+	1.2+	1998 11 11	704	0.1−	0.0
1998 09 26	704	0.7+	0.7−	1998 10 26	910	0.4+	0.9+	1998 11 11	704	1.1−	1.8−
1998 09 26	704	1.6+	0.4−	1998 10 26	910	0.4+	1.2+	1998 11 11	704	0.1+	1.0−
1998 09 26	704	1.0+	1.0−	1998 10 28	704	1.0−	0.7+	1999 01 13	691	1.0+	0.8−
1998 09 26	704	1.5−	0.0	1998 10 28	704	0.1−	0.4−	1999 01 13	691	0.7+	0.1−
1998 09 27	704	0.8−	0.1−	1998 10 28	704	0.8−	0.3−	1999 01 13	691	0.3+	0.1−
1998 09 27	704	0.2−	0.0	1998 10 28	704	0.8−	0.3+	1999 01 18	691	0.5−	0.1+
1998 09 27	704	0.6−	0.1+	1998 10 29	704	0.1+	0.5+	1999 01 18	691	1.1−	0.5+

M.P.C. 39254

2000 MAR. 20

1998 09 27 704 0.5− 0.3+ 1998 10 29 704 0.2− 1.7+
 1998 09 27 704 1.6− 1.6− 1998 10 29 704 0.4+ 0.0

1998 SJ₁₃₃ = 2000 EZ₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	140.08289	(2000.0)	P	Q	
<i>n</i>	0.26691758	ω	35.07029	+0.96977376	−0.24368690
<i>a</i>	2.3890098	Ω	339.02345	+0.21515356	+0.87809654
<i>e</i>	0.1733114	<i>i</i>	1.99657	+0.11509912	+0.41178046
<i>P</i>	3.69	<i>H</i>	15.8	<i>G</i>	0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 18	809 (3.1+ 4.0+)	1998 10 29	704 0.2− 1.0−	2000 03 05	704 0.4− 0.5+
1998 09 18	809 (2.8+ 3.3+)	1998 10 29	704 0.2+ 0.9−	2000 03 08	691 0.2− 0.1−
1998 09 18	809 (2.7+ 1.9+)	1998 10 29	704 0.8+ 0.2+	2000 03 08	691 0.3− 0.2−
1998 09 20	809 0.4+ 1.0−	1998 10 29	704 0.2+ 0.7+	2000 03 08	691 0.3− 0.1−
1998 09 20	809 1.0− 1.0−	1998 10 29	704 1.4+ 0.1+	2000 03 10	704 0.2− 0.6+
1998 09 20	809 1.3− 0.8−	1998 11 11	704 1.4− 0.0	2000 03 10	704 0.2− 0.8+
1998 09 26	704 0.1− 0.3+	1998 11 11	704 1.0− 0.5−	2000 03 10	704 0.1+ 0.4+
1998 09 26	704 0.1+ 0.1−	1998 11 11	704 0.2− 1.0−	2000 03 10	691 0.8− 0.3−
1998 09 26	704 0.3+ 0.4+	1998 11 11	704 0.7+ 1.1+	2000 03 10	704 0.9+ 1.8−
1998 09 26	704 0.5+ 0.5+	2000 02 25	691 0.0 0.1−	2000 03 10	691 0.6− 0.0
1998 09 26	704 0.6+ 0.3−	2000 02 25	691 0.0 0.8−	2000 03 10	691 0.7− 0.0
1998 09 27	704 0.5− 0.9+	2000 03 03	704 0.9+ 0.7+	2000 03 11	704 0.5+ 1.1+
1998 09 27	704 0.2− 0.6−	2000 03 03	691 0.1− 0.1+	2000 03 11	704 0.1− 0.5−
1998 09 27	704 0.6+ 1.1+	2000 03 03	704 0.6− 1.6−	2000 03 11	704 0.5− 0.5−
1998 09 27	704 0.7− 0.6+	2000 03 03	704 1.0+ 0.6+	2000 03 11	704 0.1− 0.6+
1998 09 27	704 1.1+ 0.1+	2000 03 03	691 0.1+ 0.1+	2000 03 11	704 0.4− 0.1−
1998 10 28	704 0.3+ 0.5+	2000 03 03	704 0.1+ 0.3−	2000 03 11	704 0.5+ 0.2+
1998 10 28	704 0.1− 0.6+	2000 03 03	691 0.1+ 0.2−	2000 03 11	704 0.7+ 0.1+
1998 10 28	704 0.6− 0.3+	2000 03 03	704 0.5− 0.2−	2000 03 11	704 0.8+ 0.4+
1998 10 28	704 0.8+ 0.1+	2000 03 05	704 0.4+ 0.7+		
1998 10 28	704 1.0− 0.2−	2000 03 05	704 0.1− 0.0		

1998 SB₁₃₄ = 2000 EK₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	108.59448	(2000.0)	P	Q	
<i>n</i>	0.28145893	ω	226.03676	+0.51822808	−0.85494055
<i>a</i>	2.3060003	Ω	192.80606	+0.81109508	+0.49972963
<i>e</i>	0.0659183	<i>i</i>	5.88400	+0.27122762	+0.13909333
<i>P</i>	3.50	<i>H</i>	15.1	<i>G</i>	0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 18	699 0.8− 1.5+	1998 10 10	699 0.6+ 0.3−	2000 03 08	704 0.2− 0.9−
1998 09 18	699 1.3+ 1.4+	1998 10 28	704 0.5+ 0.3+	2000 03 08	704 0.6− 2.0−
1998 09 18	699 0.2+ 0.3−	1998 10 28	704 0.1+ 1.0−	2000 03 08	704 0.3+ 1.0−
1998 09 26	704 0.5+ 1.3−	1998 10 28	704 0.5− 1.3−	2000 03 08	704 0.5+ 0.6+
1998 09 26	704 0.5+ 1.4−	1998 10 28	704 0.5− 1.0+	2000 03 08	704 0.4+ 0.8−
1998 09 26	704 0.2+ 1.1−	1998 10 29	704 1.5+ 0.6−	2000 03 10	704 0.3− 0.1−
1998 09 26	704 0.0 0.7−	1998 10 29	704 0.8+ 0.1+	2000 03 10	704 0.1− 0.1−
1998 09 26	704 0.2+ 0.5−	1998 10 29	704 0.8+ 0.3+	2000 03 10	704 0.1+ 0.3+
1998 09 27	704 0.9− 0.3+	1998 10 29	704 0.4+ 1.4+	2000 03 10	704 0.6+ 0.4+
1998 09 27	704 0.0 0.5−	1998 10 29	704 0.3+ 0.7−	2000 03 10	704 0.1− 0.2+
1998 09 27	704 0.9− 0.7+	1998 11 11	704 0.1− 0.2−	2000 03 11	704 0.1− 0.4+
1998 09 27	704 0.2+ 1.3+	1998 11 11	704 0.6− 0.9+	2000 03 11	704 0.4− 0.6+
1998 09 27	704 1.1− 0.7+	1998 11 11	704 1.8− 0.7−	2000 03 11	704 0.3− 0.7+
1998 10 10	699 0.5− 0.5−	1998 11 11	704 (0.6− 2.5−)	2000 03 11	704 0.1+ 1.0+
1998 10 10	699 1.1− 1.5+	1998 11 11	704 0.6+ 0.1+	2000 03 11	704 0.3+ 1.0+

1998 ST₁₃₄ = 2000 DB₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	84.29751	(2000.0)	P	Q	
<i>n</i>	0.22547901	ω	255.60458	+0.55997647	−0.82841452
<i>a</i>	2.6734084	Ω	160.32575	+0.77370911	+0.51749202
<i>e</i>	0.0804278	<i>i</i>	2.12427	+0.29631160	+0.21431610
<i>P</i>	4.37	<i>H</i>	14.3	<i>G</i>	0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 26	704 0.0 1.6−	1998 11 11	704 0.9+ 1.2+	2000 02 29	704 0.3+ 0.1−
1998 09 26	704 0.4+ 1.9−	1998 11 11	704 0.5+ 1.0+	2000 02 29	704 0.2− 0.2−
1998 09 26	704 (0.7+ 2.3−)	1998 11 11	704 1.3− 0.7+	2000 02 29	704 0.3− 0.4−
1998 09 26	704 1.2+ 0.7−	1998 11 11	704 0.3− 0.5+	2000 02 29	704 0.3+ 0.4−
1998 09 27	704 0.9+ 0.1+	2000 02 02	704 0.1+ 0.4−	2000 02 29	704 0.7+ 0.9−
1998 09 27	704 1.7− 0.0	2000 02 02	704 0.1− 0.5−	2000 03 03	704 0.2+ 0.2−
1998 09 27	704 0.7− 0.3−	2000 02 02	704 0.4− 0.1+	2000 03 03	704 0.9+ 0.1−
1998 09 27	704 0.4+ 1.0+	2000 02 02	704 0.3− 0.4+	2000 03 03	704 0.0 0.1+
1998 09 27	704 0.6− 1.0+	2000 02 02	704 0.0 0.1+	2000 03 03	704 0.1+ 0.2−
1998 10 28	704 1.3+ 0.0	2000 02 04	704 (0.1− 2.1−)	2000 03 03	704 0.3+ 0.2+
1998 10 28	704 0.3+ 0.7−	2000 02 04	704 0.6+ 0.0	2000 03 04	704 0.4− 0.1−
1998 10 28	704 0.1+ 0.3−	2000 02 04	704 1.1+ 0.7−	2000 03 04	704 0.1− 0.0
1998 10 28	704 0.7− 0.5+	2000 02 04	704 (1.6− 2.7+)	2000 03 04	704 0.9− 0.0
1998 10 28	704 1.6+ 0.1+	2000 02 11	704 0.6+ 0.1−	2000 03 04	704 0.8− 0.0
1998 10 29	704 0.5− 0.2+	2000 02 11	704 1.0+ 0.1−	2000 03 04	704 0.5− 0.2−
1998 10 29	704 0.5− 1.9+	2000 02 11	704 0.3− 0.1−	2000 03 05	704 0.2+ 0.1−
1998 10 29	704 0.6− 0.1−	2000 02 11	704 0.4− 0.3+	2000 03 05	704 0.3+ 0.2−
1998 10 29	704 0.5− 0.2+	2000 02 11	704 0.3− 0.2+	2000 03 05	704 0.3− 0.0
1998 11 10	704 1.2− 0.5−	2000 02 25	703 0.5− 0.3−	2000 03 05	704 0.3− 0.5+
1998 11 10	704 0.2− 0.8−	2000 02 25	703 0.9− 1.4+	2000 03 05	704 0.3+ 0.1+
1998 11 10	704 1.3+ 1.8−	2000 02 25	703 0.2+ 0.4+		
1998 11 10	704 (2.6− 2.0−)	2000 02 25	703 0.4− 0.5+		

1998 ST₁₃₅ = 2000 DH₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	169.03349	(2000.0)	P	Q	
<i>n</i>	0.27802662	ω	174.11017	+0.95211632	+0.30477246
<i>a</i>	2.3249403	Ω	168.05997	−0.28507532	+0.91364467
<i>e</i>	0.1374459	<i>i</i>	6.73242	−0.11048337	+0.26901147
<i>P</i>	3.55	<i>H</i>	14.7	<i>G</i>	0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 18	699 0.5+ 0.2−	1998 10 20	699 0.0 0.1+	2000 03 03	704 0.2− 0.9+
1998 09 18	699 0.0 0.3+	1998 10 20	699 0.1+ 0.4+	2000 03 04	704 0.2+ 0.1−
1998 09 18	699 0.2− 0.0	1998 11 10	704 0.5+ 1.5−	2000 03 04	704 0.4− 0.9−
1998 09 26	704 0.5− 1.0−	1998 11 10	704 0.0 1.6+	2000 03 04	704 0.4− 0.2+
1998 09 26	704 0.6+ 0.6−	1998 11 10	704 0.2− 0.2−	2000 03 04	704 0.7− 0.0
1998 09 26	704 0.6− 0.5−	1998 11 10	704 0.6+ 0.3+	2000 03 04	704 0.7− 0.3+
1998 09 26	704 0.1+ 0.5−	1998 11 10	704 0.1− 0.5−	2000 03 05	704 0.3+ 0.3−
1998 09 26	704 0.4− 0.2+	2000 02 06	704 1.1− 0.5+	2000 03 05	704 1.0+ 0.6−
1998 09 27	704 0.1+ 0.1−	2000 02 06	704 0.1− 0.5+	2000 03 05	704 0.9+ 1.7−
1998 09 27	704 0.2− 0.3−	2000 02 06	704 0.6+ 0.5−	2000 03 06	704 0.3− 0.0
1998 09 27	704 1.1+ 0.1+	2000 02 06	704 1.3+ 0.4−	2000 03 06	704 0.0 0.3−
1998 09 27	704 0.0 0.6+	2000 02 29	704 0.1+ 0.3+	2000 03 06	704 0.3+ 0.7+
1998 09 27	704 0.2+ 0.7+	2000 02 29	704 0.4+ 0.1−	2000 03 11	704 0.6− 1.0−
1998 10 11	699 0.2− 0.0	2000 02 29	704 0.2− 0.1+	2000 03 11	704 0.3− 0.4+
1998 10 11	699 0.2− 0.0	2000 02 29	704 0.2− 0.3+	2000 03 11	704 0.1− 0.5−
1998 10 11	699 0.3− 0.2+	2000 02 29	704 0.9− 0.2+	2000 03 11	704 0.2+ 0.4−
1998 10 17	699 0.4− 0.0	2000 03 03	704 0.2+ 0.3+	2000 03 11	704 0.2+ 0.1−
1998 10 17	699 0.7+ 0.9+	2000 03 03	704 0.1− 0.2+	2000 03 11	699 0.3− 0.3−
1998 10 17	699 1.0− 0.1+	2000 03 03	704 0.1+ 0.5+	2000 03 11	699 0.8+ 0.5+
1998 10 20	699 0.2− 0.4−	2000 03 03	704 0.5+ 0.4+	2000 03 11	699 0.5− 1.1+

2000 MAR. 20

M.P.C. 39255

1998 SR₁₃₆ = 2000 DS₉₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	163.95796	(2000.0)	P		Q	
<i>n</i>	0.27551763	ω	255.69163	+0.95784423	+0.27635912	
<i>a</i>	2.3390335	Ω	88.21987	-0.22390293	+0.88928987	
<i>e</i>	0.1536715	<i>i</i>	4.50373	-0.18000530	+0.36440247	
<i>P</i>	3.58	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 24	699	0.4-	0.8+	1998 10 28	704	0.6+	0.2-	2000 02 11	704	1.6+	0.3-
1998 09 24	699	0.3-	0.7+	1998 10 28	704	0.6+	0.1+	2000 02 11	704	0.4+	0.2-
1998 09 24	699	0.0	0.4+	1998 10 29	704	0.9+	0.9-	2000 02 11	704	0.0	0.2-
1998 09 26	704	0.8-	0.4+	1998 10 29	704	0.4-	0.2+	2000 02 11	704	0.4-	1.3-
1998 09 26	704	0.3-	0.3-	1998 10 29	704	0.9+	0.1+	2000 02 29	704	0.5+	0.4-
1998 09 26	704	1.0-	0.0	1998 10 29	704	1.0+	0.8-	2000 02 29	704	0.4-	0.4+
1998 09 26	704	0.2-	0.5+	1998 10 29	704	0.5+	0.6-	2000 02 29	704	0.2+	0.0
1998 09 26	704	0.0	1.0+	1998 11 10	704	0.6-	0.7+	2000 02 29	704	0.4-	0.3+
1998 09 27	704	0.2-	0.2+	1998 11 10	704	0.1-	0.6+	2000 03 05	704	0.8-	0.2+
1998 09 27	704	0.1-	0.2+	1998 11 10	704	1.1-	0.2+	2000 03 05	704	1.0+	0.5-
1998 09 27	704	0.2-	0.4+	1998 11 10	704	1.3-	1.6+	2000 03 05	704	1.5-	1.6+
1998 09 27	704	0.5-	0.1-	1998 11 25	699	0.3+	0.0	2000 03 05	704	0.9-	1.2+
1998 09 27	704	1.0-	0.8-	1998 11 25	699	0.6+	0.5+	2000 03 05	704	0.2+	1.0+
1998 10 17	699	0.3+	1.0-	1998 11 25	699	0.1-	0.0	2000 03 12	704	0.0	0.4-
1998 10 17	699	0.2+	0.1-	2000 02 03	704	0.2+	0.5-	2000 03 12	704	0.5-	0.2+
1998 10 17	699	0.4+	0.4-	2000 02 03	704	0.0	1.5-	2000 03 12	704	0.4+	0.8+
1998 10 28	704	1.0+	0.7-	2000 02 03	704	0.4+	0.6-	2000 03 12	704	0.3-	0.7+
1998 10 28	704	1.1+	1.4-	2000 02 03	704	0.4+	0.3+				
1998 10 28	704	0.1-	0.3-	2000 02 03	704	0.2+	0.3+				

1998 SC₁₃₇ = 2000 BJ₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	223.77177	(2000.0)	P		Q	
<i>n</i>	0.23356563	ω	224.91391	-0.13903495	+0.97687828	
<i>a</i>	2.6113400	Ω	37.98436	-0.81822992	-0.02093864	
<i>e</i>	0.0704677	<i>i</i>	15.30132	-0.55782531	-0.21276841	
<i>P</i>	4.22	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.3+	0.1+	1998 10 28	704	0.5-	0.9-	1999 12 30	704	0.8-	0.6-
1998 09 26	704	0.0	0.8-	1998 10 28	704	(2.3-	2.5+)	1999 12 30	704	0.9-	0.7-
1998 09 26	704	0.7+	0.9-	1998 10 29	704	0.3-	1.2-	2000 01 27	704	0.1-	0.1-
1998 09 26	704	0.0	0.2+	1998 10 29	704	0.9+	0.6+	2000 01 27	704	0.4-	0.1-
1998 09 26	704	0.0	0.5+	1998 10 29	704	0.3-	0.2-	2000 01 27	704	0.8+	0.3-
1998 09 27	704	0.3-	0.5+	1998 10 29	704	1.9-	1.7-	2000 01 28	704	0.7+	0.7+
1998 09 27	704	0.1+	0.8+	1999 11 01	704	0.1+	0.0	2000 01 28	704	1.2+	0.7+
1998 09 27	704	0.2+	1.6+	1999 11 01	704	0.7+	0.5-	2000 01 28	704	0.6+	0.2+
1998 09 27	704	0.6+	0.3+	1999 11 01	704	1.1+	1.2-	2000 02 26	704	0.4+	0.2+
1998 09 27	704	0.1-	0.2+	1999 12 13	704	0.7-	0.1+	2000 02 26	704	0.1+	0.5-
1998 10 19	699	1.2+	0.2-	1999 12 13	704	0.7-	0.2-	2000 02 26	704	0.1+	0.2-
1998 10 19	699	0.7+	0.1+	1999 12 13	704	0.5-	0.4+	2000 02 26	704	0.1-	0.5+
1998 10 19	699	0.4+	0.0	1999 12 13	704	0.4-	0.5+	2000 02 26	704	0.0	0.3-
1998 10 28	704	0.6-	0.9+	1999 12 13	704	0.7-	0.4+				
1998 10 28	704	1.4-	0.2+	1999 12 30	704	0.1-	1.1+				

1998 SD₁₃₈ = 2000 DE₈₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	200.33641	(2000.0)	P		Q	
<i>n</i>	0.29302905	ω	277.82332	+0.63919449	+0.76864367	
<i>a</i>	2.2448928	Ω	31.95154	-0.68579176	+0.58432097	
<i>e</i>	0.1862566	<i>i</i>	2.69100	-0.34802308	+0.26029965	
<i>P</i>	3.36	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 18	809	1.7+	0.4-	1998 09 27	704	0.6+	0.1+	1998 10 29	704	0.6-	0.3+
1998 09 18	809	0.1-	0.5+	1998 09 27	704	1.5-	1.2-	1998 10 29	704	0.6-	0.2+
1998 09 18	809	0.2-	1.0-	1998 09 27	704	0.2-	1.8+	1998 10 29	704	0.9-	0.0
1998 09 20	809	1.4+	1.9+	1998 09 27	704	0.2-	0.1-	2000 02 28	704	0.5-	0.4-
1998 09 20	809	(1.4+	2.2+)	1998 10 17	699	1.2+	0.4+	2000 02 28	704	0.2-	0.4+
1998 09 20	809	1.0+	1.6+	1998 10 17	699	1.0+	0.5+	2000 02 28	704	0.3+	0.2-
1998 09 26	704	0.8-	1.3-	1998 10 17	699	1.3+	0.3+	2000 02 28	704	0.7+	0.1-
1998 09 26	704	1.1-	1.9-	1998 10 28	704	0.2-	0.4+	2000 03 04	704	0.2-	0.5-
1998 09 26	704	0.9-	0.5-	1998 10 28	704	0.3+	0.5-	2000 03 04	704	0.3-	0.2-
1998 09 26	704	0.3+	1.3-	1998 10 28	704	0.1-	1.5-	2000 03 04	704	0.1+	0.8+
1998 09 26	704	0.8-	0.2-	1998 10 28	704	0.0	0.9+				
1998 09 27	704	0.8-	0.3+	1998 10 29	704	0.2+	0.5+				

1998 ST₁₃₈ = 2000 EN₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	145.40111	(2000.0)	P		Q	
<i>n</i>	0.26380722	ω	358.19370	+0.99374534	-0.11005877	
<i>a</i>	2.4077511	Ω	8.19751	+0.10404562	+0.85106520	
<i>e</i>	0.1384679	<i>i</i>	7.61772	+0.04055503	+0.51339566	
<i>P</i>	3.74	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 16	411	0.4-	0.7-	1998 10 15	910	1.1+	0.3-	1998 11 11	704	1.0-	0.3+
1998 09 16	411	0.8-	0.5-	1998 10 17	684	0.6+	0.4+	2000 02 04	704	(2.2+	0.2-)
1998 09 18	809	(3.7+	4.5+)	1998 10 17	684	0.5+	0.5+	2000 02 04	704	0.2+	0.7+
1998 09 18	809	(3.2+	3.6+)	1998 10 18	684	0.5-	0.7+	2000 02 04	704	0.1-	1.2-
1998 09 18	809	(2.5+	4.5+)	1998 10 18	684	0.9-	0.9+	2000 02 04	704	1.0+	0.0
1998 09 20	809	(2.2+	6.0+)	1998 10 28	704	0.7+	0.9-	2000 03 05	704	0.0	0.3+
1998 09 20	809	(2.2+	2.4+)	1998 10 28	704	0.4-	0.2-	2000 03 05	704	0.7+	0.3+
1998 09 20	809	(2.3+	2.8+)	1998 10 28	704	0.5+	0.3+	2000 03 05	704	0.5+	0.5-
1998 09 26	704	0.3-	0.4-	1998 10 28	704	0.5-	0.2-	2000 03 05	704	1.2-	0.9-
1998 09 26	704	0.2-	0.2+	1998 10 28	704	0.4-	0.3-	2000 03 05	704	0.0	1.1-
1998 09 26	704	0.0	0.4+	1998 10 29	704	0.3-	0.6-	2000 03 09	704	0.1-	0.1+
1998 09 26	704	0.1+	0.7-	1998 10 29	704	0.4-	0.0	2000 03 09	704	0.9-	0.1+
1998 09 26	704	0.5+	0.0	1998 10 29	704	0.2+	0.5+	2000 03 09	704	1.7+	0.9+
1998 09 27	704	0.4-	0.0	1998 10 29	704	0.7-	0.2+	2000 03 09	704	0.4+	0.2+
1998 09 27	704	1.5-	0.4-	1998 10 29	704	0.4-	0.4-	2000 03 09	704	0.2-	0.7+
1998 09 27	704	1.3-	1.3+	1998 11 10	704	0.5-	0.3-	2000 03 11	699	1.0-	0.2+
1998 09 27	704	0.2+	0.4+	1998 11 10	704	0.1+	0.0	2000 03 11	699	0.1-	0.4-
1998 09 27	704	0.4+	1.1+	1998 11 10	704	0.5-	0.0	2000 03 11	699	0.7+	0.4+
1998 10 11	699	1.3+	0.7-	1998 11 10	704	0.3-	0.6-	2000 03 11	699	0.7-	0.5+
1998 10 11	699	1.0+	0.2+	1998 11 11	704	0.6+	0.3-	2000 03 12	704	0.7+	0.2+
1998 10 11	699	0.5+	0.3+	1998 11 11	704	0.4-	1.0+	2000 03 12	704	0.6+	0.9+
1998 10 14	910	1.0+	0.2-	1998 11 11	704	0.7+	0.7+	2000 03 12	704	0.6-	1.3-
1998 10 15	910	1.0+	0.3-	1998 11 11	704	0.9+	1.0-	2000 03 12	704	1.3-	0.0

1998 SW₁₃₈ = 2000 DB₆₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	65.98142	(2000.0)	P		Q	
<i>n</i>	0.23185141	ω	111.04834	+0.08023167	-0.99661804	
<i>a</i>	2.6241957	Ω	334.33024	+0.89863161	+0.08002928	
<i>e</i>	0.1066099	<i>i</i>	2.34949	+0.43130512	+0.01864919	
<i>P</i>	4.25	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.3-	1.6+	1998 10 29	704	0.7-	0.1-	2000 02 26	703	0.8-	0.8-
1998 09 26	704	0.8-	0.4-	1998 10 29	704	0.8+	1.1+	2000 02 26	703	0.2+	0.2-
1998 09 26	704	0.8+	0.7-	1998 10 29	704	0.9-	0.2-	2000 02 26	703	1.0+	0.9-
1998 09 26	704	0.0	1.0-	1998 10 29	704	1.4+	0.8-	2000 02 29	704	0.2-	0.5+
1998 09 26	704	1.4-	1.0+	1998 10 29	704	1.0-	0.6-	2000 02 29	704	0.1-	0.5+
1998 09 27	704	(0.0	2.0+)	1998 11 11	704	0.5+	0.5-	2000 02 29	704	0.3+	0.2-
1998 09 27	704	(2.2-	2.9+)	1998 11 11	704	0.8+	0.6+	2000 02 29	704	1.2+	0.0
1998 09 27	704	(0.6-	2.2+)	1998 11 11	704	(0.3+	2.9-)	2000 03 03	704	0.3-	0.5-
1998 09 27	704	0.2+	0.0	1998 11 11	704	0.5-	2.0-	2000 03 03	704	0.1+	0.1+
1998 10 17	699	0.9-	1.2+	1998 11 11	704	(2.4+	1.4-)	2000 03 03	704	0.1+	0.0

M.P.C. 39256

1998 10 17	699	0.1+	1.1+	2000 02 06	704	0.3+	0.3+	2000 03 03	704	0.2+	0.3+
1998 10 17	699	1.2-	1.1+	2000 02 06	704	1.2+	0.9+	2000 03 03	704	0.5-	0.0
1998 10 28	704	0.3+	0.0	2000 02 06	704	0.8+	1.1+	2000 03 11	704	0.2-	0.2+
1998 10 28	704	0.4+	0.6-	2000 02 25	691	0.6-	0.4-	2000 03 11	704	0.4-	0.2-
1998 10 28	704	1.1+	0.6-	2000 02 25	691	0.4-	0.4-	2000 03 11	704	0.5-	0.1+
1998 10 28	704	1.2+	0.5-	2000 02 25	691	0.4-	0.4-	2000 03 11	704	0.5-	0.1-
1998 10 28	704	(3.0-	1.1+)	2000 02 26	703	0.2+	0.8+	2000 03 11	704	0.5-	0.2-

1998 SC₁₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	80.11647	(2000.0)	
<i>n</i>	0.23286301	ω	217.83789
<i>a</i>	2.6165902	Ω	216.98822
<i>e</i>	0.1471477	<i>i</i>	13.61790
<i>P</i>	4.23	<i>H</i>	14.1
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	3

1998 09 26	704	0.1-	0.1-	1998 10 29	704	0.8-	0.7+	1998 11 23	699	0.7-	0.2-
1998 09 26	704	0.9+	0.6-	1998 10 29	704	0.3-	0.2+	1998 11 23	699	0.5-	0.2-
1998 09 26	704	0.1+	0.7-	1998 10 29	704	0.5-	0.3+	1998 11 23	699	0.8-	0.5+
1998 09 26	704	0.2-	0.2+	1998 10 29	704	0.1-	0.2-	1998 12 09	699	0.2-	0.4+
1998 09 26	704	0.3+	0.7-	1998 10 29	327	0.2-	0.3-	1998 12 09	699	0.3+	0.3+
1998 09 27	704	0.1+	0.0	1998 10 29	327	0.5-	0.2-	1998 12 09	699	0.6+	0.5+
1998 09 27	704	0.2+	0.7-	1998 10 29	327	0.4-	0.4-	1998 12 17	327	0.3-	0.0
1998 09 27	704	0.2+	0.8+	1998 11 10	704	0.5+	0.1-	1998 12 17	327	0.2+	0.4+
1998 09 27	704	0.5-	0.5+	1998 11 10	704	1.2-	1.2+	1998 12 17	327	0.1-	0.3-
1998 10 11	699	0.7-	0.6+	1998 11 10	704	0.4+	0.3-	2000 03 11	931	0.4+	0.1-
1998 10 11	699	0.2-	1.4+	1998 11 10	704	0.2-	0.4-	2000 03 11	931	0.2-	0.4-
1998 10 11	699	0.6-	1.2+	1998 11 10	704	0.8+	0.4-	2000 03 12	931	0.5+	1.1+
1998 10 28	704	0.0	0.1+	1998 11 11	704	1.6+	1.0-	2000 03 12	931	1.0-	0.2-
1998 10 28	704	0.7+	0.7-	1998 11 11	704	1.4+	0.1-	2000 03 13	704	0.4+	1.1+
1998 10 28	704	0.7+	1.0-	1998 11 11	704	0.6+	0.2-	2000 03 13	704	1.2+	1.4-
1998 10 28	704	0.5-	0.3-	1998 11 11	704	0.7+	0.8+	2000 03 13	704	0.1-	0.4+
1998 10 29	704	0.5-	0.2-	1998 11 11	704	0.1-	0.9-	2000 03 13	704	1.2-	0.7-

1998 SU₁₄₁ = 1976 UA₁₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	163.09257	(2000.0)	
<i>n</i>	0.22383000	ω	275.32747
<i>a</i>	2.6865227	Ω	33.06808
<i>e</i>	0.2298838	<i>i</i>	13.60954
<i>P</i>	4.40	<i>H</i>	14.9
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1976 10 22	381	0.9-	0.2-	1998 09 27	704	0.4-	0.9-	1998 10 29	704	0.3+	0.6+
1976 10 22	381	0.6+	0.1-	1998 09 27	704	0.3+	0.5+	1998 10 29	704	0.6+	0.4-
1976 10 24	381	0.4+	0.2+	1998 09 27	704	1.1-	0.4+	1998 10 29	704	0.1-	0.9-
1998 09 26	704	0.2-	0.0	1998 09 27	704	1.1-	0.4-	1998 10 29	704	0.1+	1.9-
1998 09 26	704	0.4+	1.1-	1998 10 28	704	0.4-	1.0+	1998 11 11	704	0.4+	0.2-
1998 09 26	704	0.5-	1.0+	1998 10 28	704	0.2-	1.7+	1998 11 11	704	0.6+	0.9-
1998 09 26	704	1.2+	0.2-	1998 10 28	704	0.9+	0.9+	1998 11 11	704	0.7+	0.8+
1998 09 26	704	0.6+	0.4-	1998 10 28	704	1.2-	0.2+	1998 11 11	704	1.5-	1.8-
1998 09 27	704	0.7+	0.0	1998 10 29	704	0.2-	1.7+				

1998 SH₁₄₃ = 2000 AG₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler			
<i>M</i>	250.08907	(2000.0)	
<i>n</i>	0.17425052	ω	131.74834
<i>a</i>	3.1745828	Ω	87.27451
<i>e</i>	0.0999773	<i>i</i>	6.39953
<i>P</i>	5.66	<i>H</i>	14.2
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	5

2000 MAR. 20

Residuals in seconds of arc

1998 09 26	704	0.7+	0.1-	1998 09 27	704	0.5-	0.6-	2000 01 04	704	0.5-	0.4+
1998 09 26	704	1.0+	0.8-	1998 10 01	910	0.1+	0.3-	2000 01 04	704	0.0	0.7+
1998 09 26	704	0.1-	1.6-	1998 10 01	910	0.4+	0.1+	2000 01 04	704	0.2-	0.6+
1998 09 26	704	0.1+	0.1+	1998 10 01	910	0.1+	0.1-	2000 01 04	704	0.7+	1.4-
1998 09 27	704	0.2-	1.2+	2000 01 03	704	0.1+	0.6+	2000 01 07	691	0.1-	0.2-
1998 09 27	704	0.0	0.6+	2000 01 03	704	0.4-	0.3+	2000 01 07	691	0.2-	0.1-
1998 09 27	704	0.0	0.2+	2000 01 03	704	0.3+	0.5-	2000 01 07	691	0.1+	0.1-
1998 09 27	704	1.4-	1.2+	2000 01 03	704	0.2+	0.4-				

1998 SR₁₄₄ = 2000 EV₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	343.84167	(2000.0)	
<i>n</i>	0.28370810	ω	352.68157
<i>a</i>	2.2937965	Ω	194.87083
<i>e</i>	0.0763336	<i>i</i>	6.87042
<i>P</i>	3.47	<i>H</i>	14.2
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	3

1998 09 20	910	0.2+	0.4+	1998 11 10	704	0.6-	0.8-	1999 12 16	704	(2.5-	2.7-)
1998 09 20	910	0.6-	0.5+	1998 11 10	704	0.0	0.4+	1999 12 16	704	(0.6-	2.1-)
1998 09 20	910	0.5-	0.5+	1998 11 10	704	0.2+	0.0	2000 02 08	704	0.5+	0.1-
1998 09 20	809	0.1-	1.2+	1998 11 11	704	1.2+	0.5-	2000 02 08	704	0.4-	0.1+
1998 09 20	809	1.4-	0.9+	1998 11 11	704	0.2-	1.3-	2000 02 08	704	0.4+	1.1+
1998 09 20	809	1.9-	0.9+	1998 11 11	704	(1.1+	2.7+)	2000 02 08	704	0.3-	0.3-
1998 09 21	809	0.2+	0.5+	1998 11 11	704	0.5-	0.9+	2000 02 08	704	1.6-	1.0+
1998 09 21	809	0.7-	1.4+	1998 11 11	704	0.8-	1.2+	2000 03 08	704	0.3+	0.1+
1998 09 21	809	0.1-	1.7+	1998 11 12	825	0.7+	1.6-	2000 03 08	704	0.8+	0.5+
1998 10 28	704	0.3+	0.1-	1998 11 12	825	0.5+	1.8-	2000 03 08	704	0.9+	0.4+
1998 10 28	704	0.0	0.4+	1998 11 13	825	1.4-	0.9-	2000 03 08	704	1.0+	0.1+
1998 10 28	704	0.2-	1.1+	1998 11 13	825	0.7+	0.7-	2000 03 08	704	0.2+	0.3+
1998 10 28	704	0.4-	1.2+	1998 11 13	825	0.2+	0.4-	2000 03 12	723	(3.0-	0.2-)
1998 10 29	704	0.7+	0.1+	1998 11 16	825	(4.3-	1.7+)	2000 03 12	723	1.7-	0.3+
1998 10 29	704	0.7+	0.2+	1998 11 16	825	0.9+	1.7+	2000 03 13	704	0.4+	0.0
1998 10 29	704	1.2+	0.4-	1998 11 16	825	0.3+	0.5-	2000 03 13	704	0.2-	0.1+
1998 10 29	704	0.6+	1.1-	1999 12 16	704	(0.5-	2.3-)	2000 03 13	704	0.7+	0.1-
1998 10 29	704	0.7+	1.2-	1999 12 16	704	1.0-	1.9-	2000 03 13	704	0.2+	1.1+
1998 11 10	704	0.8-	0.1-	1999 12 16	704	1.3-	0.5-	2000 03 13	704	0.6+	0.1+

1998 SB₁₄₆ = 2000 DX₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	331.34631	(2000.0)	
<i>n</i>	0.28466712	ω	183.09533
<i>a</i>	2.2886419	Ω	17.35738
<i>e</i>	0.0945334	<i>i</i>	3.63312
<i>P</i>	3.46	<i>H</i>	14.9
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc											
1998 09 14	699	1.1+	1.0-	1998 10 30	327	0.6-	0.0	2000 03 01	727	0.3+	0.7-
1998 09 14	699	1.0+	0.2-	1998 11 10	704	1.0+	0.0	2000 03 02	703	0.0	0.5+
1998 09 14	699	1.5+	0.3-	1998 11 10	704	0.9+	0.5-	2000 03 02	703	0.1+	0.3-
1998 09 20	809	(1.2-	2.3+)	1998 11 10	704	0.4-	0.1+	2000 03 02	703	0.6+	0.0
1998 09 20	809	(3.3-	1.7+)	1998 11 10	704	0.5-	0.6-	2000 03 02	703	0.4-	0.1+
1998 09 20	809	(1.8-	2.4+)	1998 11 11	704	0.1-	0.6+	2000 03 03	106	0.3+	0.0
1998 09 21	809	(1.3+	4.2+)	1998 11 11	704	0.0	1.0+	2000 03 03	106	0.1+	0.3+
1998 09 21	809	(2.0+	3.4+)	1998 11 11	704	1.3+	1.4+	2000 03 03	106	0.4-	0.4+
1998 09 21	809	(1.4+	3.0+)	1998 11 11	704	0.3-	1.7+	2000 03 11	699	0.1-	0.1-
1998 10 13	691	0.3-	0.3-	2000 01 08	704	0.7-	0.9-	2000 03 11	699	0.2+	0.1-
1998 10 13	691	0.6-	0.4-	2000 01 08	704	0.2-	0.1-	2000 03 11	699	0.2+	0.1-
1998 10 13	691	0.3-	0.4-	2000 01 08	704	0.1-	0.5-	2000 03 11	699	0.1+	0.2+
1998 10 15	691	1.0-	0.1-	2000 01 08	704	0.6+	0.2+	2000 03 12	704	0.5+	0.1+
1998 10 15	691	1.0-	0.2-	2000 01 08	704	0.5-	0.1-	2000 03 12	704	0.5+	0.2+
1998 10 15	691	0.8-	0.2-	2000 02 11	704	1.2+	0.4+	2000 03 12	704	0.0	0.6+
1998 10 28	704	0.1+	0.6+	2000 02 11	704	0.0	0.4+	2000 03 12	704	0.1-	0.0
1998 10 28	704	0.8-	0.3-	2000 02 11	704	0.1+	0.2+	2000 03 12	704	0.4+	0.3+
1998 10 28	704	1.1+	0.1+	2000 02 11	704	0.3+	0.1-	2000 03 15	704	0.6+	0.4+

2000 MAR. 20

M.P.C. 39257

1998 10 28	704	0.7+	0.2-	2000 02 11	704	0.0	0.3+	2000 03 15	704	0.1+	0.1-
1998 10 29	704	0.0	0.3-	2000 02 26	703	0.5-	0.2+	2000 03 15	704	0.1+	0.1-
1998 10 29	704	0.1+	0.7-	2000 02 26	703	0.2-	0.3-	2000 03 15	704	0.6+	0.2-
1998 10 29	704	1.4-	1.2+	2000 02 26	703	0.2-	0.2-	2000 03 15	704	0.1+	0.1-
1998 10 29	704	1.1-	0.1-	2000 02 26	703	0.0	0.4-	2000 03 15	704	0.3+	0.2+
1998 10 29	327	0.2-	0.5-	2000 02 28	727	1.1-	0.3-	2000 03 15	704	0.2-	0.3-
1998 10 29	327	0.1-	0.1-	2000 02 28	727	1.0-	1.4+	2000 03 15	704	0.1-	0.3-
1998 10 29	327	0.1-	0.4-	2000 02 28	727	1.7-	0.9+	2000 03 15	704	0.6-	0.6-
1998 10 30	327	0.7+	0.3-	2000 03 01	727	0.3+	0.8-	2000 03 15	704	0.3+	0.5-
1998 10 30	327	0.5+	0.2+	2000 03 01	727	0.2-	0.7-				

1998 SE₁₄₆ = 1979 SQ₈ = 2000 ES₉₁
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	62.31299		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.20953911	ω	246.23989	+0.00257145	-0.99868979
a	2.8073248	Ω	203.78329	+0.95742479	+0.01721244
e	0.2036313	i	7.28083	+0.28867136	-0.04819161
P	4.70	H	13.7	G 0.15	U 1

Residuals in seconds of arc

1979 09 24	095	0.1-	0.0	1998 10 29	704	0.5+	0.7+	1998 11 23	699	0.6-	0.1+
1996 05 22	566	0.9+	1.1+	1998 10 29	704	1.0+	0.3-	1998 11 23	699	0.5-	0.1+
1996 05 22	566	0.5+	0.4+	1998 10 29	704	1.2+	0.4-	1999 01 11	704	0.0	1.1-
1996 05 22	566	0.4-	1.0+	1998 10 29	704	0.3+	0.0	1999 01 11	704	1.0+	0.6+
1998 09 13	696	0.8-	0.5-	1998 11 10	704	(2.3-	0.8-)	1999 01 11	704	1.3+	1.9-
1998 09 13	696	1.2-	0.8+	1998 11 10	704	0.1+	1.1+	1999 01 11	704	(5.4-	0.7-)
1998 09 20	809	1.6-	1.1+	1998 11 10	704	0.3-	0.3+	2000 03 09	704	0.3+	0.4+
1998 09 20	809	1.7-	0.8-	1998 11 10	704	0.4-	0.2-	2000 03 09	704	0.4+	0.3+
1998 09 20	809	1.4-	0.5+	1998 11 11	704	1.9-	0.3+	2000 03 09	704	0.1+	0.7+
1998 09 21	809	(2.5+	4.0+)	1998 11 11	704	0.5+	0.4+	2000 03 09	704	0.1-	0.6+
1998 09 21	809	(2.8+	3.8+)	1998 11 11	704	0.5+	0.1-	2000 03 09	704	0.2-	0.2+
1998 09 21	809	(1.6+	3.8+)	1998 11 11	704	0.4-	0.7-	2000 03 13	704	0.5+	0.6+
1998 10 28	704	0.2+	1.0+	1998 11 11	704	0.8+	1.0-	2000 03 13	704	0.4-	0.1+
1998 10 28	704	0.4-	0.0	1998 11 14	699	0.3+	0.7+	2000 03 13	704	0.3+	0.7+
1998 10 28	704	0.1+	0.7+	1998 11 14	699	1.4+	0.2+	2000 03 13	704	0.1+	0.2+
1998 10 28	704	0.3-	1.7+	1998 11 14	699	0.7+	0.2+	2000 03 13	704	0.6-	0.1+
1998 10 29	704	0.9+	0.2+	1998 11 23	699	0.6-	0.5+				

1998 SL₁₄₆ = 2000 AU₂₄₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	279.15563		(2000.0)	P	Q		
n	0.22960409	ω	28.97807	-0.74168188	+0.66886734		
a	2.6412913	Ω	193.37509	-0.64964002	-0.73496497		
e	0.0686970	i	12.54471	-0.16696058	-0.11154807		
P	4.29	H	13.9	G	0.15	U	4

Residuals in seconds of arc

1998 09 20	809	1.1+	0.2+	1998 10 29	704	0.5+	0.1-	2000 01 09	704	1.6-	0.2-
1998 09 20	809	0.0	1.2-	1998 10 29	704	0.9-	0.7+	2000 02 06	704	(2.9-	0.5+)
1998 09 20	809	0.1+	0.8-	1998 10 29	704	0.0	0.3+	2000 02 06	704	0.5+	0.3+
1998 09 21	809	1.8+	1.3+	1998 10 29	704	1.0-	0.3-	2000 02 06	704	0.3-	0.4-
1998 09 21	809	0.7+	0.4-	1998 10 29	704	1.8-	0.9-	2000 02 06	704	0.5-	0.7+
1998 09 21	809	0.6+	0.8+	2000 01 07	699	0.3-	0.6+	2000 03 06	704	0.6+	0.7-
1998 10 28	704	1.0+	0.0	2000 01 07	699	0.7+	0.9+	2000 03 06	704	0.5+	0.6-
1998 10 28	704	0.8-	1.0+	2000 01 07	699	0.4+	1.1+	2000 03 06	704	0.6+	0.7-
1998 10 28	704	(2.7-	0.0)	2000 01 09	704	(2.5-	0.8-)	2000 03 06	704	0.3+	0.7-
1998 10 28	704	1.0-	1.1-	2000 01 09	704	1.0-	0.6-	2000 03 06	704	0.3+	0.1+

1998 SO₁₄₆ = 1989 SV₆ = 2000 DJ₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	88.61614		(2000.0)	P	Q
n	0.22025541	ω	330.23021	+0.60160201	-0.79696080
a	2.7155116	Ω	82.73244	+0.74323405	+0.53364552
e	0.0747879	i	3.12726	+0.29270833	+0.28297692
P	4.47	H	14.2	G 0.15	U 1

Residuals in seconds of arc

1989 09 28	809	0.9+	0.1+	1998 11 10	704	0.3+	0.3-	2000 02 11	704	0.9+	0.8-
1989 09 28	809	0.1+	0.5-	1998 11 10	704	0.4+	0.3+	2000 02 25	703	1.1-	0.4-
1989 09 28	809	0.6-	0.5-	1998 11 11	704	0.3-	1.3+	2000 02 25	703	0.9-	0.0
1997 07 02	704	0.1-	1.3+	1998 11 11	704	0.2-	0.0	2000 02 25	703	0.6-	1.5+
1997 07 02	704	0.3-	1.2+	1998 11 11	704	(2.5-	2.0+)	2000 02 25	703	0.7+	0.2+
1997 07 02	704	0.2-	1.7+	1998 11 23	699	1.3-	0.3-	2000 02 28	704	0.1-	0.3+
1997 07 02	704	0.4+	0.6+	1998 11 23	699	0.5+	0.0	2000 02 28	704	0.4-	0.3+
1998 09 20	809	(2.3+	1.4-)	1998 11 23	699	0.2+	1.2+	2000 02 28	704	0.6-	0.3-
1998 09 20	809	0.9+	1.4-	1999 01 15	691	0.4+	0.5-	2000 02 28	704	0.4-	0.7+
1998 09 20	809	1.0+	0.7-	1999 01 15	691	0.3+	0.1+	2000 02 28	704	0.2-	0.5+
1998 09 21	809	(3.5+	0.7+)	1999 01 15	691	0.8+	0.0	2000 03 05	704	0.9-	0.8+
1998 09 21	809	(3.5+	0.4+)	2000 02 03	704	0.5+	0.3-	2000 03 05	704	0.3+	0.4+
1998 09 21	809	(2.6+	1.1-)	2000 02 03	704	0.4+	0.3+	2000 03 05	704	0.2+	0.6-
1998 10 28	704	0.7-	0.4+	2000 02 03	704	0.3+	0.2-	2000 03 05	704	0.1-	0.0
1998 10 28	704	0.2-	1.1+	2000 02 03	704	1.5+	1.2-	2000 03 11	699	0.5-	1.1+
1998 10 28	704	0.5+	0.1-	2000 02 06	703	0.0	0.1+	2000 03 11	699	0.2-	0.0
1998 10 28	704	0.1-	1.7+	2000 02 06	703	0.2-	0.5+	2000 03 11	699	0.3-	0.6+
1998 10 29	704	1.1-	0.2+	2000 02 06	703	0.3-	0.2-	2000 03 11	699	0.3-	0.8+
1998 10 29	704	1.9-	0.2+	2000 02 06	703	0.6-	0.5+	2000 03 12	704	0.6-	0.1-
1998 10 29	704	0.2+	0.2-	2000 02 11	704	1.5+	0.5-	2000 03 12	704	0.1+	0.2-
1998 10 29	704	0.5+	0.2+	2000 02 11	704	0.9+	0.1+	2000 03 12	704	0.0	0.2-
1998 11 10	704	1.3-	0.9+	2000 02 11	704	1.6+	0.9-	2000 03 12	704	0.7+	1.6+

1998 SL₁₄₇ = 2000 DL₈₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	191.56035		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.31002948	ω	246.24021	+0.89067924	+0.45352148
a	2.1620582	Ω	86.77686	-0.40467947	+0.82271530
e	0.2049424	i	1.82295	-0.20718353	+0.34272118
P	3.18	H	15.2	G 0.15	U 5

Residuals in seconds of arc

1998 09 20	809	0.7+	0.1+	1998 10 14	699	0.0	1.7+	1998 11 11	704	1.4-	0.3-
1998 09 20	809	0.6-	0.0	1998 11 10	704	0.4+	1.1+	2000 02 29	704	0.6-	0.6+
1998 09 20	809	0.3-	0.2-	1998 11 10	704	0.1+	0.9-	2000 02 29	704	0.7-	0.5-
1998 09 21	809	1.6+	1.2-	1998 11 10	704	(2.3+	0.5+)	2000 02 29	704	0.8+	0.5-
1998 09 21	809	0.1-	0.6-	1998 11 10	704	0.2-	1.3-	2000 03 04	704	0.5-	0.7-
1998 09 21	809	0.7-	0.4-	1998 11 11	704	0.7-	0.7-	2000 03 04	704	0.6-	0.6+
1998 10 14	699	0.2+	0.3+	1998 11 11	704	1.1+	0.3-	2000 03 04	704	1.4+	0.4+
1998 10 14	699	1.0-	1.3+	1998 11 11	704	0.9+	1.0+				

1998 SV₁₄₇ = 2000 EQ₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	44.35617		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.22478923	ω	86.61241	-0.39578098	-0.91207922
a	2.6788746	Ω	27.48909	+0.72320006	-0.38142359
e	0.1438657	i	13.41568	+0.56598506	-0.15042455
P	4.38	H	14.3	G 0.15	U 3

Residuals in seconds of arc

1998 09 20	809	0.1-	0.4-	1998 10 28	704	0.2+	0.0	2000 03 08	704	0.3-	0.4-
1998 09 20	809	0.5+	0.4-	1998 10 28	120	0.0	0.1+	2000 03 08	704	0.3-	0.2+
1998 09 20	809	1.4-	0.9+	1998 10 28	120	0.8-	0.4+	2000 03 08	704	0.6-	0.2-
1998 09 21	809	(3.2+	1.0+)	1998 10 29	704	0.3+	1.2-	2000 03 08	704	0.2+	0.5-
1998 09 21	809	1.7+	0.3+	1998 10 29	704	0.2+	0.9-	2000 03 09	704	0.4-	0.2-
1998 09 21	809	1.7+	1.0+	1998 10 29	704	1.3-	0.7+	2000 03 09	704	0.0	1.1+

1998 10 13	691	0.8−	0.3−	1998 10 29	704	0.1−	0.0	2000 03 09	704	0.3−	0.0
1998 10 13	691	0.8−	0.1−	1998 10 29	704	0.2−	0.4+	2000 03 09	704	0.6−	0.4−
1998 10 13	691	0.8−	0.1−	1998 11 10	704	0.5−	0.3+	2000 03 09	704	0.5−	0.0
1998 10 19	691	0.5−	0.2−	1998 11 10	704	1.9−	0.7+	2000 03 12	703	0.7−	0.1+
1998 10 19	691	0.6−	0.1−	1998 11 10	704	0.7+	1.0+	2000 03 12	703	0.1−	0.1−
1998 10 19	691	0.6−	0.1−	1998 11 11	704	0.0	1.0+	2000 03 12	703	0.2+	0.8−
1998 10 26	910	1.0+	0.4−	1998 11 11	704	1.2−	0.8−	2000 03 12	703	0.0	0.1+
1998 10 26	910	0.9+	0.7−	1998 11 11	704	0.2+	0.5+	2000 03 12	704	0.5+	0.3+
1998 10 26	910	0.8+	0.6−	1998 11 11	704	0.7−	0.5−	2000 03 12	704	0.5+	0.6+
1998 10 28	704	1.0+	0.4−	1998 11 15	120	1.8+	0.8+	2000 03 12	704	0.9+	0.1+
1998 10 28	704	0.5−	0.5−	1998 11 15	120	1.6+	0.1+	2000 03 12	704	1.7+	0.1−
1998 10 28	704	0.8+	0.3−	2000 03 08	704	0.1−	0.1+				

1998 SK₁₅₁ = 2000 EE₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	47.40362		(2000.0)	P	Q
<i>n</i>	0.27046248	<i>ω</i>	83.35275	−0.43925734	−0.89796465
<i>a</i>	2.3680890	<i>Ω</i>	32.74551	+0.80350549	−0.40599230
<i>e</i>	0.1596011	<i>i</i>	2.82852	+0.40178591	−0.16979322
<i>P</i>	3.64	<i>H</i>	15.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	1.5+	0.2−	1998 10 20	691	0.3−	0.2−	2000 03 08	704	0.2+	0.2−
1998 09 26	704	0.2+	1.1−	1998 10 20	691	0.6−	0.1+	2000 03 10	704	0.7+	0.5−
1998 09 26	704	0.1−	0.2−	1998 10 20	691	0.4−	0.0	2000 03 10	704	0.1−	0.2+
1998 09 26	704	1.2+	0.2−	2000 03 01	703	0.7−	0.4+	2000 03 10	704	0.1−	0.1−
1998 09 26	704	1.8−	0.6−	2000 03 01	703	0.9−	0.3+	2000 03 10	704	0.3+	0.0
1998 09 27	704	1.1−	1.0+	2000 03 01	703	1.2+	0.4−	2000 03 10	704	0.3−	0.2+
1998 09 27	704	0.9−	1.3+	2000 03 01	703	0.2+	0.3−	2000 03 11	704	0.5−	0.0
1998 09 27	704	0.9+	0.2−	2000 03 08	704	0.6−	0.3+	2000 03 11	704	0.3+	0.3+
1998 10 15	691	0.6+	0.2+	2000 03 08	704	0.9−	0.0	2000 03 11	704	0.3+	0.6+
1998 10 15	691	0.5+	0.0	2000 03 08	704	0.4+	0.6−	2000 03 11	704	0.3+	0.4+
1998 10 15	691	0.4+	0.1+	2000 03 08	704	0.2+	0.5−				

1998 SV₁₅₃ = 2000 CB₁₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	259.17497		(2000.0)	P	Q
<i>n</i>	0.27546530	<i>ω</i>	105.91707	−0.46536684	+0.88233422
<i>a</i>	2.3393298	<i>Ω</i>	136.12721	−0.84586996	−0.41999627
<i>e</i>	0.0673969	<i>i</i>	5.80872	−0.26064865	−0.21234278
<i>P</i>	3.58	<i>H</i>	15.8	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 24	910	0.3+	0.5+	1998 09 27	704	0.8+	1.0+	2000 02 03	704	0.4−	1.2+
1998 09 24	910	0.4+	0.2+	1998 09 27	704	0.2+	0.6−	2000 02 03	704	0.7−	0.7+
1998 09 24	910	0.8+	1.1+	2000 01 08	704	0.5−	1.2−	2000 02 03	704	1.3+	0.3+
1998 09 26	704	0.7−	1.1−	2000 01 08	704	0.5−	0.8+	2000 02 03	704	0.9+	0.6+
1998 09 26	704	(2.7−	0.1+)	2000 01 08	704	0.5+	0.5−	2000 02 08	691	0.3+	1.1−
1998 09 26	704	(2.5−	1.2+)	2000 02 02	704	0.4+	0.1+	2000 02 08	691	0.2+	1.3−
1998 09 26	704	0.2−	0.1+	2000 02 02	704	0.5+	0.3−	2000 02 08	691	0.2+	1.2−
1998 09 26	704	0.1−	1.1−	2000 02 02	704	0.2−	0.7+	2000 02 10	691	0.9−	0.1+
1998 09 27	704	1.5−	0.1+	2000 02 02	704	0.3−	0.4+	2000 02 10	691	0.3−	0.1+
1998 09 27	704	0.1−	0.3−	2000 02 02	704	0.4−	1.0+	2000 02 10	691	0.1−	0.5−

1998 SC₁₅₅ = 2000 CS₃₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	66.97864		(2000.0)	P	Q
<i>n</i>	0.21235317	<i>ω</i>	71.13756	+0.46431671	−0.88563704
<i>a</i>	2.7824682	<i>Ω</i>	351.18503	+0.79291004	+0.41947079
<i>e</i>	0.0790097	<i>i</i>	2.82450	+0.39459304	+0.19922673
<i>P</i>	4.64	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.9−	1.3−	2000 01 04	704	0.2+	0.4+	2000 02 05	704	0.0	0.3+
1998 09 26	704	1.0+	0.3−	2000 01 04	704	0.2+	0.5+	2000 02 05	704	0.2+	1.0+
1998 09 26	704	0.3−	1.0+	2000 01 04	704	0.3+	0.6+	2000 02 11	704	0.2−	0.4−
1998 09 26	704	0.6+	0.6−	2000 01 04	704	0.2−	0.1−	2000 02 11	704	0.3+	0.7−
1998 09 27	704	0.2−	0.8+	2000 01 04	704	0.4+	0.4−	2000 02 11	704	0.4+	1.4+
1998 09 27	704	(3.2−	0.3+)	2000 01 30	703	0.1+	0.1+	2000 02 11	704	1.2−	1.0−
1998 09 27	704	1.7−	0.3−	2000 01 30	703	0.8−	0.4+	2000 02 11	704	0.2+	0.2−
1998 09 27	704	0.0	0.1−	2000 01 30	703	0.1−	0.9+	2000 03 04	704	0.8−	0.3+
1998 10 14	699	0.3+	1.0+	2000 01 30	703	0.7−	0.2+	2000 03 04	704	0.4+	0.2+
1998 10 14	699	0.5+	0.3+	2000 02 03	704	0.6−	0.2−	2000 03 04	704	0.6−	0.6−
1998 10 14	699	0.6+	0.4+	2000 02 03	704	0.5+	1.1−	2000 03 04	704	0.2−	0.3−
1998 10 15	327	0.4+	0.4−	2000 02 03	704	0.9+	0.4−	2000 03 04	704	0.3+	0.4−
1998 10 15	327	0.1+	0.6−	2000 02 03	704	0.7+	0.6−				
1998 10 15	327	0.4−	0.2−	2000 02 05	704	0.3+	0.2−				

1998 SJ₁₅₆ = 1981 UU₄ = 2000 CB₁₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	64.00338		(2000.0)	P	Q
<i>n</i>	0.17033030	<i>ω</i>	32.79229	+0.67550440	−0.73720993
<i>a</i>	3.2231074	<i>Ω</i>	14.73221	+0.66347182	+0.59901472
<i>e</i>	0.1691618	<i>i</i>	3.30796	+0.32171253	+0.31257461
<i>P</i>	5.79	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1981 10 30	381	0.6+	0.5−	1998 09 27	704	0.0	0.9+	2000 02 02	704	1.2−	1.2+
1981 10 30	381	0.2−	0.7−	1998 10 14	691	0.7−	0.6+	2000 02 02	704	0.6−	0.9+
1992 09 22	809	0.8+	0.5−	1998 10 14	691	0.3−	0.3+	2000 02 02	704	0.3−	1.3+
1992 09 22	809	0.2−	1.5−	1998 10 14	691	0.3−	0.3+	2000 02 03	704	1.2+	0.4−
1992 09 22	809	0.9+	1.1−	2000 01 04	704	1.7+	1.2−	2000 02 03	704	0.7−	0.6+
1998 09 26	704	0.5−	0.3−	2000 01 04	704	0.5−	0.7−	2000 02 03	704	1.4+	0.3+
1998 09 26	704	0.3−	0.5+	2000 01 04	704	0.0	0.8−	2000 02 03	704	0.3−	0.8+
1998 09 26	704	0.3−	0.7+	2000 01 04	704	0.5+	1.1−	2000 02 11	704	0.2+	0.4−
1998 09 26	704	0.8+	0.5−	2000 01 28	682	0.6−	0.6−	2000 02 11	704	0.2−	0.7+
1998 09 26	704	0.2−	0.4+	2000 01 28	682	(2.2+	1.0+)	2000 02 11	704	0.6+	0.4−
1998 09 27	704	1.2−	0.2−	2000 01 28	682	0.4−	0.6−				
1998 09 27	704	1.3+	1.4+	2000 02 02	704	0.9−	0.3−				

1998 SP₁₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	110.22439		(2000.0)	P	Q
<i>n</i>	0.27640515	<i>ω</i>	146.99272	+0.54350035	−0.83879672
<i>a</i>	2.3340239	<i>Ω</i>	270.06593	+0.76303042	+0.50960139
<i>e</i>	0.1492390	<i>i</i>	1.83684	+0.34984561	+0.19164155
<i>P</i>	3.57	<i>H</i>	15.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1987 09 18	413	0.3−	0.1−	1998 09 27	704	0.0	0.3−	1998 10 20	327	0.0	0.1−
1987 09 18	413	0.5+	0.0	1998 09 27	704	0.7+	0.2+	1998 10 20	327	0.2+	0.8+
1991 12 07	675	1.4−	0.8+	1998 09 27	704	0.0	0.6−	1998 10 20	327	0.5+	0.2+
1991 12 07	675	0.4+	0.5+	1998 09 27	704	0.4+	0.6−	1998 11 10	699	0.6+	0.0
1993 03 30	413	1.1+	0.3−	1998 10 11	699	0.5−	0.0	1998 11 10	699	0.3+	0.6+
1993 03 30	413	(2.5+	0.9−)	1998 10 11	699	0.3−	0.6+	1998 11 10	699	0.4+	0.3−
1997 05 27	599	0.7+	1.4+	1998 10 11	699	0.3−	0.1−	1998 11 10	699	0.1+	1.3+
1997 05 27	599	1.4−	1.7+	1998 10 15	327	0.3−	0.4+	1998 11 10	699	1.6+	0.7−
1998 09 17	699	0.4−	0.1+	1998 10 15	327	0.2−	0.6+	1998 11 10	699	0.3+	1.2+
1998 09 17	699	0.4+	0.2−	1998 10 15	327	0.2−	0.3+	1999 01 18	691	0.0	0.1−
1998 09 17	699	0.7−	0.2−	1998 10 17	327	0.1+	0.1−	1999 01 18	691	1.3−	0.1−
1998 09 26	704	0.7+	0.9−	1998 10 17	327	0.0	0.1+	1999 01 18	691	0.6−	0.3−
1998 09 26	704	0.4−	0.3−	1998 10 17	327	0.3−	0.9+	2000 03 11	704	0.0	0.2−
1998 09 26	704	0.6+	0.4−	1998 10 19	327	0.2+	0.1+	2000 03 11	704	0.2+	0.6+
1998 09 26	704	0.2−	0.7−	1998 10 19	327	0.2−	0.1+	2000 03 11	704	0.0	0.5+
1998 09 26	704	1.2−	0.0	1998 10 19	327	0.0	0.2+	2000 03 11	704	0.2+	0.5+

2000 MAR. 20

M.P.C. 39259

1998 SU₁₆₂ = 2000 DV₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	108.87955		(2000.0)	P	Q
<i>n</i>	0.22393092	ω	130.24722	+0.86854924	-0.49479927
<i>a</i>	2.6857155	Ω	259.42654	+0.44554914	+0.80449269
<i>e</i>	0.0850678	<i>i</i>	1.64456	+0.21704420	+0.32858057
<i>P</i>	4.40	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.4+	0.3-	1998 10 29	704	0.8+	0.8+	2000 02 29	704	0.3+	0.9-
1998 09 26	704	0.7-	0.3-	1998 10 29	704	0.2+	0.3+	2000 02 29	704	0.0	0.6-
1998 09 26	704	0.3-	1.9-	1998 11 16	566	0.1-	0.1-	2000 02 29	704	0.1+	0.5-
1998 09 26	704	0.1-	0.9+	1998 11 16	566	0.3+	0.3-	2000 02 29	704	0.6+	0.9-
1998 09 27	704	0.2-	0.4-	1998 11 16	566	0.2-	0.5-	2000 03 03	704	0.0	0.9-
1998 09 27	704	0.0	1.1+	2000 02 02	704	0.4+	0.7-	2000 03 03	704	0.7-	0.7+
1998 09 27	704	0.0	0.3-	2000 02 02	704	0.2+	0.1+	2000 03 03	704	0.2-	0.3-
1998 09 27	704	0.1+	1.6-	2000 02 02	704	1.0+	0.5+	2000 03 03	704	0.1-	0.1+
1998 10 28	704	0.0	1.0+	2000 02 02	704	0.1+	0.0	2000 03 03	704	0.4-	0.2+
1998 10 28	704	1.5-	0.5+	2000 02 02	704	0.2-	0.1+	2000 03 05	704	1.0-	0.0
1998 10 28	704	0.9+	0.0	2000 02 27	703	0.7+	0.4+	2000 03 05	704	0.2+	0.6-
1998 10 28	704	1.1-	0.3+	2000 02 27	703	0.4+	0.5+	2000 03 05	704	0.4-	1.7+
1998 10 29	704	1.0+	0.3+	2000 02 27	703	1.7-	0.4-	2000 03 05	704	0.3-	1.5+
1998 10 29	704	(2.1+ 2.5+)		2000 02 27	703	1.0+	0.0				
1998 10 29	704	0.4+	0.3+	2000 02 29	704	0.1-	0.5-				

1998 SR₁₆₄ = 1998 VS₃₀Id. A. Doppler (d, *MPC* 33785)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	94.09076		(2000.0)	P	Q
<i>n</i>	0.26944939	ω	65.66108	-0.26491368	-0.95488210
<i>a</i>	2.3740211	Ω	40.46206	+0.79266609	-0.29492240
<i>e</i>	0.1945547	<i>i</i>	11.93853	+0.54909126	-0.03494198
<i>P</i>	3.66	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1978 06 09	413	1.0-	0.5+	1998 09 30	327	0.5-	0.1-	1998 11 11	704	0.5+	0.2+
1978 06 09	413	1.0+	1.0-	1998 10 03	327	1.0+	0.3+	1998 12 14	704	1.0+	0.1-
1983 10 07	413	1.2-	0.7+	1998 10 03	327	0.6+	0.1+	1998 12 14	704	0.6-	0.8-
1983 10 07	413	2.0+	0.2+	1998 10 03	327	0.9+	0.3+	1998 12 14	704	0.8+	0.8-
1983 10 08	413	0.5+	0.2-	1998 11 10	704	1.7-	1.3+	1998 12 14	704	0.5+	0.5-
1983 10 08	413	2.0-	0.3-	1998 11 10	704	0.9-	0.2+	1998 12 14	704	0.7+	1.0-
1996 04 21	413	0.2-	0.0	1998 11 10	704	1.2-	0.4+	1998 12 24	699	0.2+	0.6+
1998 08 31	704	2.1+	1.0-	1998 11 10	704	1.7-	0.3+	1998 12 24	699	0.5+	0.5+
1998 08 31	704	0.6+	0.8-	1998 11 10	704	(2.9- 1.1-)		1998 12 24	699	0.3+	0.6+
1998 08 31	704	0.8-	1.0-	1998 11 11	704	0.2+	0.6+	1999 01 14	699	0.1-	0.2+
1998 08 31	704	1.4+	0.8-	1998 11 11	704	0.2+	0.1+	1999 01 14	699	0.6-	0.5-
1998 09 30	327	0.9-	0.1+	1998 11 11	704	0.2+	0.3-	1999 01 14	699	0.3+	0.2+
1998 09 30	327	0.7-	0.2-	1998 11 11	704	0.0	0.1+				

1998 TE

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	117.18056		(2000.0)	P	Q
<i>n</i>	0.28932036	ω	189.27970	+0.46072268	-0.88403607
<i>a</i>	2.2640363	Ω	233.32697	+0.82048062	+0.45809745
<i>e</i>	0.1017707	<i>i</i>	5.64071	+0.33844669	+0.09288136
<i>P</i>	3.41	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 10 02	888	0.6-	0.6+	1998 10 18	888	0.2-	0.3-	1998 11 07	888	0.3-	0.2-
1998 10 02	888	0.3-	0.4-	1998 10 18	327	0.5-	0.0	1998 11 07	888	0.4-	0.5-
1998 10 02	888	0.3+	0.1-	1998 10 18	327	0.2-	0.0	1998 11 11	704	0.4-	0.5-
1998 10 03	888	0.3+	0.2-	1998 10 18	327	0.5-	0.2-	1998 11 11	704	0.5-	0.7+
1998 10 03	888	0.1-	0.2+	1998 10 19	699	1.1+	0.6-	1998 11 11	704	0.9-	0.3-
1998 10 03	888	0.2-	1.4+	1998 10 19	699	0.5-	0.1-	1998 11 11	704	(3.3- 0.9-)	
1998 10 10	411	0.2+	0.3-	1998 10 19	699	0.4+	0.4+	1998 11 19	888	0.1-	0.2-

1998 10 10	411	0.6-	0.0	1998 10 19	699	0.8+	0.0	1998 11 19	888	0.0	0.1-
1998 10 10	888	0.9+	0.5-	1998 10 19	699	0.7+	0.2+	1998 11 19	888	0.5-	0.1-
1998 10 10	888	0.3-	0.5-	1998 10 19	699	0.6-	0.4+	1998 12 09	888	0.4+	0.1+
1998 10 10	888	0.4+	0.5-	1998 10 24	888	0.1+	0.1+	1998 12 09	888	0.1+	0.6+
1998 10 11	411	0.1+	0.4+	1998 10 24	888	0.1-	0.2+	1998 12 19	888	0.4-	0.1-
1998 10 11	411	0.2-	0.2+	1998 10 24	888	0.3+	0.0	1998 12 19	888	0.1+	0.5+
1998 10 11	888	0.4+	0.2-	1998 10 28	704	0.0	0.7+	1999 01 06	699	0.3+	0.8-
1998 10 11	888	0.8-	0.4-	1998 10 28	704	0.5+	0.9+	1999 01 06	699	(0.2- 2.5-)	
1998 10 11	888	0.4+	0.5-	1998 10 28	704	0.0	0.6+	1999 01 06	699	0.1+	1.8-
1998 10 15	327	0.1+	0.4-	1998 10 28	704	0.1-	1.0+	1999 01 09	888	0.1-	0.4-
1998 10 15	327	0.1-	0.8-	1998 10 29	704	0.2+	0.8+	1999 01 09	888	0.3+	0.4+
1998 10 15	327	0.1+	0.3-	1998 10 29	704	0.1-	0.9+	2000 03 06	888	0.1+	0.7+
1998 10 18	886	1.9+	1.7-	1998 10 29	704	0.3+	1.1+	2000 03 06	888	0.8-	0.3+
1998 10 18	886	0.7-	0.7-	1998 10 29	704	0.3+	1.3+	2000 03 06	888	0.7+	0.1-
1998 10 18	888	0.2-	0.5-	1998 10 29	704	0.3-	0.6+	2000 03 13	888	0.4+	0.4-
1998 10 18	888	0.0	0.4-	1998 11 07	888	0.6-	0.2-	2000 03 13	888	0.2-	0.2+

1998 TJ = 2000 EH₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	187.96358		(2000.0)	P	Q
<i>n</i>	0.28164983	ω	315.42781	+0.85742050	+0.51407198
<i>a</i>	2.3049582	Ω	13.69317	-0.43983358	+0.75592137
<i>e</i>	0.1382057	<i>i</i>	5.73765	-0.26716382	+0.40535525
<i>P</i>	3.50	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 31	910	0.1-	0.4-	1998 10 21	910	1.7+	0.2+	1998 11 11	704	0.4+	0.4+
1998 08 31	910	0.0	0.4-	1998 10 28	704	0.5+	0.4-	1998 11 11	704	0.9-	0.7-
1998 08 31	910	0.1-	0.4-	1998 10 28	704	0.9+	1.4+	2000 02 06	704	0.6-	0.3+
1998 09 14	699	0.9+	0.0	1998 10 28	704	0.4+	0.1-	2000 02 06	704	0.1+	0.5-
1998 09 14	699	0.6+	0.1-	1998 10 28	704	0.5+	0.2-	2000 02 06	704	0.1+	0.1+
1998 09 14	699	0.0	0.1-	1998 10 29	704	0.1+	0.3+	2000 02 06	704	1.1-	0.6+
1998 10 10	411	1.8-	0.1-	1998 10 29	704	0.1-	0.5-	2000 03 05	704	0.5+	0.1-
1998 10 10	411	0.8-	0.1+	1998 10 29	704	0.2-	0.1+	2000 03 05	704	1.4+	0.4-
1998 10 11	699	0.9-	0.6+	1998 10 29	704	0.7-	0.9+	2000 03 05	704	0.1-	0.1-
1998 10 11	699	0.7+	0.0	1998 10 29	704	0.2-	0.5+	2000 03 05	704	0.7+	0.3-
1998 10 11	699	0.1-	0.5+	1998 11 07	411	1.0-	0.9-	2000 03 05	704	0.3+	0.1-
1998 10 11	411	1.1-	0.2+	1998 11 07	411	0.8-	0.1+	2000 03 09	704	0.5+	0.6-
1998 10 11	411	1.7-	0.4+	1998 11 10	704	0.9-	0.7-	2000 03 09	704	0.7+	0.7+
1998 10 20	910	0.5+	0.0	1998 11 10	704	0.4+	0.7-	2000 03 09	704	0.4-	0.1-
1998 10 20	910	0.5+	0.0	1998 11 10	704	0.5-	1.9-	2000 03 09	704	0.2-	0.1+
1998 10 20	910	0.4+	0.0	1998 11 10	704	(1.9- 3.0-)		2000 03 09	704	0.5-	0.5+
1998 10 21	910	1.6+	0.1+	1998 11 11	704	0.4+	0.2-				
1998 10 21	910	1.7+	0.2+	1998 11 11	704	0.1-	1.4+				

1998 TW₁ = 2000 ES₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	116.32466		(2000.0)	P	Q
<i>n</i>	0.21759779	ω	332.65858	+0.88530069	-0.44246678
<i>a</i>	2.7375774	Ω	54.32560	+0.45231698	+0.74794409
<i>e</i>	0.1454286	<i>i</i>	10.14304	+0.10794459	+0.49477549
<i>P</i>	4.53	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 08 31	704	0.2+	0.2-	1998 11 11	704	0.4+	0.3+	2000 02 03	704	0.5+	0.4-
1998 08 31	704	0.1-	1.4+	1998 11 11	699	0.2+	0.4+	2000 02 03	704	0.1-	0.1-
1998 08 31	704	0.8-	0.0	1998 11 11	699	0.1+	0.6+	2000 02 03	704	0.5+	0.9+
1998 08 31	704	1.2-	0.4-	1998 11 11	699	0.1+	0.4+	2000 03 04	704	0.3+	0.7+
1998 08 31	704	1.3-	0.8-	1998 11 24	699	0.7-	0.3+	2000 03 04	704	0.1+	0.0
1998 10 14	120	0.7+	0.2-	1998 11 24	699	0.1-	0.0	2000 03 04	704	0.1+	0.1-
1998 10 14	699	0.0	0.2+	1998 11 24	699	0.4-	0.4+	2000 03 04	704	0.4+	0.1+
1998 10 14	699	0.1-	0.0	1998 12 08	699	0.6+	0.2-	2000 03 04	704	0.3+	0.1-
1998 10 14	699	0.0	0.8-	1998 12 08	699	0.4+	0.0	2000 03 06	704	0.3-	0.9-
1998 10 14	120	0.7+	0.4+	1998 12 08	699	0.2+	0.4-	2000 03 06	704	0.1-	0.4+
1998 10 15	120	0.3+	0.2-	1998 12 11	691	0.5-	0.7-	2000 03 06	704	1.2-	0.7+
1998 10 20	120	0.4+	0.2+	1998 12 11	691	0.0	0.4-	2000 03 08	704	0.4+	0.8+

M.P.C. 39260

1998 10 20	120	0.8+	0.2−	1998 12 11	691	0.1−	0.5−	2000 03 08	704	0.1+	0.5+
1998 10 27	120	0.8+	0.3−	1998 12 15	691	0.0	0.2−	2000 03 08	704	0.2−	0.2+
1998 10 27	120	0.3+	0.3−	1998 12 15	691	0.2+	0.0	2000 03 08	704	0.0	0.2−
1998 10 29	691	1.4−	0.0	1998 12 15	691	0.3+	0.2−	2000 03 08	704	0.1+	0.3+
1998 10 29	691	1.4−	0.1−	1998 12 17	691	0.7−	0.1−	2000 03 09	704	0.0	0.0
1998 11 10	704	0.3+	0.6+	1998 12 17	691	0.8−	0.3−	2000 03 09	704	0.3−	0.1−
1998 11 10	704	0.1+	0.1+	1998 12 17	691	0.7−	0.1−	2000 03 09	704	0.7−	0.2+
1998 11 10	704	0.3+	0.6+	1999 01 06	699	1.0+	0.4+	2000 03 09	704	0.2−	0.1+
1998 11 10	704	0.0	0.2+	1999 01 06	699	1.3−	0.7+	2000 03 09	704	0.3−	0.5−
1998 11 10	704	1.3+	1.0−	1999 01 06	699	0.0	0.7−	2000 03 12	704	0.1+	0.4−
1998 11 11	704	0.6+	0.4+	1999 01 14	910	0.2+	0.1+	2000 03 12	704	0.0	0.7−
1998 11 11	704	0.3−	0.7+	1999 01 14	910	0.0	0.3−	2000 03 12	704	0.1+	0.3−
1998 11 11	704	0.3+	0.0	1999 01 14	910	0.1−	0.7−	2000 03 12	704	0.1+	0.6−
1998 11 11	704	0.0	0.3+	2000 02 03	704	0.8+	0.3+	2000 03 12	704	0.2−	0.5−

1998 TL₂ = 1991 RK₃₅ = 2000 DZ₁₁

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	151.57224	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28817119	ω	14.02696	+0.95382758	−0.30032211	
<i>a</i>	2.2700513	Ω	3.45945	+0.26801890	+0.84439928	
<i>e</i>	0.1699378	<i>i</i>	4.20438	+0.13556847	+0.44361750	
<i>P</i>	3.42	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1991 09 13	675	0.5+	0.5+	1998 10 29	704	0.4−	0.5+	1998 11 13	120	0.5−	0.6−
1991 09 13	675	0.5−	0.4−	1998 10 29	704	0.3−	0.1−	2000 02 27	691	0.0	0.5−
1998 10 11	699	0.5−	0.0	1998 10 29	704	0.0	0.3−	2000 02 27	691	0.1+	0.4−
1998 10 11	699	0.4+	0.2−	1998 10 29	704	1.0−	0.3+	2000 02 27	691	0.0	0.6−
1998 10 11	699	0.6−	0.3+	1998 11 09	120	0.3−	0.3−	2000 03 02	691	0.4−	0.8−
1998 10 13	910	0.8+	0.1+	1998 11 09	120	0.0	0.0	2000 03 02	691	0.3−	0.5−
1998 10 13	910	0.8+	0.1−	1998 11 10	704	0.2+	1.3−	2000 03 02	691	0.2−	0.6−
1998 10 13	910	0.8+	0.0	1998 11 10	704	0.3−	1.2−	2000 03 03	691	0.1+	0.6−
1998 10 14	327	0.7−	0.1+	1998 11 10	704	0.2+	0.7−	2000 03 03	691	0.0	0.6−
1998 10 14	327	0.7−	0.2+	1998 11 11	704	0.6+	0.4−	2000 03 03	691	0.1−	1.0−
1998 10 14	327	0.7−	0.3+	1998 11 11	704	1.0+	0.4+	2000 03 04	688	0.3−	0.1+
1998 10 15	910	0.6+	0.3−	1998 11 11	704	0.3−	0.3+	2000 03 04	688	0.0	0.1−
1998 10 15	910	0.5+	0.4−	1998 11 11	704	0.2+	0.1−	2000 03 08	704	0.1+	0.5+
1998 10 15	910	0.4+	0.4−	1998 11 11	704	0.3+	1.2−	2000 03 08	704	1.1+	0.5+
1998 10 15	327	0.8−	0.1+	1998 11 11	132	0.6+	0.8+	2000 03 08	704	0.2−	0.6+
1998 10 15	327	0.6−	0.0	1998 11 11	120	0.9+	0.0	2000 03 10	704	0.2+	0.8+
1998 10 15	327	0.6−	0.0	1998 11 11	132	0.4+	1.1+	2000 03 10	704	0.0	0.7+
1998 10 19	699	0.4+	0.5−	1998 11 11	120	0.2+	0.3−	2000 03 10	704	0.3−	0.7+
1998 10 19	699	0.6+	0.2−	1998 11 11	120	0.0	0.1−	2000 03 10	704	0.2−	0.6+
1998 10 19	699	0.4−	0.3+	1998 11 11	132	0.3+	0.9−	2000 03 10	704	0.4+	0.1+
1998 10 28	704	0.4+	1.0+	1998 11 11	120	0.2+	0.3+	2000 03 11	704	0.2+	0.5−
1998 10 28	704	0.3+	0.4+	1998 11 12	120	1.0−	0.3+	2000 03 11	704	0.2−	1.3+
1998 10 28	704	0.4+	0.9+	1998 11 12	120	0.0	0.2−	2000 03 11	704	0.1+	0.4+
1998 10 28	704	0.3+	0.3+	1998 11 13	120	(2.3−	3.0+)	2000 03 11	704	0.3+	0.6+
1998 10 29	704	0.8−	0.7+	1998 11 13	120	1.6−	0.8+	2000 03 11	704	(1.2+	2.3+)

1998 TN₂ = 2000 EX₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	36.17907	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.26743219	ω	122.94284	−0.71975561	−0.69368975	
<i>a</i>	2.3859441	Ω	13.20514	+0.59032646	−0.63226910	
<i>e</i>	0.0719339	<i>i</i>	6.86875	+0.36533072	−0.34500771	
<i>P</i>	3.69	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1998 10 13	910	0.3+	0.0	1998 11 11	120	0.1−	0.4−	2000 03 08	704	0.1+	0.1−
1998 10 13	910	0.8−	0.9+	1998 11 11	120	0.3−	0.9−	2000 03 08	704	0.6−	0.6+
1998 10 13	910	0.8−	0.3+	1998 11 13	120	0.7−	1.2+	2000 03 08	704	0.3−	0.5−
1998 10 15	910	0.4+	0.2+	1998 11 13	120	0.2+	0.2+	2000 03 08	704	0.5+	0.3+
1998 10 15	910	0.5+	0.2+	2000 03 02	691	0.1+	0.7−	2000 03 08	704	0.7−	0.1−
1998 10 15	910	0.4+	0.2+	2000 03 02	691	0.1+	0.6−	2000 03 10	704	0.4+	0.5+

2000 MAR. 20

1998 10 18	327	0.0	0.4−	2000 03 02	691	0.2+	0.6−	2000 03 10	704	0.2+	0.1+
1998 10 18	327	0.2−	0.3−	2000 03 03	691	0.3−	0.5−	2000 03 10	704	0.4+	0.8+
1998 10 18	327	0.1+	0.1+	2000 03 03	691	0.3−	0.5−	2000 03 10	704	0.4+	0.9+
1998 11 11	120	0.9+	0.9−	2000 03 03	691	0.3−	0.4−	2000 03 10	704	0.4+	1.0+

1998 TQ₃ = 1950 VK = 1987 UP₉

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	127.67788	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.26690788	ω	2.34509	+0.79701197	−0.58835011	
<i>a</i>	2.3890677	Ω	34.87328	+0.55016923	+0.61405371	
<i>e</i>	0.2042531	<i>i</i>	13.80578	+0.24917010	+0.52610094	
<i>P</i>	3.69	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1950 11 07	711	1.5+	2.1−	Y	1998 10 20	699	0.0	0.2+	1999 01 14	699	0.1−	0.7−
1987 10 28	095	(1.7−	3.4+)		1998 10 29	704	0.7+	0.0	1999 01 14	699	0.7−	0.7−
1993 04 02	413	(2.9−	0.5+)		1998 10 29	704	0.1−	0.1−	1999 01 14	699	0.6−	0.6−
1993 04 02	413	1.5−	0.6+		1998 10 29	704	0.0	0.2+	2000 01 10	704	0.1+	0.8−
1998 08 31	704	0.3−	1.5−		1998 10 29	704	0.3+	0.2+	2000 01 10	704	0.8+	1.3−
1998 08 31	704	0.7−	1.0−		1998 10 29	704	0.6+	1.0+	2000 01 10	704	0.1+	1.3−
1998 08 31	704	0.8−	0.6−		1998 11 10	704	0.3−	0.5−	2000 01 10	704	0.4+	1.2−
1998 08 31	704	1.1+	0.3−		1998 11 10	704	0.9−	0.4−	2000 03 11	699	0.2−	0.3+
1998 08 31	704	0.7+	0.1+		1998 11 10	704	1.4−	0.7−	2000 03 11	699	0.5−	0.1−
1998 09 18	699	0.6−	0.5−		1998 11 10	704	1.6−	0.2−	2000 03 11	699	0.1+	0.0
1998 09 18	699	0.3−	0.1−		1998 11 10	704	1.9−	0.2−	2000 03 11	699	0.0	0.3+
1998 09 18	699	0.4−	0.3−		1998 11 11	704	0.6−	0.2−	2000 03 12	703	0.1+	0.3+
1998 10 14	699	0.9+	0.5+		1998 11 11	704	0.3−	0.4−	2000 03 12	703	0.2+	0.4+
1998 10 14	704	0.8+	0.9+		1998 11 11	704	0.6+	0.1−	2000 03 12	703	0.2−	1.1−
1998 10 14	704	0.4+	0.9+		1998 11 11	704	0.4+	0.2+	2000 03 12	703	0.2+	0.3+
1998 10 14	699	0.8+	0.6+		1998 11 11	704	0.8−	0.8−	2000 03 13	704	0.3+	0.4−
1998 10 14	704	1.7+	1.7+		1998 12 09	704	(2.2+	1.4−)	2000 03 13	704	0.2−	0.4+
1998 10 14	699	0.8+	0.3+		1998 12 09	704	(2.7+	0.1−)	2000 03 13	704	0.2+	0.4+
1998 10 14	704	(0.5+	2.3+)		1998 12 09	704	(2.7+	0.5+)	2000 03 13	704	0.4+	0.3+
1998 10 15	704	0.1−	0.3+		1998 12 09	704	0.9−	0.7+	2000 03 13	704	0.5+	0.8+
1998 10 15	704	0.7+	0.7+		1998 12 09	704	0.6+	1.8+	2000 03 15	699	0.2−	0.3+
1998 10 15	704	0.7+	0.1+		1999 01 08	704	0.2−	1.1−	2000 03 15	699	0.2+	0.5−
1998 10 15	704	0.1−	1.1+		1999 01 08	704	1.2−	0.0	2000 03 15	699	0.5−	0.2+
1998 10 15	704	0.5+	0.3+		1999 01 08	704	0.5−	0.5−	2000 03 15	699	0.0	0.1+
1998 10 20	699	0.1−	0.2+		1999 01 08	704	0.0	1.2−				
1998 10 20	699	0.3+	0.1−		1999 01 08	704	0.7−	0.4−				

1998 TF₅ = 2000 DU₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	224.48280	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.30238009	ω	235.22063	+0.51331384	+0.85355348	
<i>a</i>	2.1983690	Ω	65.90400	−0.75201147	+0.49743964	
<i>e</i>	0.1658174	<i>i</i>	5.60713	−0.41350652	+0.15492018	
<i>P</i>	3.26	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1998 10 13	120	0.2−	0.2+	1998 11 10	704	0.4−	0.3−	2000 02 03	704	1.5+	0.6+
1998 10 13	120	1.1−	0.3−	1998 11 11	704	0.7−	0.5+	2000 02 29	704	0.3−	0.9+
1998 10 13	120	0.4+	0.4+	1998 11 11	704	0.0	0.5+	2000 02 29	704	0.3+	0.4+
1998 10 15	120	0.0	0.0	1998 11 11	704	0.2−	0.5−	2000 02 29	704	0.3+	0.2−
1998 10 15	120	0.1−	0.7−	1998 11 11	704	0.5+	1.4+	2000 02 29	704	0.1+	0.1−
1998 10 20	120	0.2+	0.4−	1998 11 11	120	1.1+	0.1−	2000 02 29	704	0.8−	0.0
1998 10 20	120	1.3−	0.1−	1998 11 11	120	0.9+	0.7−	2000 03 04	704	0.5+	0.1+
1998 11 10	704	0.8+	0.2−	2000 02 03	704	0.8+	1.3−	2000 03 04	704	0.6−	0.1+
1998 11 10	704	0.5−	0.6+	2000 02 03	704	0.0	0.3−	2000 03 04	704	1.0−	0.0
1998 11 10	704	0.7+	0.2−	2000 02 03	704	(3.1+	0.8+)	2000 03 04	704	0.7−	0.2−

2000 MAR. 20

M.P.C. 39261

1998 TO₅ = 1981 UH₁₅ = 2000 ER₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	94.52581		(2000.0)	P		Q	
<i>n</i>	0.23166711	ω	212.81758	+0.43559251		−0.89440115	
<i>a</i>	2.6255873	Ω	211.70043	+0.86190832		+0.44694941	
<i>e</i>	0.1628029	<i>i</i>	11.13902	+0.25956352		+0.01681677	
<i>P</i>	4.25	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

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

1981 10 23	095(0.21+ 0.02+)	1998 10 30	120	0.6−	0.3−	1999 01 11	704	(2.0−	2.3+)
1998 10 10	699 0.2+ 0.2−	1998 10 30	120	0.9−	0.2+	1999 01 11	704	0.1−	0.5+
1998 10 10	699 0.0 0.3−	1998 11 06	120	0.0	1.1+	1999 01 11	704	(2.5−	1.3−)
1998 10 10	699 0.8+ 0.6−	1998 11 06	120	0.1−	1.2+	2000 01 11	704	0.2+ 0.7+	
1998 10 13	120 1.5− 0.2+	1998 11 10	704	0.9+	0.2+	2000 01 11	704	0.5−	0.4−
1998 10 13	120 0.4− 0.3+	1998 11 10	704	0.2+	0.7−	2000 01 11	704	0.3+ 0.3+	
1998 10 15	120 0.3− 0.0	1998 11 10	704	0.6+	1.4−	2000 01 11	704	0.6−	0.1+
1998 10 15	120 0.7− 0.5+	1998 11 10	704	0.5+	0.5−	2000 03 09	704	0.2−	0.6−
1998 10 16	120 1.6+ 0.3+	1998 11 10	704	0.8+	1.8−	2000 03 09	704	0.0	0.3−
1998 10 16	120 0.6+ 0.4−	1998 11 11	704	0.3−	0.7+	2000 03 09	704	0.1−	0.2+
1998 10 20	120 0.7+ 0.0	1998 11 11	704	0.2−	0.1+	2000 03 13	704	0.5−	0.5−
1998 10 20	120 0.4− 0.1−	1998 11 11	704	0.6−	0.1+	2000 03 13	704	0.9+ 0.0	
1998 10 21	120 0.1+ 0.0	1998 11 11	704	0.5+	0.5−	2000 03 13	704	0.6+ 0.6+	
1998 10 21	120 0.1− 0.2−	1998 11 11	704	0.8−	0.6−	2000 03 15	704	0.3+ 0.8−	
1998 10 23	120 0.2+ 0.1+	1998 11 14	699	0.2−	0.6+	2000 03 15	704	0.3−	0.0
1998 10 23	120 0.3− 0.1−	1998 11 14	699	0.2+ 0.6+		2000 03 15	704	0.0	0.1−
1998 10 24	120 0.0 0.7+	1998 11 14	699	0.1+ 0.6+		2000 03 15	704	0.2−	0.1−
1998 10 24	120 0.9− 0.1+	1999 01 11	704	0.4+ 0.5−		2000 03 15	704	0.1−	0.9+

1998 TR₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	136.53604		(2000.0)	P		Q	
<i>n</i>	0.27418564	ω	3.47078	+0.81270388		−0.57990474	
<i>a</i>	2.3466027	Ω	32.18633	+0.53199637		+0.69874246	
<i>e</i>	0.0609386	<i>i</i>	6.11800	+0.23768103		+0.41889076	
<i>P</i>	3.59	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1987 09 24	675 1.3− 0.5+	1998 10 14	691	0.3−	0.3+	1998 11 11	704	0.3+ 0.1+	
1987 09 24	675 0.9+ 1.6+	1998 10 14	691	0.3−	0.3−	1998 11 17	691	0.4−	0.2−
1992 01 24	675 0.4+ 0.1−	1998 10 14	691	0.4−	0.0	1998 11 17	691	0.5−	0.6−
1992 01 24	675 0.8− 0.2−	1998 10 15	120	0.1−	0.2−	1999 01 08	704	0.8+ 0.8−	
1993 03 30	413 (2.8− 0.8+)	1998 10 15	120	0.2+ 0.0		1999 01 08	699	0.4−	0.3−
1993 03 30	413 0.8− 1.0+	1998 10 18	699	0.0	0.1+	1999 01 08	704	0.6−	0.2+
1995 11 30	675 0.2− 0.6+	1998 10 18	699	0.3+ 0.2−		1999 01 08	704	(2.0−	0.2+)
1995 11 30	675 0.1− 0.1+	1998 10 18	699	0.3+ 0.1+		1999 01 08	699	0.1−	1.0−
1995 12 01	675 1.7+ 0.3+	1998 10 19	691	0.5− 0.2−		1999 01 08	704	0.9+ 0.2−	
1995 12 01	675 0.9+ 0.4+	1998 10 19	691	0.2− 0.3−		1999 01 08	699	0.9−	0.0
1996 04 08	675 0.2+ 0.6−	1998 10 19	691	0.3− 0.5−		2000 02 27	703	0.2+ 0.6+	
1996 04 08	675 1.2− 0.9+	1998 10 20	120	0.1+ 0.4+		2000 02 27	703	0.8+ 0.2+	
1998 08 31	704 1.6− 0.5−	1998 10 20	120	0.4+ 0.1+		2000 02 27	703	0.1+ 0.1+	
1998 08 31	704 1.6− 1.3+	1998 10 23	327	0.6+ 0.0		2000 02 27	703	0.4+ 0.1−	
1998 08 31	704 1.3− 0.3+	1998 10 23	327	0.6+ 0.0		2000 03 08	704	0.8+ 0.5+	
1998 08 31	704 (0.8− 2.3+)	1998 10 23	327	0.4+ 0.0		2000 03 08	704	0.9+ 0.3+	
1998 09 29	910 0.3+ 0.2+	1998 10 23	327	0.5+ 0.0		2000 03 08	704	0.8+ 0.1+	
1998 09 29	910 0.1+ 0.2+	1998 10 23	327	0.5+ 0.0		2000 03 08	704	1.2+ 0.5+	
1998 09 29	910 0.1+ 0.1+	1998 10 23	327	0.3+ 0.0		2000 03 12	704	0.2− 0.2−	
1998 10 03	327 0.3− 1.0+	1998 11 10	704	0.1− 0.2−		2000 03 12	704	0.5− 0.2−	
1998 10 03	327 0.8− 0.8+	1998 11 10	704	0.4+ 0.1−		2000 03 12	704	1.4− 0.3−	
1998 10 03	327 0.5− 0.9+	1998 11 10	704	0.6+ 0.2−		2000 03 12	704	1.0− 0.8−	
1998 10 10	699 0.2+ 0.2+	1998 11 10	704	0.3+ 0.3+		2000 03 14	703	0.3+ 0.0	
1998 10 10	699 0.4− 1.1+	1998 11 10	704	0.1− 0.9−		2000 03 14	703	0.3+ 0.7+	
1998 10 10	699 0.2+ 0.9+	1998 11 11	704	0.0	0.5−	2000 03 14	703	0.2− 0.2+	
1998 10 13	120 0.0 0.1−	1998 11 11	704	0.2+ 0.5−		2000 03 14	703	0.3− 0.4+	
1998 10 13	120 0.2− 0.0	1998 11 11	704	0.7+ 0.2−					
1998 10 13	120 0.2− 0.2−	1998 11 11	704	0.6+ 0.0					

1998 TT₆ = 2000 EJ₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	245.82926		(2000.0)	P		Q	
<i>n</i>	0.26653116	ω	217.02919	+0.07474844		+0.99161351	
<i>a</i>	2.3913183	Ω	57.48656	−0.88235398		+0.11502780	
<i>e</i>	0.0940535	<i>i</i>	7.18220	−0.46461180		−0.05891730	
<i>P</i>	3.70	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 15	120 0.5− 0.1+	1998 11 11	120	0.3−	0.2−	2000 03 06	704	0.2+ 0.2−	
1998 10 16	120 0.0 0.2−	1998 12 08	699	0.6+ 0.0		2000 03 06	704	0.0	0.2−
1998 10 16	120 (4.0− 1.3−)	1998 12 08	699	0.8+ 0.4+		2000 03 06	704	0.5−	0.4−
1998 10 16	120 1.4− 0.5−	1998 12 08	699	0.8+ 0.1−		2000 03 09	704	0.3−	0.1+
1998 10 20	120 0.2− 0.0	2000 02 03	704	0.3+ 0.4−		2000 03 09	704	0.2−	0.3−
1998 10 20	120 0.4− 0.0	2000 02 03	704	0.6+ 0.1+		2000 03 09	704	0.3−	0.0
1998 10 23	120 0.7− 0.2−	2000 02 03	704	0.5+ 0.2−		2000 03 09	704	0.4−	0.0
1998 10 23	120 0.1− 0.0	2000 02 03	704	0.6+ 0.2−		2000 03 09	704	0.5−	0.3−
1998 10 27	120 0.0 0.3+	2000 02 03	704	0.2+ 0.1+		2000 03 12	703	0.6−	1.2+
1998 10 27	120 0.1− 0.2−	2000 02 06	703	0.6+ 0.1−		2000 03 12	703	0.6−	0.3+
1998 10 28	120 0.2− 0.1−	2000 02 06	703	0.0	0.1+	2000 03 12	704	0.4−	0.0
1998 10 28	120 0.0 0.2−	2000 02 06	703	0.3+ 0.2−		2000 03 12	703	0.6−	0.2−
1998 11 11	704 0.2− 0.2+	2000 02 06	703	0.4− 0.1−		2000 03 12	704	0.4−	0.3+
1998 11 11	704 0.2+ 0.4+	2000 03 04	704	0.3+ 0.3−		2000 03 12	703	0.3−	0.1+
1998 11 11	704 1.7+ 0.2+	2000 03 04	704	0.5+ 0.1+		2000 03 12	704	0.2+ 0.1+	
1998 11 11	704 0.8+ 0.2−	2000 03 04	704	0.2+ 0.3+		2000 03 12	704	0.1+ 0.1+	
1998 11 11	704 0.2+ 0.1−	2000 03 04	704	0.2+ 0.2+		2000 03 12	704	0.2+ 0.0	
1998 11 11	120 0.6− 0.4+	2000 03 04	704	0.2+ 0.3+					
1998 11 11	120 0.3− 0.3+	2000 03 06	704	0.1+ 0.1−					

1998 TX₇ = 2000 CR₅₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	1.95571		(2000.0)	P		Q	
<i>n</i>	0.26239998	ω	346.15102	−0.92241894		−0.38617726	
<i>a</i>	2.4163519	Ω	171.13009	+0.35628606		−0.85418598	
<i>e</i>	0.1212505	<i>i</i>	1.19927	+0.14900851		−0.34818591	
<i>P</i>	3.76	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 13	691	0.1−	0.2+	2000 03 03	704	0.4+	0.2+	2000 03 09	704	0.0	0.1+
1998 10 13	691	0.0	0.0	2000 03 04	704	0.1+	0.2+	2000 03 09	704	0.5+	0.0
1998 10 13	691	0.3−	0.1+	2000 03 04	704	0.1+	0.3+	2000 03 09	704	0.5+	0.1−
1998 10 17	691	0.0	0.1+	2000 03 04	704	0.1−	0.0	2000 03 09	586	1.4+	1.1+
1998 10 17	691	0.1−	0.4+	2000 03 04	704	0.5+	0.4+	2000 03 09	586	0.2+	0.4+
1998 10 17	691	0.2+	0.1−	2000 03 04	704	0.5+	0.4+	2000 03 09	586	0.1+	0.4−
2000 02 05	704	1.0−	0.0	2000 03 04	858	0.1+	0.1+	2000 03 09	586	1.2+	0.3+
2000 02 05	704	1.0+	0.1−	2000 03 04	858	0.1−	0.1−	2000 03 10	586	0.2+	1.0+
2000 02 05	704	0.1−	0.3+	2000 03 04	858	0.2−	0.1+	2000 03 10	586	0.7−	1.1+
2000 02 06	704	1.7+	0.8−	2000 03 04	474	0.4−	0.1−	2000 03 10	586	0.6−	0.9+
2000 02 06	704	0.0	0.2−	2000 03 04	474	0.5−	0.1−	2000 03 11	704	0.4−	0.3+
2000 02 06	704	1.7+	0.6+	2000 03 04	474	0.5−	0.0	2000 03 11	704	0.1+	0.1−
2000 02 08	691	0.6+	0.2−	2000 03 05	704	0.2+	0.3−	2000 03 11	704	0.6−	0.4+
2000 02 08	691	0.2−	0.3−	2000 03 05	704	0.2+	0.2−	2000 03 11	699	0.1+	0.5−
2000 02 08	691	0.2−	0.6−	2000 03 05	704	0.5+	0.1+	2000 03 11	704	0.1−	0.4−
2000 02 11	704	1.7−	0.8−	2000 03 05	704	0.2+	0.1−	2000 03 11	704	0.1−	0.2−
2000 02 11	704	1.9−	0.2−	2000 03 05	704	0.4+	0.1−	2000 03 11	699	0.2−	0.2+
2000 02 11	704	0.5−	0.0	2000 03 05	858	0.2−	0.2−	2000 03 11	699	0.1+	0.5−
2000 02 13	104	0.2+	0.6−	2000 03 05	858	0.2−	0.2−	2000 03 11	699	0.2+	0.3−
2000 02 13	104	0.2+	0.2+	2000 03 05	858	0.2−	0.0	2000 03 11	586	0.2+	0.2+
2000 02 14	104	0.4−	0.5−	2000 03 05	474	0.2+	0.3−	2000 03 11	586	0.1+	0.2+
2000 02 14	104	1.2−	0.3−	2000 03 05	474	0.1+	0.5−	2000 03 12	586	0.3+	0.1−
2000 02 14	104	0.6−	0.5+	2000 03 05	474	0.1−	0.2−	2000 03 12	586	0.3+	0.2+
2000 02 14	104	0.1−	0.5+	2000 03 06	474	0.5+	0.5−	2000 03 12	586	0.7−	0.7+
2000 03 03	704	0.3+	0.3+	2000 03 06	474	0.4−	0.7−	2000 03 12	586	0.6−	0.2−
2000 03 03	704	0.3+	0.2+	2000 03 06	474	0.1+	0.4−	2000 03 12	586	0.5−	0.3−

2000 03 03 704 0.2+ 0.4+ 2000 03 09 704 0.1+ 0.2+ 2000 03 12 586 0.7- 0.2-
 2000 03 03 704 0.5+ 0.5+ 2000 03 09 704 0.1+ 0.1- 2000 03 12 586 0.6- 0.2-

1998 TN₁₀ = 1987 KW₄ = 2000 EB₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	322.05055		(2000.0)	P	Q
<i>n</i>	0.29761552	ω	183.27642	-0.75342631	+0.65524884
<i>a</i>	2.2217695	Ω	37.84771	-0.60122729	-0.65280344
<i>e</i>	0.0990299	<i>i</i>	5.11962	-0.26622272	-0.38012712
<i>P</i>	3.31	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1987 05 30	413	0.7+	0.4+	1998 10 22	327	0.4+	0.3+	2000 03 12	704	0.0	0.3+
1987 05 30	413	0.5-	0.1+	1998 10 22	327	0.1-	0.0	2000 03 12	704	0.0	0.4-
1998 10 12	691	0.1+	0.0	1998 10 22	327	0.2+	0.8+	2000 03 12	704	0.3+	0.0
1998 10 12	691	0.1-	0.1+	2000 03 08	704	0.7+	0.4-	2000 03 12	704	0.7-	0.1-
1998 10 12	691	0.1-	0.1-	2000 03 08	704	0.8+	0.7+	2000 03 12	704	0.0	0.3+
1998 10 18	691	0.2-	0.1-	2000 03 08	704	0.6-	0.2-	2000 03 12	704	0.1+	0.0
1998 10 18	691	0.6-	0.0	2000 03 12	704	0.1-	0.4-	2000 03 12	704	0.3-	0.1-
1998 10 18	691	0.0	0.2+	2000 03 12	704	0.0	0.8+				

1998 TD₁₁ = 2000 CR₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	52.07776		(2000.0)	P	Q
<i>n</i>	0.21059336	ω	43.53895	-0.15434259	-0.98595248
<i>a</i>	2.7979477	Ω	55.43875	+0.88392043	-0.16666317
<i>e</i>	0.0555737	<i>i</i>	4.44636	+0.44143293	-0.01100389
<i>P</i>	4.68	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1996 04 18	809	0.3+	0.3-	1998 11 11	704	0.0	0.5+	2000 02 25	703	(2.1-	0.9+)
1996 04 18	809	0.3+	0.2+	1998 11 11	704	0.1-	1.4-	2000 02 29	704	0.7-	0.4+
1996 04 18	809	0.1+	1.4+	1998 11 11	704	1.2-	0.3+	2000 02 29	704	0.3-	0.7-
1996 05 19	809	0.0	0.2-	1998 11 11	704	(3.4-	1.9+)	2000 02 29	704	0.4-	0.6-
1996 05 19	809	0.2-	0.2+	2000 02 04	704	0.0	0.8-	2000 02 29	704	0.4-	0.2-
1996 05 19	809	0.4+	1.0+	2000 02 04	704	1.1-	0.3+	2000 02 29	704	0.1+	0.4-
1998 10 12	691	0.1+	0.5-	2000 02 04	704	0.2+	0.3+	2000 03 05	704	0.7+	0.8+
1998 10 12	691	0.4+	0.7-	2000 02 04	704	0.3-	0.1+	2000 03 05	704	0.6+	0.3+
1998 10 18	691	1.6-	0.2-	2000 02 04	704	0.5-	0.8+	2000 03 05	704	1.2+	1.2-
1998 10 18	691	0.3-	0.4-	2000 02 08	704	0.8+	1.0+	2000 03 11	699	1.0-	1.0-
1998 10 18	691	(3.6-	1.0-)	2000 02 08	704	0.6+	0.7+	2000 03 11	699	0.2+	1.8+
1998 11 10	704	1.0+	1.7+	2000 02 08	704	1.0+	0.2-	2000 03 11	699	1.3-	1.4+
1998 11 10	704	0.5+	0.2+	2000 02 11	704	0.4+	0.3-	2000 03 11	699	1.6-	0.0
1998 11 10	704	0.1-	1.4+	2000 02 11	704	0.6+	0.0	2000 03 12	704	1.5-	0.9-
1998 11 10	704	0.7+	0.2-	2000 02 11	704	0.5+	0.1+	2000 03 12	704	0.2+	0.0
1998 11 11	704	(0.9+	2.7+)	2000 02 11	704	0.4+	1.9+	2000 03 12	704	0.6+	1.3-
1998 11 11	704	1.1-	0.5-	2000 02 25	703	0.6-	1.8-	2000 03 12	704	0.9+	0.9-
1998 11 11	704	0.8+	1.4+	2000 02 25	703	0.1-	0.0				
1998 11 11	704	(1.6-	2.6+)	2000 02 25	703	0.3+	0.2-				

1998 TV₁₂ = 2000 EF₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	354.05553		(2000.0)	P	Q
<i>n</i>	0.26320203	ω	328.10192	-0.99886676	+0.04299304
<i>a</i>	2.4114406	Ω	214.38013	-0.03239522	-0.92841068
<i>e</i>	0.1122672	<i>i</i>	2.07195	-0.03486763	-0.36905991
<i>P</i>	3.74	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 10 13	691	0.4-	0.0	1998 11 10	704	0.9+	0.6-	2000 03 09	704	0.2-	0.3-
1998 10 13	691	0.5-	0.1-	1998 11 10	704	1.9-	1.5-	2000 03 09	704	0.3-	0.2+
1998 10 13	691	0.4-	0.1-	1998 11 17	691	0.2-	0.1+	2000 03 10	704	0.2-	0.2+
1998 10 18	691	0.2+	0.1+	1998 11 17	691	0.2+	0.0	2000 03 10	704	0.1+	0.3+
1998 10 18	691	0.2+	0.2+	1998 11 17	691	0.0	0.1-	2000 03 10	704	0.2-	0.6+
1998 10 18	691	0.6+	0.0	1998 11 19	691	0.1-	0.1+	2000 03 10	704	0.3+	0.3+

1998 10 22	327	0.5+	0.0	1998 11 19	691	0.0	0.1+	2000 03 11	704	0.0	0.5-
1998 10 22	327	0.2-	0.2+	1998 11 19	691	0.2+	0.4+	2000 03 11	704	0.5+	0.4-
1998 10 22	327	0.4+	0.3+	2000 03 09	704	0.4-	0.3-	2000 03 11	704	0.1+	0.2+
1998 11 10	704	0.5-	1.8+	2000 03 09	704	0.7-	0.3-	2000 03 11	704	0.7+	0.7+
1998 11 10	704	0.8+	0.9-	2000 03 09	704	0.4-	0.1-	2000 03 11	704	0.5+	0.5-

1998 TN₁₃ = 1978 WY₁₃ = 2000 DC₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	200.86680		(2000.0)	P	Q
<i>n</i>	0.29319462	ω	119.50882	+0.82234007	+0.56859558
<i>a</i>	2.2440475	Ω	205.85677	-0.53752618	+0.76400428
<i>e</i>	0.1597248	<i>i</i>	2.80616	-0.18660766	+0.30495333
<i>P</i>	3.36	<i>H</i>	15.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1978 11 29	675	0.0	0.2-	1998 11 10	704	0.8-	1.1+	2000 02 29	704	1.1-	0.5-
1978 11 30	675	(11.9-	1.6-)	1998 11 10	704	0.9-	0.8+	2000 02 29	704	0.4-	0.8-
1998 10 13	691	0.3-	0.2-	1998 11 10	704	1.0+	0.9-	2000 03 03	704	0.0	0.3+
1998 10 13	691	0.2-	0.2-	1998 11 11	704	0.8+	1.1+	2000 03 03	704	0.1-	0.1+
1998 10 13	691	0.4-	0.3-	1998 11 11	704	0.6-	0.7+	2000 03 03	704	0.1+	0.5+
1998 10 18	691	0.1+	0.1-	1998 11 11	704	1.4+	0.1-	2000 03 03	704	0.3+	0.0
1998 10 18	691	0.2+	0.7+	1998 11 11	704	1.1-	0.7-	2000 03 03	704	0.9+	0.9+
1998 10 18	691	0.2+	0.2-	1998 11 11	704	0.2-	1.4-				
1998 11 10	704	0.7+	0.2-	2000 02 29	704	0.3+	0.4-				

1998 TV₁₃ = 2000 DU₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	156.31933		(2000.0)	P	Q
<i>n</i>	0.24629855	ω	150.73715	+0.98959638	+0.14331109
<i>a</i>	2.5205471	Ω	201.03468	-0.13791671	+0.91983583
<i>e</i>	0.1659851	<i>i</i>	2.02552	-0.04096331	+0.36519032
<i>P</i>	4.00	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 10 13	691	0.2-	0.3+	1998 11 11	704	1.4+	1.0+	2000 02 29	704	0.1+	0.6+
1998 10 13	691	0.7-	0.3+	1998 11 11	704	0.7+	0.5-	2000 02 29	704	0.2+	1.0-
1998 10 13	691	0.6+	0.9+	1998 11 11	704	0.9+	1.4-	2000 02 29	704	0.2+	0.3-
1998 10 18	699	0.1+	0.9+	1998 11 11	704	0.8-	0.7-	2000 03 03	704	0.4-	0.0
1998 10 18	699	0.1+	0.9+	1998 11 11	699	0.5+	0.1+	2000 03 03	704	0.5-	0.4-
1998 10 18	699	0.1+	0.1-	1998 11 11	704	0.3+	0.0	2000 03 03	704	0.8-	0.2-
1998 10 18	691	1.3-	0.3+	1998 11 11	699	0.6+	0.0	2000 03 03	704	0.4-	0.6-
1998 10 18	691	1.2-	0.3+	1998 11 11	699	0.5+	0.7-	2000 03 03	704	0.6-	1.4-
1998 11 10	704	0.5+	0.2+	1998 12 09	691	0.4-	0.0	2000 03 11	704	1.5+	0.7+
1998 11 10	704	0.9-	1.1-	1998 12 09	691	0.5-	0.4-	2000 03 11	704	0.6+	0.2+
1998 11 10	704	0.1+	0.2-	1998 12 09	691	0.3-	0.1+	2000 03 11	704	0.7-	0.5+
1998 11 10	704	1.1-	0.9+	2000 02 29	704	1.1+	0.2+	2000 03 11	704	0.6-	1.7+
1998 11 10	704	0.6+	0.8-	2000 02 29	704	0.5+	0.6+				

1998 TE₂₇ = 2000 DH₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	97.12827		(2000.0)	P	Q
<i>n</i>	0.21675863	ω	207.44625	+0.60373887	-0.79715915
<i>a</i>	2.7446383	Ω	205.41702	+0.73396268	+0.55880872
<i>e</i>	0.1037723	<i>i</i>	0.80839	+0.31112403	+0.22862656
<i>P</i>	4.55	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 10 14	691	1.0-	0.1+	1998 11 24	699	0.3+	1.1-	2000 03 03	704	0.3-	0.0
1998 10 14	691	1.0-	0.2+	1998 11 24	699	0.2-	0.5-	2000 03 03	704	0.6+	0.3+
1998 10 14	691	1.3-	0.5+	1998 11 24	699	0.5-	0.5-	2000 03 03	704	0.2+	0.3+
1998 10 18	699	0.0	0.2+	1998 12 11	691	0.0	0.8-	2000 03 04	704	0.3-	0.9-
1998 10 18	699	0.1-	0.5+	1998 12 11	691	0.3-	0.4-	2000 03 04	704	0.1-	0.5-
1998 10 18	699	0.5+	0.3+	1998 12 11	691	0.2-	0.5-	2000 03 04	704	0.6-	0.7-
1998 10 19	691	0.0	0.1+	2000 02 26	703	0.3+	0.3+	2000 03 04	704	0.2-	0.7-
1998 10 19											

2000 MAR. 20

M.P.C. 39263

1998 10 19	691	0.1+	0.4+	2000 02 26	703	1.2+	0.0	2000 03 11	704	0.2-	0.7+
1998 11 10	704	0.2+	0.4+	2000 02 26	703	0.9+	1.1+	2000 03 11	704	0.2-	0.4+
1998 11 10	704	0.2+	0.8+	2000 02 27	691	0.1+	0.2-	2000 03 11	704	0.1-	0.3+
1998 11 10	704	1.2+	0.8-	2000 02 27	691	0.2+	0.4-	2000 03 11	704	0.2-	0.4+
1998 11 10	704	0.0	0.5+	2000 02 27	691	0.1+	0.2-	2000 03 11	704	0.5+	0.2+
1998 11 10	704	(2.1-	2.3-)	2000 02 29	704	0.1-	0.4-	2000 03 11	699	0.6+	1.5+
1998 11 11	704	0.0	0.9+	2000 02 29	704	0.2+	0.3-	2000 03 11	699	0.5-	0.5+
1998 11 11	704	(0.9+	2.3-)	2000 02 29	704	0.8+	0.0	2000 03 11	699	0.2-	0.1-
1998 11 11	704	(2.4+	1.1-)	2000 02 29	704	0.0	0.0	2000 03 11	699	1.1-	0.5+
1998 11 11	704	0.8+	0.2-	2000 03 03	704	0.2+	0.1+				
1998 11 11	704	1.3+	0.0	2000 03 03	704	0.1+	0.3+				

1998 TK₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	156.45520		(2000.0)		P		Q
n	0.26333613	ω	149.27224	+0.99464133		+0.04196826	
a	2.4106218	Ω	208.78384	-0.06301694		+0.97061163	
e	0.1516379	i	11.31639	+0.08196032		+0.23696357	
P	3.74	H	14.3	G	0.15	U	2

Residuals in seconds of arc

1982 04 22	413	0.6-	0.8-	1998 11 10	704	0.0	0.6-	2000 02 07	703	1.4-	0.5-
1982 04 22	413	1.0+	0.9-	1998 11 10	704	0.1+	0.9-	2000 02 08	704	0.3+	0.0
1985 01 21	413	0.2-	0.3-	1998 11 10	704	0.1-	1.3-	2000 02 08	704	0.2+	0.2-
1985 01 21	413	0.5+	0.6-	1998 11 10	704	1.0-	0.0	2000 02 08	704	0.5+	0.7-
1989 03 08	413	1.8-	0.4+	1998 11 10	704	0.1+	1.9-	2000 02 08	704	1.0+	0.5-
1989 03 08	413	0.4+	0.4-	1998 11 11	704	0.6-	0.2-	2000 02 08	704	0.0	0.2+
1993 03 30	413	0.8-	0.4-	1998 11 11	704	0.6-	0.5-	2000 03 03	703	0.5-	0.2+
1993 03 30	413	0.2+	0.4-	1998 11 11	704	0.5-	1.3-	2000 03 03	703	0.2+	0.2+
1998 08 31	704	0.4-	0.3+	1998 11 11	704	0.5-	1.2-	2000 03 03	703	0.1+	0.3+
1998 08 31	704	1.9+	1.2+	1998 11 11	704	0.4-	0.9-	2000 03 03	703	0.6-	0.3+
1998 08 31	704	1.0+	0.4+	1998 11 14	699	0.0	0.4+	2000 03 04	703	0.0	0.2+
1998 08 31	704	0.0	0.2-	1998 11 14	699	0.2+	0.7+	2000 03 04	703	0.2-	0.2+
1998 08 31	704	0.3-	0.3-	1998 11 14	699	0.1-	0.9+	2000 03 04	703	0.6-	0.7+
1998 10 10	699	0.1+	0.4-	1998 11 19	699	0.4+	0.2+	2000 03 04	703	1.9+	0.8+
1998 10 10	699	0.5+	0.5-	1998 11 19	699	0.3+	0.0	2000 03 08	704	0.2+	0.3+
1998 10 10	699	0.0	0.0	1998 11 19	699	0.3+	0.1+	2000 03 08	704	0.1-	0.0
1998 10 14	699	0.2-	0.0	1999 01 17	699	0.3-	1.2+	2000 03 08	704	0.2-	0.0
1998 10 14	699	0.1-	0.3+	1999 01 17	699	1.3-	0.8+	2000 03 08	704	0.2-	0.5-
1998 10 14	699	0.4+	0.3+	1999 01 17	699	0.9+	1.1+	2000 03 14	703	0.1+	0.7+
1998 10 20	699	0.5+	0.4+	2000 02 07	703	0.1-	0.1-	2000 03 14	703	0.9+	0.0
1998 10 20	699	0.2+	0.6+	2000 02 07	703	0.0	0.7-	2000 03 14	703	0.2-	0.0
1998 10 20	699	0.3+	0.8+	2000 02 07	703	0.3-	0.3-	2000 03 14	703	0.2+	0.0

1998 TM₃₀ = 2000 DT₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	127.49879		(2000.0)		P	Q	
n	0.23578315	ω	153.55117	+0.95817974		-0.28448373	
a	2.5949413	Ω	223.01452	+0.25384664		+0.89496085	
e	0.2169337	i	2.60399	+0.13211154		+0.34367731	
P	4.18	H	14.5	G	0.15	U	4

Residuals in seconds of arc

1998 10 10	699	0.8-	0.5-	1998 11 11	704	0.1+	0.1+	2000 02 29	704	1.1-	0.2+
1998 10 10	699	0.4+	0.9+	1998 11 11	704	0.3+	0.3+	2000 03 03	704	0.3+	0.7+
1998 10 10	699	0.3-	0.8+	1998 11 11	704	0.4-	0.9-	2000 03 03	704	0.0	1.0+
1998 10 19	699	0.8+	0.2+	1998 11 11	704	0.6+	0.6-	2000 03 03	704	0.1+	0.6+
1998 10 19	699	0.1+	0.2+	1998 11 11	704	0.3-	0.8-	2000 03 03	704	0.1+	0.6+
1998 10 19	699	0.7+	0.1+	1998 11 14	699	0.1-	0.7+	2000 03 03	704	0.0	1.1+
1998 11 10	704	0.0	0.2+	1998 11 14	699	0.1-	0.7+	2000 03 11	704	(1.0+	2.6-)
1998 11 10	704	0.3+	0.2-	1998 11 14	699	0.8-	0.6+	2000 03 11	704	0.3+	1.8-
1998 11 10	704	0.1-	0.2-	2000 02 29	704	(2.1-	1.6-)	2000 03 11	704	0.8+	1.1-
1998 11 10	704	0.7-	0.6-	2000 02 29	704	0.6-	0.2+	2000 03 11	704	1.1+	1.3-
1998 11 10	704	0.3+	0.8-	2000 02 29	704	0.7-	0.0				

1998 TO₃₀ = 2000 EB₅₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	89.33366		(2000.0)		P		Q
n	0.23090426	ω	222.35789	+0.34971945		-0.93636509	
a	2.6313670	Ω	207.21330	+0.87631654		+0.33837932	
e	0.1648566	i	3.79625	+0.33130895		+0.09338019	
P	4.27	H	14.8	G	0.15	U	4

Residuals in seconds of arc

1998 10 10	699	0.9+	0.6+	1998 11 10	704	0.7+	1.2-	2000 03 09	704	0.3+	0.3-
1998 10 10	699	0.2+	0.8-	1998 11 11	704	0.1+	0.3+	2000 03 09	704	0.5+	0.1-
1998 10 10	699	0.1+	0.2+	1998 11 11	704	0.3+	0.9-	2000 03 09	704	0.1-	0.5+
1998 10 19	699	1.3-	0.3-	1998 11 11	704	0.3+	0.3-	2000 03 09	704	0.1+	0.5-
1998 10 19	699	0.5-	0.1+	1998 11 11	704	0.2-	0.2-	2000 03 11	704	0.4-	0.9-
1998 10 19	699	0.1+	0.4+	1998 11 11	704	1.5-	0.4-	2000 03 11	704	0.5+	0.4+
1998 11 10	704	0.2-	0.2-	1998 11 14	699	0.6+	0.1+	2000 03 11	704	0.9-	0.3+
1998 11 10	704	0.0	0.6+	1998 11 14	699	0.0	1.1+	2000 03 11	704	0.1+	0.3+
1998 11 10	704	0.2-	0.1+	1998 11 14	699	0.7+	0.8+	2000 03 11	704	0.1-	0.4+

1998 TJ₃₁ = 2000 DT₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	122.50203		(2000.0)		P		Q
n	0.23247724	ω	349.03660		+0.96432346		-0.26111302
a	2.6194840	Ω	26.22515		+0.24973403		+0.84266112
e	0.1022205	i	5.66126		+0.08782476		+0.47089514
P	4.24	H	14.7	G	0.15	U	4

Residuals in seconds of arc

1998 09 18	699	0.7-	0.8-	1998 11 10	704	0.3-	0.1-	2000 02 06	703	0.3-	0.1+
1998 09 18	699	0.4+	0.7+	1998 11 10	699	0.3-	0.1-	2000 02 06	703	0.3-	0.4+
1998 09 18	699	0.3+	1.0+	1998 11 10	704	0.1-	0.6+	2000 02 06	703	0.3-	0.5-
1998 10 10	699	0.6+	0.5-	1998 11 10	699	1.0+	1.4+	2000 02 11	704	0.5+	0.1-
1998 10 10	699	0.0	0.5-	1998 11 10	699	0.3+	0.5+	2000 02 11	704	0.7+	0.7-
1998 10 10	699	0.3+	1.1-	1998 11 11	704	0.6+	0.1-	2000 02 11	704	0.1+	0.4-
1998 10 17	699	0.6+	0.3-	1998 11 11	704	0.5+	1.2+	2000 02 11	704	0.3-	0.1-
1998 10 17	699	0.2+	0.2-	1998 11 11	704	0.8-	0.8-	2000 02 11	704	0.1-	0.3-
1998 10 17	699	0.1-	0.5+	1998 11 11	704	0.6-	0.9-	2000 02 28	704	0.1+	0.6+
1998 10 28	704	1.4-	1.4-	1998 11 11	704	0.6+	0.4+	2000 02 28	704	0.6-	0.2-
1998 10 28	704	0.1-	0.7+	1998 11 23	699	0.6+	0.3+	2000 02 28	704	0.3+	0.3-
1998 10 28	704	1.1+	1.1-	1998 11 23	699	0.8-	0.2-	2000 02 28	704	0.6-	0.1+
1998 10 29	704	0.3-	0.3-	1998 11 23	699	0.7-	0.2-	2000 02 28	704	0.3-	0.2-
1998 10 29	704	0.1+	0.6+	2000 02 03	704	0.6+	0.0	2000 03 04	704	0.1+	0.2+
1998 10 29	704	0.2+	0.3+	2000 02 03	704	0.1+	0.2+	2000 03 04	704	1.0+	0.6+
1998 10 29	704	0.4+	0.3+	2000 02 03	704	0.0	0.6+	2000 03 04	704	0.2+	0.1+
1998 10 29	704	0.2+	0.2+	2000 02 03	704	0.7-	0.1+	2000 03 04	704	0.5+	0.4-
1998 11 10	704	1.4-	0.4+	2000 02 03	704	0.4-	0.1-	2000 03 04	704	0.1-	1.2-
1998 11 10	704	0.6-	0.7-	2000 02 06	703	0.2-	1.0+				

1998 TN₃₁ = 2000 CX₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	12.73713		(2000.0)		P		Q
n	0.24143105	ω	297.74437	-0.77134073		-0.63196386	
a	2.5543121	Ω	203.30824	+0.63005129		-0.74159162	
e	0.1059207	i	10.95603	+0.08982671		-0.22508564	
P	4.08	H	14.4	G	0.15	U	3

Residuals in seconds of arc

1998 10 11	699	0.7-	0.3-	1998 11 10	704	0.7+	1.0-	2000 03 03	703	0.3-	0.1+
1998 10 11	699	1.1+	0.8-	1999 12 14	704	0.2+	0.2-	2000 03 03	703	0.5-	0.1+
1998 10 11	699	0.7+	0.9-	1999 12 14	704	0.3-	0.0	2000 03 03	703	0.4-	0.2-
1998 10 17	699	0.3+	0.1-	1999 12 14	704	(0.9-	2.2-)	2000 03 08	704	0.3+	0.1-
1998 10 17	699	1.2+	1.0+	2000 02 07	703	0.1+	0.1-	2000 03 08	704	0.5+	0.0
1998 10 17	699	0.3+	0.8+	2000 02 07	703	0.5-	0.0	2000 03 08	704	0.1+	0.3-
1998 10 28	704	0.9+	1.4+	2000 02 07	703	0.4-	0.0	2000 03 08	704	0.7+	0.3+
1998 10 28	704	(3.4+	0.7+)	2000 02 07	703	0.1-	0.3-	2000 03 08	704	0.6+	0.3-

1998 10 28	704	0.9+	0.2-	2000 02 08	704	0.2+	0.1+	2000 03 13	704	0.0	0.2-
1998 10 28	704	0.8-	0.4-	2000 02 08	704	0.0	0.1-	2000 03 13	704	0.2+	0.3-
1998 10 28	704	0.2-	0.9-	2000 02 08	704	0.3+	0.2-	2000 03 13	704	0.1-	0.2+
1998 10 29	704	0.6-	0.8-	2000 02 08	704	0.5+	0.3-	2000 03 13	704	0.1-	0.9+
1998 10 29	704	0.5-	1.2+	2000 02 08	704	0.1+	0.3+	2000 03 13	704	0.3-	0.3-
1998 10 29	704	0.6-	0.6+	2000 02 13	704	0.3+	0.3-	2000 03 14	703	0.1-	0.2-
1998 10 29	704	0.6-	0.0	2000 02 13	704	0.2+	0.7+	2000 03 14	703	0.3+	0.3+
1998 11 10	704	(0.5-	2.2+)	2000 02 13	704	0.5-	0.1+	2000 03 14	703	0.9-	0.2-
1998 11 10	704	0.1+	0.6+	2000 02 13	704	0.2+	0.6+	2000 03 14	703	0.3-	0.0
1998 11 10	704	0.1+	0.2-	2000 03 03	703	0.1-	0.1-				

1998 TO₃₁ = 2000 DK₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	55.75344		(2000.0)	P	Q
n	0.17844736	ω	50.90444	+0.32045611	-0.94610162
a	3.1246110	Ω	20.55271	+0.82263415	+0.25340523
e	0.2020993	i	7.67720	+0.46966045	+0.20168666
P	5.52	H	14.4	G 0.15	U 4

Residuals in seconds of arc

1998 10 11	699	0.1-	0.3-	1998 10 29	704	0.6+	1.8+	2000 02 29	704	0.5-	0.3-
1998 10 11	699	0.8+	0.7-	1998 11 10	704	0.7-	0.6+	2000 03 04	704	0.3-	0.1-
1998 10 11	699	0.8-	0.8-	1998 11 10	704	(2.4-	2.2+)	2000 03 04	704	0.2+	0.3+
1998 10 17	699	0.8-	0.0	1998 11 10	704	1.1-	1.2-	2000 03 04	704	0.3+	0.6+
1998 10 17	699	0.1+	0.5+	1998 11 10	704	0.2+	0.5-	2000 03 04	704	0.0	0.5+
1998 10 17	699	0.4+	0.1+	2000 02 06	703	0.1+	0.3+	2000 03 04	704	1.0+	0.6+
1998 10 28	704	1.1-	0.5-	2000 02 06	703	0.2+	0.4-	2000 03 09	704	(2.2+	1.0-)
1998 10 28	704	1.6+	0.1-	2000 02 06	703	0.2+	0.2+	2000 03 09	704	0.1+	0.1-
1998 10 28	704	0.2-	1.2+	2000 02 06	703	0.3-	0.3+	2000 03 09	704	0.3+	0.5-
1998 10 28	704	0.6+	1.0-	2000 02 29	704	0.5+	1.3-	2000 03 09	704	0.3-	0.6-
1998 10 28	704	0.7+	0.1+	2000 02 29	704	0.2+	0.0	2000 03 09	704	0.0	0.4+
1998 10 29	704	0.7+	0.2+	2000 02 29	704	1.2-	0.2-				
1998 10 29	704	0.7-	0.3+	2000 02 29	704	0.4-	0.4+				

1998 TY₃₂ = 2000 EE₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	56.56624		(2000.0)	P	Q
n	0.21424761	ω	56.48442	-0.07435212	-0.99211018
a	2.7660417	Ω	38.17718	+0.85221381	-0.11577992
e	0.1210502	i	9.39910	+0.51788357	+0.04808754
P	4.60	H	13.9	G 0.15	U 3

Residuals in seconds of arc

1998 10 14	699	0.0	0.1+	1998 11 11	704	0.3-	0.2-	2000 03 05	704	0.2+	0.0
1998 10 14	699	0.2+	0.7-	1998 11 11	704	0.2-	0.8+	2000 03 05	704	0.3-	0.3+
1998 10 14	699	0.5-	1.0-	1998 11 14	699	0.0	0.2-	2000 03 05	704	0.1-	0.4+
1998 10 20	699	0.3-	0.4+	1998 11 14	699	0.0	0.2+	2000 03 05	704	0.1-	0.2+
1998 10 20	699	0.4+	0.3+	1998 11 14	699	1.4+	0.1+	2000 03 05	704	0.5-	0.9+
1998 10 20	699	0.4+	0.7+	2000 01 07	704	1.3-	0.6-	2000 03 09	704	0.1-	0.4-
1998 11 10	704	0.2-	0.6-	2000 01 07	704	0.8-	0.6-	2000 03 09	704	0.7+	0.0
1998 11 10	704	0.3+	0.2-	2000 01 07	704	0.5-	0.3-	2000 03 09	704	1.3+	0.2-
1998 11 10	704	0.8+	0.1+	2000 01 07	704	1.5+	0.8-	2000 03 09	704	0.9+	0.2+
1998 11 10	704	0.9-	0.0	2000 02 04	704	0.1+	0.0	2000 03 12	704	0.1+	0.1+
1998 11 10	704	0.0	0.6+	2000 02 04	704	0.2-	0.7+	2000 03 12	704	0.1+	0.4-
1998 11 11	704	0.9-	0.5+	2000 02 04	704	0.1+	0.4+	2000 03 12	704	0.1-	0.0
1998 11 11	704	0.3+	0.6+	2000 02 04	704	0.0	0.1-	2000 03 12	704	0.4-	0.2-
1998 11 11	704	0.6-	1.0-	2000 02 04	704	0.4-	0.2+	2000 03 12	704	0.5-	0.2-

1998 TA₃₃ = 2000 EC₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	88.23805		(2000.0)	P	Q
n	0.18183198	ω	233.30015	+0.80605029	-0.59181188
a	3.0857154	Ω	162.98252	+0.54979784	+0.74470230
e	0.1740920	i	1.26323	+0.21910106	+0.30850799
P	5.42	H	14.5	G 0.15	U 4

Residuals in seconds of arc

1998 09 22	910	0.1+	0.2-	1998 11 11	704	0.7+	0.6+	2000 03 03	691	0.6-	0.0
1998 09 22	910	0.3+	0.2-	1998 11 11	704	0.1+	0.1-	2000 03 03	704	0.1-	0.8-
1998 09 22	910	0.1+	0.0	2000 02 02	704	0.1+	0.3+	2000 03 03	691	0.7-	0.0
1998 10 14	699	0.6-	0.1-	2000 02 02	704	0.5-	0.4+	2000 03 04	704	0.1-	0.1+
1998 10 14	699	0.4+	0.3+	2000 02 02	704	0.2+	0.5-	2000 03 04	704	0.1+	0.8+
1998 10 14	699	0.6+	0.5+	2000 02 02	704	0.4-	0.7+	2000 03 04	704	1.2+	0.2+
1998 10 20	699	0.1+	1.1-	2000 02 02	704	0.3-	1.4+	2000 03 04	704	0.1-	0.2-
1998 10 20	699	0.2+	0.3+	2000 02 11	704	0.5+	0.5-	2000 03 04	704	0.1+	0.2+
1998 10 20	699	0.8-	0.8-	2000 02 11	704	1.0+	0.4+	2000 03 09	691	0.4-	0.3-
1998 11 10	704	1.0+	0.7+	2000 02 11	704	0.1-	0.3-	2000 03 09	691	0.0	0.3-
1998 11 10	704	0.3+	0.5-	2000 02 11	704	0.2+	1.0-	2000 03 09	691	0.2-	1.0-
1998 11 10	704	0.4-	1.1-	2000 03 03	704	0.9+	0.9+	2000 03 14	691	0.1-	0.0
1998 11 10	704	1.1-	1.1+	2000 03 03	691	0.6-	0.1-	2000 03 14	691	0.2+	0.1-
1998 11 11	704	0.0	0.3-	2000 03 03	704	0.0	0.1-	2000 03 14	691	0.3-	0.3-
1998 11 11	704	0.7-	0.6+	2000 03 03	704	0.1+	0.3-				

1998 TF₃₃ = 2000 EJ₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	16.38241		(2000.0)	P	Q
n	0.28369941	ω	330.16749	-0.94355782	-0.33061872
a	2.2938434	Ω	190.58223	+0.32116470	-0.89874931
e	0.0348268	i	6.17239	+0.08094361	-0.28799469
P	3.47	H	14.5	G 0.15	U 4

Residuals in seconds of arc

1998 10 14	699	0.1-	0.8-	1998 11 11	704	0.5-	0.9-	2000 03 09	704	0.6+	0.3+
1998 10 14	699	0.8+	0.1-	1998 11 11	704	1.1-	0.2-	2000 03 09	704	0.7+	0.1-
1998 10 14	699	0.4+	1.0+	1998 11 11	704	0.2+	0.3+	2000 03 10	704	0.5+	0.4+
1998 10 20	699	0.3-	0.4-	1998 11 15	566	0.4+	0.1+	2000 03 10	704	0.3-	0.4+
1998 10 20	699	0.5-	0.5+	1998 11 15	566	0.3+	0.1+	2000 03 10	704	0.0	0.2-
1998 10 20	699	0.6-	0.8+	1998 11 15	566	0.2+	0.5+	2000 03 10	704	0.1+	0.4-
1998 11 10	704	0.1-	0.6+	2000 03 03	703	0.7-	0.6+	2000 03 10	704	0.2+	0.4-
1998 11 10	704	0.7-	0.6-	2000 03 03	703	1.1-	0.5+	2000 03 11	704	0.1+	0.2-
1998 11 10	704	0.1-	0.6-	2000 03 03	703	0.6-	0.0	2000 03 11	704	0.1+	0.4-
1998 11 10	704	1.1+	0.5-	2000 03 03	703	0.1-	0.5+	2000 03 11	704	0.2-	0.2-
1998 11 10	704	0.6+	0.7+	2000 03 09	704	0.5+	0.4+	2000 03 11	704	0.2-	0.9-
1998 11 11	704	0.1+	0.4-	2000 03 09	704	0.4+	0.5+	2000 03 11	704	0.7-	0.7-
1998 11 11	704	0.1-	0.1+	2000 03 09	704	0.6+	0.1+				

1998 TS₃₃ = 2000 BG₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	62.07584		(2000.0)	P	Q		
n	0.17585323	ω	308.48725	+0.34054878	-0.93959186		
a	3.1552648	Ω	121.56900	+0.87477529	+0.30315818		
e	0.1392138	i	2.32400	+0.34466608	+0.15894103		
P	5.60	H	13.6	G	0.15	U	3

Residuals in seconds of arc

1998 10 14	699	1.0+	1.1-	2000 01 30	703	0.2-	0.4-	2000 02 29	704	0.6+	0.2+
1998 10 14	699	0.1-	1.0+	2000 01 30	703	0.8+	0.6-	2000 02 29	704	1.0+	0.3-
1998 10 14	699	0.9-	0.4+	2000 01 30	703	0.0	0.6+	2000 03 03	704	0.2+	0.5+
1998 10 20	699	0.2+	0.3+	2000 01 30	587	1.7-	0.8-	2000 03 03	704	0.3+	0.2+
1998 10 20	699	0.2-	0.3+	2000 01 30	587	1.5-	1.2-	2000 03 03	704	0.3-	0.1+
1998 10 20	699	0.9-	1.0+	2000 01 30	587	0.9-	0.2-	2000 03 03	704	0.3+	0.1+
1998 11 10	704	1.4+	0.1-	2000 02 03	587	0.1-	0.2-	2000 03 03	704	0.1-	0.2+
1998 11 10	704	0.6+	0.0	2000 02 03	587	0.2-	0.4-	2000 03 04	704	0.4-	0.4+
1998 11 10	704	0.8-	0.1+	2000 02 04	704	0.0	0.2+	2000 03 04	704	0.2-	0.0
1998 11 10	704	0.5-	0.4+	2000 02 04	704	0.5+	0.2+	2000 03 04	704	0.3+	0.3-
1998 11 11	704	0.3-	0.3-	2000 02 04	704	0.2-	0.4+	2000 03 04	704	0.0	0.5-
1998 11 11	704	0.1+	0.4+	2000 02 04	704	0.1+	0.7+	2000 03 04	704	0.2+	0.4-
1998 11 11	704	1.3+	0.9-	2000 02 04	704	0.2-	1.2+	2000 03 05	704	0.3-	0.4+
1998 11 11	704	1.0-	0.8-	2000 02 06	704	0.4+	0.4+	2000 03 05	704	0.4-	0.7+
2000 01 07	704	0.1-	1.8-	2000 02 06	704	0.6+	0.1-	2000 03 05	704	0.0	0.2+
2000 01 07	704	0.2+	0.3-	2000 02 06	704	0.8+	0.4+	2000 03 05	704	0.1+	0.7+

2000 MAR. 20

M.P.C. 39265

2000 01 07	704	0.3−	0.5−	2000 02 06	704	1.0−	0.4−	2000 03 05	704	0.1+	0.6+
2000 01 07	704	1.1+	0.1−	2000 02 06	704	0.6+	1.0−	2000 03 06	704	0.5+	0.2+
2000 01 07	704	0.2+	0.0	2000 02 11	704	0.4+	0.5+	2000 03 06	704	0.0	0.2+
2000 01 26	587	0.4−	0.5−	2000 02 11	704	0.2+	0.4+	2000 03 06	704	0.7+	0.6−
2000 01 26	587	0.7+	0.1−	2000 02 11	704	0.6+	0.7−	2000 03 06	704	0.5+	0.0
2000 01 26	587	1.4+	0.4+	2000 02 11	704	0.4+	0.5+	2000 03 06	704	0.7+	0.7−
2000 01 27	587	0.0	0.1−	2000 02 11	704	0.3+	0.4−	2000 03 11	704	0.3−	0.2+
2000 01 27	587	0.9−	0.2−	2000 02 27	703	0.1−	0.6+	2000 03 11	704	0.5−	0.2−
2000 01 30	704	0.7−	0.6+	2000 02 27	703	0.5−	0.5−	2000 03 11	704	0.4−	0.0
2000 01 30	704	0.9−	0.3+	2000 02 27	703	0.1−	0.2+	2000 03 11	704	0.1−	0.0
2000 01 30	704	0.5−	1.1+	2000 02 27	703	0.4+	0.4+	2000 03 11	704	1.1−	0.1−
2000 01 30	703	0.9−	0.3−	2000 02 29	704	0.2+	0.0				

1998 TO₃₄ = 2000 EV

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	67.71844		(2000.0)	P	Q		
<i>n</i>	0.24290113	ω	286.36810	−0.16573540	−0.98611621		
<i>a</i>	2.5439956	Ω	173.14691	+0.93460603	−0.16040212		
<i>e</i>	0.1469588	<i>i</i>	4.96400	+0.31471152	−0.04296498		
<i>P</i>	4.06	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 14	699	1.0−	0.5+	1998 11 10	704	1.0+	0.7+	2000 03 03	120	1.9−	0.8+
1998 10 14	699	0.3−	0.0	1998 11 10	704	0.0	0.4+	2000 03 03	120	0.4+	0.4+
1998 10 14	699	0.3−	0.5+	1998 11 11	704	0.5−	0.1−	2000 03 04	703	1.5−	0.3−
1998 10 20	699	0.3−	0.2−	1998 11 11	704	0.1+	0.3−	2000 03 04	703	0.5+	0.5−
1998 10 20	699	1.0−	0.8+	1998 11 11	704	0.1−	1.4−	2000 03 04	703	0.0	0.0
1998 10 20	699	0.6+	0.5+	1998 11 11	704	0.1−	1.1−	2000 03 04	703	0.3+	0.5+
1998 10 26	910	1.0+	0.8+	1998 11 11	704	1.6−	0.3−	2000 03 05	120	0.9+	0.5−
1998 10 26	910	0.6+	0.8+	1998 11 19	699	0.1+	0.4+	2000 03 05	120	0.4+	0.5−
1998 10 27	910	0.6+	1.2+	1998 11 19	699	0.2+	1.0−	2000 03 10	704	0.3+	0.4+
1998 11 10	704	1.4+	0.8−	1998 11 19	699	0.6−	0.0	2000 03 10	704	0.9+	0.4+
1998 11 10	704	0.1−	0.7−	2000 03 03	120	1.1−	0.2−	2000 03 10	704	1.1+	0.5+

1998 TA₃₅ = 2000 DZ₉₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	88.98149		(2000.0)	P	Q		
<i>n</i>	0.21787418	ω	7.73219	+0.57582485	−0.81586856		
<i>a</i>	2.7352616	Ω	47.12832	+0.74620279	+0.49809019		
<i>e</i>	0.0813203	<i>i</i>	4.12875	+0.33407655	+0.29370846		
<i>P</i>	4.52	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 14	699	0.2−	0.9+	2000 02 03	704	1.0+	0.1+	2000 02 29	704	1.2−	0.0
1998 10 14	699	0.3−	0.1+	2000 02 03	704	0.4+	0.7+	2000 02 29	704	0.7−	0.1−
1998 10 14	699	0.7+	0.2−	2000 02 03	704	0.2+	0.1−	2000 03 05	704	0.4+	0.3−
1998 10 20	699	1.1+	0.0	2000 02 11	704	0.2−	0.7−	2000 03 05	704	0.3−	0.4+
1998 10 20	699	0.5−	0.3−	2000 02 11	704	0.1−	0.1+	2000 03 05	704	0.3+	0.9−
1998 10 20	699	0.2−	0.7−	2000 02 11	704	0.9+	0.6+	2000 03 05	704	0.0	1.3−
1998 11 10	704	0.7+	1.1+	2000 02 11	704	0.5+	1.3+	2000 03 05	704	0.2+	0.2+
1998 11 10	704	0.7+	0.4−	2000 02 11	704	0.1−	0.5−	2000 03 09	704	0.1+	0.1+
1998 11 10	704	0.3+	0.5−	2000 02 25	703	0.7+	0.8+	2000 03 09	704	0.7+	0.6−
1998 11 11	704	0.4+	0.2−	2000 02 25	703	1.0−	0.4+	2000 03 09	704	0.4+	0.4+
1998 11 11	704	1.2−	1.2+	2000 02 25	703	0.1−	0.2+	2000 03 09	704	0.3+	0.5−
1998 11 11	704	1.1−	0.1−	2000 02 25	703	1.5−	0.8−	2000 03 12	704	0.3+	0.7−
1998 11 11	704	0.3−	1.1−	2000 02 29	704	0.6−	0.3+	2000 03 12	704	0.1−	0.2−
2000 02 03	704	0.5−	0.1+	2000 02 29	704	0.3−	0.0	2000 03 12	704	0.3+	0.2+
2000 02 03	704	0.2+	0.5+	2000 02 29	704	0.4−	0.3+	2000 03 12	704	0.1+	0.1−

1998 UP

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	145.31097		(2000.0)		P		Q		
<i>n</i>	0.27700561	ω	144.66522		+0.97196756		−0.22576485		
<i>a</i>	2.3306497	Ω	228.52093		+0.19048604		+0.91981811		
<i>e</i>	0.2064400	<i>i</i>	5.02674		+0.13781917		+0.32088141		
<i>P</i>	3.56	<i>H</i>	16.5		<i>G</i>	0.15	<i>U</i>		4

Residuals in seconds of arc

1998 09 26	704	(2.3+ 0.6+)	1998 10 19	910	0.6+	1.1+	1998 11 10	704	0.7+	0.1+
1998 09 26	704	(2.4+ 3.0−)	1998 10 20	910	0.3+	1.2+	1998 11 10	704	1.2+	0.1+
1998 09 26	704	0.4+ 1.0−	1998 10 20	910	0.1+	1.1+	1998 11 10	704	0.4−	0.1+
1998 09 27	704	0.4− 0.4−	1998 10 20	910	0.3+	1.0+	1998 11 10	704	0.5−	0.7−
1998 09 27	704	0.1− 0.2−	1998 10 20	910	0.3+	1.2+	1998 11 11	704	0.8−	1.0+
1998 09 27	704	1.2− 1.6+	1998 10 24	684	0.3−	0.4−	1998 11 11	704	0.2−	1.5−
1998 10 11	699	0.7+ 0.7−	1998 10 24	684	0.1−	0.3−	1998 11 11	704	0.2−	0.8−
1998 10 11	699	0.1− 0.4−	1998 10 28	704	0.9−	0.1+	1998 11 11	704	0.3−	0.4−
1998 10 11	699	0.2− 0.9−	1998 10 28	704	0.3+	1.0−	1998 12 09	684	1.3+	0.0
1998 10 14	910	1.4+ 0.1−	1998 10 28	704	0.5+	0.0	1998 12 09	684	1.7−	0.2−
1998 10 15	910	1.3+ 0.2−	1998 10 28	704	0.5−	1.2+	2000 03 10	684	(2.4− 0.7+)	
1998 10 15	910	1.3+ 0.1−	1998 10 28	704	(3.0− 1.5+)		2000 03 10	684	0.0	0.8−
1998 10 17	684	0.9− 0.7−	1998 10 29	704	0.4+	0.5−	2000 03 10	684	0.1−	0.8+
1998 10 17	684	0.9− 0.9−	1998 10 29	704	0.6−	0.2−	2000 03 11	684	0.0	0.8+
1998 10 18	684	1.1− 0.6+	1998 10 29	704	0.6+	0.1+	2000 03 11	684	0.2+	0.4−
1998 10 18	684	1.3− 0.6+	1998 10 29	704	0.5+	0.4−				
1998 10 19	910	0.1+ 0.8+	1998 10 29	704	(0.2+ 2.1−)					

1998 UA₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	117.05518		(2000.0)	P	Q		
<i>n</i>	0.28075866	ω	14.43091	+0.43613597	−0.89754364		
<i>a</i>	2.3098332	Ω	49.75523	+0.81697859	+0.36473235		
<i>e</i>	0.1727503	<i>i</i>	4.87106	+0.37726834	+0.24776144		
<i>P</i>	3.51	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1980 07 12	413	0.6−	0.6+	1998 10 30	727	0.1+	0.0	1998 11 16	566	0.6−	0.4−
1980 07 12	413	0.4+	0.5−	1998 11 10	704	0.3−	0.6−	1998 11 17	727	0.1−	0.1−
1991 10 17	675	1.6−	0.6+	1998 11 10	704	0.5+	0.1−	1998 11 17	727	0.1+	0.3−
1991 10 17	675	1.7+	0.3−	1998 11 10	704	0.2+	1.4−	1998 11 17	727	0.3−	0.3−
1998 08 28	704	0.0	0.9+	1998 11 10	704	0.6+	0.7−	1998 11 23	727	0.3−	0.4−
1998 08 28	704	1.4−	0.7+	1998 11 10	704	0.5+	1.1−	1998 11 23	727	0.2−	0.3−
1998 08 28	704	1.4+	0.5+	1998 11 11	727	0.1−	0.1+	1998 12 08	699	0.5−	0.1−
1998 08 28	704	0.4−	1.9−	1998 11 11	727	0.3−	0.3+	1998 12 08	699	0.4−	0.3−
1998 10 19	727	0.4−	0.3+	1998 11 11	727	0.1−	0.1+	1998 12 08	699	0.1+	0.0
1998 10 19	727	0.4+	1.1+	1998 11 11	704	0.3+	0.1−	1998 12 09	727	0.2−	0.0
1998 10 19	727	0.1+	0.8+	1998 11 11	704	0.6+	0.3+	1998 12 09	727	0.4−	0.1−
1998 10 20	727	0.2−	0.4+	1998 11 11	704	0.6+	0.1+	1998 12 09	727	0.2−	0.3+
1998 10 20	727	0.1+	0.1+	1998 11 11	704	0.8+	0.3−	1998 12 18	727	0.6−	0.2−
1998 10 20	727	0.0	0.1+	1998 11 11	704	0.9+	0.0	1998 12 18	727	0.4−	0.8+
1998 10 23	727	0.1−	0.1+	1998 11 12	727	0.1−	0.1−	1998 12 18	727	0.3+	0.3+
1998 10 23	727	0.1−	0.1+	1998 11 12	727	0.1−	0.0	1999 01 06	699	0.7−	1.1−
1998 10 23	727	0.1−	0.0	1998 11 12	727	0.1−	0.3+	1999 01 06	699	0.5−	0.3−
1998 10 27	727	0.2−	0.2+	1998 11 14	699	0.0	0.5+	1999 01 06	699	0.4−	0.2−
1998 10 27	727	0.1−	0.0	1998 11 14	699	0.8+	0.1+	1999 01 11	704	0.1−	1.7+
1998 10 27	727	0.1−	0.0	1998 11 14	699	0.8+	0.1+	1999 01 11	704	1.9+	0.8−
1998 10 30	727	0.1+	0.1+	1998 11 16	566	0.4−	0.3−	1999 01 11	704	0.1−	1.1+
1998 10 30	727	0.0	0.0	1998 11 16	566	0.5−	0.3−	1999 01 11	704	1.0−	1.0+

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	178.87947		(2000.0)		P		Q				
<i>n</i>	0.24336002	ω	299.22775		+0.97342840		-0.05496476				
<i>a</i>	2.5407966	Ω	64.70107		+0.15872059		+0.86169210				
<i>e</i>	0.2223124	<i>i</i>	14.23381		-0.16506039		+0.50444583				
<i>P</i>	4.05	<i>H</i>	13.7	<i>G</i>	0.15		<i>U</i>	3			
Residuals in seconds of arc											
1949 11 21	675	0.1+	0.5-	1998 12 11	888	0.3+	0.1-	1999 01 19	704	1.7+	0.3+
1949 11 21	675	0.4+	0.5-	1998 12 11	888	0.0	0.2-	1999 01 21	888	1.2-	0.4+
1998 10 18	888	0.2-	0.8+	1998 12 17	704	0.2-	0.1+	1999 01 21	888	1.1-	0.0
1998 10 18	888	0.2-	0.7+	1998 12 17	704	0.0	0.0	1999 02 06	888	0.6-	0.6+
1998 10 22	888	0.1+	0.2+	1998 12 17	704	1.4+	0.1-	1999 02 06	888	0.3-	0.0
1998 10 22	888	0.1+	0.6+	1998 12 17	704	1.3+	0.7+	1999 04 08	888	0.6-	0.4-
1998 10 22	888	0.6+	0.2+	1998 12 17	704	1.2+	0.3+	1999 04 08	888	0.3-	1.3+
1998 10 24	888	0.2+	0.1-	1998 12 25	888	0.0	0.1-	2000 03 01	888	0.2+	0.0
1998 10 24	888	0.1-	0.3+	1998 12 25	888	0.1-	0.1+	2000 03 01	888	0.2-	0.1+
1998 10 24	888	0.4-	0.3-	1998 12 29	886	0.1-	0.5-	2000 03 01	888	0.7-	0.4-
1998 10 31	888	0.1-	0.2+	1998 12 29	886	1.7-	1.9-	2000 03 01	888	0.4-	0.3-
1998 10 31	888	0.3-	0.3-	1998 12 29	886	0.8+	1.2-	2000 03 02	888	0.1+	0.4-
1998 10 31	888	0.0	0.1+	1999 01 11	888	0.3-	0.2-	2000 03 02	888	0.4-	0.0
1998 11 14	888	0.1-	0.1+	1999 01 11	888	0.1-	0.2+	2000 03 02	888	0.4+	0.5+
1998 11 14	888	0.3-	0.1-	1999 01 19	704	0.5-	0.7+	2000 03 15	699	0.9-	0.6-
1998 11 14	888	0.1-	0.3-	1999 01 19	704	0.4+	0.7+	2000 03 15	699	0.7+	0.1+
1998 11 25	888	0.2-	0.7-	1999 01 19	704	0.3-	0.3-	2000 03 15	699	0.2+	0.2-
1998 11 25	888	0.2+	0.5-	1999 01 19	704	0.1+	0.4+	2000 03 15	699	0.3+	0.0

1998 UJ₇ = 2000 CU₃₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	178.72296		(2000.0)	P			Q				
<i>n</i>	0.22309599	ω	227.82859	+0.82653806		+0.56202911					
<i>a</i>	2.6924121	Ω	97.95267	-0.50678168		+0.76696751					
<i>e</i>	0.0641520	<i>i</i>	1.79101	-0.24496359		+0.30965162					
<i>P</i>	4.42	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3				
Residuals in seconds of arc											
1996 03 17	566	0.0	0.0	1998 12 08	704	(4.5-	0.9-)	2000 02 08	704	0.3+	0.5+
1996 03 17	566	0.3-	0.1-	1998 12 08	699	0.0	1.1+	2000 02 08	704	0.2-	0.5+
1996 03 17	566	0.0	0.5-	1998 12 08	699	0.5-	0.8-	2000 02 10	704	0.0	0.0
1998 10 18	699	(3.2-	1.2-)	1998 12 08	699	0.3+	0.3+	2000 02 10	704	0.4+	0.1-
1998 10 18	699	0.1-	1.0-	1998 12 13	691	0.6-	0.2+	2000 02 10	704	0.2-	0.4-
1998 10 18	699	0.3+	0.4+	1998 12 13	691	0.8-	0.0	2000 02 11	704	0.1+	0.0
1998 10 21	120	0.6+	0.0	1998 12 13	691	1.0-	0.2+	2000 02 11	704	0.1+	0.4+
1998 10 22	120	0.9-	0.7-	1999 12 06	704	1.0+	0.3+	2000 02 11	704	0.2-	0.3+
1998 10 22	120	0.0	0.5-	1999 12 06	704	0.4+	0.2+	2000 02 11	704	0.4+	0.1-
1998 10 24	120	0.3-	0.7-	1999 12 06	704	0.7-	0.7+	2000 02 11	704	0.7-	0.1-
1998 10 24	120	0.5+	0.6-	1999 12 06	704	0.3-	0.0	2000 02 27	703	0.2+	0.2+
1998 11 10	704	0.7-	0.7+	2000 01 07	704	0.0	0.3+	2000 02 27	703	0.3-	0.3-
1998 11 10	704	0.3-	0.2+	2000 01 07	704	0.3-	1.0-	2000 02 27	703	0.3+	0.1+
1998 11 10	704	0.9-	0.4+	2000 01 07	704	0.3-	0.4-	2000 02 27	703	0.5+	0.7+
1998 11 10	704	0.5-	0.3+	2000 01 07	704	0.0	0.2-	2000 02 29	704	0.3+	0.0
1998 11 10	704	0.8+	0.1-	2000 01 07	704	0.4+	1.1-	2000 02 29	704	0.5+	0.0
1998 11 11	704	0.1+	0.4+	2000 02 03	704	0.3+	0.4+	2000 02 29	704	0.2-	0.2+
1998 11 11	704	0.7-	0.4+	2000 02 03	704	0.0	0.0	2000 02 29	704	0.1+	0.4+
1998 11 11	704	0.7+	0.5+	2000 02 03	704	0.4+	0.8-	2000 02 29	704	0.2-	0.2+
1998 11 11	704	0.2+	0.1+	2000 02 03	704	0.2-	0.6-	2000 03 03	704	0.1-	0.1-
1998 11 15	120	0.6+	0.3-	2000 02 05	704	0.0	0.2-	2000 03 03	704	0.5+	0.0
1998 11 15	120	0.2+	0.1+	2000 02 05	704	0.8-	0.1-	2000 03 03	704	0.0	0.4-
1998 11 24	699	0.2+	0.5+	2000 02 05	704	0.5-	0.3+	2000 03 03	704	0.0	0.4-
1998 11 24	699	0.3+	0.0	2000 02 05	704	0.4-	0.6+	2000 03 03	704	0.2+	0.5-
1998 11 24	699	1.0+	0.4+	2000 02 05	704	0.2+	0.8+	2000 03 05	704	0.6-	0.0
1998 12 08	704	1.9+	0.5-	2000 02 08	704	0.5-	0.2+	2000 03 05	704	0.2+	0.1-
1998 12 08	704	0.4-	1.2-	2000 02 08	704	0.0	0.2-	2000 03 05	704	0.4+	0.4+
1998 12 08	704	(2.3-	0.4+)	2000 02 08	704	0.3-	0.3-	2000 03 05	704	0.0	0.3-

1998 UK₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	104.14302		(2000.0)		P		Q				
<i>n</i>	0.23909412	ω	10.69655		+0.55407183		-0.80896997				
<i>a</i>	2.5709292	Ω	46.00504		+0.74220325		+0.37320322				
<i>e</i>	0.0869151	<i>i</i>	15.84295		+0.37701292		+0.45418822				
<i>P</i>	4.12	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2				
Residuals in seconds of arc											
1976 06 24	413	0.5-	0.1+	1998 10 24	120	0.3+	0.2-	1998 11 24	699	0.1-	0.1+
1976 06 24	413	1.7+	0.2+	1998 10 24	120	0.0	0.2-	1998 11 24	699	0.5+	0.7-
1977 09 11	413	1.3-	0.2+	1998 10 28	120	0.0	0.0	1999 01 08	699	1.3-	0.2+
1977 09 11	413	0.1+	0.7+	1998 10 28	120	0.0	0.2+	1999 01 08	699	1.4-	0.9+
1993 05 28	413	0.3-	0.2-	1998 11 10	704	0.1+	0.2+	1999 01 08	699	0.9-	0.8+
1993 05 28	413	(0.8-	2.3+)	1998 11 10	704	0.2-	0.2+	2000 02 03	704	0.1+	1.5-
1994 10 11	675	0.9-	0.6+	1998 11 10	704	0.1+	0.4+	2000 02 03	704	0.6-	0.4-
1994 10 11	675	0.0	0.8-	1998 11 10	704	0.3-	0.3+	2000 02 03	704	0.4+	0.2+
1996 03 16	675	0.9-	0.3+	1998 11 10	704	0.5+	0.4+	2000 02 03	704	1.7-	0.4+
1996 03 16	675	1.2+	0.2-	1998 11 11	704	0.4+	0.4+	2000 03 05	704	0.5-	0.0
1998 08 31	704	0.4+	0.6-	1998 11 11	704	0.5+	0.6+	2000 03 05	704	0.3-	0.2+
1998 08 31	704	1.4-	0.4-	1998 11 11	704	1.0+	0.0	2000 03 05	704	0.1+	0.2+
1998 08 31	704	0.6+	1.1-	1998 11 11	704	0.2+	0.8+	2000 03 05	704	0.2-	0.5+
1998 08 31	704	0.8+	0.3+	1998 11 11	699	0.5+	0.1+	2000 03 05	704	0.1+	0.6+
1998 10 18	699	0.2-	0.5-	1998 11 11	704	0.4+	0.7+	2000 03 15	704	0.5+	0.2+
1998 10 18	699	0.2-	0.5-	1998 11 11	699	0.4+	0.3+	2000 03 15	704	0.2+	0.2-
1998 10 18	699	0.0	0.5-	1998 11 11	699	0.7+	0.4+	2000 03 15	704	0.3+	0.3-
1998 10 22	120	0.1+	1.6-	1998 11 17	691	1.0-	0.2-	2000 03 15	704	0.2+	0.2+
1998 10 22	120	0.2+	0.7-	1998 11 17	691	0.9-	0.1+	2000 03 15	704	0.1+	0.0
1998 10 22	120	0.0	0.2+	1998 11 24	699	0.0	0.1+				

1998 UQ₇ = 2000 EZ₁₀₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	57.29639		(2000.0)			P		Q			
<i>n</i>	0.23593516	ω	67.28845			-0.32563343		-0.93218249			
<i>a</i>	2.5938266	Ω	42.76230			+0.75934193		-0.35747469			
<i>e</i>	0.1234925	<i>i</i>	13.46616			+0.56334954		-0.05698817			
<i>P</i>	4.18	<i>H</i>	14.8			<i>G</i>	0.15	<i>U</i>	4		
Residuals in seconds of arc											
1998 10 22	120	0.7-	0.1-	1998 11 10	704	0.3-	0.4+	1998 11 20	699	0.2-	0.2+
1998 10 22	120	0.0	0.3+	1998 11 10	704	0.1-	0.7-	1998 11 20	699	0.2-	0.8+
1998 10 22	120	0.0	0.2-	1998 11 10	704	0.5-	1.7-	2000 03 11	699	0.1+	0.0
1998 10 24	120	0.0	0.5+	1998 11 11	704	0.1-	1.2+	2000 03 11	699	0.3+	0.1+
1998 10 24	120	0.1-	0.1-	1998 11 11	704	0.7+	0.0	2000 03 11	699	0.3+	0.7+
1998 10 28	120	0.5+	0.5+	1998 11 11	704	1.1+	1.3-	2000 03 11	699	0.2-	0.1-
1998 10 28	120	0.6+	0.0	1998 11 11	704	0.1+	0.8-	2000 03 15	699	0.7-	0.1-
1998 10 29	120	0.5+	0.2-	1998 11 11	704	1.1-	0.0	2000 03 15	699	0.7-	0.0
1998 10 29	120	0.0	0.0	1998 11 15	120	(2.6+	0.5-)	2000 03 15	699	0.4+	0.0
1998 11 10	704	0.3-	0.0	1998 11 15	120	0.3+	0.5-	2000 03 15	699	0.4+	0.8-
1998 11 10	704	0.6-	1.1+	1998 11 20	699	0.5+	0.5+				

2000 MAR. 20

M.P.C. 39267

1998 10 17	327	0.0	0.4−	1998 10 29	704	0.1−	1.0+	2000 01 04	704	0.6−	0.3+
1998 10 18	327	0.2−	0.4+	1998 10 29	704	0.1−	0.5−	2000 01 04	704	0.2−	0.0
1998 10 18	327	0.4−	0.2−	1998 10 29	704	0.0	0.1−	2000 01 04	704	0.1+	0.2+
1998 10 18	327	0.2−	0.5−	1998 10 29	327	0.4−	0.2+	2000 01 08	704	0.4−	0.6+
1998 10 28	704	0.7+	0.0	1998 10 29	327	0.3−	0.4+	2000 01 08	704	0.6+	0.8−
1998 10 28	704	0.9−	1.4+	1998 10 29	327	0.8−	0.0	2000 01 08	704	0.4+	0.4−

1998 UA₁₅ = 2000 AH₂₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>				Williams			
51.62511				(2000.0)			
<i>n</i>				P			
0.26753073				Q			
<i>a</i>				−0.53985581			
2.3853582				−0.83745268			
<i>e</i>				+0.72668944			
0.0665222				−0.51465054			
<i>P</i>				+0.42482722			
3.68				−0.18386908			
<i>H</i>				<i>G</i>			
14.6				0.15			
				<i>U</i>			
				3			

Residuals in seconds of arc

1998 10 14	699	1.0+	0.2−	1998 11 07	046	0.2+	0.2+	1998 11 23	046	0.2−	0.1−
1998 10 14	699	0.6+	0.7+	1998 11 07	046	0.0	0.4+	1998 11 23	046	0.2+	0.1+
1998 10 14	699	0.3+	0.1+	1998 11 07	046	0.3+	0.2+	1998 12 09	046	0.2+	0.8−
1998 10 20	699	1.0+	0.2+	1998 11 10	704	0.6+	0.2+	1998 12 09	046	0.3−	0.5−
1998 10 20	699	0.3+	0.0	1998 11 10	704	1.6+	1.4+	1998 12 09	046	0.2−	0.5−
1998 10 20	699	0.6+	0.5−	1998 11 10	704	0.7−	0.2−	1998 12 10	046	0.3+	0.3−
1998 10 24	046	0.9−	0.0	1998 11 10	704	1.0+	0.1−	1998 12 10	046	0.2−	0.4−
1998 10 24	046	0.2−	1.2+	1998 11 11	704	0.1−	1.2+	1998 12 10	046	0.1+	0.2−
1998 10 24	046	0.3+	0.7+	1998 11 11	704	0.3+	0.9−	2000 01 12	327	1.2+	0.1−
1998 10 24	046	0.3−	0.4−	1998 11 11	704	0.8+	0.8−	2000 01 12	327	0.5−	0.6−
1998 10 25	046	0.2−	0.5+	1998 11 11	704	0.1−	0.5−	2000 01 12	327	0.1+	0.5−
1998 10 25	046	0.5−	0.1−	1998 11 11	704	0.2−	0.3−	2000 01 13	327	0.1−	0.8−
1998 10 25	046	0.3−	0.1−	1998 11 11	046	0.4−	0.1+	2000 01 13	327	0.2+	0.1+
1998 10 25	046	0.1−	0.1+	1998 11 11	046	0.9−	0.1−	2000 01 13	327	0.1−	0.5−
1998 10 25	046	0.5−	0.2−	1998 11 11	046	0.5−	0.2−	2000 03 07	046	0.8+	1.0+
1998 10 25	046	0.7−	0.4+	1998 11 12	046	0.7−	0.4−	2000 03 07	046	0.1−	0.5+
1998 10 25	046	0.3−	0.5+	1998 11 12	046	0.2−	0.3−	2000 03 07	046	0.6−	1.4+
1998 10 25	046	0.1−	0.6+	1998 11 12	046	0.8−	0.0				
1998 10 25	046	0.2−	0.2+	1998 11 23	046	0.1−	0.1−				

1998 UC₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>				Williams			
64.88379				(2000.0)			
<i>n</i>				P			
0.25266615				Q			
<i>a</i>				−0.43455125			
2.4780192				−0.89733921			
<i>e</i>				+0.84420074			
0.1043546				−0.43565770			
<i>P</i>				+0.31383169			
3.90				−0.07060257			
<i>H</i>				<i>G</i>			
15.1				0.15			
				<i>U</i>			
				4			

Residuals in seconds of arc

1998 10 22	557	0.4−	0.3−	1998 11 13	557	0.0	0.2−	1998 12 23	557	0.5−	0.2+
1998 10 22	557	0.3+	0.4−	1998 11 13	704	0.8−	0.9+	2000 02 28	557	0.2−	0.1−
1998 10 25	557	0.2+	0.8+	1998 11 13	704	(3.2+	1.0+)	2000 02 28	557	1.2+	0.2+
1998 10 25	557	0.1−	0.1−	1998 11 13	704	0.8+	0.9−	2000 03 07	557	0.2−	0.3+
1998 10 25	557	0.2+	0.1+	1998 11 13	704	(2.4−	0.5−)	2000 03 07	557	0.1+	0.4+
1998 10 30	557	0.5−	0.4−	1998 11 14	699	1.2+	0.4+	2000 03 10	691	0.0	0.3−
1998 10 30	557	0.1−	0.2−	1998 11 14	699	0.2+	0.3+	2000 03 10	691	0.1−	0.2−
1998 10 30	557	0.3+	0.1−	1998 11 14	699	0.6−	1.0+	2000 03 10	691	0.1−	0.3−
1998 11 12	557	0.7+	0.2−	1998 11 23	557	0.1−	0.1−	2000 03 11	691	0.2−	0.0
1998 11 12	557	0.6−	0.1−	1998 11 23	557	0.5+	0.5−	2000 03 11	691	0.1−	0.1+
1998 11 12	557	0.6−	0.2−	1998 12 23	557	0.4−	0.3−	2000 03 11	691	0.4−	0.1−

1998 UF₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>				Williams			
122.84045				(2000.0)			
<i>n</i>				P			
0.25888815				Q			
<i>a</i>				+0.66946333			
2.4381547				−0.73730560			
<i>e</i>				+0.64293339			
0.1260440				+0.37209610			
<i>P</i>				+0.22733670			
3.81							
<i>H</i>				<i>G</i>			
14.4				0.15			
				<i>U</i>			
				3			

Residuals in seconds of arc

1998 10 25	758	0.2+	0.3+	1998 11 08	758	0.1+	1.2+	1998 11 28	758	0.4+	0.5−
1998 10 25	758	0.2−	0.1+	1998 11 09	758	0.9+	0.0	1998 11 28	758	0.7−	0.4−
1998 10 25	758	0.1+	0.4+	1998 11 09	758	0.6+	0.5−	1998 12 05	758	1.7+	0.1−
1998 10 25	758	0.2−	0.9+	1998 11 09	758	0.2−	0.3+	1998 12 06	758	0.3−	0.1+
1998 10 26	758	0.1−	0.4−	1998 11 10	758	(0.1−	2.0+)	1998 12 06	758	0.1−	0.8+
1998 10 26	758	0.2+	0.2+	1998 11 10	758	0.2−	0.9+	1998 12 15	758	0.6−	1.2−
1998 10 26	758	1.0−	0.6−	1998 11 13	758	0.3+	0.1−	1998 12 15	758	1.2+	0.4−
1998 10 26	758	0.5+	0.3−	1998 11 13	758	1.1+	0.4−	1998 12 16	758	0.5−	1.2+
1998 10 27	758	0.6−	0.3+	1998 11 13	758	0.7+	0.4−	1998 12 16	699	0.4−	1.0+
1998 10 27	758	1.0−	0.8−	1998 11 14	704	0.8+	0.7−	1998 12 16	699	0.5+	0.1+
1998 10 27	758	0.2+	0.6+	1998 11 14	704	0.2+	0.7−	1998 12 16	699	(2.3+	0.4+)
1998 10 28	758	0.0	0.5+	1998 11 14	704	0.5−	0.2−	1999 01 07	758	0.3+	1.0+
1998 10 28	758	0.0	1.4+	1998 11 14	704	0.1+	0.0	1999 01 07	758	0.2−	0.2−
1998 10 28	758	0.4+	0.5+	1998 11 14	704	0.0	1.7+	1999 01 07	758	1.2−	1.2+
1998 10 28	758	1.2−	1.4+	1998 11 15	758	0.1−	0.7−	2000 03 02	474	0.1−	0.1−
1998 10 29	758	0.5+	0.7+	1998 11 15	758	0.1−	0.5−	2000 03 02	474	0.1−	0.9+
1998 10 29	758	0.0	0.6+	1998 11 15	758	0.2−	0.5−	2000 03 02	474	0.1−	0.3+
1998 10 29	758	0.5−	1.1+	1998 11 16	704	0.6+	0.0	2000 03 02	474	0.4+	1.0+
1998 10 30	758	0.3+	0.5−	1998 11 16	704	0.4+	0.9−	2000 03 03	703	0.5−	0.3+
1998 10 30	758	0.1+	0.6+	1998 11 16	704	0.8+	0.7−	2000 03 03	703	0.7−	0.1+
1998 10 30	758	0.5−	0.4−	1998 11 16	704	0.6+	0.7−	2000 03 03	703	0.4+	0.2−
1998 10 30	758	1.0+	0.3+	1998 11 16	566	1.4−	1.2−	2000 03 03	703	0.0	0.5+
1998 11 06	758	0.6−	0.0	1998 11 16	566	1.3−	1.6−	2000 03 03	474	0.5+	0.0
1998 11 06	758	0.1−	0.5−	1998 11 16	566	0.8−	1.6−	2000 03 03	474	0.5+	0.0
1998 11 06	758	0.2+	0.2+	1998 11 17	758	0.3−	0.4−	2000 03 03	474	0.5+	0.0
1998 11 06	758	1.6−	0.6+	1998 11 17	758	0.3−	0.4−	2000 03 04	474	0.2−	1.1−
1998 11 07	758	0.7+	0.4−	1998 11 17	758	0.1−	0.4−	2000 03 04	474	0.9−	0.8−
1998 11 07	758	0.9+	0.1+	1998 11 20	758	0.1−	0.6−	2000 03 04	474	0.3−	1.0−
1998 11 07	758	0.3−	0.2−	1998 11 20	758	0.1+	0.4−	2000 03 10	704	0.3+	0.3+
1998 11 07	758	(2.4+	0.4+)	1998 11 20	758	0.2+	0.1+	2000 03 10	704	0.3−	0.3−
1998 11 08	758	0.3+	0.2−	1998 11 25	758	0.1+	0.3+	2000 03 10	704	1.0+	0.4+
1998 11 08	758	0.2−	0.5+	1998 11 25	758	0.2+	0.4+	2000 03 10	704	0.2−	0.1+
1998 11 08	758	0.2−	0.1+	1998 11 25	758	0.1+	0.2+				

Residuals in seconds of arc

1998 10 18	699	0.1+	0.1+	1998 11 10	704	0.1+	0.4+	1998 11 24	699	0.0	0.4+
1998 10 18	699	0.2+	0.1+	1998 11 10	704	(0.4-	2.1+)	1998 11 24	699	0.7+	0.5+
1998 10 18	699	0.2-	0.5+	1998 11 11	704	0.9-	0.1+	2000 02 11	704	1.1+	0.6+
1998 10 24	120	0.9-	0.5-	1998 11 11	704	0.7+	0.0	2000 02 11	704	1.1+	0.2+
1998 10 24	120	0.1+	0.3-	1998 11 11	704	0.5-	0.0	2000 02 11	704	0.4-	0.1+
1998 10 26	120	0.1-	0.4-	1998 11 11	704	0.2-	0.1+	2000 02 11	704	0.1+	0.4+
1998 10 26	120	0.2+	0.0	1998 11 11	704	0.3+	0.9-	2000 03 04	688	1.5-	1.0+
1998 10 27	120	0.5+	0.0	1998 11 11	704	1.0-	1.4-	2000 03 04	688	0.4-	0.4-
1998 10 27	120	0.6-	0.3-	1998 11 11	704	0.6-	0.9-	2000 03 05	704	1.3+	0.5-
1998 10 28	120	0.4+	0.0	1998 11 11	704	0.3+	0.1-	2000 03 05	704	0.4-	0.2-
1998 10 29	120	0.1-	0.6+	1998 11 11	704	0.2+	0.6-	2000 03 05	704	0.0	0.5+
1998 10 29	120	0.1+	0.5+	1998 11 11	699	0.2-	0.1+	2000 03 09	704	0.1+	0.8-
1998 10 29	120	0.1-	0.7+	1998 11 11	704	0.2+	0.2-	2000 03 09	704	0.1-	0.2-
1998 10 29	120	0.2+	0.6+	1998 11 11	699	0.1-	0.0	2000 03 09	704	0.2-	0.1-
1998 11 10	704	0.6-	1.1+	1998 11 11	699	0.2+	0.4-	2000 03 09	704	(2.3-	0.3-)
1998 11 10	704	0.2+	0.1-	1998 11 24	699	1.4+	0.5+	2000 03 09	704	0.7-	0.5-

1998 UW₁₅ = 1998 QL₁₀₇Id. G. V. Williams (d, *MPC* 33385)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	178.33791		(2000.0)	P	Q
<i>n</i>	0.26651543	ω	297.79107	+0.94559333	+0.31133520
<i>a</i>	2.3914124	Ω	44.24970	-0.22990535	+0.84485032
<i>e</i>	0.1350336	<i>i</i>	7.78048	-0.23021028	+0.43508428
<i>P</i>	3.70	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1993 03 29	413	1.4-	0.0	1998 11 10	699	0.7+	0.9+	2000 02 04	704	0.5+	1.1-
1993 03 29	413	1.4+	0.3-	1998 11 10	699	0.6+	1.3+	2000 03 02	703	(2.1+	2.4+)
1995 12 01	675	0.1+	1.2+	1998 11 11	704	0.5-	0.3+	2000 03 02	703	0.9+	0.4-
1998 08 31	704	0.7-	0.4+	1998 11 11	704	0.3-	0.7-	2000 03 02	703	1.1-	0.8+
1998 08 31	704	0.2-	0.4-	1998 11 11	704	0.5+	0.8+	2000 03 02	703	1.5-	0.6-
1998 08 31	704	0.2+	1.4-	1998 11 11	704	1.0-	0.1-	2000 03 05	704	0.4-	0.0
1998 08 31	704	(1.9+	2.1-)	1998 11 11	704	0.3+	0.5-	2000 03 05	704	0.6-	0.3+
1998 10 18	699	0.5-	0.1+	1998 11 16	566	0.2+	0.8-	2000 03 05	704	0.3+	0.5+
1998 10 18	699	0.1+	0.1+	1998 11 16	566	0.6+	0.9-	2000 03 05	704	0.2-	0.5+
1998 10 18	699	0.4-	0.0	1998 11 16	566	0.3+	0.3-	2000 03 09	704	0.2+	0.3+
1998 10 24	120	0.1+	0.1-	1998 11 19	691	0.3+	0.4-	2000 03 09	704	0.2+	0.2+
1998 10 24	120	0.2+	0.3-	1998 11 19	691	0.3+	0.0	2000 03 09	704	0.1-	0.4+
1998 10 26	120	0.3+	0.4-	1998 11 19	691	0.6+	0.1+	2000 03 09	704	0.2-	0.2-
1998 10 26	120	(2.8+	0.8-)	1998 11 20	699	0.5+	0.1-	2000 03 09	704	0.2+	0.3-
1998 10 29	120	0.2+	0.2-	1998 11 20	699	0.0	0.1+	2000 03 12	704	0.4+	0.2+
1998 10 29	120	0.1-	0.1-	1998 11 20	699	0.3+	0.2-	2000 03 12	704	0.5+	0.3-
1998 11 10	704	0.6-	0.1-	1999 01 08	699	0.3-	0.4-	2000 03 12	704	0.5-	0.3+
1998 11 10	704	0.1-	0.1+	1999 01 08	699	0.5-	0.1+	2000 03 12	704	1.0+	0.5-
1998 11 10	704	1.1-	0.2-	1999 01 08	699	0.4+	0.4+	2000 03 12	704	1.0-	1.4-
1998 11 10	699	0.6+	1.2+	2000 02 04	704	(0.9+	2.6+)				
1998 11 10	704	1.1-	0.3+	2000 02 04	704	0.9+	0.1+				

1998 UK₁₆ = 2000 DH₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	133.00605		(2000.0)	P	Q
<i>n</i>	0.23029240	ω	240.06565	+0.96311476	-0.26737630
<i>a</i>	2.6360257	Ω	135.42309	+0.25937975	+0.89243462
<i>e</i>	0.1062955	<i>i</i>	2.47668	+0.07163875	+0.36341487
<i>P</i>	4.28	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	6

Residuals in seconds of arc

1998 10 22	120	0.5-	0.5-	1998 11 11	704	0.1+	0.1+	2000 03 03	704	0.0	0.5-
1998 10 22	120	1.0+	0.1-	1998 11 11	704	0.6-	0.2-	2000 03 03	704	0.7-	0.4-
1998 10 23	120	0.3-	0.1-	1998 11 11	704	0.5-	0.6+	2000 03 03	704	0.4-	0.7+
1998 10 23	120	0.1-	0.5+	1998 11 15	120	0.1+	0.3-	2000 03 04	704	0.0	0.2+
1998 10 23	120	0.2-	0.7+	1998 11 15	120	0.8+	0.9-	2000 03 04	704	0.1+	0.2+
1998 10 27	120	0.4+	1.4-	2000 02 29	704	0.3-	0.4+	2000 03 04	704	0.5+	0.2-
1998 10 27	120	0.6-	0.6+	2000 02 29	704	0.2+	1.2+	2000 03 04	704	0.3+	1.2+

1998 11 10	704	0.4+	0.1+	2000 02 29	704	0.8+	1.5-	2000 03 05	704	0.1+	0.8+
1998 11 10	704	0.9-	0.0	2000 02 29	704	1.2+	0.3+	2000 03 05	704	0.8-	0.1+
1998 11 10	704	0.9+	0.7-	2000 02 29	704	0.1-	0.1-	2000 03 05	704	0.6-	0.6-
1998 11 10	704	0.6+	0.8+	2000 03 03	704	0.3+	0.6-	2000 03 05	704	0.8-	0.3-
1998 11 11	704	0.6-	0.8+	2000 03 03	704	0.2+	0.8-				

1998 UO₁₆ = 2000 DO₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	105.51362		(2000.0)	P	Q
<i>n</i>	0.21407769	ω	262.45786	+0.74155305	-0.66904886
<i>a</i>	2.7675051	Ω	139.51655	+0.64178173	+0.68582612
<i>e</i>	0.1251136	<i>i</i>	4.39274	+0.19548730	+0.28638463
<i>P</i>	4.60	<i>H</i>	14.2	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 10 24	120	0.4+	0.3+	1998 11 18	704	0.7+	1.1+	2000 03 04	704	0.3-	0.6+
1998 10 24	120	(2.7-	0.6-)	1998 11 18	704	0.2-	0.2+	2000 03 04	704	0.8-	0.4+
1998 10 27	120	0.0	1.4-	1998 11 18	704	1.1-	0.7-	2000 03 04	704	0.2-	0.1-
1998 10 27	120	1.6-	0.3+	1998 11 18	704	(2.9+	0.2-)	2000 03 04	704	0.1-	0.8+
1998 10 28	120	0.3-	0.5-	2000 02 11	704	1.1+	1.0-	2000 03 04	704	0.1-	0.0
1998 10 28	120	0.3-	0.3-	2000 02 11	704	0.7+	1.4-	2000 03 05	704	0.8+	0.1-
1998 11 11	704	0.8+	0.6+	2000 02 11	704	0.0	0.2+	2000 03 05	704	0.3-	0.0
1998 11 11	704	(2.5+	0.4-)	2000 02 29	704	0.3-	0.1+	2000 03 05	704	0.2-	0.2+
1998 11 11	704	(3.0+	0.8+)	2000 02 29	704	0.0	0.3+	2000 03 05	704	0.2-	0.4+
1998 11 14	699	0.1-	1.0+	2000 02 29	704	0.3+	0.1+	2000 03 05	704	0.9+	0.5+
1998 11 14	699	0.2-	0.0	2000 02 29	704	0.2-	0.1-	2000 03 05	120	(3.9+	0.2+)
1998 11 14	699	0.2-	0.2+	2000 03 02	120	0.1+	0.0	2000 03 05	120	0.5+	0.3-
1998 11 15	120	0.5+	0.3-	2000 03 02	120	0.4-	0.8-	2000 03 06	120	1.6-	0.2-
1998 11 15	120	0.4+	0.2-	2000 03 02	120	0.8-	0.2-	2000 03 06	120	1.7-	0.4-
1998 11 15	120	0.5+	0.3-	2000 03 03	704	0.3-	0.2+	2000 03 11	699	0.4+	0.2+
1998 11 15	120	0.6+	0.1-	2000 03 03	704	0.3+	0.2+	2000 03 11	699	0.7+	0.2-
1998 11 16	566	(0.0	3.1-)	2000 03 03	704	0.0	0.1-	2000 03 11	699	0.6+	0.0
1998 11 16	566	(0.1+	2.9-)	2000 03 03	704	0.2+	0.3+	2000 03 11	699	0.9+	0.1+
1998 11 16	566	(0.2-	3.8-)	2000 03 03	704	0.1+	0.1-				

1998 US₁₆ = 1977 QU₁ = 2000 EY₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	207.45653		(2000.0)	P	Q
<i>n</i>	0.28641639	ω	190.30894	+0.70611232	+0.70202911
<i>a</i>	2.2793139	Ω	124.68620	-0.64139650	+0.68947590
<i>e</i>	0.1869340	<i>i</i>	6.46060	-0.30002654	+0.17826414
<i>P</i>	3.44	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1977 08 19	095	0.3-	0.9+	1998 10 29	699	0.2-	0.5+	2000 02 01	703	0.5+	0.1-
1998 08 31	704	0.8+	0.9-	1998 10 29	699	0.1-	0.5+	2000 02 25	703	0.3-	0.5+
1998 08 31	704	0.3-	0.8+	1998 10 29	699	0.1+	1.3+	2000 02 25	703	0.6-	0.1+
1998 08 31	704	0.7-	1.1+	1998 11 10	428	0.9-	0.0	2000 02 25	703	0.2-	0.0
1998 08 31	704	1.4-	0.8-	1998 11 10	428	0.4-	0.3-	2000 02 25	703	0.3-	0.3-
1998 08 31	704	0.2+	0.4-	1998 11 13	704	0.3+	0.4+	2000 03 05	704	0.6-	0.3-
1998 10 18	809	0.4+	0.4+	1998 11 13	704	0.9-	1.6-	2000 03 05	704	0.5-	0.1+
1998 10 18	809	0.9+	0.1-	1998 11 13	704	0.8-	0.1+	2000 03 05	704	0.5+	0.4-
1998 10 18	809	0.4-	0.2-	1998 11 13	704	0.5-	1.3-	2000 03 05	704	0.2-	0.4+
1998 10 19	809	1.8+	0.5+	1998 11 13	704	0.0	1.0-	2000 03 05	704	0.2+	0.4+
1998 10 19	809	0.4+	0.4+	1998 11 14	699	0.5-	0.1+	2000 03 11	699	0.4-	0.4+
1998 10 19	809	1.4+	1.8+	1998 11 14	699	0.2-	0.9+	2000 03 11	699	0.4+	0.2+
1998 10 22	428	0.9-	0.1+	1998 11 14	699	0.2-	0.1+	2000 03 11	699	0.0	0.2-
1998 10 22	428	0.2+	0.0	1998 11 26	428	0.8-	0.0	2000 03 11	699	0.1+	0.7-
1998 10 22	428	1.8+	1.0-	1998 11 26	428	1.2-	0.4+	2000 03 12	704	0.0	0.1+
1998 10 27	428	0.7+	0.9+	1998 12 07	428	0.7+	0.7-	2000 03 12	704	0.8+	0.4+
1998 10 27	428	0.3+	0.3-	1998 12 07	428	0.3+	0.8-	2000 03 12	704	0.3-	0.6-
1998 10 27	428	0.6+	0.3+	1998 12 22	428	0.1-	0.5-	2000 03 12	704	1.0+	0.8+
1998 10 28	428	0.0	0.8-	2000 02 01	703	0.5-	0.2+	2000 03 12	704	0.7+	0.1+
1998 10 28	428	0.7-	0.1-	2000 02 01	703	0.0	0.8+				
1998 10 28	428	0.4+	0.1+	2000 02 01	703	0.3+	0.0				

2000 MAR. 20

M.P.C. 39269

1998 UD₁₇ = 2000 AM₈₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	20.74178		(2000.0)	P		Q	
<i>n</i>	0.18353688	ω	194.05699	−0.18273801	−0.97265296		
<i>a</i>	3.0665767	Ω	266.61880	+0.91534045	−0.11509355		
<i>e</i>	0.0477639	<i>i</i>	8.25699	+0.35882960	−0.20174167		
<i>P</i>	5.37	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 12	699	0.7−	0.5+	1999 12 14	704	0.0	0.4−	2000 02 02	704	0.5−	0.6−
1998 10 12	699	0.0	0.1−	1999 12 14	704	0.7+	0.6−	2000 02 02	704	0.8+	0.6+
1998 10 12	699	0.3−	0.5−	1999 12 14	704	0.4−	0.5−	2000 02 02	704	0.2+	0.8−
1998 10 17	327	0.3+	0.2+	2000 01 05	704	0.3−	0.4+	2000 02 02	704	0.6−	0.6−
1998 10 17	327	0.3+	0.3−	2000 01 05	704	0.2−	0.3+	2000 02 02	704	0.2+	0.6−
1998 10 17	327	0.1−	0.0	2000 01 05	704	0.3−	0.6+	2000 02 03	704	0.6−	0.7+
1998 10 19	327	0.2−	0.3+	2000 01 05	704	0.2−	0.1+	2000 02 03	704	0.1+	0.3+
1998 10 19	327	0.0	0.3−	2000 01 05	704	0.8+	0.3+	2000 02 03	704	0.4+	1.1−
1998 10 19	327	0.6+	0.1+	2000 01 06	704	0.5−	0.5+	2000 02 03	704	0.4+	0.5−
1999 12 14	704	0.5+	0.4−	2000 01 06	704	0.5−	0.8+				
1999 12 14	704	0.2+	0.2−	2000 01 06	704	0.1−	1.6+				

1998 UT₁₇ = 2000 EX₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	170.32384		(2000.0)	P		Q	
<i>n</i>	0.27502961	ω	3.83571	+0.91661476	+0.39955245		
<i>a</i>	2.3417997	Ω	332.60221	−0.36754453	+0.82923615		
<i>e</i>	0.2262361	<i>i</i>	1.64839	−0.15725266	+0.39080078		
<i>P</i>	3.58	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 10 11	699	0.1+	0.8+	1998 10 28	704	0.3−	0.0	1998 10 29	327	0.0	0.2−
1998 10 11	699	0.5−	0.1−	1998 10 28	704	0.1−	0.4+	1998 11 14	327	0.0	0.5+
1998 10 11	699	0.7−	0.3+	1998 10 28	704	0.2+	0.3+	1998 11 14	327	0.2−	0.1−
1998 10 18	327	0.8+	0.2−	1998 10 29	704	0.1−	1.3−	1998 11 14	327	0.1+	0.4+
1998 10 18	327	0.1−	0.3+	1998 10 29	704	1.0−	0.2+	2000 03 09	691	0.0	0.0
1998 10 18	327	0.2+	0.0	1998 10 29	704	0.2−	0.1−	2000 03 09	691	0.4−	0.1+
1998 10 20	327	0.5+	0.4+	1998 10 29	704	0.3+	0.7−	2000 03 09	691	0.0	0.0
1998 10 20	327	0.0	0.3−	1998 10 29	704	0.0	0.2−	2000 03 10	691	0.1+	0.0
1998 10 20	327	0.1+	0.1−	1998 10 29	327	0.1−	0.1+	2000 03 10	691	0.1+	0.3−
1998 10 28	704	1.0+	0.5−	1998 10 29	327	0.0	0.1+	2000 03 10	691	0.1+	0.3+

1998 UN₁₈ = 1991 PJ₂₅

Id. A. Gnädig, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	72.67836		(2000.0)	P		Q	
<i>n</i>	0.17423301	ω	309.61822	+0.06359496	−0.94071375		
<i>a</i>	3.1747955	Ω	133.16402	+0.99678983	+0.04360320		
<i>e</i>	0.1548751	<i>i</i>	27.18058	+0.04863867	+0.33638727		
<i>P</i>	5.66	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 12 03	413	1.6−	0.7+	1998 11 17	703	0.3−	0.3+	2000 01 07	704	0.0	0.0
1981 12 03	413	1.5+	0.3−	1998 11 17	703	0.4−	0.1−	2000 01 07	704	0.2+	0.4+
1985 08 16	413	0.5+	1.0+	1998 12 19	704	1.0−	0.7−	2000 01 07	704	0.3+	1.7+
1985 08 16	413	(2.9+	3.4+)	1998 12 19	704	(2.4+	1.7−)	2000 01 07	704	0.6−	0.0
1990 06 18	675	1.3+	1.1+	1998 12 19	704	0.8−	1.0+	2000 02 03	704	0.4+	0.2−
1990 06 18	675	0.8−	0.8−	1998 12 19	704	0.3−	0.0	2000 02 03	704	0.3+	0.0
1991 08 03	809	0.4−	0.2+	1998 12 19	704	0.1−	0.0	2000 02 03	704	0.4+	0.4−
1991 08 03	809	0.8−	0.7+	1998 12 20	703	0.8−	0.3−	2000 02 03	704	1.2+	0.8−
1991 08 03	809	0.8+	1.8+	1998 12 20	703	0.1−	0.1+	2000 02 03	704	0.7−	0.3−
1998 10 28	703	0.7+	0.4+	1998 12 20	703	1.1+	0.5−	2000 03 04	704	0.9−	0.1+
1998 10 28	703	0.7+	0.7+	1999 01 14	699	0.1−	0.2+	2000 03 04	704	0.9−	0.1−
1998 10 28	703	0.0	0.5+	1999 01 14	699	0.5+	0.3+	2000 03 04	704	0.7−	0.1−
1998 10 29	703	(2.5+	1.1+)	1999 01 14	699	0.2+	0.4−	2000 03 04	704	1.0−	0.1+

1998 10 29	703	(1.5+	2.3+)	1999 03 10	704	0.1+	1.1−	2000 03 15	704	0.9+	0.2−
1998 11 16	703	0.4+	0.9+	1999 03 10	704	0.5−	0.4+	2000 03 15	704	0.7+	0.9+
1998 11 16	703	(2.3−	0.0)	1999 03 10	704	(0.8+	2.5−)	2000 03 15	704	(0.2−	2.2+)
1998 11 16	703	0.4+	0.3+	1999 03 10	704	(2.2+	1.0−)	2000 03 15	704	0.3+	1.6+
1998 11 17	703	0.4−	0.2+	2000 01 07	704	0.1+	0.2+	2000 03 15	704	0.6+	0.9+

1998 UQ₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	273.19269		(2000.0)	P		Q	
<i>n</i>	0.18976428	ω	186.20990	−0.48093269	+0.86231421		
<i>a</i>	2.9991147	Ω	55.15291	−0.79587155	−0.35353711		
<i>e</i>	0.0562661	<i>i</i>	11.13469	−0.36782092	−0.36252686		
<i>P</i>	5.19	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 10 19	675	0.2−	1.4+	1998 11 24	704	0.4+	1.4−	1999 12 15	704	0.1−	0.7−
1993 10 19	675	0.0	0.3−	1998 11 24	704	0.4+	1.4−	1999 12 15	704	0.2−	1.1−
1995 03 26	675	1.5−	0.0	1998 11 24	704	0.1+	1.0−	1999 12 15	704	0.1+	0.9−
1995 03 26	675	0.8+	0.2+	1998 12 14	704	0.5+	0.3−	1999 12 15	704	0.1+	0.2−
1995 03 29	675	0.5−	0.0	1998 12 14	704	0.6−	0.4−	2000 01 03	704	0.1−	0.1−
1995 03 29	675	1.2+	0.1−	1998 12 14	704	1.0+	0.5−	2000 01 03	704	1.2+	0.1−
1998 08 31	704	(2.5−	1.9+)	1998 12 14	704	0.1−	0.3−	2000 01 03	704	0.4+	0.6+
1998 08 31	704	(1.5−	2.2+)	1998 12 14	704	0.2−	0.2+	2000 01 03	704	0.9+	0.3+
1998 08 31	704	(1.5+	2.3−)	1998 12 17	704	0.5−	0.2+	2000 01 03	704	0.0	0.7+
1998 08 31	704	2.0−	0.1+	1998 12 17	704	1.0+	0.6+	2000 03 11	703	0.9−	0.1+
1998 10 25	411	0.3−	0.5+	1998 12 17	704	1.5+	0.4+	2000 03 11	703	0.1−	0.2−
1998 10 25	411	0.4+	0.8+	1998 12 17	704	0.4+	0.2−	2000 03 11	703	0.2−	0.2−
1998 10 29	411	0.7−	0.7+	1998 12 17	704	0.1+	0.2−	2000 03 11	703	0.3+	0.0
1998 10 29	411	0.3−	1.2+	1999 01 06	699	0.6−	1.2−	2000 03 12	704	0.0	0.3−
1998 11 07	411	0.3−	0.2+	1999 01 06	699	0.4−	0.4+	2000 03 12	704	0.2−	0.0
1998 11 07	411	0.5−	0.7+	1999 01 06	699	0.2+	0.2−	2000 03 12	704	0.4−	0.2−
1998 11 23	411	0.1−	0.3−	1999 11 16	703	0.4−	0.7+	2000 03 12	704	0.2−	0.2+
1998 11 23	411	0.6−	0.7+	1999 11 16	703	0.2+	0.2+	2000 03 12	704	0.5−	0.4+
1998 11 24	704	0.7+	0.2+	1999 11 16	703	0.3−	0.3+				
1998 11 24	704	0.3+	0.7−	1999 11 16	703	0.9+	1.1+				

1998 UB₂₀ = 2000 DU₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	131.56152		(2000.0)	P		Q	
<i>n</i>	0.22984344	ω	279.22453	+0.96277427	−0.27003283		
<i>a</i>	2.6394573	Ω	96.44240	+0.25256015	+0.88261619		
<i>e</i>	0.0991311	<i>i</i>	0.70142	+0.09632794	+0.38479986		
<i>P</i>	4.29	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 24	910	0.4−	0.8+	1998 11 11	120	0.4+	0.3−	2000 02 25	703	0.3+	1.1−
1998 08 24	910	0.2−	0.9+	1998 11 11	120	1.3+	0.2−	2000 02 25	703	0.4−	0.7+
1998 08 24	910	0.5−	0.8+	1998 11 14	699	0.5+	0.2+	2000 02 29	704	0.2−	0.5−
1998 10 22	327	0.5−	0.1+	1998 11 14	699	0.8−	1.1+	2000 02 29	704	0.3+	0.1+
1998 10 22	327	1.3−	0.3−	1998 11 14	699	0.8+	0.1+	2000 02 29	704	0.2+	0.9−
1998 10 22	327	0.7−	0.4−	1998 11 15	691	0.2−	0.1+	2000 02 29	704	0.6−	0.6−
1998 10 28	120	0.4+	0.1−	1998 11 15	691	0.2−	0.1−	2000 02 29	704	0.1−	0.5−
1998 10 28	120	0.6+	0.1−	1998 11 15	691	0.2−	0.2−	2000 03 03	704	0.2−	0.2+
1998 10 29	120	0.1+	0.7+	1998 11 19	691	0.8−	0.3−	2000 03 03	704	0.7−	0.6+
1998 10 29	120	0.6+	0.6+	1998 11 19	691	1.2−	0.1−	2000 03 03	704	0.2+	0.2+
1998 11 10	704	0.0	0.3−	1998 11 19	691	0.9−	0.1−	2000 03 03	704	0.8−	0.7+
1998 11 10	704	0.4+	0.2−	1998 11 25	691	0.5−	0.1−	2000 03 03	704	0.5−	1.4+
1998 11 10	704	0.6+	0.1+	1998 11 25	691	0.2−	0.2−	2000 03 11	704	0.3+	0.1−
1998 11 10	704	1.1−	0.3+	1998 11 25	691	0.2−	0.1−	2000 03 11	704	0.5+	0.2−
1998 11 11	704	0.9+	0.0	2000 02 11	704	0.3+	0.2+	2000 03 11	704	0.2+	0.9+
1998 11 11	704	0.5−	1.6−	2000 02 11	704	0.9+	0.4−	2000 03 11	704	0.8+	0.5+
1998 11 11	704	0.8+	0.0	2000 02 11	704	0.3+	1.3−	2000 03 11	704	1.2+	0.3+
1998 11 11	704	1.4+	0.4−	2000 02 25	703	0.5−	0.6+				
1998 11 11	704	0.8+	0.4+	2000 02 25	703	0.9−	0.1+				

1998 US₂₀ = 2000 EO₆₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	106.25286		(2000.0)	P		Q		Williams	
<i>n</i>	0.25460614	ω	234.56676	+0.44975347		-0.89314082			
<i>a</i>	2.4654156	Ω	188.70905	+0.82901257		+0.41937229			
<i>e</i>	0.0488720	<i>i</i>	1.74647	+0.33235520		+0.16256188			
<i>P</i>	3.87	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1998 10 29	120	0.6-	0.3-	1998 12 08	704	0.6-	0.7-	2000 03 10	704	0.2+	0.4-
1998 10 29	120	0.4+	0.2-	1998 12 08	704	0.2-	1.6-	2000 03 11	704	0.3-	0.2+
1998 10 30	120	(0.1-	3.7+)	1998 12 08	704	0.2+	0.1-	2000 03 11	704	0.1-	0.2-
1998 10 30	120	0.2+	1.4+	1998 12 08	704	(5.4-	0.5-)	2000 03 11	704	0.3-	0.3+
1998 11 11	699	0.0	0.1-	1998 12 09	120	0.1-	0.5+	2000 03 11	704	0.0	0.4+
1998 11 11	699	0.3-	0.2+	1998 12 09	120	1.1-	0.6+	2000 03 11	704	0.2+	0.7+
1998 11 11	699	0.1+	0.0	2000 03 10	704	0.1+	0.1+	2000 03 14	703	0.1-	0.2-
1998 12 07	120	0.3-	0.6-	2000 03 10	704	0.3-	0.0	2000 03 14	703	0.6+	0.5+
1998 12 07	120	1.6+	0.5+	2000 03 10	704	0.0	0.2-	2000 03 14	703	0.2-	0.3-
1998 12 07	120	0.7+	0.2+	2000 03 10	704	0.4-	0.2-	2000 03 14	703	0.7+	0.3-

1998 UM₂₁ = 1990 VT₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	117.17087		(2000.0)	P		Q		Williams	
<i>n</i>	0.23923457	ω	168.10009	+0.92255479		-0.36267352			
<i>a</i>	2.5699229	Ω	214.11186	+0.33195305		+0.92003867			
<i>e</i>	0.1900488	<i>i</i>	13.58838	+0.19672274		+0.14831305			
<i>P</i>	4.12	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1990 11 15	809	0.7+	0.2+	1990 11 21	809	(2.4+	0.0)	1998 10 29	704	1.3+	1.0+
1990 11 15	809	0.8+	0.9-	1990 11 21	809	2.0+	0.4+	1998 10 29	704	1.6-	0.4-
1990 11 15	809	0.4+	1.1-	1990 11 21	809	1.1+	1.2+	1998 10 29	704	0.2-	1.0+
1990 11 15	809	0.1-	0.8+	1990 11 23	809	1.1-	0.9-	1998 10 29	704	0.2-	0.1+
1990 11 15	809	(4.9-	2.0-)	1990 11 23	809	1.4-	0.7-	1998 11 10	699	1.5+	0.3-
1990 11 17	809	(2.2+	0.4-)	1990 11 23	809	(2.2-	0.9-)	1998 11 10	699	(2.4+	0.4-)
1990 11 17	809	(2.8+	1.2+)	1998 10 28	704	(4.5+	2.4-)	1998 11 10	699	1.2+	1.0-
1990 11 17	809	1.5+	0.5-	1998 10 28	704	(5.4+	1.8-)	1998 11 16	566	0.8-	0.0
1990 11 17	809	1.7-	0.6+	1998 10 28	704	(5.3+	2.3-)	1998 11 16	566	0.7-	0.0
1990 11 17	809	0.6-	0.1+	1998 10 28	704	(5.0+	2.4-)	1998 11 16	566	0.7-	0.1+
1990 11 17	809	1.6-	0.9+	1998 10 29	704	0.1+	0.6-				

1998 UE₂₃ = 1985 SP₄ = 2000 EK₆₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	179.99763		(2000.0)	P		Q		Williams	
<i>n</i>	0.30797673	ω	12.74609	+0.99905680		-0.04034976			
<i>a</i>	2.1716548	Ω	349.52673	+0.02786252		+0.87908290			
<i>e</i>	0.1683654	<i>i</i>	5.06359	+0.03330449		+0.47495806			
<i>P</i>	3.20	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1985 09 20	095	1.0-	1.8+	1998 11 01	699	0.8+	0.1-	1999 01 15	699	0.4+	0.8+
1998 08 31	704	0.6+	2.0-	1998 11 14	704	0.4+	0.8-	2000 03 10	704	0.1+	0.6+
1998 08 31	704	1.6-	1.9+	1998 11 14	704	0.6-	0.2+	2000 03 10	704	0.9+	0.3+
1998 08 31	704	0.8+	0.9+	1998 11 14	704	0.9-	0.8-	2000 03 10	704	0.3+	0.5-
1998 08 31	704	0.9+	0.1+	1998 11 14	704	0.3+	0.2-	2000 03 10	704	0.1-	0.5+
1998 08 31	704	0.4-	0.5-	1998 11 14	704	0.3-	0.3+	2000 03 10	704	0.2-	0.1+
1998 10 25	098	0.5+	0.3+	1999 01 08	704	0.1-	0.2+	2000 03 11	704	0.2-	0.6+
1998 10 25	098	0.0	0.3-	1999 01 08	704	1.0+	0.2+	2000 03 11	704	0.1+	0.1+
1998 10 31	112	0.3-	0.2-	1999 01 08	704	1.3-	0.3+	2000 03 11	704	0.0	0.2+
1998 10 31	112	0.3-	1.1-	1999 01 08	704	0.7+	0.5+	2000 03 11	704	0.1+	0.0
1998 11 01	699	0.2-	0.1+	1999 01 15	699	0.6-	0.6+				
1998 11 01	699	0.4+	0.8+	1999 01 15	699	0.0	0.4-				

1998 UM₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	115.99896		(2000.0)	P		Q		Williams	
<i>n</i>	0.26594895	ω	200.20070	+0.37977783		-0.92178270			
<i>a</i>	2.3948071	Ω	227.56776	+0.86259900		+0.38333166			
<i>e</i>	0.0865503	<i>i</i>	6.06709	+0.33420317		+0.05808182			
<i>P</i>	3.71	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1986 09 21	413	1.4+	0.7+	1998 11 10	704	(4.6-	1.1-)	1998 12 08	691	0.5-	0.3+
1986 09 21	413	0.8-	0.9+	1998 11 18	704	0.1-	0.2-	1998 12 08	699	0.2+	0.3-
1990 08 20	675	1.1-	0.8+	1998 11 18	704	0.5-	0.0	1998 12 08	699	0.4+	0.0
1998 08 31	704	0.7+	1.3+	1998 11 18	704	0.8-	1.3+	1998 12 08	699	0.3+	0.2+
1998 08 31	704	1.5+	0.2+	1998 11 18	704	(2.2-	1.5+)	1998 12 12	691	0.5-	0.1-
1998 08 31	704	1.4+	1.3+	1998 11 18	704	0.3-	0.7+	1998 12 12	691	0.4-	0.1-
1998 08 31	704	1.0+	1.3+	1998 11 20	699	0.4+	0.9+	1998 12 12	691	0.5-	0.3-
1998 10 26	358	0.8-	0.1-	1998 11 20	699	0.5+	0.7+	1998 12 26	691	0.6+	0.2-
1998 10 26	358	1.1-	1.8-	1998 11 20	699	0.0	0.4+	1998 12 26	691	0.6+	0.1-
1998 10 26	358	(0.3+	2.9-)	1998 11 21	704	0.8-	1.1+	1998 12 26	691	1.2+	0.6-
1998 10 28	358	0.8-	1.5+	1998 11 21	704	0.8-	0.7-	2000 03 10	704	0.3-	0.1+
1998 10 28	358	0.8-	1.0+	1998 11 21	704	0.3-	0.1-	2000 03 10	704	0.5+	0.4-
1998 10 29	358	(2.8-	1.0-)	1998 11 21	704	0.0	1.0+	2000 03 10	704	0.1+	0.5+
1998 10 29	358	(2.8-	1.1-)	1998 11 21	704	0.6+	1.3+	2000 03 10	704	0.4+	0.9+
1998 11 01	358	1.1-	1.7-	1998 11 24	704	0.3+	0.6-	2000 03 14	704	0.4+	0.2+
1998 11 01	358	0.5+	0.4+	1998 11 24	704	0.6+	0.2-	2000 03 14	704	0.3-	1.3+
1998 11 10	704	0.6-	0.0	1998 11 24	704	0.2-	0.7-	2000 03 14	704	0.4+	1.4+
1998 11 10	704	0.1-	1.7-	1998 11 24	704	0.9+	0.3-	2000 03 14	704	0.2+	0.6+
1998 11 10	704	1.4+	1.2+	1998 12 08	691	0.4-	0.0	2000 03 14	704	0.1+	0.8+
1998 11 10	704	0.3+	0.3-	1998 12 08	691	0.5-	0.5-				

1998 UO₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	102.36289		(2000.0)	P		Q		Williams	
<i>n</i>	0.17782870	ω	132.00439	+0.87615892		-0.31652570			
<i>a</i>	3.1318538	Ω	249.44499	+0.23952063		+0.94037536			
<i>e</i>	0.2558748	<i>i</i>	22.84577	+0.41830063		+0.12452175			
<i>P</i>	5.54	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1986 06 12	413	0.2-	0.5+	1998 11 16	704	0.4+	0.8+	1999 01 08	704	0.0	0.6-
1986 06 12	413	0.1-	0.8+	1998 11 16	704	0.7+	0.1+	1999 01 08	704	0.7+	0.8-
1986 08 01	413	0.6-	0.4+	1998 11 16	566	0.1-	0.4-	1999 01 11	704	0.7+	1.3+
1986 08 01	413	0.8+	0.5-	1998 11 16	566	0.2-	0.3-	1999 01 11	704	1.5+	1.9+
1986 08 28	413	0.5-	0.6-	1998 11 16	566	0.3-	0.5-	1999 01 11	704	0.5-	0.4-
1986 08 28	413	0.1+	0.1+	1998 12 14	704	0.7+	0.7-	1999 01 11	704	1.0+	0.7-
1986 08 28	413	0.1-	0.4+	1998 12 14	704	0.8-	1.0-	1999 02 04	704	1.7+	0.4-
1998 10 26	098	0.8-	0.4+	1998 12 14	704	0.6-	1.1-	1999 02 04	704	0.6+	1.2-
1998 10 26	098	1.8-	0.6-	1998 12 14	704	0.4+	1.5-	1999 02 04	704	0.0	1.1-
1998 10 28	112	0.6+	0.6-	1998 12 14	704	0.2-	1.4-	1999 02 04	704	0.4+	0.3-
1998 10 29	112	0.8-	0.4-	1998 12 16	699	0.5-	0.3+	1999 02 04	699	0.2-	0.3+
1998 11 14	704	0.6+	0.6+	1998 12 16	699	0.5-	0.5+	1999 02 04	699	0.3-	1.2+
1998 11 14	704	1.2+	0.4-	1998 12 16	699	0.5-	0.4+	1999 02 04	699	1.0-	1.9+
1998 11 14	704	0.0	0.4+	1999 01 06	699	0.2+	0.5+	1999 12 18	704	1.0+	0.7-
1998 11 14	704	1.6-	0.4+	1999 01 06	699	0.3-	0.8+	1999 12 18	704	0.6+	0.1-
1998 11 16	704	0.3+	1.4+	1999 01 06	699	0.3-	0.0	1999 12 18	704	1.5-	0.7+
1998 11 16	704	1.0+	0.4-	1999 01 08	704	0.3-	1.2+				
1998 11 16	704	0.9+	0.3+	1999 01 08	704	1.3-	1.7+				

M.P.C. 39271

1998 08 31	704	0.2−	0.4−	1998 11 16	704	(2.3+ 0.7−)	2000 03 08	704	0.4+	0.3−	
1998 08 31	704	0.5−	0.3−	1998 11 16	704	1.6+	0.9−	2000 03 08	704	0.9+	0.1−
1998 08 31	704	0.8−	0.4+	1998 11 16	704	0.5+	1.6−	2000 03 08	704	0.2+	0.2+
1998 08 31	704	(1.4− 3.7+)		1998 11 18	399	1.0+	0.4+	2000 03 08	704	0.4+	0.5+
1998 08 31	704	0.8+	0.2−	1998 11 18	399	0.7+	1.2+	2000 03 10	704	0.7−	0.2−
1998 10 25	399	0.6−	1.1+	1998 11 19	399	0.8+	0.8−	2000 03 10	704	0.7−	0.0
1998 10 25	399	0.2−	0.0	1998 11 19	399	0.3−	0.3+	2000 03 10	704	0.2−	0.4+
1998 10 28	399	0.6+	1.5−	1998 11 22	399	1.4−	1.1−	2000 03 10	704	0.3−	0.9+
1998 10 28	399	1.0−	0.9−	1998 11 22	399	1.6−	1.5−	2000 03 10	704	0.1+	0.6+
1998 11 12	399	0.8−	0.6+	1999 01 08	704	1.0−	1.5−	2000 03 11	704	0.2+	0.8−
1998 11 12	399	0.8+	0.7+	1999 01 08	704	(0.2− 2.4−)		2000 03 11	704	0.4+	0.7−
1998 11 14	704	0.5+	0.8−	1999 01 08	704	0.2−	1.1+	2000 03 11	704	0.4+	1.2−
1998 11 14	704	0.7+	0.9+	1999 01 08	704	0.7+	0.3+	2000 03 11	704	0.7+	1.3−

M.P.C. 39272

1998 11 14	704	0.8+	1.1+	1999 01 08	699	0.8+	0.1-	2000 03 13	704	0.4-	0.6+
1998 11 14	704	0.2+	1.2+	1999 01 08	704	0.6-	0.3+	2000 03 13	704	0.3-	0.1+
1998 11 16	704	0.2-	0.3+	1999 01 08	699	0.3-	0.6-	2000 03 13	704	0.8-	0.1+
1998 11 16	704	0.7+	0.1+	1999 01 08	699	0.0	0.2-	2000 03 13	704	0.3-	0.2+
1998 11 16	704	0.8-	0.8+	2000 02 27	703	0.2+	0.3+	2000 03 13	704	0.9-	0.1+
1998 11 16	704	0.6-	0.8+	2000 02 27	703	0.8+	0.5+	2000 03 14	703	0.2+	0.7+
1998 11 16	704	1.1-	1.1+	2000 02 27	703	0.2-	0.0	2000 03 14	703	0.4-	0.0
1998 11 16	704	0.1+	0.2-	2000 02 27	703	0.7+	0.0	2000 03 14	703	0.7-	0.3+
1998 11 16	704	0.3+	0.5-	2000 03 08	704	0.1+	0.1-	2000 03 14	703	0.4+	0.7-

1998 US₃₁ = 2000 DM₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	186.22913	(2000.0)	
<i>n</i>	0.22932285	ω 264.14214	+0.88475654 +0.46168845
<i>a</i>	2.6434504	Ω 68.34737	-0.39591203 +0.81659964
<i>e</i>	0.0844631	<i>i</i> 3.92600	-0.24588518 +0.34642287
<i>P</i>	4.30	<i>H</i> 13.8	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 10 22	327	0.1+	0.4-	1998 12 13	327	0.6-	0.3+	2000 02 25	703	0.3+	0.5-
1998 10 22	327	0.1+	0.1+	1998 12 14	704	0.7-	0.2-	2000 02 25	703	0.6-	0.2+
1998 10 22	327	0.3+	0.2+	1998 12 14	704	1.0+	0.1-	2000 02 25	703	0.4+	0.2-
1998 10 23	327	0.1-	0.2+	1998 12 14	704	0.4+	1.0-	2000 02 25	703	1.3-	0.4-
1998 10 23	327	0.4-	0.2+	1998 12 14	704	0.4-	0.8-	2000 03 02	703	0.7+	1.0-
1998 10 23	327	0.2-	0.3+	1998 12 17	704	0.1-	0.1+	2000 03 02	703	0.7+	0.1+
1998 10 27	327	0.3-	0.1+	1998 12 17	704	0.5-	0.2-	2000 03 02	703	0.2+	0.5+
1998 10 27	327	0.1-	0.5+	1998 12 17	704	0.5-	0.2+	2000 03 02	703	0.6-	0.2-
1998 10 27	327	0.4-	0.5+	1998 12 17	704	0.5-	0.7-	2000 03 05	704	0.6-	0.1-
1998 11 09	327	0.2+	0.5-	1998 12 17	704	0.6+	0.2-	2000 03 05	704	0.3-	0.3+
1998 11 09	327	0.3+	0.7-	1998 12 23	691	0.3+	0.4+	2000 03 05	704	0.6+	0.3+
1998 11 09	327	0.3+	0.6-	1998 12 23	691	0.1+	0.5+	2000 03 05	704	0.2+	0.1-
1998 11 24	704	0.6+	0.2+	1998 12 23	691	0.1-	0.0	2000 03 05	704	0.6-	0.4-
1998 11 24	704	0.1+	0.6-	2000 02 04	704	0.7-	0.5+	2000 03 11	699	0.2-	0.1+
1998 11 24	704	0.9+	0.3+	2000 02 04	704	0.3+	0.2-	2000 03 11	699	0.4+	0.2-
1998 11 24	704	0.5+	0.5-	2000 02 04	704	0.6+	0.0	2000 03 11	699	0.1+	0.5+
1998 11 24	704	1.2+	1.0+	2000 02 04	704	0.4-	0.1+	2000 03 11	699	0.5+	0.1-
1998 12 08	699	0.6+	0.5-	2000 02 04	704	0.7+	1.2+	2000 03 12	704	0.2+	0.2-
1998 12 08	699	0.4-	0.2+	2000 02 11	704	0.1+	0.6-	2000 03 12	704	0.6-	0.0
1998 12 08	699	0.6-	0.8+	2000 02 11	704	0.4-	0.2+	2000 03 12	704	0.6+	0.0
1998 12 13	327	0.7-	0.5+	2000 02 11	704	0.7-	0.4-	2000 03 12	704	0.0	0.1+
1998 12 13	327	0.9-	0.2+	2000 02 11	704	0.1+	0.6+	2000 03 12	704	0.1+	0.3-

1998 UD₃₈ = 1998 VB₈

Id. A. Doppler (d, MPC 33785)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	124.52967	(2000.0)	
<i>n</i>	0.21377243	ω 304.03658	+0.98953091 +0.03321038
<i>a</i>	2.7701392	Ω 54.45212	+0.03933805 +0.87424840
<i>e</i>	0.1926925	<i>i</i> 9.94013	-0.13885637 +0.48434161
<i>P</i>	4.61	<i>H</i> 14.4	<i>G</i> 0.15 <i>U</i> 3

Residuals in seconds of arc

1992 05 30	413	0.8-	0.7-	1998 10 29	704	0.4-	0.5-	1998 11 14	699	0.2-	1.2+
1992 05 30	413	0.1+	0.2+	1998 10 29	704	0.1-	0.1+	1998 11 14	699	1.0+	0.9+
1996 05 09	675	0.6-	1.3-	1998 10 29	704	0.0	0.2-	1998 11 14	699	1.4+	0.9+
1996 05 09	675	1.0+	0.3+	1998 10 29	704	0.1+	0.5+	1999 01 09	691	0.2-	0.9-
1998 09 24	699	0.0	0.2+	1998 10 29	704	0.9-	0.7+	1999 01 09	691	0.1+	0.2-
1998 09 24	699	0.2-	0.4-	1998 11 10	704	1.4+	0.7-	1999 01 09	691	0.5-	0.4-
1998 09 24	699	0.2-	0.3+	1998 11 10	704	0.2-	0.1-	1999 01 13	691	0.5-	0.4+
1998 10 20	699	0.2-	0.2-	1998 11 10	704	0.3-	0.5-	1999 01 13	691	0.5+	0.9+
1998 10 20	699	0.2-	0.2-	1998 11 10	704	1.0-	0.9-	1999 01 13	691	0.1+	0.6+
1998 10 20	699	0.5-	0.3-	1998 11 11	704	0.6+	0.8-	2000 01 29	704	0.7-	1.2-
1998 10 28	704	0.5+	0.0	1998 11 11	704	1.4-	0.3+	2000 01 29	704	0.5+	0.6-
1998 10 28	704	0.6+	0.4-	1998 11 11	704	0.1+	0.7-	2000 01 29	704	1.3-	0.0
1998 10 28	704	0.8+	0.1-	1998 11 11	704	0.1+	0.7-	2000 01 29	704	1.2+	1.9+
1998 10 28	704	0.5+	1.0+	1998 11 11	704	0.2-	0.6-				

2000 MAR. 20

1998 UO₄₀ = 2000 ED₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	21.49526	(2000.0)	
<i>n</i>	0.27110334	ω 165.14198	-0.86341984 -0.50368562
<i>a</i>	2.3643556	Ω 344.51667	+0.45132546 -0.74605068
<i>e</i>	0.0560802	<i>i</i> 6.10847	+0.22541407 -0.43555617
<i>P</i>	3.64	<i>H</i> 14.4	<i>G</i> 0.15 <i>U</i> 5

Residuals in seconds of arc

1998 10 11	699	0.1+	1.0+	1998 11 11	704	0.6-	0.1-	2000 03 08	704	1.9-	0.2-
1998 10 11	699	0.3+	0.6+	1998 11 11	704	0.7-	1.4+	2000 03 08	704	0.6+	0.5-
1998 10 11	699	0.5+	0.8+	1998 11 11	704	0.6+	0.8-	2000 03 08	704	1.4+	0.4-
1998 10 28	704	0.6-	0.8-	1998 11 11	704	0.1-	0.0	2000 03 10	704	0.4-	0.4+
1998 10 28	704	0.9-	0.3+	1998 11 14	704	0.8+	0.6-	2000 03 10	704	0.0	0.3+
1998 10 28	704	0.3+	0.1-	1998 11 14	704	1.0+	0.1+	2000 03 10	704	0.1+	0.4+
1998 10 28	704	0.2-	0.1+	1998 11 14	704	0.1-	2.0-	2000 03 10	704	0.2+	0.6+
1998 10 29	704	(0.7-	2.6+)	1998 11 14	704	0.5+	0.5-	2000 03 10	704	0.5+	0.8+
1998 10 29	704	0.1-	0.8+	1998 11 16	704	1.4+	1.4+	2000 03 11	704	0.5-	0.9-
1998 10 29	704	1.6-	0.9-	1998 11 16	704	0.8-	0.5-	2000 03 11	704	0.0	0.3-
1998 10 29	704	1.5-	0.3+	1998 11 16	704	0.3-	0.3+	2000 03 11	704	0.3-	0.3-
1998 11 10	704	1.6+	0.7+	1998 11 16	704	0.2-	1.5+	2000 03 11	704	0.2-	0.0
1998 11 10	704	0.8+	0.5-	2000 02 29	704	0.8+	0.5-	2000 03 11	704	0.6+	0.6+
1998 11 10	704	1.2-	1.3-	2000 02 29	704	0.1+	0.3+				
1998 11 10	704	1.1+	0.7-	2000 02 29	704	0.8-	0.2+				

1998 VK

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	110.70324	(2000.0)	
<i>n</i>	0.24470317	ω 93.38073	+0.67782011 -0.71882635
<i>a</i>	2.5314906	Ω 312.65669	+0.56317801 +0.64264854
<i>e</i>	0.1834803	<i>i</i> 12.12157	+0.47264196 +0.26512548
<i>P</i>	4.03	<i>H</i> 14.3	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1984 03 06	413	1.0-	0.2+	1998 11 08	683	0.1+	0.7-	1998 12 22	683	0.2-	0.4-
1984 03 06	413	2.0-	1.2-	1998 11 08	683	0.1+	0.6-	1998 12 23	683	0.1-	0.1-
1986 11 28	675	0.0	2.2-	1998 11 14	683	0.3-	0.1+	1998 12 23	683	0.2+	0.3-
1986 11 28	675	1.4+	1.8+	1998 11 14	683	0.6-	0.1+	1998 12 23	683	0.0	0.3-
1998 08 29	704	0.7+	0.4-	1998 11 14	683	0.0	0.1-	1999 01 08	704	1.3-	0.8-
1998 08 29	704	0.2-	0.8-	1998 11 15	699	0.4-	1.0+	1999 01 08	704	1.0-	0.8+
1998 08 29	704	1.1-	0.4+	1998 11 15	699	0.9+	0.8+	1999 01 08	704	1.5-	1.7+
1998 08 29	704	1.1+	1.2+	1998 11 15	699	0.4-	0.8+	1999 01 08	704	0.6+	0.0
1998 08 29	704	0.6-	1.2+	1998 11 15	683	0.3+	0.6+	2000 03 09	704	0.6+	0.2+
1998 11 07	683	0.1-	0.9-	1998 11 15	683	0.1+	0.5+	2000 03 09	704	1.1+	0.2+
1998 11 07	683	0.9+	1.0-	1998 11 15	683	0.2+	0.4+	2000 03 09	704	1.1+	0.3+
1998 11 07	683	0.6+	1.1-	1998 12 22	683	0.2-	0.5-				
1998 11 08	683	0.2+	0.6-	1998 12 22	683	0.3-	0.4-				

1998 VZ₁ = 2000 EV₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	156.62067	(2000.0)	
<i>n</i>	0.23047986	ω 63.61091	+0.99152253 +0.12911086
<i>a</i>	2.6345962	Ω 288.96798	-0.12403979 +0.90704969
<i>e</i>	0.0947602	<i>i</i> 0.88521	-0.03869375 +0.40073839
<i>P</i>	4.28	<i>H</i> 15.3	<i>G</i> 0.15 <i>U</i> 6

Residuals in seconds of arc

1998 11 09	910	1.2+	0.4-	1998 11 11	910	0.4-	0.0	2000 03 05	704	0.2-	0.3+
1998 11 09	910	1.3+	0.5-	1998 11 12	910	0.1-	0.0	2000 03 05	704	1.0+	0.2-
1998 11 10	910	0.1-	0.5-	1998 11 12	910	0.2+	0.5-	2000 03 05	704	0.8-	1.0-
1998 11 10	910	0.6+	0.6+	1998 11 12	910	0.1-	0.1-	2000 03 05	704	1.2-	0.2+
1998 11 10	910	0.1+	0.3+	1998 11 26	691	0.1-	0.1+	2000 03 11	704	0.2+	0.1-
1998 11 10	910	0.2+	0.3+	1998 11 26	691	0.0	0.0	2000 03 11	704	0.2+	0.6-
1998 11 11	704	0.4-	0.0	1998 11 26	691	0.0	0.1+	2000 03 11	704	0.5+	0.5-
1998 11 11	704	(1.9-	2.8-)	2000 03 03	704	0.4+	0.4+	2000 03 11	704	0.9+	0.9-

2000 MAR. 20

M.P.C. 39273

1998 11 11	704	1.4−	0.5+	2000 03 03	704	0.1+	0.2+	2000 03 11	699	0.9−	1.4+
1998 11 11	704	(5.4−	0.6−)	2000 03 03	704	0.4+	0.1−	2000 03 11	699	0.9−	0.3−
1998 11 11	910	0.4−	0.1−	2000 03 03	704	0.6−	0.5+	2000 03 11	699	0.6−	0.5+
1998 11 11	910	0.7−	0.1+	2000 03 03	704	0.1+	0.0	2000 03 11	699	1.3+	0.2+

1998 VD₂ = 2000 CT₃₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	64.34764	(2000.0)		P	Q		
<i>n</i>	0.18816808	ω	204.67844	+0.12582951	−0.99186311		
<i>a</i>	3.0160515	Ω	238.09822	+0.91393383	+0.12348666		
<i>e</i>	0.1281798	<i>i</i>	1.30620	+0.38586512	+0.03096162		
<i>P</i>	5.24	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 18	699	0.5−	0.2−	1998 11 17	910	0.7−	0.1−	2000 02 29	704	0.1−	0.2−
1998 10 18	699	0.6−	1.4−	1998 11 18	910	0.6−	0.2−	2000 02 29	704	0.0	0.3+
1998 10 18	699	0.7−	0.7−	1998 11 19	910	0.1−	0.2+	2000 02 29	704	0.1−	1.0+
1998 11 09	910	1.6+	0.1+	1998 11 19	910	0.0	0.1+	2000 02 29	704	0.9−	0.9+
1998 11 09	910	1.4+	0.1+	1998 11 19	910	0.0	0.2+	2000 03 03	704	0.3+	0.2+
1998 11 10	910	(2.2+	0.1−)	1999 01 07	910	0.3−	0.3−	2000 03 03	704	0.6−	0.4−
1998 11 10	699	0.9+	0.5+	1999 01 07	910	0.4−	0.2−	2000 03 03	704	0.1−	0.2−
1998 11 10	699	0.4−	0.5−	1999 01 07	910	0.4+	0.2−	2000 03 03	704	0.8−	0.5−
1998 11 10	699	1.4−	0.1+	2000 02 02	704	0.4+	0.2−	2000 03 03	704	0.3−	0.4−
1998 11 11	704	0.7−	0.5+	2000 02 02	704	0.0	0.1−	2000 03 11	704	0.7−	0.2−
1998 11 11	704	(1.3−	3.0−)	2000 02 02	704	1.1+	0.2−	2000 03 11	704	0.3+	0.2+
1998 11 11	704	(0.9−	2.4−)	2000 02 02	704	1.3+	0.6+	2000 03 11	704	0.0	0.4+
1998 11 12	910	0.2+	0.1+	2000 02 02	704	0.1−	0.1−	2000 03 11	704	0.9−	0.2−
1998 11 12	910	0.6+	0.2+	2000 02 05	704	0.8−	1.0−	2000 03 11	704	1.5+	1.4−
1998 11 12	910	0.3+	0.4+	2000 02 05	704	0.6+	0.5+				
1998 11 17	910	0.6+	0.9+	2000 02 05	704	0.1−	1.0+				

1998 VU₃ = 2000 CP₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	344.16071	(2000.0)		P	Q		
<i>n</i>	0.19236713	ω	119.23798	−0.99615676	−0.08055042		
<i>a</i>	2.9720000	Ω	56.16182	+0.05882668	−0.90626594		
<i>e</i>	0.1622218	<i>i</i>	2.37357	+0.06489321	−0.41496226		
<i>P</i>	5.12	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	910	0.2−	0.1−	2000 02 04	704	0.5+	1.0−	2000 03 08	704	0.3−	0.4+
1998 11 11	910	0.2+	0.1−	2000 02 04	704	0.1+	0.1−	2000 03 08	704	0.1+	0.1+
1998 11 11	910	0.1−	0.2−	2000 02 04	704	0.3−	0.2+	2000 03 08	704	0.5−	0.0
1998 11 11	910	0.2+	0.0	2000 02 04	704	0.1+	0.1−	2000 03 08	704	0.7−	0.7−
1998 11 11	910	0.4+	0.2+	2000 02 04	704	0.4+	0.2+	2000 03 08	704	0.0	0.2+
1998 11 11	910	0.2+	0.6+	2000 02 11	704	0.0	1.1+	2000 03 09	704	0.1−	0.1−
1998 11 17	910	0.4−	0.6−	2000 02 11	704	0.5+	0.6+	2000 03 09	704	0.1−	0.3−
1998 11 17	910	0.4−	0.5−	2000 02 11	704	0.4−	0.0	2000 03 09	704	0.7−	0.5+
1998 11 18	910	0.2−	0.7−	2000 02 11	704	0.7+	0.3−	2000 03 09	704	0.9−	0.6+
1998 11 19	910	0.1+	0.1−	2000 02 11	704	0.7+	0.4−	2000 03 09	704	0.0	0.6+
1998 11 19	910	0.5+	0.0	2000 02 25	703	0.7+	0.1+	2000 03 11	699	0.4−	0.6−
1998 11 19	910	0.2+	0.0	2000 02 25	703	0.0	0.2+	2000 03 11	699	0.3−	0.3−
1999 01 13	910	0.3−	0.1+	2000 02 25	703	0.4+	0.0	2000 03 11	699	0.2−	0.0
1999 01 13	910	0.1+	0.3+	2000 02 25	703	0.5+	0.1−	2000 03 11	699	0.3−	0.1+
1999 01 13	910	0.4−	1.0+	2000 03 05	704	0.0	0.2−	2000 03 12	704	0.5+	0.7−
2000 02 02	703	0.1+	0.0	2000 03 05	704	0.4−	0.1−	2000 03 12	704	1.4+	0.4−
2000 02 02	703	1.2−	1.1+	2000 03 05	704	0.2−	0.1−	2000 03 12	704	0.7+	0.6−
2000 02 02	703	0.9−	0.0	2000 03 05	704	0.1−	0.2−				
2000 02 02	703	0.2+	0.7+	2000 03 05	704	0.0	0.7−				

1998 VK₄ = 1996 HO₁₁ = 2000 CZ₃₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

				(2000.0)				P	Q
<i>M</i>	173.62545								
<i>n</i>	0.19404040	ω	335.50718	+0.79222171	+0.61022704				
<i>a</i>	2.9548897	Ω	346.88578	−0.55783858	+0.72234731				
<i>e</i>	0.0445037	<i>i</i>	0.70191	−0.24738813	+0.32532648				
<i>P</i>	5.08	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1996 04 17	809	0.3−	0.6−	1998 11 12	910	0.3−	0.1−	2000 02 03	704	0.5+	0.0
1996 04 17	809	0.9−	0.2+	1998 11 12	910	0.4−	0.1−	2000 02 05	704	0.5−	0.4−
1996 04 17	809	0.7−	0.3−	1998 11 12	910	0.4−	0.0	2000 02 05	704	0.6−	0.7+
1996 04 18	809	1.2+	0.1−	1998 11 17	910	1.3+	0.3+	2000 02 05	704	0.5−	0.5+
1996 04 18	809	0.1−	0.8−	1998 11 17	910	1.4+	0.5+	2000 02 06	704	0.9−	0.8+
1996 04 18	809	0.1+	0.3−	1998 11 26	691	0.5−	0.0	2000 02 06	704	0.5+	0.3+
1998 11 10	910	0.1−	0.4+	1998 11 26	691	0.5−	0.1−	2000 02 06	704	0.1−	0.1−
1998 11 11	910	0.1−	0.4+	1998 11 26	691	2.2+	3.7−	2000 02 11	704	0.5+	0.6−
1998 11 11	910	0.1−	0.3+	2000 02 03	704	0.2−	0.3−	2000 02 11	704	1.1−	1.0−
1998 11 11	910	0.4−	0.1−	2000 02 03	704	0.2+	0.1+	2000 02 11	704	0.2+	0.0
1998 11 11	910	0.8−	0.1+	2000 02 03	704	0.5+	0.2−	2000 02 11	704	0.0	0.1−
1998 11 11	910	0.5−	0.1+	2000 02 03	704	0.2−	1.1+				

1998 VW₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

				(2000.0)				P	Q
<i>M</i>	90.71500								
<i>n</i>	0.17164314	ω	62.97025	+0.55739206	−0.83006415				
<i>a</i>	3.2066514	Ω	353.07524	+0.70086073	+0.48174604				
<i>e</i>	0.2321789	<i>i</i>	8.36441	+0.44509361	+0.28091683				
<i>P</i>	5.74	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1994 02 12	809	0.5+	0.1+	1998 12 14	704	1.4+	0.7−	2000 02 27	557	0.5−	0.2−
1994 02 12	809	0.1−	0.8−	1998 12 14	704	0.7−	0.3+	2000 02 27	557	0.4−	0.2+
1994 02 12	809	0.9−	0.2−	1998 12 14	704	0.6−	0.5+	2000 02 27	557	0.2−	0.3−
1998 11 12	557	0.3+	0.8+	1998 12 14	704	0.3+	1.2+	2000 02 27	703	1.0+	0.2−
1998 11 12	557	0.3+	0.6+	1998 12 17	704	0.6+	0.2−	2000 02 27	703	0.1+	1.4+
1998 11 13	557	0.0	0.0	1998 12 17	704	0.8+	1.7−	2000 02 27	703	0.8+	0.9−
1998 11 13	557	0.1−	0.0	1998 12 17	704	1.1+	1.7−	2000 02 27	703	0.5−	0.7−
1998 11 16	704	0.1+	0.0	1998 12 17	704	(0.9+	2.3−)	2000 03 03	704	0.5−	0.7+
1998 11 16	704	0.3−	0.2+	1999 01 05	557	0.6−	0.0	2000 03 03	704	0.2+	0.2+
1998 11 16	704	0.6−	0.0	1999 01 05	557	0.4−	0.2−	2000 03 03	704	0.6+	0.1−
1998 11 16	704	0.3−	0.3+	1999 01 05	557	0.5−	0.1+	2000 03 11	704	0.0	0.2−
1998 11 16	704	0.6+	1.1+	1999 01 05	557	0.7−	0.0	2000 03 11	699	0.4−	0.4+
1998 11 20	557	0.4−	0.0	1999 01 14	557	0.1+	0.2+	2000 03 11	704	0.1+	0.3+
1998 11 21	557	0.4+	0.4+	1999 01 14	557	0.1−	0.1−	2000 03 11	704	0.1+	0.0
1998 11 23	557	0.3−	0.2+	2000 02 04	557	0.0	0.1−	2000 03 11	699	0.1−	0.8−
1998 11 23	557	0.2−	0.1−	2000 02 04	557	0.1−	0.9−	2000 03 11	704	0.8+	0.0
1998 12 10	557	0.0	0.0	2000 02 26	557	0.5+	0.9+	2000 03 11	699	0.4−	0.7+
1998 12 10	557	0.3−	0.0	2000 02 26	557	0.2+	0.9+	2000 03 11	704	1.2−	0.2−
1998 12 14	704	0.2+	0.6−	2000 02 26	557	0.4+	0.1+	2000 03 11	699	0.5+	0.1+

1998 VM₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	142.71794		(2000.0)	P	Q
n	0.23830278	ω	342.76378	+0.99524750	−0.08312894
a	2.5766176	Ω	22.19249	+0.09737097	+0.85569539
e	0.2048743	i	7.71618	−0.00114735	+0.51075922
P	4.14	H	14.4	G 0.15	U 4

M.P.C. 39274

1998 11 08	905	(1.4+ 2.1+)	1998 11 11	886	1.0- 0.8+	2000 03 05	704	0.2+ 1.4-
1998 11 09	905	1.3- 1.1+	1998 11 11	886	0.6+ 0.4+	2000 03 05	704	0.1+ 0.9-
1998 11 09	905	0.8+ 0.7+	1998 11 13	385	0.2- 0.4-	2000 03 05	704	0.2+ 0.1-
1998 11 10	704	0.0 0.4+	1998 11 13	385	0.3- 0.3+	2000 03 05	704	0.6+ 0.7+
1998 11 10	704	0.3- 0.4-	1998 11 19	888	0.0 0.1+	2000 03 12	704	0.2- 0.6-
1998 11 10	704	0.3+ 0.4-	1998 11 19	888	0.0 0.1+	2000 03 12	704	0.2+ 0.5+
1998 11 10	704	0.2- 0.6-	1998 11 19	888	0.1+ 0.0	2000 03 12	704	0.7- 0.4+
1998 11 10	704	0.6- 0.7-	1998 12 13	385	0.4+ 0.0	2000 03 12	704	0.5+ 0.7+
1998 11 11	704	0.7+ 1.0+	1999 01 10	888	0.2- 0.1+	2000 03 12	704	0.0 0.5+

1998 VU₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	38.11853		(2000.0)	P	Q
n	0.24520496	ω	177.32009	-0.71653394	-0.69638596
a	2.5280357	Ω	318.44426	+0.63885588	-0.63193491
e	0.0735068	i	3.48473	+0.28007549	-0.34015417
P	4.02	H	14.4	G 0.15	U 4

Residuals in seconds of arc

1998 11 10	699	0.5+ 0.5+	1998 11 14	888	0.0 0.4+	2000 02 27	888	0.3+ 0.5-
1998 11 10	699	0.3+ 0.4+	1998 11 19	888	0.4- 0.4-	2000 02 27	888	0.1- 0.4-
1998 11 10	699	1.1+ 0.0	1998 11 19	888	0.1- 0.1+	2000 02 28	888	0.2- 0.2+
1998 11 11	704	0.5- 0.4+	1998 11 25	888	0.4- 0.5+	2000 02 28	888	0.5+ 0.8-
1998 11 11	704	0.0 0.5-	1998 11 25	888	0.7- 1.1+	2000 02 28	888	0.3+ 0.0
1998 11 11	704	0.4+ 0.4-	1998 12 09	888	0.2- 1.4-	2000 03 03	703	0.3- 0.5+
1998 11 11	704	0.3+ 1.1-	1998 12 09	888	0.1- 0.4-	2000 03 03	703	0.6- 0.6+
1998 11 11	704	1.7- 0.8-	1998 12 16	699	0.2- 1.1+	2000 03 03	703	1.0- 0.2+
1998 11 11	888	0.2+ 0.2+	1998 12 16	699	0.7+ 0.0	2000 03 03	703	0.3+ 0.3-
1998 11 11	888	0.1+ 0.7+	1998 12 16	699	1.6+ 0.4-	2000 03 09	704	0.2+ 0.1+
1998 11 11	888	0.2+ 0.4+	1998 12 17	888	0.2+ 0.5-	2000 03 09	704	0.3+ 0.0
1998 11 12	888	0.4- 0.0	1998 12 17	888	0.3- 0.6-	2000 03 09	704	0.3+ 0.2+
1998 11 12	888	0.0 0.1-	1999 01 10	888	0.0 0.0	2000 03 09	704	0.0 0.7+
1998 11 12	888	0.1+ 0.3-	1999 01 10	888	0.0 0.4-	2000 03 09	704	0.2+ 0.4-
1998 11 14	888	0.1+ 0.1+	1999 01 20	888	0.1+ 0.5+			
1998 11 14	888	0.0 0.7+	1999 01 20	888	0.8- 0.5+			

1998 VS₆ = 2000 ER₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	181.28137		(2000.0)	P	Q
n	0.22775033	ω	104.17852	+0.94004991	+0.31885806
a	2.6556044	Ω	237.35691	-0.34101372	+0.88299051
e	0.1023859	i	8.26035	+0.00397538	+0.34446669
P	4.33	H	13.4	G 0.15	U 3

Residuals in seconds of arc

1997 08 03	566	0.4- 0.4+	1998 12 15	704	0.2+ 0.7+	2000 02 08	704	0.8- 0.3-
1997 08 03	566	0.0 0.0	1998 12 15	704	0.5- 0.4+	2000 03 08	704	0.3+ 0.1+
1997 08 03	566	0.2+ 0.0	1998 12 15	704	1.4+ 0.1-	2000 03 08	704	0.4- 0.5-
1998 11 12	411	0.1+ 0.1+	1998 12 15	704	0.4+ 0.1+	2000 03 08	704	0.0 0.5+
1998 11 12	411	0.2+ 0.6-	1998 12 15	704	0.1+ 0.7+	2000 03 08	704	0.1+ 0.8-
1998 11 14	411	0.1- 1.3-	1998 12 21	411	0.3+ 0.2-	2000 03 08	704	0.1+ 0.1+
1998 11 14	411	0.6- 0.2-	1998 12 21	411	0.3- 0.3+	2000 03 13	704	0.3- 0.4+
1998 11 20	411	0.3- 0.3-	2000 02 08	704	0.5- 0.5+	2000 03 13	704	0.1+ 0.8-
1998 11 20	411	0.3- 0.7+	2000 02 08	704	0.1+ 0.1+	2000 03 13	704	1.3+ 0.8+
1998 12 12	411	0.5- 0.3-	2000 02 08	704	0.5+ 0.2-			
1998 12 12	411	0.2- 0.4+	2000 02 08	704	0.4- 0.3+			

1998 VC₁₁ = 2000 CQ₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	257.11798		(2000.0)	P	Q		
n	0.30214558	ω	65.04309	+0.08011017	+0.99599015		
a	2.1995064	Ω	209.63553	-0.94112100	+0.06241163		
e	0.1082788	i	4.61947	-0.32844120	+0.06409687		
P	3.26	H	14.6	G	0.15	U	4

2000 MAR. 20

Residuals in seconds of arc

1997 04 01	809	0.8+ 0.4+	1998 11 10	704	0.3+ 1.4-	2000 02 08	704	0.4+ 0.7+
1997 04 01	809	0.6- 1.2+	1998 11 10	704	0.5+ 0.6-	2000 02 08	704	1.0+ 0.6+
1997 04 01	809	0.1+ 0.8-	1998 11 10	704	0.7+ 0.9+	2000 02 08	704	0.8- 0.2-
1998 10 19	691	0.6- 0.3-	1998 11 10	704	1.7- 0.4+	2000 02 08	704	0.3- 0.9-
1998 10 19	691	0.7- 0.3-	1998 11 11	704	0.6+ 0.0	2000 02 08	704	0.5+ 0.6-
1998 10 19	691	0.8- 0.2-	1998 11 11	704	1.2+ 1.2+	2000 03 08	704	0.1- 0.3+
1998 10 20	699	0.1- 1.4-	1998 11 11	704	0.3+ 1.4+	2000 03 08	704	0.3- 0.6-
1998 10 20	699	0.1+ 0.4+	1998 11 11	704	0.1- 0.2-	2000 03 08	704	0.5- 0.9+
1998 10 20	699	1.0+ 0.8+	1998 11 11	704	0.5- 1.3+	2000 03 08	704	0.2- 0.8+
1998 10 20	327	0.1- 0.5-	2000 02 02	704	0.5+ 0.5-	2000 03 08	704	0.5+ 1.0+
1998 10 20	327	0.6- 0.1-	2000 02 02	704	0.4+ 0.5-	2000 03 13	704	0.0 0.6-
1998 10 20	327	0.0 0.2+	2000 02 02	704	0.8- 0.2-	2000 03 13	704	0.5+ 0.3-
1998 11 10	704	0.1+ 0.5-	2000 02 02	704	0.6- 0.9-	2000 03 13	704	0.1- 0.5+

1998 VW₁₁ = 2000 EW₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	41.63413		(2000.0)	P	Q
n	0.21243921	ω	270.51721	-0.29813353	-0.95218443
a	2.7817169	Ω	197.28534	+0.94054251	-0.28111360
e	0.1053590	i	12.99059	+0.16277650	-0.11966599
P	4.64	H	13.8	G 0.15	U 3

Residuals in seconds of arc

1998 10 20	699	0.1+ 0.7+	2000 02 07	703	0.5- 0.1+	2000 03 08	704	0.8- 0.2+
1998 10 20	699	0.2+ 0.7+	2000 02 07	703	0.8- 0.0	2000 03 08	704	0.2- 0.5-
1998 10 20	699	0.7+ 0.3+	2000 02 08	704	0.2- 0.1-	2000 03 08	704	0.2+ 0.8+
1998 10 26	910	0.4+ 0.9+	2000 02 08	704	0.1+ 0.3+	2000 03 13	704	0.1+ 0.5-
1998 10 26	910	0.5+ 1.2+	2000 02 08	704	1.1- 0.0	2000 03 13	704	0.0 0.5-
1998 10 27	910	0.5+ 1.2+	2000 02 08	704	0.0 0.9-	2000 03 13	704	0.4+ 0.0
1998 11 10	704	0.0 0.1+	2000 02 08	704	0.1+ 0.6-	2000 03 13	704	0.0 0.4-
1998 11 10	704	0.7+ 1.0-	2000 03 03	703	0.4+ 0.1+	2000 03 13	704	0.4+ 0.0
1998 11 10	704	0.1+ 0.3-	2000 03 03	703	0.3+ 0.1-	2000 03 14	703	0.4- 0.5+
1998 11 10	704	0.2- 1.4-	2000 03 03	703	0.3+ 0.3+	2000 03 14	703	0.1+ 1.0+
1998 11 11	704	0.4- 0.9+	2000 03 03	703	0.7- 0.9+	2000 03 14	703	0.4+ 0.1+
1998 11 11	704	0.9- 0.4+	2000 03 04	703	0.8+ 0.0	2000 03 14	703	0.2- 0.2+
1998 11 11	704	0.2- 0.8-	2000 03 04	703	0.2+ 0.2+	2000 03 15	704	1.9+ 1.5-
1998 11 11	704	0.9- 1.0-	2000 03 04	703	0.3+ 0.1-	2000 03 15	704	0.7- 0.4-
1998 11 11	704	0.9- 1.5-	2000 03 04	703	0.2+ 0.0	2000 03 15	704	0.3+ 0.5+
2000 02 07	703	0.4- 0.1+	2000 03 08	704	0.4- 0.2-	2000 03 15	704	0.3+ 0.2+
2000 02 07	703	0.6- 0.0	2000 03 08	704	0.0 0.1-	2000 03 15	704	0.1+ 0.8+

1998 VR₁₂ = 2000 DJ₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	92.90659		(2000.0)	P	Q
n	0.22360373	ω	301.41558	+0.53650343	-0.84302318
a	2.6883348	Ω	116.09085	+0.78805821	+0.48419904
e	0.1511748	i	2.45173	+0.30187468	+0.23422897
P	4.41	H	15.0	G 0.15	U 4

Residuals in seconds of arc

1998 10 20	699	0.0 0.2+	1998 11 14	699	0.8+ 0.1+	2000 03 02	703	0.5- 0.8-
1998 10 20	699	0.1+ 0.6+	1998 11 14	699	0.1- 0.2-	2000 03 02	703	1.4- 0.7+
1998 10 20	699	0.4- 0.6+	1998 11 14	699	1.7+ 1.0+	2000 03 02	703	0.1+ 0.6-
1998 11 10	704	0.5+ 0.1+	2000 02 16	703	1.0- 0.1+	2000 03 03	704	0.2+ 0.1+
1998 11 10	704	0.3- 0.5-	2000 02 16	703	0.6+ 0.3-	2000 03 03	704	0.2+ 0.1+
1998 11 10	704	0.0 0.2-	2000 02 16	703	1.0+ 0.1+	2000 03 03	704	0.0 0.4+
1998 11 10	704	1.9- 2.0-	2000 02 16	703	0.0 0.5+	2000 03 03	704	0.1+ 0.3+
1998 11 11	704	0.3- 0.3+	2000 02 29	704	0.2+ 0.4+	2000 03 03	704	0.1+ 1.3-
1998 11 11	704	0.0 0.1+	2000 02 29	704	0.3- 0.1+	2000 03 11	699	0.4+ 0.5+
1998 11 11	704	0.6+ 0.1+	2000 02 29	704	0.1- 0.2-	2000 03 11	699	0.2+ 0.9+
1998 11 11	704	0.4+ 0.0	2000 02 29	704	0.1+ 1.0-	2000 03 11	699	0.4- 0.4+
1998 11 11	704	1.1- 0.1-	2000 03 02	703	0.5+ 0.6+	2000 03 11	699	0.2+ 0.8-

1998 VD₁₄ = 1983 VP₂ = 2000 CZ₃₂

Id. M. E. Sansaturio

2000 MAR. 20

M.P.C. 39275

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	302.03016	(2000.0)	P		Q	
<i>n</i>	0.26019877	ω	268.31614	-0.73152193	+0.67879532	
<i>a</i>	2.4299606	Ω	314.42683	-0.58440665	-0.67267836	
<i>e</i>	0.1078098	<i>i</i>	5.15204	-0.35120440	-0.29451781	
<i>P</i>	3.79	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1983 11 08	381	1.4+	0.2-	2000 02 02	703	0.0	0.1-	2000 02 15	704	0.2-	0.3-
1983 11 08	381	1.2-	0.8-	2000 02 02	703	0.1+	0.6+	2000 02 29	704	0.4+	0.9+
1998 11 10	704	0.1+	0.1+	2000 02 02	703	0.1-	0.2-	2000 02 29	704	0.3+	1.1+
1998 11 10	704	0.6+	0.3-	2000 02 02	704	0.2+	0.0	2000 02 29	704	0.4+	1.0+
1998 11 10	704	0.1+	0.6-	2000 02 02	704	0.0	0.0	2000 02 29	704	0.4+	1.1+
1998 11 10	704	1.6-	1.7-	2000 02 02	704	0.3+	0.4+	2000 02 29	704	0.6+	1.3+
1998 11 10	704	1.5-	0.2+	2000 02 02	704	0.6+	1.2+	2000 03 03	704	0.0	0.1+
1998 11 11	704	0.1-	0.1+	2000 02 02	704	0.0	1.4+	2000 03 03	704	0.3-	0.2+
1998 11 11	704	0.0	0.6+	2000 02 04	704	0.1-	0.5-	2000 03 03	704	0.1-	0.2+
1998 11 11	704	0.0	0.3+	2000 02 04	704	0.1+	0.5-	2000 03 03	704	0.4-	0.4+
1998 11 11	704	(2.9-	0.8+)	2000 02 04	704	0.3+	0.9-	2000 03 03	704	0.5-	0.2+
1998 11 15	699	0.5+	1.5+	2000 02 04	704	0.0	1.0-	2000 03 06	704	1.0-	0.3+
1998 11 15	699	0.8+	1.6+	2000 02 04	704	0.5-	0.5-	2000 03 06	704	0.8-	0.3+
1998 11 15	699	0.3+	0.3+	2000 02 12	704	1.4+	0.2+	2000 03 06	704	0.6-	0.1-
1999 11 04	703	0.3+	0.5+	2000 02 12	704	0.1-	0.9-	2000 03 11	704	0.4+	0.2-
1999 11 04	703	0.8-	1.2-	2000 02 12	704	0.6-	1.1-	2000 03 11	704	0.5+	0.0
1999 11 04	703	0.9-	0.7+	2000 02 12	704	1.1-	1.3-	2000 03 11	704	0.3+	0.2+
1999 11 04	703	0.4-	0.0	2000 02 13	704	0.7+	0.1-	2000 03 11	704	0.3+	0.3+
1999 12 05	704	0.9-	0.1-	2000 02 13	704	0.0	0.1+	2000 03 11	704	0.0	0.4+
1999 12 05	704	1.0+	0.6-	2000 02 13	704	0.2+	0.2+	2000 03 11	699	0.1+	0.4-
1999 12 05	704	0.3+	0.7-	2000 02 13	704	0.4-	0.8-	2000 03 11	699	0.2-	0.1-
1999 12 05	704	0.6+	0.6-	2000 02 15	704	0.1-	0.3-	2000 03 11	699	0.0	0.1-
1999 12 05	704	0.3-	0.5+	2000 02 15	704	0.0	0.2-	2000 03 11	699	0.1+	0.2-
2000 02 02	703	0.0	0.1-	2000 02 15	704	0.1+	0.6-				

1998 VV₁₅ = 2000 AW₁₄₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	270.71519	(2000.0)	P		Q	
<i>n</i>	0.24477044	ω	42.61899	-0.47570988	+0.87896950	
<i>a</i>	2.5310267	Ω	199.05078	-0.83204388	-0.46196651	
<i>e</i>	0.0799593	<i>i</i>	5.86566	-0.28531226	-0.11831972	
<i>P</i>	4.03	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 23	910	0.4-	0.6+	2000 01 05	704	0.9+	0.3-	2000 02 02	704	0.1+	0.2+
1998 09 23	910	0.1-	0.5+	2000 01 05	704	0.5-	0.9-	2000 02 05	704	0.7-	0.5-
1998 09 23	910	0.2-	0.9+	2000 01 05	704	0.8-	0.1-	2000 02 05	704	0.2-	0.1+
1998 10 25	046	0.1+	1.0-	2000 01 08	704	0.2+	0.1-	2000 02 05	704	0.0	0.4+
1998 10 25	046	0.1+	0.2-	2000 01 08	704	0.2+	0.0	2000 02 06	704	0.0	0.3-
1998 10 25	046	0.5+	1.0-	2000 01 08	704	0.5+	0.4-	2000 02 06	704	0.5+	0.1-
1998 10 25	046	0.0	0.1-	2000 01 08	704	0.0	0.8-	2000 02 06	704	0.4+	0.5+
1998 11 10	704	0.5+	0.7-	2000 01 08	704	0.8-	0.2+	2000 02 06	704	0.2+	0.2+
1998 11 10	704	(1.4+	2.6-)	2000 02 01	703	(5.3-	1.0+)	2000 02 06	704	0.8+	0.0
1998 11 10	704	(2.2+	0.6-)	2000 02 01	703	0.1+	0.1+	2000 03 06	704	0.2+	1.0+
1998 11 10	704	1.1-	0.9+	2000 02 01	703	1.2-	0.6+	2000 03 06	704	0.1+	0.3+
1998 11 11	704	0.7-	0.5+	2000 02 01	703	1.4-	0.1+	2000 03 06	704	0.5+	0.5+
1998 11 11	704	1.1+	0.9+	2000 02 02	704	0.2+	0.8-	2000 03 06	704	0.0	0.1+
1998 11 11	704	(6.4-	0.4+)	2000 02 02	704	0.1+	0.5-	2000 03 14	608	0.0	0.2+
2000 01 05	704	0.1+	0.7-	2000 02 02	704	0.5+	0.0	2000 03 14	608	0.1+	0.7+
2000 01 05	704	0.1-	0.7-	2000 02 02	704	0.0	0.3+	2000 03 14	608	0.2+	0.9+

1998 VW₃₀ = 2000 EF₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	174.96471	(2000.0)	P		Q	
<i>n</i>	0.29120791	ω	8.04183	+0.98907579	-0.14740769	
<i>a</i>	2.2542424	Ω	0.43509	+0.13353114	+0.89531438	
<i>e</i>	0.1258371	<i>i</i>	1.70819	+0.06243808	+0.42033694	
<i>P</i>	3.38	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1998 11 10	704	0.6-	0.4-	1998 11 21	704	0.2+	0.4+	1998 12 14	704	1.1+	0.8+
1998 11 10	704	1.4-	0.3-	1998 11 21	704	0.2-	0.4+	2000 03 09	704	0.2+	0.3+
1998 11 10	704	0.0	0.1-	1998 11 21	704	1.2+	0.5+	2000 03 09	704	0.1+	0.9-
1998 11 10	704	1.4+	1.8-	1998 11 24	704	0.4-	0.3+	2000 03 09	704	0.6-	0.1-
1998 11 11	704	1.1+	1.7+	1998 11 24	704	1.3+	1.6-	2000 03 09	704	0.4+	0.3-
1998 11 11	704	0.6+	0.0	1998 11 24	704	0.7-	0.5-	2000 03 10	704	0.4-	0.8+
1998 11 11	704	0.4+	1.3-	1998 11 24	704	0.6-	1.2-	2000 03 10	704	0.0	0.3-
1998 11 11	704	0.6-	0.6-	1998 11 24	704	0.4+	1.6-	2000 03 10	704	0.2-	0.4+
1998 11 20	699	1.1-	0.6+	1998 12 14	704	1.2-	0.3+	2000 03 10	704	0.7+	0.2+
1998 11 20	699	0.8+	1.2+	1998 12 14	704	0.5+	1.1+	2000 03 10	704	0.4-	0.6-
1998 11 20	699	0.2-	1.0+	1998 12 14	704	1.0-	0.3+				
1998 11 21	704	1.0-	0.7+	1998 12 14	704	(0.3+	2.5+)				

1998 VL₃₁ = 2000 EE₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	43.58300	(2000.0)	P		Q	
<i>n</i>	0.23998641	ω	81.14712	-0.87800035	-0.41373114	
<i>a</i>	2.5645526	Ω	74.11664	+0.27765304	-0.84984759	
<i>e</i>	0.1352303	<i>i</i>	14.49327	+0.38990277	-0.32647452	
<i>P</i>	4.11	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1998 10 27	327	0.2+	0.1+	1998 12 12	411	0.4-	0.3+	1999 01 11	704	1.4+	1.2-
1998 10 27	327	0.7+	0.2-	1998 12 14	704	0.4-	0.1-	1999 01 11	704	0.1-	1.1+
1998 10 27	327	1.1+	0.5-	1998 12 14	704	0.5-	1.3-	1999 01 11	704	0.7+	0.9-
1998 11 14	411	1.0-	0.1+	1998 12 14	704	0.6-	0.2-	1999 01 11	704	0.8+	1.3+
1998 11 14	411	0.1-	0.1+	1998 12 14	704	0.7-	0.0	2000 03 09	704	0.8-	0.1-
1998 11 15	411	0.2-	0.1+	1998 12 14	704	0.5-	1.3-	2000 03 09	704	0.1+	0.2+
1998 11 15	411	0.8-	1.2+	1998 12 17	704	0.0	0.1+	2000 03 09	704	0.1+	0.4-
1998 11 20	411	0.1+	0.9-	1998 12 17	704	0.3-	0.8+	2000 03 09	704	0.6+	0.7+
1998 11 20	411	0.2+	0.1+	1998 12 17	704	0.9+	0.3-	2000 03 09	704	0.6+	1.2+
1998 11 22	684	0.2+	0.0	1998 12 17	704	1.2+	0.6+	2000 03 12	704	0.4-	0.1-
1998 11 22	684	0.3+	0.0	1998 12 17	704	0.5+	0.5+	2000 03 12	704	0.8-	0.0
1998 11 23	684	0.0	0.2+	1998 12 21	411	0.8-	0.0	2000 03 12	704	0.5+	0.3-
1998 11 23	684	0.1+	0.0	1998 12 21	411	1.4-	0.3+	2000 03 12	704	0.1+	0.5-
1998 12 12	411	0.3-	0.0	1999 01 11	704	(2.9+	0.8+)	2000 03 12	704	0.0	0.7-

1998 VH₃₃ = 2000 EO₇₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	210.67237	(2000.0)	P		Q	
<i>n</i>	0.28989900	ω	240.81763	+0.71618549	+0.69534969	
<i>a</i>	2.2610226	Ω	75.05540	-0.61693428	+0.67077757	
<i>e</i>	0.1902660	<i>i</i>	3.54408	-0.32629807	+0.25796562	
<i>P</i>	3.40	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 10 18	699	0.7+	0.0	1998 11 19	691	(4.2-	2.4+)	2000 02 25	703	0.6+	1.1+
1998 10 18	699	0.5-	0.8-	1998 12 07	910	0.3+	0.0	2000 03 04	688	0.0	0.2-
1998 10 18	699	(2.8+	0.0)	1998 12 07	910	0.0	0.0	2000 03 04	688	0.1+	0.0
1998 11 11	699	0.5-	0.1-	1998 12 07	910	0.5+	0.1+	2000 03 05	704	1.0+	0.2-
1998 11 11	704	0.0	0.1-	1998 12 08	910	0.5+	0.4-	2000 03 05	704	0.5+	0.4-
1998 11 11	699	1.2+	1.5+	1998 12 08	910	0.7+	0.6-	2000 03 05	704	0.0	0.1-
1998 11 11	704	0.1+	1.6+	1998 12 08	910	0.4+	0.7-	2000 03 05	704	0.4+	0.3-
1998 11 11	699	0.1+	0.5+	1998 12 15	120	(0.8-	2.2+)	2000 03 05	704	0.5-	1.8+
1998 11 11	704	0.1-	0.5+	1998 12 15	120	0.5+	0.1+	2000 03 12	704	0.7-	0.1-
1998 11 14	691	0.1+	0.4-	1999 01 06	910	0.2-	0.6+	2000 03 12	704	0.3+	0.7-

1998 11 14	691	0.4−	0.5−	1999 01 06	910	0.2−	0.2+	2000 03 12	704	0.8−	0.0
1998 11 16	691	0.1−	0.3−	1999 01 06	910	0.2−	0.2+	2000 03 12	704	0.6−	0.9+
1998 11 16	691	0.3−	0.4−	2000 02 25	703	0.1−	0.2+	2000 03 12	704	0.1+	0.0
1998 11 19	691	1.2−	0.4−	2000 02 25	703	1.8−	1.0−				
1998 11 19	691	1.2−	0.2−	2000 02 25	703	1.6+	1.2−				

1998 VJ₃₃ = 2000 EL₉₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	75.11965		(2000.0)	P	Q		
<i>n</i>	0.19255703	ω	200.62378	+0.31674281	−0.94142479		
<i>a</i>	2.9700457	Ω	231.09418	+0.88975094	+0.33717780		
<i>e</i>	0.0480465	<i>i</i>	8.55267	+0.32865980	−0.00552160		
<i>P</i>	5.12	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	0.3+	1.3−	1998 11 19	699	1.1+	0.2+	2000 01 11	704	0.3+	1.6−
1998 11 10	704	0.8+	0.1−	1998 11 23	691	0.3−	0.5−	2000 02 07	703	1.2−	0.7−
1998 11 10	704	0.9+	2.0−	1998 11 23	691	0.5−	0.3−	2000 02 07	703	(0.7−	2.1+)
1998 11 10	704	0.3−	1.3−	1998 11 23	691	0.3−	0.4−	2000 02 07	703	0.9−	0.5+
1998 11 15	610	0.2+	0.3+	1998 11 24	704	0.5+	0.4+	2000 02 07	703	0.3+	0.3−
1998 11 15	610	0.1+	0.4+	1998 11 24	704	0.8+	0.1−	2000 02 08	704	0.2−	0.0
1998 11 15	610	0.0	0.5+	1998 11 24	704	1.0−	0.5+	2000 02 08	704	0.4+	1.2+
1998 11 15	610	0.0	0.6+	1998 11 24	704	1.3−	0.6+	2000 02 08	704	0.0	0.3−
1998 11 15	610	0.1−	0.7+	1998 11 28	104	1.8−	0.7+	2000 02 08	704	0.2−	1.0−
1998 11 16	610	1.1−	0.2−	1998 11 28	104	1.2−	0.7+	2000 02 11	704	0.9+	1.2+
1998 11 16	610	0.9−	0.2−	1998 11 28	104	0.1+	0.4+	2000 02 11	704	0.7−	0.4−
1998 11 16	610	0.7−	0.2−	1998 12 05	104	0.8+	0.2+	2000 02 11	704	0.1+	0.4+
1998 11 16	610	0.5−	0.2−	1998 12 05	104	1.3−	0.0	2000 02 11	704	0.1+	1.3−
1998 11 16	610	0.1−	0.1−	1998 12 08	691	0.1+	0.2−	2000 03 12	704	0.1−	0.5+
1998 11 17	610	0.6−	0.1−	1998 12 08	691	0.1−	0.3+	2000 03 12	704	0.2+	0.0
1998 11 17	610	0.3−	0.0	1998 12 08	691	0.0	0.4−	2000 03 12	704	0.0	0.1−
1998 11 17	610	0.0	0.1+	1998 12 08	910	1.5+	0.2+	2000 03 12	704	0.4+	0.1+
1998 11 17	610	0.3+	0.2+	1998 12 08	910	1.2+	0.2+	2000 03 12	704	0.2−	1.1+
1998 11 17	610	0.5+	0.3+	1998 12 08	910	1.3+	0.3+	2000 03 13	704	0.4+	0.1−
1998 11 19	699	1.1+	0.1+	2000 01 11	704	1.0+	0.3+	2000 03 13	704	0.3+	0.1−
1998 11 19	699	0.4+	0.2+	2000 01 11	704	0.0	0.4−	2000 03 13	704	0.8−	0.9+

1998 VZ₃₃ = 2000 DY₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	142.28330		(2000.0)	P	Q		
<i>n</i>	0.22466637	ω	191.56555	+0.97187407	−0.23549022		
<i>a</i>	2.6798511	Ω	182.05911	+0.22079222	+0.91448244		
<i>e</i>	0.1070363	<i>i</i>	3.62097	+0.08192429	+0.32903833		
<i>P</i>	4.39	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 11	595	0.3−	0.2+	1998 11 28	595	0.1+	0.5−	2000 03 03	704	0.1+	0.0
1998 11 11	595	0.0	0.0	1998 11 28	595	1.0−	0.7−	2000 03 03	691	0.7−	0.5−
1998 11 14	595	0.3+	0.1+	1998 12 14	595	0.8+	0.4+	2000 03 03	691	0.5−	0.5−
1998 11 14	595	0.5+	0.3−	1998 12 14	595	0.6+	0.1+	2000 03 03	691	0.4−	0.5−
1998 11 19	595	0.1+	0.0	1998 12 14	595	0.4+	0.7+	2000 03 04	691	0.3+	0.4−
1998 11 20	595	0.2−	0.3+	1998 12 22	691	0.2−	0.0	2000 03 04	691	0.1+	0.6−
1998 11 20	595	0.6−	0.9+	1998 12 22	691	0.4−	0.0	2000 03 04	691	0.3+	0.6−
1998 11 20	595	0.4−	0.1+	1998 12 22	691	0.2−	0.0	2000 03 11	704	0.3+	0.1+
1998 11 20	595	0.1−	0.4+	2000 02 29	704	0.1−	0.5−	2000 03 11	704	0.4−	0.4+
1998 11 23	699	0.5−	0.1−	2000 02 29	704	1.2+	0.6+	2000 03 11	704	0.1−	0.2+
1998 11 23	699	0.5−	1.7−	2000 02 29	704	0.2−	0.7+	2000 03 11	704	0.7+	0.5−
1998 11 23	699	0.6+	0.1−	2000 02 29	704	0.7−	0.7+	2000 03 11	704	0.1+	1.3+
1998 11 24	704	1.4+	0.8−	2000 03 03	704	0.0	0.2+	2000 03 11	699	0.4−	0.8+
1998 11 24	704	0.4+	0.2+	2000 03 03	704	0.6+	0.4−	2000 03 11	699	0.7−	0.5+
1998 11 24	704	0.7−	0.9+	2000 03 03	704	0.5+	0.3+	2000 03 11	699	0.4−	0.5−
1998 11 24	704	(4.5−	1.8+)	2000 03 03	704	0.1+	0.5−	2000 03 11	699	0.0	0.5−

1998 VY₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	151.07917		(2000.0)	P	Q		
<i>n</i>	0.27995179	ω	274.53162	+0.91011803	−0.39964206		
<i>a</i>	2.3142693	Ω	109.05557	+0.41101924	+0.83734957		
<i>e</i>	0.1942117	<i>i</i>	6.64730	+0.05242480	+0.37300393		
<i>P</i>	3.52	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1980 07 12	413	0.7−	0.5+	1998 11 18	399	(0.5−	2.4−)	1999 01 11	704	1.0+	0.1−
1980 07 12	413	0.3+	1.2+	1998 11 18	399	0.5−	0.7−	1999 01 11	704	(2.4−	0.6−)
1989 03 08	675	0.9−	0.5+	1998 11 19	399	(0.5−	3.8−)	1999 01 11	704	1.2−	0.8+
1989 03 08	675	0.6+	1.3−	1998 11 19	399	1.4−	1.5−	1999 02 04	699	0.2−	0.1−
1991 12 07	675	0.3−	0.5−	1998 11 22	399	(1.2−	3.8−)	1999 02 04	699	1.1−	0.6−
1991 12 07	675	0.7+	0.5−	1998 11 22	399	(1.3−	2.5−)	1999 02 04	699	0.2+	1.7+
1998 10 19	699	1.3+	0.1−	1998 12 10	399	0.1+	0.5−	2000 03 11	699	0.4+	0.2+
1998 10 19	699	0.0	0.4−	1998 12 10	399	1.7−	0.5+	2000 03 11	699	0.2+	0.0
1998 10 19	699	0.3+	0.3−	1998 12 11	699	0.6+	0.5+	2000 03 11	699	1.3+	0.5+
1998 10 28	399	0.7+	0.6−	1998 12 11	699	0.9+	0.1−	2000 03 11	699	1.3+	0.1+
1998 10 28	399	1.2−	1.6+	1998 12 11	699	0.7+	0.7−	2000 03 12	703	1.5−	0.4+
1998 11 12	399	0.8−	0.7+	1999 01 10	699	0.3−	0.1−	2000 03 12	703	0.1−	1.0+
1998 11 12	399	0.6−	1.7+	1999 01 10	699	0.2+	0.4−	2000 03 12	703	0.2+	0.2+
1998 11 14	699	0.1−	0.2+	1999 01 10	699	0.1+	0.3−	2000 03 12	703	0.5−	0.4+
1998 11 14	699	0.0	0.3+	1999 01 11	704	0.8+	1.2+				
1998 11 14	699	0.6+	0.2+	1999 01 11	704	0.9+	0.6+				

1998 VD₃₆ = 2000 DE₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	190.43510		(2000.0)	P	Q		
<i>n</i>	0.26996632	ω	206.47151	+0.79706159	+0.60191965		
<i>a</i>	2.3709897	Ω	116.43531	−0.54394485	+0.75071278		
<i>e</i>	0.2205327	<i>i</i>	3.12679	−0.26232961	+0.27225549		
<i>P</i>	3.65	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 08 11	675	0.6−	0.1+	1998 11 14	704	0.6+	0.4+	2000 02 28	704	0.5−	0.9+
1994 08 11	675	0.1+	1.3+	1998 11 18	704	0.9+	1.2+	2000 02 28	704	0.0	0.9+
1998 10 20	699	0.8−	0.4−	1998 11 18	704	0.2−	0.7+	2000 03 03	704	0.3+	0.1−
1998 10 20	699	0.1+	0.3−	1998 11 18	704	0.6+	0.8−	2000 03 03	704	1.0+	0.4−
1998 10 20	699	1.0−	0.4−	1998 11 18	704	0.0	0.7+	2000 03 03	704	0.7+	0.0
1998 11 11	699	0.6+	0.6−	1998 11 24	699	0.5−	0.2+	2000 03 04	704	0.6−	0.1+
1998 11 11	704	0.0	0.5−	1998 11 24	699	0.3+	0.7+	2000 03 04	704	0.3−	1.1−
1998 11 11	704	0.1+	0.5−	1998 11 24	699	0.5+	0.2+	2000 03 04	704	(0.1−	2.6−)
1998 11 11	699	0.3+	0.1−	2000 02 11	704	1.0+	0.9+	2000 03 05	704	0.4+	0.2+
1998 11 11	704	0.6−	1.1−	2000 02 11	704	0.0	1.1+	2000 03 05	704	0.4−	0.1+
1998 11 11	699	0.6−	0.1+	2000 02 11	704	0.1−	0.6+	2000 03 05	704	0.9+	0.2+
1998 11 14	704	0.1−	0.1−	2000 02 11	704	(1.5−	2.3+)	2000 03 09	704	0.3+	0.1−
1998 11 14	704	0.5−	0.7+	2000 02 28	704	0.7−	0.3−	2000 03 09	704	0.7−	0.8−
1998 11 14	704	0.1+	0.5−	2000 02 28	704	0.7−	0.1−	2000 03 09	704	0.9+	0.5+
1998 11 14	704	0.2+	0.6+	2000 02 28	704	0.1−	0.1+	2000 03 09	704	0.6−	1.0−

1998 VO₃₈ = 1981 UO₁₃

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

$\dot{M}$	59.04961		(2000.0)	P	Q
n	0.17620965	ω	201.44942	+0.11243166	-0.98673993
a	3.1510087	Ω	242.25900	+0.92982311	+0.14602089
e	0.1902502	i	7.60044	+0.35041135	-0.07086754
P	5.59	H	13.1	G 0.15	U 1

2000 MAR. 20

M.P.C. 39277

1986 08 28	413	1.3+	0.5+	1998 12 09	120	0.4+	0.2+	2000 01 11	704	0.1-	0.4+
1989 03 08	413	0.5+	0.5-	1998 12 09	120	0.2+	0.1+	2000 01 11	704	0.2-	1.2-
1989 03 08	413	0.2-	0.3+	1998 12 12	120	0.0	0.3+	2000 01 11	704	(1.6-	2.2-)
1992 08 29	675	0.7-	0.5+	1998 12 12	120	0.2+	0.6+	2000 02 07	704	0.8-	0.3-
1992 08 29	675	0.2+	0.1+	1998 12 12	120	0.1-	0.2+	2000 02 07	704	0.8-	0.4-
1998 10 19	699	0.8+	0.1-	1998 12 12	120	0.0	0.2+	2000 02 07	704	0.1-	0.3-
1998 10 19	699	0.3-	0.0	1998 12 12	120	0.5-	0.3+	2000 02 07	704	0.1-	0.2-
1998 10 19	699	0.4+	0.1-	1998 12 14	120	0.3-	0.6+	2000 02 07	704	0.6+	0.7+
1998 11 10	704	0.6-	0.1+	1998 12 14	120	0.9+	0.3+	2000 02 08	704	0.2-	0.2-
1998 11 10	704	0.2-	1.2-	1998 12 14	120	0.2+	0.4+	2000 02 08	704	0.2-	0.4+
1998 11 10	704	0.9-	0.5+	1999 01 06	699	0.2+	0.1+	2000 02 08	704	0.2-	0.2+
1998 11 10	704	0.5-	0.6-	1999 01 06	699	0.2+	0.2+	2000 02 08	704	0.1-	0.8+
1998 11 10	704	0.4-	0.4-	1999 01 06	699	1.1-	0.9+	2000 02 08	704	0.3+	1.5+
1998 11 11	704	0.9-	0.5+	1999 02 02	699	0.5+	0.3-	2000 03 02	106	0.1-	0.1-
1998 11 11	704	0.6-	0.0	1999 02 02	699	0.7-	1.2-	2000 03 03	106	0.3+	0.1-
1998 11 11	704	0.4-	0.7-	1999 02 02	699	0.9-	0.0	2000 03 03	106	0.0	0.2+
1998 11 11	704	0.6-	0.0	1999 02 04	704	0.4+	1.4-	2000 03 08	704	0.3+	0.0
1998 11 11	704	0.1+	0.2+	1999 02 04	704	0.7+	0.4+	2000 03 08	704	0.8+	0.0
1998 11 20	699	1.0+	0.1+	1999 02 04	704	1.1+	0.1+	2000 03 08	704	0.1+	0.4+
1998 11 20	699	0.8+	0.5+	1999 02 04	704	1.3+	1.3-	2000 03 08	704	0.9+	0.2+
1998 11 20	699	0.2+	0.4+	1999 02 04	704	(3.0-	1.8+)				

1998 VX₄₄ = 2000 AO₁₉₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	84.41171	(2000.0)		P	Q		
<i>n</i>	0.17791587	ω	239.74500	+0.93190637	-0.17065226		
<i>a</i>	3.1308308	Ω	128.09363	+0.22260228	+0.96576507		
<i>e</i>	0.1126274	<i>i</i>	23.99530	-0.28635423	+0.19538589		
<i>P</i>	5.54	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 30	699	0.5-	0.3+	1999 12 03	704	0.5+	0.2-	2000 01 11	704	0.4-	0.5+
1998 09 30	699	0.4-	0.6+	1999 12 03	704	0.1+	1.0-	2000 01 11	704	0.0	0.3+
1998 09 30	699	0.5-	0.3+	1999 12 03	704	0.5+	0.3-	2000 01 11	704	0.2-	0.5+
1998 11 13	809	0.3+	0.4-	1999 12 03	704	0.1-	0.7-	2000 01 11	704	0.1-	0.4+
1998 11 13	809	0.1+	0.7-	2000 01 08	704	0.1-	0.6+	2000 01 11	704	0.0	0.3+
1998 11 15	809	(0.8+	2.5+)	2000 01 08	704	0.0	0.2+	2000 02 04	704	0.4-	0.6-
1998 11 15	809	0.5+	0.8-	2000 01 08	704	0.1+	0.4+	2000 02 04	704	0.2-	0.5-
1998 11 18	809	0.2+	0.5+	2000 01 08	704	0.0	0.1+	2000 02 04	704	0.1+	0.0
1998 11 18	809	0.5+	0.2+	2000 01 08	704	0.1+	0.1+				

1998 WK

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	141.82635	(2000.0)		P	Q		
<i>n</i>	0.23373073	ω	140.32680	+0.90590280	-0.42203312		
<i>a</i>	2.6101101	Ω	244.66928	+0.37802999	+0.84319161		
<i>e</i>	0.1305410	<i>i</i>	2.22210	+0.19087549	+0.33304048		
<i>P</i>	4.22	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 16	684	0.2-	0.1+	1998 12 10	684	0.5-	0.6+	2000 02 29	684	0.3-	0.5-
1998 11 16	684	0.1+	0.1+	1998 12 10	684	0.1+	0.6+	2000 02 29	684	0.2-	0.1+
1998 11 16	684	0.1-	0.1+	1998 12 12	684	0.0	0.4+	2000 03 02	684	0.2-	0.2+
1998 11 17	684	0.4-	0.0	1998 12 12	684	0.1+	0.3+	2000 03 02	684	0.2-	0.2-
1998 11 17	684	0.4-	0.1+	1999 01 05	684	0.0	0.7-	2000 03 02	684	0.3+	0.1-
1998 11 21	684	0.1+	0.3-	1999 01 05	684	0.4+	0.6-	2000 03 11	704	0.4+	0.2+
1998 11 21	684	0.2+	0.1-	1999 01 06	684	0.1+	0.0	2000 03 11	704	0.4+	0.3+
1998 11 22	684	0.1-	0.3-	1999 01 06	684	0.0	0.1-	2000 03 11	704	0.6-	0.1-
1998 11 25	684	0.5+	0.0	1999 01 07	684	0.3-	0.0	2000 03 11	704	0.2+	0.1-
1998 11 25	684	0.6+	0.1+	1999 01 07	684	0.2-	0.2-	2000 03 11	704	0.2+	0.5+

1998 WD₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	101.66522	(2000.0)		P	Q		
<i>n</i>	0.17099006	ω	262.64340	+0.79361906	-0.54499375		
<i>a</i>	3.2148112	Ω	129.95054	+0.59584252	+0.78610605		
<i>e</i>	0.1597983	<i>i</i>	20.65927	-0.12304664	+0.29158034		
<i>P</i>	5.76	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 13	704	0.4+	0.4-	1999 01 15	703	0.1+	1.4-	2000 03 04	704	0.6+	0.4+
1998 11 13	704	(2.2+	0.7-)	1999 01 15	703	0.6-	0.7-	2000 03 04	704	0.5+	0.9+
1998 11 13	704	0.5-	0.6+	1999 01 15	703	0.7+	0.6-	2000 03 04	704	0.5+	1.0+
1998 11 13	704	(3.4-	0.3-)	2000 02 03	704	0.6+	0.2+	2000 03 12	703	0.3-	0.4-
1998 11 16	703	0.5+	0.1-	2000 02 03	704	0.2-	0.4+	2000 03 12	703	0.1-	0.6+
1998 11 16	703	0.0	0.3-	2000 02 03	704	0.6+	0.7+	2000 03 12	704	0.8-	0.6-
1998 11 16	703	0.5+	0.4+	2000 02 03	704	0.2+	0.1-	2000 03 12	703	0.9-	0.2+
1998 11 18	703	0.1-	0.6-	2000 02 03	704	0.1-	0.4+	2000 03 12	704	0.1+	1.3-
1998 11 18	703	0.4-	0.9-	2000 02 06	703	0.1+	0.2-	2000 03 12	703	0.1-	0.9-
1998 12 19	704	1.4+	0.3-	2000 02 06	703	0.0	0.3+	2000 03 12	704	0.3-	0.6-
1998 12 19	704	0.2+	0.1+	2000 02 06	703	0.2-	1.0-	2000 03 12	704	0.1-	0.1+
1998 12 19	704	1.0-	0.9+	2000 02 06	703	0.3-	0.1+	2000 03 12	704	0.2+	0.6-
1998 12 19	704	0.4-	1.7+	2000 03 04	704	0.1-	0.2+				
1998 12 19	704	0.8-	1.1+	2000 03 04	704	0.3+	0.1+				

1998 WG₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Gnädig			
<i>M</i>	130.30539	(2000.0)		P	Q		
<i>n</i>	0.28132834	ω	217.60200	+0.50399289	-0.84676367		
<i>a</i>	2.3067139	Ω	203.65617	+0.85898037	+0.51199561		
<i>e</i>	0.2406409	<i>i</i>	25.10528	+0.09024355	-0.14440148		
<i>P</i>	3.50	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1979 06 16	413	0.4-	0.0	1998 08 31	704	(0.1+	3.1-)	1998 11 18	703	0.1-	0.8+
1979 06 16	413	0.7+	1.0-	1998 08 31	704	(0.1-	2.3+)	1998 11 19	703	0.3-	0.1-
1990 06 20	675	0.8-	0.6+	1998 10 12	699	0.7+	0.5+	1998 11 19	703	0.1-	0.1-
1990 06 20	675	0.6+	0.2-	1998 10 12	699	1.0+	0.3+	1998 11 21	703	0.0	0.4-
1991 10 14	675	0.3-	1.3-	1998 10 12	699	0.2+	0.1+	1998 11 21	703	0.4-	0.3-
1998 08 31	704	0.9-	0.4-	1998 11 18	703	0.2+	0.0	1998 12 19	704	0.3+	0.6+
1998 08 31	704	0.2+	0.2+	1998 11 18	703	0.5-	0.4-	1998 12 19	704	(1.7+	2.7-)

1998 WG₂

Id. P. G. Comba (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	38.52747	(2000.0)		P	Q		
<i>n</i>	0.17034588	ω	334.31612	-0.56131566	-0.82739754		
<i>a</i>	3.2229108	Ω	149.82062	+0.76547584	-0.52749602		
<i>e</i>	0.1506129	<i>i</i>	2.09601	+0.31459732	-0.19277256		
<i>P</i>	5.79	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 19	684	0.3-	0.0	1999 01 15	684	0.2+	0.1-	2000 03 10	684	0.3-	0.7-
1998 11 19	684	0.3-	0.8+	1999 01 15	684	0.7+	0.0	2000 03 10	704	0.6+	1.9+
1998 11 20	684	0.5+	0.0	1999 01 16	684	0.0	0.4+	2000 03 10	704	0.6+	1.0+
1998 11 20	684	0.4-	0.1+	1999 01 16	684	0.7-	0.2+	2000 03 10	704	0.6+	1.2+
1998 11 25	684	0.0	0.3-	2000 02 29	684	0.1+	1.4-	2000 03 10	704	1.2+	1.1+
1998 11 25	684	0.1+	0.2-	2000 02 29	684	0.4+	1.7-	2000 03 10	704	0.2+	1.7+
1998 11 26	684	0.2-	0.5-	2000 03 02	684	0.3+	1.3-	2000 03 10	120	(2.3-	0.7+)
1998 11 26	684	0.2+	0.5-	2000 03 02	684	0.2+	1.2-	2000 03 11	120	0.6-	0.3-
1998 12 10	684	0.1+	0.1+	2000 03 05	120	1.4-	1.1+	2000 03 14	703	0.7+	0.6+
1998 12 10	684	0.1-	0.1+	2000 03 05	120	0.4-	1.2-	2000 03 14	703	0.3+	1.2+
1998 12 11	684	0.2+	0.3+	2000 03 06	120	1.0-	0.9-	2000 03 14	703	(2.5+	1.6+)
1998 12 11	684	0.0	0.0	2000 03 06	120	1.7-	0.6-	2000 03 14	703	0.1-	1.0+
1999 01 06	684	0.0	0.2-	2000 03 06	120	0.5+	1.0-				
1999 01 06	684	0.1+	0.1+	2000 03 10	684	0.1+	0.7-				

1998 WJ₂ = 2000 CW₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	34.74264		(2000.0)	P		Q	
<i>n</i>	0.17881378	ω	200.46101	−0.45718502	−0.87142367		
<i>a</i>	3.1203410	Ω	277.10672	+0.83886773	−0.35612233		
<i>e</i>	0.0753557	<i>i</i>	10.32011	+0.29543661	−0.33733909		
<i>P</i>	5.51	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 19	595	0.2+	0.9+	1998 12 17	704	(2.1−	1.9−)	2000 02 08	704	0.5−	0.0
1998 11 19	595	0.2−	0.3+	1999 01 19	595	0.6−	0.2+	2000 02 08	704	0.1−	0.2−
1998 11 19	595	0.1−	0.2+	1999 01 19	595	0.0	0.4+	2000 02 13	704	0.1+	1.0+
1998 11 19	595	0.1+	0.1+	1999 01 20	595	0.1+	0.1+	2000 02 13	704	0.8+	1.2−
1998 11 26	595	0.3+	0.2+	1999 01 20	595	0.6−	0.2−	2000 02 13	704	0.4−	0.1+
1998 11 26	595	0.5+	1.2+	2000 01 11	699	0.2+	1.7+	2000 03 03	703	0.1−	0.6−
1998 12 14	704	0.1−	0.8+	2000 01 11	699	0.6+	0.7+	2000 03 03	703	0.0	0.1+
1998 12 14	704	0.3−	0.5+	2000 01 11	704	0.4+	1.7−	2000 03 03	703	0.3+	0.2−
1998 12 14	704	0.6−	1.0−	2000 01 11	699	0.9−	0.3−	2000 03 03	703	0.2−	0.8−
1998 12 14	704	1.1+	0.4+	2000 01 11	704	0.2+	0.7−	2000 03 08	704	0.4+	0.2−
1998 12 15	595	0.1+	0.4−	2000 01 11	704	1.0−	0.5−	2000 03 08	704	0.9+	0.7−
1998 12 15	595	0.2+	0.4−	2000 02 07	703	1.0−	0.6−	2000 03 08	704	0.5−	0.0
1998 12 16	595	0.0	0.1−	2000 02 07	703	0.4+	0.7+	2000 03 08	704	0.8+	0.5+
1998 12 16	595	0.2+	0.0	2000 02 07	703	0.4−	0.5+	2000 03 08	704	0.9+	0.1−
1998 12 17	704	0.1−	0.6−	2000 02 07	703	0.4−	0.7+	2000 03 14	703	0.3−	1.4+
1998 12 17	704	0.4−	1.1−	2000 02 08	704	0.4+	0.6+	2000 03 14	703	0.5−	0.4−
1998 12 17	704	0.1+	1.5−	2000 02 08	704	0.2−	0.3+	2000 03 14	703	(3.2−	1.9−)
1998 12 17	704	(0.6+	2.2−)	2000 02 08	704	0.5+	0.5+	2000 03 14	703	0.3−	0.3−

1998 WO₃ = 2000 EU₉₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	143.74447		(2000.0)	P		Q	
<i>n</i>	0.18533845	ω	117.96171	+0.85861560	−0.49017573		
<i>a</i>	3.0466720	Ω	271.74001	+0.40158598	+0.82508194		
<i>e</i>	0.0254141	<i>i</i>	8.63229	+0.31860311	+0.28101164		
<i>P</i>	5.32	<i>H</i>	12.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 19	411	0.6+	0.1+	1998 12 26	411	0.5−	0.7+	2000 02 10	704	0.9+	0.4+
1998 11 19	411	0.2+	0.7+	1998 12 26	411	0.1+	0.2−	2000 02 10	704	0.2+	0.5+
1998 11 20	411	0.4+	0.3−	2000 01 10	704	1.3−	0.1+	2000 02 10	704	0.1−	0.0
1998 11 20	411	0.2+	0.3+	2000 01 10	704	0.4−	0.8−	2000 03 09	704	0.2+	0.8+
1998 11 28	411	1.5+	0.4+	2000 01 10	704	0.3+	0.4+	2000 03 09	704	0.1+	0.7+
1998 11 28	411	0.3−	0.9+	2000 01 10	704	0.0	0.1−	2000 03 09	704	0.1+	0.1−
1998 12 15	704	1.9−	1.6−	2000 01 10	704	0.8−	1.0−	2000 03 09	704	0.1−	0.1+
1998 12 15	704	1.7+	0.0	2000 01 11	704	1.8−	0.6−	2000 03 09	704	0.1+	0.9+
1998 12 15	704	1.1+	0.5−	2000 01 11	704	0.5+	0.2−	2000 03 13	704	0.1+	0.2−
1998 12 15	704	0.2−	1.1−	2000 01 11	704	0.1+	0.8−	2000 03 13	704	0.1−	0.0
1998 12 15	704	0.9−	0.6+	2000 01 11	704	0.6−	0.9+	2000 03 13	704	0.4+	0.1+
1998 12 16	411	0.5−	0.4+	2000 01 11	704	1.1+	0.2−	2000 03 13	704	0.9+	1.0−
1998 12 16	411	1.2−	0.0	2000 02 10	704	0.4−	0.1−				

1998 WD₄ = 2000 EV₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	171.99015		(2000.0)	P		Q	
<i>n</i>	0.27003691	ω	193.77428	+0.99980836	−0.01656246		
<i>a</i>	2.3705765	Ω	167.16108	+0.01919046	+0.93454627		
<i>e</i>	0.2154065	<i>i</i>	2.69202	−0.00386851	+0.35545598		
<i>P</i>	3.65	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 06 07	809	0.2−	0.3+	1998 12 07	620	0.1−	0.1−	1998 12 22	704	0.5+	1.2−
1997 06 07	809	0.3−	0.4+	1998 12 11	620	0.5+	0.2+	1998 12 22	704	1.0+	0.0
1997 06 07	809	0.4+	0.8−	1998 12 11	620	0.3+	0.1−	1998 12 22	704	(2.2−	0.0)
1998 11 20	620	0.0	0.1+	1998 12 12	620	0.0	0.3−	2000 03 10	704	0.4−	0.3−
1998 11 21	620	0.4−	0.2−	1998 12 12	620	0.3−	0.5−	2000 03 10	704	0.1+	0.9−

1998 11 21	620	0.4−	0.2−	1998 12 15	704	(2.5+	0.5−)	2000 03 10	704	0.1+	1.2−
1998 11 21	620	0.3+	0.1+	1998 12 15	704	0.4−	0.4+	2000 03 11	704	0.1−	0.7−
1998 11 21	620	0.4+	0.3+	1998 12 15	704	1.1−	1.5+	2000 03 11	704	0.4−	0.2+
1998 11 21	620	0.2+	0.6+	1998 12 15	704	1.4−	0.5+	2000 03 11	704	0.1−	0.4+
1998 12 07	620	1.5+	0.4+	1998 12 15	704	1.5−	0.8−	2000 03 11	704	0.2+	1.4+
1998 12 07	620	0.4+	0.1+	1998 12 22	704	0.6+	1.0−	2000 03 11	704	0.6+	1.4+

1998 WF₄ = 1987 UV₆ = 1995 GA₉

Id. A. Gnädig, S. Nakano, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	116.70630		(2000.0)	P		Q	
<i>n</i>	0.18142195	ω	312.57320	+0.98700217	−0.15581669		
<i>a</i>	3.0903631	Ω	56.42744	+0.15778479	+0.89309451		
<i>e</i>	0.2282946	<i>i</i>	2.70652	+0.03050706	+0.42202293		
<i>P</i>	5.43	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1985 03 23	413	0.7+	1.1−	1998 11 20	699	0.6−	0.6+	1998 12 11	699	1.6+	0.2−
1987 10 27	095	0.1+	1.7−	1998 11 20	699	0.1−	0.1−	1998 12 11	699	1.5+	0.1−
1994 01 11	675	0.5−	0.1+	1998 11 21	704	1.0−	0.6−	1998 12 14	704	0.2−	1.0−
1994 01 11	675	1.9+	0.1−	1998 11 21	704	1.2−	0.4−	1998 12 14	704	0.2+	0.3+
1995 04 04	691	1.0−	0.9−	1998 11 21	704	1.0−	0.3−	1998 12 14	704	0.3−	0.5−
1995 04 04	691	1.1−	0.3−	1998 11 21	704	1.6−	0.6+	1998 12 14	704	0.8+	0.9−
1995 04 04	691	1.1−	0.5−	1998 11 24	704	0.4−	0.0	1998 12 19	691	0.1−	0.2+
1998 08 31	704	1.5+	0.2+	1998 11 24	704	0.6−	0.1−	1998 12 19	691	0.1−	0.3+
1998 08 31	704	0.5+	0.5+	1998 11 24	704	0.1+	0.2+	1998 12 19	691	0.2+	0.1+
1998 08 31	704	1.6+	0.5+	1998 11 24	704	0.2−	0.5+	1998 12 23	691	0.2+	0.2−
1998 11 18	704	0.2−	0.6−	1998 11 24	704	0.1+	1.8+	1998 12 23	691	0.4+	0.1+
1998 11 18	704	0.4+	1.8−	1998 11 25	699	0.6+	0.7+	1998 12 23	691	0.0	0.3−
1998 11 18	704	(0.3+	2.4−)	1998 11 25	699	0.7−	0.8+	2000 02 03	704	0.6−	0.5+
1998 11 18	704	(1.9−	2.2−)	1998 11 25	699	0.5+	0.0	2000 02 03	704	1.4+	1.4+
1998 11 18	704	(2.5−	2.4−)	1998 12 08	699	0.1+	0.7−	2000 02 03	704	0.0	0.4−
1998 11 18	399	1.4+	0.4−	1998 12 08	699	0.6+	0.2−	2000 02 03	704	0.3−	0.8+
1998 11 18	399	0.0	0.0	1998 12 08	699	0.8+	0.4−	2000 02 11	704	0.3+	0.5−
1998 11 19	399	1.4−	0.4+	1998 12 10	399	(5.3−	2.4+)	2000 02 11	704	0.2+	0.1+
1998 11 19	399	1.3−	0.8+	1998 12 10	399	(5.5−	1.9+)	2000 02 11	704	0.4−	0.4+
1998 11 20	699	0.2−	0.3+	1998 12 11	699	(0.1+	2.4−)	2000 02 11	704	0.9+	0.1−

1998 WK₄

Id. P. G. Comba (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	133.74596		(2000.0)	P		Q	
<i>n</i>	0.22092405	ω	307.21598	+0.93389687	−0.35426358		
<i>a</i>	2.7100297	Ω	73.57746	+0.34192282	+0.84540676		
<i>e</i>	0.2401074	<i>i</i>	2.88698	+0.10452480	+0.39973083		
<i>P</i>	4.46	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 21	684	0.2−	0.1−	1998 12 12	684	0.0	0.3+	1999 01 16	684	0.1+	0.9−
1998 11 21	684	0.2−	0.1+	1998 12 12	684	0.1−	0.1+	1999 01 16	684	0.1+	0.8+
1998 11 22	684	0.2−	0.0	1998 12 13	684	0.1−	0.4−	2000 03 02	684	0.0	0.1+
1998 11 22	684	0.0	0.1−	1998 12 13	684	0.1+	0.1−	2000 03 02	684	0.3+	0.3+
1998 11 25	684	0.2+	0.1−	1999 01 07	684	0.2+	0.3−	2000 03 03	684	0.1+	0.2−
1998 11 25	684	0.2+	0.0	1999 01 07	684	0.2−	0.6−	2000 03 03	684	0.3−	0.1−
1998 11 26	684	0.1+	0.3+	1999 01 15	684	0.3+	0.3+				
1998 11 26	684	0.2+	0.2+	1999 01 15	684	0.6−	0.7+				

1998 WQ₄ = 2000 DO_{21</}

2000 MAR. 20

M.P.C. 39279

Residuals in seconds of arc

1998 11 18	703	0.5+	0.4-	2000 02 04	704	0.7-	0.6-	2000 03 03	704	0.6+	0.6-
1998 11 18	703	0.6+	0.3-	2000 02 27	703	0.1+	0.4+	2000 03 03	704	0.7-	0.3-
1998 11 18	703	1.2+	0.3+	2000 02 27	703	0.5-	0.4+	2000 03 04	691	0.2+	0.4+
1998 11 22	703	0.2-	0.5+	2000 02 27	703	1.1-	0.2-	2000 03 04	691	0.1-	1.0-
1998 11 22	703	1.0+	0.4+	2000 02 27	703	0.8-	0.0	2000 03 04	691	0.2-	1.0-
1998 12 20	703	1.3-	0.1-	2000 02 29	704	0.1-	0.2-	2000 03 05	704	0.8+	0.1-
1998 12 20	703	0.9-	0.5-	2000 02 29	704	(2.1+ 0.8+)		2000 03 05	704	0.3+	0.5-
1998 12 20	703	1.6-	0.1-	2000 02 29	704	0.7+	0.2-	2000 03 05	704	0.2+	0.2-
2000 02 02	704	0.1+	0.1-	2000 02 29	704	0.7+	0.0	2000 03 05	704	1.2+	0.8-
2000 02 02	704	1.0+	0.4+	2000 02 29	704	0.9+	0.1-	2000 03 11	704	0.8+	0.2+
2000 02 02	704	0.0	0.3+	2000 03 02	691	0.1+	0.3-	2000 03 11	704	0.4-	0.4+
2000 02 02	704	0.3+	0.1+	2000 03 02	691	0.1-	0.6-	2000 03 11	704	0.5-	0.6+
2000 02 02	704	0.3-	0.7+	2000 03 02	691	0.4+	0.5-	2000 03 11	704	0.1-	0.9+
2000 02 04	704	0.7-	1.7+	2000 03 03	704	0.5-	0.6-	2000 03 11	704	0.2+	1.5+
2000 02 04	704	1.3-	0.0	2000 03 03	704	0.0	0.8-				
2000 02 04	704	1.0-	0.4+	2000 03 03	704	0.5+	0.3+				

1998 WM₅ = 2000 EG₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	319.81549		(2000.0)	P	Q
<i>n</i>	0.28661643	ω	182.29200	-0.61944225	+0.78252567
<i>a</i>	2.2782532	Ω	49.44017	-0.71894062	-0.53333235
<i>e</i>	0.0878061	<i>i</i>	4.74218	-0.31530252	-0.32126341
<i>P</i>	3.44	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 11 20	888	0.1-	0.2+	1998 11 25	888	0.8+	0.5-	2000 03 08	888	0.4+	0.3+
1998 11 20	888	0.5-	0.2+	1998 11 29	888	0.0	0.4+	2000 03 08	888	0.2-	0.1-
1998 11 22	888	0.2-	0.5-	1998 11 29	888	0.1-	0.8+	2000 03 08	888	0.2+	0.5-
1998 11 22	888	0.2-	0.0	1998 12 11	888	0.1+	1.1+	2000 03 10	888	0.4-	0.4+
1998 11 25	888	0.2+	0.5-	1998 12 20	888	0.2+	0.3+	2000 03 10	888	0.0	0.2-
1998 11 25	888	0.5+	0.5-	1998 12 20	888	0.7-	1.0-				

1998 WN₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	67.32853		(2000.0)	P	Q
<i>n</i>	0.21806608	ω	30.02739	-0.20980085	-0.96201187
<i>a</i>	2.7336566	Ω	72.55672	+0.85666578	-0.26698181
<i>e</i>	0.1564066	<i>i</i>	10.55102	+0.47128265	+0.05704278
<i>P</i>	4.52	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 11 11	704	0.1-	1.1-	1998 11 23	860	0.9-	0.3+	1998 12 15	910	0.3+	0.0
1998 11 11	704	1.3+	0.4-	1998 11 24	704	0.3+	0.0	1998 12 15	910	0.2+	0.0
1998 11 11	704	0.3+	0.3-	1998 11 24	704	0.0	0.3-	1998 12 15	910	0.4+	0.0
1998 11 11	699	0.4-	0.5-	1998 11 24	704	0.2-	0.2+	1998 12 16	747	0.3-	1.2+
1998 11 11	704	1.1-	0.3-	1998 11 24	704	0.1+	0.1+	1998 12 16	747	0.2+	1.1+
1998 11 11	699	0.1-	1.4-	1998 11 24	704	1.6+	0.9+	1998 12 16	747	0.4-	1.5+
1998 11 11	699	0.9-	1.0-	1998 11 26	355	0.7-	0.9+	1998 12 20	691	1.3-	1.4-
1998 11 18	704	0.6+	0.4+	1998 11 26	355	0.0	0.0	1998 12 20	691	1.0-	0.4+
1998 11 18	704	0.6+	0.0	1998 11 26	355	0.3-	1.0+	1998 12 20	691	0.9-	0.6+
1998 11 18	704	0.5-	0.9+	1998 11 29	900	0.4-	0.0	1999 01 24	691	0.9-	0.6+
1998 11 18	704	(0.7+ 2.6+)		1998 11 29	900	0.3-	0.1-	1999 01 24	691	0.7-	1.3-
1998 11 18	704	0.8+	0.3+	1998 12 07	910	0.8+	0.1-	1999 01 24	691	1.4-	0.2-
1998 11 20	860	0.8+	0.5-	1998 12 07	910	0.5+	0.3-	2000 03 11	858	0.1-	0.0
1998 11 20	860	0.6-	0.3-	1998 12 08	910	0.7+	0.3-	2000 03 11	858	0.2-	0.1+
1998 11 21	704	0.1-	0.4+	1998 12 08	910	1.2+	0.4-	2000 03 11	858	0.1-	0.2+
1998 11 21	704	0.5+	0.0	1998 12 08	910	1.1+	0.4-	2000 03 12	858	0.0	0.7-
1998 11 21	704	0.2+	0.9-	1998 12 08	910	1.2+	0.4-	2000 03 12	858	0.2+	0.2-
1998 11 21	704	0.3-	1.4-	1998 12 14	747	0.1+	0.6+	2000 03 12	858	0.4-	0.4-
1998 11 21	704	0.5-	0.3-	1998 12 14	747	0.1-	0.7+				
1998 11 23	860	0.5-	0.0	1998 12 14	747	0.2+	0.9+				

1998 WV₈ = 2000 ES₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	206.03758		(2000.0)	P	Q
<i>n</i>	0.26264962	ω	249.55578	+0.73482937	+0.67725792
<i>a</i>	2.4148206	Ω	67.79468	-0.60657171	+0.68042279
<i>e</i>	0.1799691	<i>i</i>	2.27232	-0.30347416	+0.27990453
<i>P</i>	3.75	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1997 06 01	566	1.3-	0.5-	1998 11 29	758	(0.7+ 3.4-)	1998 12 25	327	0.0	0.1+	
1997 06 01	566	0.1+	0.7-	1998 12 08	699	1.3+	1.3+	2000 02 06	695	0.5-	0.2-
1997 06 01	566	0.8+	0.5-	1998 12 08	699	0.8-	0.6-	2000 02 06	695	0.6-	0.0
1998 11 20	699	1.3-	0.9-	1998 12 08	699	1.3+	0.7-	2000 03 05	704	0.3-	0.4-
1998 11 20	699	1.2+	0.2+	1998 12 13	327	0.7-	0.3-	2000 03 05	704	0.1+	0.2-
1998 11 20	699	1.1+	0.1-	1998 12 13	327	1.0-	0.1-	2000 03 05	704	1.9+	0.2-
1998 11 24	704	(2.0+ 2.2-)		1998 12 13	327	0.6-	0.3-	2000 03 05	704	0.8-	0.2+
1998 11 24	704	0.9+	0.9-	1998 12 14	704	0.4-	0.4+	2000 03 05	704	0.6+	0.5+
1998 11 24	704	1.0+	0.3+	1998 12 14	704	0.3+	1.4-	2000 03 11	699	0.3-	0.4+
1998 11 24	704	1.0+	0.2-	1998 12 14	704	(1.4+ 2.4-)		2000 03 11	699	0.3-	0.3-
1998 11 24	704	0.5-	0.2-	1998 12 14	704	0.7-	1.1+	2000 03 11	699	0.1-	0.1+
1998 11 25	699	0.1-	0.6-	1998 12 17	704	0.9+	0.5+	2000 03 11	699	0.6-	0.1-
1998 11 25	699	0.4+	0.5-	1998 12 17	704	0.2+	1.1-	2000 03 12	704	0.2+	0.2+
1998 11 25	699	0.2-	0.4+	1998 12 17	704	0.7+	1.2+	2000 03 12	704	0.4+	0.8-
1998 11 28	758	1.7-	1.2+	1998 12 17	704	0.1-	1.0-	2000 03 12	704	0.0	0.4-
1998 11 28	758	0.9-	1.2+	1998 12 17	704	0.1+	1.9-	2000 03 12	704	0.2+	1.2+
1998 11 28	758	1.3-	1.2+	1998 12 25	327	0.3+	0.0	2000 03 12	704	0.3+	0.3+
1998 11 29	758	(0.9+ 2.5-)		1998 12 25	327	0.1+	0.3-				

1998 WA₉ = 2000 DZ₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	301.08790		(2000.0)	P	Q
<i>n</i>	0.28893406	ω	244.78067	-0.57648917	+0.81680003
<i>a</i>	2.2660538	Ω	349.92464	-0.69626324	-0.50534183
<i>e</i>	0.1637612	<i>i</i>	7.32829	-0.42764207	-0.27832956
<i>P</i>	3.41	<i>H</i>	15.2	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1994 09 06	809	0.7-	0.5+	2000 02 27	120	0.9-	0.3-	2000 03 06	704	0.2+	0.1-
1994 09 06	809	1.2-	1.1+	2000 02 28	120	1.0-	0.5-	2000 03 08	704	0.4-	0.2+
1994 09 06	809	0.6+	0.9+	2000 02 28	120	0.2-	0.3-	2000 03 08	704	0.0	0.1-
1998 11 22	725	0.9+	0.3+	2000 02 29	704	0.0	0.1+	2000 03 08	704	0.7+	1.3+
1998 11 22	725	1.6+	0.3+	2000 02 29	704	0.2+	0.1-	2000 03 08	704	0.3+	1.8+
1998 11 26	725	0.8-	0.2-	2000 02 29	704	0.2-	0.1-	2000 03 08	704	0.2+	1.1+
1998 11 26	725	0.5+	0.4+	2000 02 29	704	0.5+	0.0	2000 03 09	704	0.2+	0.2-
1998 12 09	725	0.2+	1.7+	2000 02 29	704	0.7+	0.1+	2000 03 09	704	0.1-	0.0
1998 12 09	725	0.9-	1.3-	2000 03 03	704	0.3+	0.2-	2000 03 09	704	0.2+	0.3+
1998 12 09	725	1.9-	0.6-	2000 03 03	704	0.3+	0.0	2000 03 09	704	0.2+	0.3+
2000 02 04	704	0.1+	0.6-	2000 03 03	704	0.5+	0.1-	2000 03 09	704	0.4-	0.9+
2000 02 04	704	0.2-	0.8+	2000 03 03	704	0.3+	0.0	2000 03 09	608	0.6+	0.5-
2000 02 04	704	0.2-	0.1+	2000 03 03	704	0.4+	0.6+	2000 03 09	608	0.5+	0.6-
2000 02 04	704	0.4-	0.1+	2000 03 04	704	0.3+	0.2-	2000 03 09	608	0.2-	1.9-
2000 02 04	704	1.3-	0.4-	2000 03 04	704	0.3+	0.5-	2000 03 11	704	0.1+	0.1-
2000 02 11	704	0.0	0.4-	2000 03 04	704	0.3+	0.1+	2000 03 11	704	0.2-	0.2-
2000 02 11	704	0.2-	0.4+	2000 03 04	704	0.2+	0.2+	2000 03 11	704	0.1+	0.3+
2000 02 11	704	0.2+	0.2+	2000 03 04	704	0.7+	0.1-	2000 03 11	699	0.3-	0.1+
2000 02 11	704	0.4-	0.1-	2000 03 05	704	0.3+	0.0	2000 03 11	704	0.2-	0.3+
2000 02 11	704	0.1-	0.2-	2000 03 05	704	0.3+	0.4-	2000 03 11	704	0.1-	0.3+
2000 02 25	703	1.3-	1.0+	2000 03 05	704	0.0	0.1+	2000 03 11	699	0.0	0.4+
2000 02 25	703	1.6+	0.6+	2000 03 05	704	0.2+	0.0	2000 03 11	699	0.1+	0.3-
2000 02 25	703	0.8-	1.0-	2000 03 05	704	0.0	0.1+	2000 03 11	699	0.2-	0.1+
2000 02 25	703	1.1-	0.2-	2000 03 06	704	0.2+	0.2+				
2000 02 27	120	(2.3-	0.4-)	2000 03 06	704	0.3+	0.1+				

1998 WV₁₀ = 2000 EJ₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	244.31928		(2000.0)	P		Q	
<i>n</i>	0.26883587	ω	68.56245	+0.40821777		+0.91267368	
<i>a</i>	2.3776316	Ω	225.54624	−0.84740404		+0.37085522	
<i>e</i>	0.0283784	<i>i</i>	1.57518	−0.33950648		+0.17173575	
<i>P</i>	3.67	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	699	0.1−	0.3+	1998 11 21	704	0.1+	0.5+	1998 12 14	120	(2.3−	2.0−)
1998 11 10	699	0.5+	0.7−	1998 11 21	704	0.5+	0.7−	1998 12 14	120	0.6+	1.9−
1998 11 10	699	0.6+	0.5+	1998 11 21	704	0.2+	0.1−	1998 12 14	120	(6.3+	1.2−)
1998 11 11	704	0.0	0.1+	1998 11 21	704	(0.3−	2.8−)	2000 03 08	704	0.5+	0.4−
1998 11 11	704	1.8+	1.3−	1998 11 23	691	0.8−	0.1+	2000 03 08	704	0.7−	0.3+
1998 11 11	704	0.5−	0.7−	1998 11 23	691	0.9−	0.2+	2000 03 08	704	0.6−	0.3+
1998 11 11	704	0.0	0.6−	1998 11 23	691	0.8−	0.1−	2000 03 08	704	0.5−	0.1−
1998 11 11	120	0.5+	0.1−	1998 11 24	704	0.6+	0.0	2000 03 08	704	0.1−	0.3+
1998 11 11	120	0.8+	0.2+	1998 11 24	704	0.2−	0.1+	2000 03 10	704	0.0	0.4−
1998 11 16	691	1.2−	0.3−	1998 11 24	704	0.9−	0.2−	2000 03 10	704	0.0	0.4−
1998 11 16	566	0.3−	0.5−	1998 11 24	704	0.4+	1.8+	2000 03 10	704	0.1+	0.6−
1998 11 16	691	1.1−	0.0	1998 11 28	120	0.8+	0.9+	2000 03 10	704	0.5+	0.1−
1998 11 16	566	0.4−	0.4−	1998 11 28	120	0.6−	0.7+	2000 03 10	704	0.8+	0.3−
1998 11 16	566	0.3−	0.5−	1998 12 10	691	0.0	0.1+	2000 03 11	704	0.1−	0.2−
1998 11 16	691	0.9−	0.1−	1998 12 10	691	0.4+	0.4+	2000 03 11	704	0.4−	0.1+
1998 11 18	704	0.7+	0.2−	1998 12 10	691	0.2−	0.8+	2000 03 11	704	0.1+	0.1+
1998 11 18	704	0.8+	0.1+	1998 12 14	704	1.3−	0.3−	2000 03 11	704	0.1+	0.6+
1998 11 18	704	0.5+	0.3−	1998 12 14	704	0.7+	0.2−	2000 03 11	704	0.3+	0.7+
1998 11 18	704	0.2−	0.2+	1998 12 14	704	0.7+	0.5+				
1998 11 18	704	0.6−	1.2+	1998 12 14	704	(3.4−	1.3+)				

1998 WA₁₁ = 2000 DN₁₀₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	128.57450		(2000.0)	P		Q	
<i>n</i>	0.22790774	ω	301.12370	+0.87600427		−0.47547601	
<i>a</i>	2.6543815	Ω	87.37707	+0.46547816		+0.78957815	
<i>e</i>	0.0905401	<i>i</i>	4.64314	+0.12627988		+0.38792901	
<i>P</i>	4.32	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 11	699	0.7−	0.9+	1998 11 21	704	0.3+	0.7−	2000 03 05	704	0.2−	0.2−
1998 11 11	699	0.1+	0.2+	1998 11 21	704	0.8−	0.1+	2000 03 05	704	0.1−	0.7+
1998 11 11	699	0.4+	0.5+	1998 11 24	704	0.1+	0.3+	2000 03 05	704	0.0	0.1−
1998 11 18	704	0.6+	0.4+	1998 11 24	704	0.8−	0.9+	2000 03 05	704	0.4+	0.2+
1998 11 18	704	0.4+	0.8−	1998 11 24	704	0.9−	0.7+	2000 03 12	704	0.7+	0.2+
1998 11 18	704	1.0+	0.5−	1998 11 24	704	0.2+	0.6+	2000 03 12	704	0.6+	0.1−
1998 11 18	704	0.3−	1.9−	2000 02 29	704	0.2+	0.5−	2000 03 12	704	0.3+	0.0
1998 11 18	704	(4.6−	1.7−)	2000 02 29	704	0.5−	0.1−	2000 03 12	704	0.3−	0.0
1998 11 21	704	0.5+	0.2+	2000 02 29	704	0.6−	0.2+	2000 03 12	704	0.5−	0.1+
1998 11 21	704	0.2−	1.0−	2000 03 05	704	0.0	0.4−				

1998 WH₁₂ = 2000 DG₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	176.29544		(2000.0)	P		Q	
<i>n</i>	0.26058795	ω	132.71129	+0.94023713		+0.34010478	
<i>a</i>	2.4275405	Ω	207.41815	−0.32212507		+0.87234424	
<i>e</i>	0.1963727	<i>i</i>	2.09321	−0.11040646		+0.35120402	
<i>P</i>	3.78	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 05 07	704	0.2−	0.6−	1998 11 21	704	0.3+	0.3−	1998 12 08	910	0.2+	0.2−
1997 05 07	704	0.7+	0.5−	1998 11 21	704	0.7+	0.1−	1998 12 13	691	0.4−	0.2+
1997 05 07	704	0.4+	0.5−	1998 11 21	704	0.1+	0.2−	1998 12 13	691	1.2−	0.3+
1997 05 07	704	1.3−	0.2−	1998 11 21	704	0.1−	1.8+	1998 12 13	691	1.0−	0.3−
1998 10 13	910	0.2−	0.2−	1998 11 21	704	0.3−	0.3+	1998 12 15	910	0.4+	0.2+
1998 10 13	910	0.3−	0.3−	1998 11 23	691	0.2−	0.2−	1998 12 15	910	0.4+	0.2+

1998 10 13	910	0.3+	0.0	1998 11 23	691	0.1−	0.2−	1998 12 15	910	0.4+	0.3+
1998 10 23	910	0.4+	0.3−	1998 11 23	691	0.5−	0.2−	1998 12 21	910	0.1+	0.5+
1998 10 23	910	0.3+	0.1−	1998 11 23	699	0.9+	0.9+	1998 12 21	910	0.2+	0.3+
1998 10 23	910	0.4+	0.0	1998 11 23	699	0.7+	1.5+	1998 12 21	910	0.1+	0.5+
1998 11 11	120	0.2−	0.9−	1998 11 23	699	1.1+	0.2+	2000 02 29	704	0.2+	0.1+
1998 11 11	120	0.5−	0.6−	1998 11 24	704	(0.4+	1.6−	2000 02 29	704	0.7−	0.4−
1998 11 16	691	0.3−	0.1+	1998 11 24	704	(0.4+	2.4−)	2000 02 29	704	0.1+	0.6−
1998 11 16	691	0.3−	0.0	1998 11 24	704	0.1−	1.0−	2000 02 29	704	0.3−	0.3+
1998 11 16	691	0.4−	0.2−	1998 11 24	704	1.2−	1.3−	2000 02 29	704	0.5−	0.2+
1998 11 18	704	0.4+	0.9−	1998 11 27	691	0.2+	0.0	2000 03 03	704	0.7+	0.1−
1998 11 18	704	0.3−	1.2−	1998 11 27	691	0.2+	1.6+	2000 03 03	704	0.0	0.5+
1998 11 18	704	(0.6−	3.1−)	1998 12 08	691	0.3−	0.3−	2000 03 03	704	0.5+	0.6−
1998 11 18	704	(4.6−	2.2−)	1998 12 08	691	0.2−	0.1+	2000 03 03	704	0.1−	0.0
1998 11 19	699	0.3+	0.3+	1998 12 08	691	0.4−	0.5−	2000 03 03	704	0.1+	0.4+
1998 11 19	699	0.2+	0.1+	1998 12 08	910	0.3+	0.3−				
1998 11 19	699	0.1+	0.8+	1998 12 08	910	0.1+	0.2−				

1998 WP₁₂ = 2000 DB₇₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	132.35979		(2000.0)	P		Q	
<i>n</i>	0.23831190	ω	99.14552	+0.85375634		−0.51942504	
<i>a</i>	2.5765519	Ω	292.15564	+0.46113156		+0.78644176	
<i>e</i>	0.0640246	<i>i</i>	2.22914	+0.24178048		+0.33422596	
<i>P</i>	4.14	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 11	704	0.6−	0.0	1998 12 11	699	0.9−	0.5−	2000 03 03	704	0.5+	0.2−
1998 11 11	704	0.3−	1.1−	1998 12 11	699	0.1+	0.0	2000 03 03	704	0.3+	0.3−
1998 11 11	704	0.4−	1.1−	1998 12 11	699	0.8+	0.1−	2000 03 03	704	0.7+	0.3−
1998 11 18	704	0.1−	0.4−	2000 02 08	704	0.8+	1.4+	2000 03 03	704	0.2+	0.2−
1998 11 18	704	0.6−	1.5−	2000 02 08	704	1.1+	0.0	2000 03 03	704	0.4+	1.3−
1998 11 18	704	0.1+	0.2−	2000 02 08	704	0.0	0.2−	2000 03 08	704	0.6+	0.4−
1998 11 18	704	1.2−	1.5−	2000 02 08	704	0.9+	1.0+	2000 03 08	704	0.8−	0.1+
1998 11 21	704	0.2−	0.7+	2000 02 27	703	0.1+	0.7+	2000 03 08	704	1.1+	0.7+
1998 11 21	704	0.4+	1.3+	2000 02 27	703	0.5−	0.2−	2000 03 08	704	0.8+	1.6+
1998 11 21	704	(1.3−	2.4+)	2000 02 27	703	0.1+	0.4−	2000 03 11	704	0.9−	0.1−
1998 11 21	704	(1.1−	3.3+)	2000 02 27	703	0.8−	0.0	2000 03 11	704	0.7−	0.2−
1998 11 24	704	0.7+	0.5+	2000 02 29	704	0.2−	0.3+	2000 03 11	704	0.8−	0.2−
1998 11 24	704	1.8+	1.4+	2000 02 29	704	0.1+	0.1−	2000 03 11	704	1.1−	0.5−
1998 11 24	704	(1.6+	2.5+)	2000 02 29	704	0.5−	0.2+	2000 03 11	704	0.6−	0.7−
1998 11 24	704	0.4+	2.0+	2000 02 29	704	0.8−	0.6−				

1998 WX₁₂ = 2000 CL₃₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	130.54111		(2000.0)	P		Q	
<i>n</i>	0.21436996	ω	60.63338	+0.94336226		−0.32891185	
<i>a</i>	2.7649892	Ω	318.52699	+0.27711712		+0.85314483	
<i>e</i>	0.1060464	<i>i</i>	3.75851	+0.18241093		+0.40492084	
<i>P</i>	4.60	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	1.0−	0.9−	1998 12 14	704	0.1−	0.6+	2000 02 24	120	0.2−	1.0−
1998 11 10	704	0.1+	0.4−	1998 12 14	704	0.5+	1.3+	2000 02 24	120	0.7+	1.1−
1998 11 10	704	0.6+	0.1−	1998 12 14	704	0.4+	1.1+	2000 02 29	704	0.0	0.2+
1998 11 11	704	0.4−	0.5−	1998 12 14	704	0.4−	1.5+	2000 02 29	704	0.1−	0.4+
1998 11 11	704	0.7−	1.2−	1999 01 15	699	0.6+	0.4−	2000 02 29	704	0.1+	0.4+

2000 MAR. 20

M.P.C. 39281

1998 11 21	704	1.1+	0.2+	2000 02 06	120	0.6-	0.3-	2000 03 11	704	0.1-	0.1-
1998 11 21	704	0.7+	0.4-	2000 02 06	120	(2.8+	0.8-)	2000 03 11	699	0.4-	0.2+
1998 11 21	704	1.4+	0.3-	2000 02 06	704	0.2+	0.3+	2000 03 11	704	0.1-	0.4+
1998 11 24	704	0.3-	0.2-	2000 02 06	704	0.5+	0.5-	2000 03 11	704	0.1-	0.4+
1998 11 24	704	1.0-	0.8-	2000 02 06	704	0.1+	0.3+	2000 03 11	699	0.1+	0.6+
1998 11 24	704	0.5+	1.1+	2000 02 06	704	0.2-	0.0	2000 03 11	699	0.2+	0.9+
1998 11 24	704	(2.1-	3.1+)	2000 02 23	120	0.4-	0.5-	2000 03 11	699	0.4-	0.0
1998 11 24	704	0.3-	1.5+	2000 02 23	120	0.9-	0.6-				
1998 12 14	704	0.2+	0.1-	2000 02 23	120	1.1-	0.6-				

1998 WJ₁₄ = 2000 DP₅₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	70.57864		(2000.0)		P	Q
n	0.18086779	ω	246.40786		+0.24148484	-0.97040284
a	3.0966722	Ω	189.61849		+0.89429938	+0.22328260
e	0.1410407	i	0.63168		+0.37671434	+0.09199567
P	5.45	H	14.6	G	0.15	U 3

Residuals in seconds of arc

1998 11 18	704	1.1-	2.0-	1998 12 14	691	0.5-	0.1+	2000 02 29	704	0.5+	0.1+
1998 11 18	704	1.8+	1.3+	1998 12 14	691	0.4-	0.3-	2000 02 29	704	0.3+	0.1-
1998 11 18	704	0.0	0.2+	1998 12 15	691	0.7+	0.2+	2000 02 29	704	0.1+	0.4-
1998 11 18	704	0.7+	0.8-	1998 12 15	691	(2.0-	2.8+)	2000 03 03	704	0.2+	0.3+
1998 11 18	704	0.5+	1.5+	1998 12 15	691	0.9+	0.4+	2000 03 03	704	0.6-	0.6+
1998 11 21	704	1.0-	0.8+	1998 12 23	691	0.5+	0.3+	2000 03 03	704	0.1-	0.3+
1998 11 21	704	0.6+	0.7-	1998 12 23	691	0.4+	0.4+	2000 03 03	704	0.3-	0.4+
1998 11 21	704	(0.9+	2.3-)	1998 12 23	691	0.9+	0.1+	2000 03 03	704	0.3+	0.8+
1998 11 21	704	0.5-	1.9-	1999 01 23	691	1.7-	0.1-	2000 03 04	691	0.3-	0.5-
1998 11 24	704	0.0	0.3+	1999 01 23	691	1.9-	1.3-	2000 03 04	691	0.2-	0.6-
1998 11 24	704	1.4-	0.1-	1999 02 09	691	0.0	0.2-	2000 03 04	691	0.1-	0.6-
1998 11 24	704	1.2-	0.9+	1999 02 09	691	0.1+	0.1+	2000 03 08	691	0.4-	0.4-
1998 11 24	704	0.3-	0.4+	1999 02 09	691	0.0	0.2+	2000 03 08	691	0.5-	0.5-
1998 11 25	699	0.8+	0.4+	1999 02 13	691	0.7+	0.1-	2000 03 08	691	0.2-	0.5-
1998 11 25	699	0.2+	1.5-	1999 02 13	691	0.7+	0.6+	2000 03 11	704	0.3+	0.2+
1998 11 25	699	0.6-	0.6+	1999 02 13	691	0.4+	0.1-	2000 03 11	704	0.7+	0.1-
1998 12 10	691	0.4+	0.2-	2000 02 27	691	0.1-	0.2-	2000 03 11	704	0.3+	0.4+
1998 12 10	691	0.2+	0.0	2000 02 27	691	0.1-	0.0	2000 03 11	704	0.7-	0.6+
1998 12 10	691	0.3+	0.2+	2000 02 27	691	0.1-	0.0				
1998 12 14	691	0.2-	0.1+	2000 02 29	704	1.1+	0.2+				

1998 WK₁₄ = 2000 DL₁₀₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	133.63914		(2000.0)		P	Q	
n	0.21545094	ω	309.12605		+0.94940649	-0.29817008	
a	2.7557329	Ω	68.42035		+0.31079562	+0.84697919	
e	0.0914205	i	6.08662		+0.04509319	+0.44013731	
P	4.57	H	14.8	G	0.15	U	4

Residuals in seconds of arc

1998 11 21	704	0.5-	0.5-	1998 12 10	691	0.2-	0.0	1999 01 24	691	0.1-	0.6+
1998 11 21	704	1.3+	0.5-	1998 12 10	691	0.2-	0.0	2000 02 29	704	0.9-	0.7-
1998 11 21	704	(2.3+	1.1-)	1998 12 10	691	0.3-	0.0	2000 02 29	704	0.3-	0.5+
1998 11 21	704	1.5-	0.3+	1998 12 15	691	0.4-	0.0	2000 02 29	704	0.2+	0.4+
1998 11 23	691	0.0	0.1+	1998 12 15	691	0.3-	0.4+	2000 02 29	704	0.2+	0.5+
1998 11 23	691	0.0	0.1-	1998 12 15	691	0.3-	0.1+	2000 02 29	704	0.0	0.4+
1998 11 23	691	0.0	0.2-	1998 12 23	691	0.2+	0.1-	2000 03 05	704	0.3+	0.3-
1998 11 24	704	0.4+	0.3-	1998 12 23	691	0.1+	0.3+	2000 03 05	704	0.9+	0.3-
1998 11 24	704	0.1-	0.3-	1998 12 23	691	0.4+	0.1+	2000 03 05	704	0.4-	0.5-
1998 11 24	704	1.2+	1.3+	1999 01 24	691	0.0	0.2+				
1998 11 24	704	(2.0+	2.2+)	1999 01 24	691	0.2+	1.3-				

1998 WO₁₆ = 2000 DG₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	14.10128		(2000.0)		P		Q
n	0.17001263	ω	67.70341		-0.66843519		-0.73700610
a	3.2271210	Ω	64.64048		+0.63512661		-0.63562851
e	0.0766826	i	6.35881		+0.38705115		-0.22977902
P	5.80	H	14.1	G	0.15	U	4

Residuals in seconds of arc

1998 10 23	910	0.3+	0.0	1998 12 11	691	0.5-	0.1+	2000 02 06	703	0.1-	0.1-
1998 10 23	910	0.3+	0.1+	1998 12 11	691	0.3-	0.2-	2000 02 06	703	1.0-	0.4-
1998 10 23	910	0.3+	0.2-	1998 12 17	691	0.2-	0.0	2000 02 29	704	0.1+	0.1-
1998 11 21	704	0.9-	0.9+	1998 12 17	691	0.5-	0.2+	2000 02 29	704	0.4+	0.5-
1998 11 21	704	0.7+	1.2-	1998 12 17	691	0.7-	0.0	2000 02 29	704	0.6+	0.1+
1998 11 21	704	0.5+	0.3-	1998 12 26	691	0.4-	0.0	2000 02 29	704	0.2-	0.4+
1998 11 21	704	(1.1-	2.7-)	1998 12 26	691	0.6-	0.1-	2000 02 29	704	0.7+	0.1-
1998 11 24	704	0.3+	0.1-	1998 12 26	691	0.6-	0.1+	2000 03 04	704	0.2+	0.1+
1998 11 24	704	1.1+	0.5+	2000 02 03	704	0.5-	0.2-	2000 03 04	704	0.2-	0.4-
1998 11 24	704	0.4+	0.5+	2000 02 03	704	0.4-	0.0	2000 03 04	704	1.3+	0.2+
1998 11 24	704	1.9-	0.0	2000 02 03	704	0.7+	1.2+	2000 03 11	699	0.8+	0.8-
1998 11 25	699	0.9+	1.2+	2000 02 03	704	0.7-	0.2+	2000 03 11	699	0.4+	0.2+
1998 11 25	699	0.4+	0.1-	2000 02 03	704	0.2+	0.4+	2000 03 11	699	0.3+	1.2+
1998 11 25	699	1.5+	1.0-	2000 02 06	703	0.6-	0.9-	2000 03 11	699	0.3-	0.3-
1998 12 11	691	0.5-	0.3-	2000 02 06	703	1.7-	0.3-				

1998 WC₁₇ = 1998 XZ₆₁ = 1980 TA₁₁ = 2000 EQ₁₈

Id. A. Doppler (d, MPC 33786), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	193.00921		(2000.0)		P		Q
n	0.22290578	ω	234.21408		+0.79649983		+0.60249633
a	2.6939436	Ω	88.68268		-0.53703768		+0.74358568
e	0.0695578	i	2.91579		-0.27781028		+0.28996296
P	4.42	H	14.0	G	0.15	U	2

Residuals in seconds of arc

1980 10 08	095	0.5-	1.2+	1999 02 09	691	0.5+	0.0	2000 03 08	704	0.2-	0.1+
1998 11 21	704	0.5+	0.2-	1999 02 10	691	1.0-	0.2-	2000 03 08	704	0.3-	0.0
1998 11 21	704	0.2+	1.6-	1999 02 10	691	0.5-	0.5+	2000 03 08	704	0.8-	0.5+
1998 11 21	704	0.2-	1.3-	1999 02 14	691	0.6+	0.1+	2000 03 08	704	0.7-	0.5+
1998 11 21	704	(1.7+	2.7-)	1999 02 14	691	0.2+	0.2+	2000 03 08	704	1.0-	0.1+
1998 11 21	704	(1.6-	2.3-)	1999 02 14	691	0.2+	0.1+	2000 03 09	704	0.1-	0.3+
1998 11 24	704	0.2+	0.0	1999 02 16	691	0.3+	0.3-	2000 03 09	704	0.3+	0.2+
1998 11 24	704	0.4+	0.9-	1999 02 16	691	0.1+	0.2-	2000 03 09	704	0.1-	0.7+
1998 11 24	704	0.3-	0.2+	1999 02 16	691	0.2-	0.6-	2000 03 09	704	0.1+	0.1-
1998 11 24	704	0.3-	0.3-	1999 02 16	691	0.1+	0.4-	2000 03 09	704	0.5+	0.0
1998 11 24	704	0.9-	1.2+	1999 02 16	691	0.1-	0.3-	2000 03 11	699	1.4+	0.0
1998 11 25	699	0.3+	1.2+	1999 02 16	691	0.1+	0.8-	2000 03 11	699	0.3-	1.0+
1998 11 25	699	0.0	0.2-	2000 02 01	703	0.2-	0.4+	2000 03 11	699	0.2+	0.6+
1998 11 25	699	0.3-	0.2-	2000 02 01	703	0.5+	0.1+	2000 03 11	699	0.3-	0.5+
1998 12 08	699	0.1+	0.3+	2000 02 01	703	0.5+	0.0	2000 03 11	699	0.0	0.1+
1998 12 08	699	0.1-	0.5+	2000 02 01	703	0.6+	0.0	2000 03 11	699	0.4+	0.1+
1998 12 08	699	0.0	0.9+	2000 02 04	704	0.4+	0.6+	2000 03 11	699	0.2+	0.2+
1998 12 15	691	0.1-	0.0	2000 02 04	704	0.1+	0.4+	2000 03 11	699	0.1-	0.3+
1998 12 15	691	0.2+	0.1-	2000 02 04	704	0.5+	0.7-	2000 03 12	704	0.1+	0.9+
1998 12 15	691	0.1+	0.2-	2000 02 04	704	0.2+	1.0-	2000 03 12	704	0.6-	0.3+
1998 12 23	691	0.0	0.1-	2000 02 04	704	0.3-	0.5-	2000 03 12	704	0.3+	0.9+
1998 12 23	691	0.2-	0.0	2000 02 25	703	0.2-	0.4+	2000 03 12	704	0.0	0.6-
1998 12 23	691	0.0	0.1+	2000 02 25	703	0.1+	0.1+	2000 03 12	704	0.6-	1.1-
1999 01 17	557	0.1-	0.5+	2000 02 25	703	0.5-	0.1-	2000 03 12	704	0.3+	0.7-
1999 01 17	557	0.6+	0.7+	2000 02 25	703	0.1-	0.1+	2000 03 12	704	0.4+	0.4-
1999 01 23	691	0.5-	0.0	2000 03 05	704	0.3+	0.4-	2000 03 12	704	0.1-	0.7-
1999 01 23	691	0.2-	0.2+	2000 03 05	704	0.0	0.9-	2000 03 12	704	0.4+	0.1+
1999 01 23	691	0.0	0.1-	2000 03 05	704	0.2-	0.1-	2000 03 12	704	0.2-	0.6-
1999 02 09	691	0.2-	0.2-	2000 03 05	704	0.2-	0.5-				
1999 02 09	691	1.1+	0.3+	2000 03 05	704	0.3-	0.3-				

1998 WY₁₇ = 1999 BG₂₆Id. S. Nakano (d, *MPC* 36125)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	114.13012		(2000.0)		P		Q
<i>n</i>	0.27969127	ω	40.77117	+0.14614245			-0.98742768
<i>a</i>	2.3157061	Ω	40.93035	+0.88207238			+0.10249631
<i>e</i>	0.1444061	<i>i</i>	5.27586	+0.44787353			+0.12033740
<i>P</i>	3.52	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1992 01 24	675	0.4-	0.2+	1998 11 21	704	0.7+	0.1-	1998 12 14	704	1.2-	1.3+
1992 01 24	675	0.3+	0.3+	1998 11 21	704	1.0+	1.3-	1998 12 14	704	0.2+	0.6-
1996 04 20	675	0.2-	0.8-	1998 11 21	704	0.1-	0.1-	1998 12 14	704	1.6-	1.7-
1996 04 20	675	0.0	0.2+	1998 11 21	704	0.3+	1.8-	1998 12 14	704	1.0-	0.3-
1998 09 25	327	1.2+	0.5+	1998 11 21	704	0.0	2.1-	1999 01 21	561	0.5+	0.5+
1998 09 25	327	1.0+	0.8+	1998 11 24	704	0.6-	0.1-	1999 01 21	561	0.6+	0.5+
1998 09 25	327	1.3+	0.4+	1998 11 24	704	0.4-	0.0	1999 01 21	561	0.8+	0.5+
1998 11 20	699	0.5-	0.6+	1998 11 24	704	0.5-	0.1-	1999 01 22	561	0.3+	0.2+
1998 11 20	699	0.2-	1.1+	1998 11 24	704	1.0-	0.0	1999 01 22	561	0.6+	0.5+
1998 11 20	699	0.3-	0.8+	1998 12 14	704	0.5+	0.9+	1999 01 22	561	0.5+	0.3+

1998 WK₁₈ = 2000 EY₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	192.30056		(2000.0)		P		Q
<i>n</i>	0.30244693	ω	21.48997	+0.98486883			+0.17078797
<i>a</i>	2.1980451	Ω	328.63141	-0.16609569			+0.88180413
<i>e</i>	0.1838330	<i>i</i>	3.23871	-0.04945316			+0.43960545
<i>P</i>	3.26	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 31	704	1.5-	0.5+	1998 12 14	704	0.7-	0.1+	2000 03 09	704	0.4-	0.9+
1998 08 31	704	1.5+	1.1-	1998 12 14	704	1.4+	0.8+	2000 03 09	704	0.5+	0.7+
1998 08 31	704	0.7-	0.5-	1998 12 17	704	0.2+	0.2-	2000 03 10	704	1.0+	0.3-
1998 08 31	704	1.4+	0.2-	1998 12 17	704	0.8+	0.6-	2000 03 10	704	0.5+	0.0
1998 11 21	704	0.4-	0.6+	1998 12 17	704	0.1-	0.9-	2000 03 10	704	0.4+	0.2+
1998 11 21	704	0.2+	0.6+	1998 12 17	704	0.9+	0.2-	2000 03 10	704	0.3+	0.7-
1998 11 21	704	0.5+	1.9+	1998 12 17	704	0.6+	0.3-	2000 03 10	704	0.1+	0.9-
1998 11 21	704	0.1+	1.2+	2000 03 03	703	0.3-	1.1-	2000 03 11	704	0.2+	0.4-
1998 11 24	704	0.0	0.6+	2000 03 03	703	0.3+	0.7-	2000 03 11	704	0.5+	0.0
1998 11 24	704	1.2-	0.4+	2000 03 03	703	0.6-	0.9+	2000 03 11	704	0.0	0.3+
1998 11 24	704	0.2-	1.2-	2000 03 03	703	1.7-	0.5+	2000 03 11	704	0.4-	0.1+
1998 11 24	704	1.0-	0.7-	2000 03 09	704	0.5-	0.7+	2000 03 11	704	0.3+	0.0
1998 12 14	704	1.2-	1.3-	2000 03 09	704	0.4-	0.2-				

1998 WY₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	87.74822		(2000.0)		P		Q
<i>n</i>	0.22320128	ω	175.97204	+0.25017999			-0.96756698
<i>a</i>	2.6915653	Ω	259.53720	+0.88730846			+0.24358803
<i>e</i>	0.0551760	<i>i</i>	2.03895	+0.38741924			+0.06692538
<i>P</i>	4.42	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 11	704	0.2-	0.4-	1998 12 08	327	0.8-	0.2+	2000 02 27	703	0.3-	0.7+
1998 11 11	704	0.8-	0.0	1998 12 08	327	0.4-	0.2+	2000 03 03	704	0.2+	0.3-
1998 11 11	704	0.4+	0.3+	1998 12 11	691	0.8-	0.2+	2000 03 03	704	0.3-	0.1+
1998 11 11	704	1.6+	1.9-	1998 12 11	691	0.7-	0.4+	2000 03 03	704	0.2-	0.6-
1998 11 18	704	0.2-	0.9+	1998 12 11	691	0.8-	0.3+	2000 03 03	704	0.4+	0.2+
1998 11 18	704	1.0+	0.8-	1998 12 17	691	0.1-	0.3+	2000 03 03	704	0.2-	0.1-
1998 11 18	704	(2.4+	0.1+)	1998 12 17	691	0.0	0.2+	2000 03 06	012	1.1-	0.5+
1998 11 18	704	0.0	1.7-	1998 12 17	691	0.4-	0.3+	2000 03 06	012	0.1-	0.2-
1998 11 21	704	0.2+	1.3+	1998 12 25	691	0.7+	0.1+	2000 03 08	704	1.0+	0.5+
1998 11 21	704	0.3+	0.2-	1998 12 25	691	0.6+	0.3+	2000 03 08	704	0.8+	0.6-
1998 11 21	704	0.3-	0.1+	1998 12 25	691	0.6+	0.6-	2000 03 08	704	(2.7+	1.8-)
1998 11 21	704	1.4-	0.3+	1999 02 10	691	0.1+	0.0	2000 03 11	704	0.1+	0.0

1998 11 24	704	1.2+	0.5-	1999 02 10	691	0.2-	0.0	2000 03 11	704	0.1+	0.3+
1998 11 24	704	0.6+	0.1+	1999 02 10	691	0.2+	0.1+	2000 03 11	704	0.1+	0.0
1998 11 24	704	0.7-	0.3-	2000 02 27	703	0.5-	0.1+	2000 03 11	704	0.5+	0.1-
1998 11 24	704	0.1+	0.7+	2000 02 27	703	0.9-	0.5-	2000 03 11	704	0.2+	0.0
1998 12 08	327	0.2+	0.3+	2000 02 27	703	0.1+	0.4-				

1998 WY₁₉

Id. F. B. Zoltowski (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	85.18189		(2000.0)		P		Q
<i>n</i>	0.22419968	ω	327.10147	+0.14949200			-0.96275251
<i>a</i>	2.6835687	Ω	113.41594	+0.95192905			+0.07852329
<i>e</i>	0.1385017	<i>i</i>	14.21252	+0.26736346			+0.25873094
<i>P</i>	4.40	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 13	704	1.5+	0.4+	1998 12 18	426	0.2-	0.0	2000 02 04	704	0.4+	1.0+
1998 11 13	704	0.9+	0.5+	1998 12 18	426	0.0	0.2+	2000 03 11	858	0.0	0.1+
1998 11 13	704	0.1+	1.1+	1998 12 18	426	0.2-	0.4+	2000 03 11	858	0.2-	0.0
1998 11 13	704	0.8-	1.1-	1998 12 20	426	0.0	0.1+	2000 03 11	858	0.3-	0.1-
1998 11 13	704	1.7-	1.0+	1998 12 20	426	0.3-	0.4+	2000 03 12	858	0.2+	0.2-
1998 11 29	426	0.6-	0.2-	1998 12 20	426	0.7-	0.4+	2000 03 12	858	0.1-	0.1+
1998 11 29	426	0.3-	0.1+	1999 01 11	426	0.6+	0.3-	2000 03 12	858	0.2-	0.2-
1998 11 29	426	0.6+	0.4+	1999 01 11	426	1.2+	0.9-	2000 03 15	704	0.1+	0.2-
1998 11 30	426	0.6+	0.2+	1999 01 14	426	0.4+	0.2+	2000 03 15	704	0.3+	0.0
1998 11 30	426	0.3+	0.7-	1999 01 14	426	0.1+	0.2+	2000 03 15	704	0.2-	0.4+
1998 11 30	426	0.5-	1.2-	1999 01 14	426	0.9-	0.3+	2000 03 15	704	0.4-	0.1+
1998 12 08	426	0.4-	0.2-	2000 02 04	704	0.6+	0.7-	2000 03 15	704	0.0	0.7+
1998 12 08	426	0.7-	0.6-	2000 02 04	704	0.8+	1.2-				
1998 12 08	426	0.8+	0.6-	2000 02 04	704	0.7-	0.1+				

1998 WA₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	345.86405		(2000.0)		P		Q
<i>n</i>	0.18768360	ω	80.49995	-0.97750752			+0.10658806
<i>a</i>	3.0212395	Ω	105.45386	-0.16490483			-0.92420310
<i>e</i>	0.0306216	<i>i</i>	10.88334	+0.13147415			-0.36672552
<i>P</i>	5.25	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 01 05	399	0.2+	0.9+	1998 12 16	704	0.1+	0.8+	1999 03 10	704	0.4-	1.2-
1994 01 05	399	0.2-	0.2-	1998 12 16	704	(2.5+	0.1-)	1999 03 10	704	0.1+	1.7-
1998 10 19	327	0.2-	0.6+	1998 12 16	704	(3.1+	0.8-)	1999 03 10	704	0.2-	1.0+
1998 10 19	327	0.3+	0.5+	1998 12 18	426	0.8+	0.1-	2000 02 04	704	0.3+	0.0
1998 10 19	327	0.1+	0.5+	1998 12 18	426	0.0	0.1-	2000 02 04	704	0.7+	0.4+
1998 11 23	704	0.5-	1.2+	1998 12 18	426	0.2+	0.1-	2000 02 04	704	0.6+	0.5+
1998 11 23	704	1.2-	0.2+	1998 12 20	426	0.2-	0.2-	2000 02 04	704	0.6+	0.6+
1998 11 23	704	0.2-	0.7-	1998 12 20	426	0.5+	0.2-	2000 02 04	704	(0.3+	2.2+)
1998 11 23	704	(0.4+	2.7+)	1998 12 22	704	0.4+	0.8-	2000 03 05	704	0.2+	0.2-
1998 11 23	704	1.9-	1.4+	1998 12 22	704	1.1-	0.4-	2000 03 05	704	0.2+	0.0
1998 11 29	426	1.2-	0.1-	1998 12 22	704	0.2-	0.1-	2000 03 05	704	0.2+	0.6+
1998 11 29	426	0.7-	0.2-	1998 12 22	704	0.6-	0.2-	2000 03 05	704	0.0	0.1-
1998 11 30	426	0.5-	0.0	1998 12 22	704	0.8-	0.9-	2000 03 05	704	0.1+	0.0
1998 11 30	426	0.1+	0.1-	1999 01 09	426	0.3+	0.4+	2000 03 11	858	0.6-	0.4-
1998 12 08	426	0.2-	0.4-	1999 01 09	426	0.5-	0.2+	2000 03 11	858	0.4-	0.4-
1998 12 08	426	0.1-	0.0	1999 01 09	426	0.1-	0.1-	2000 03 11	858	0.5-	0.3-
1998 12 08	426	0.5-	0.4-	1999 01 11	426	0.5+	0.4+	2000 03 12	858	0.3-	0.4-
1998 12 15	704	0.1+	0.3-	1999 01 11	426	0.3+	0.0	2000 03 12	858	0.3-	0.5-
1998 12 15	704	1.0+	1.4-	1999 01 11	426	0.4+	0.1+	2000 03 12	858	0.1-	0.4-
1998 12 15	704	0.4+	0.3-	1999 02 04	426	0.3+	1.2+	2000 03 12	704	0.2+	0.4-
1998 12 15	704	1.1+	0.6-	1999 02 04	426	0.2-	0.4+	2000 03 12	704	0.1-	0.2+
1998 12 15	704	1.1+	0.7-	1999 02 10	426	0.2+	0.1+	2000 03 12	704	0.2-	0.3+
1998 12 16	704	1.6+	0.6+	1999 02 10	426	0.0	0.2+	2000 03 12	704	0.2-	0.3+
1998 12 16	704	1.3+	0.0	1999 02 10	426	0.2+	0.9+	2000 03 12	704	0.2-	0.3+

2000 MAR. 20

M.P.C. 39283

1998 WN₂₀ = 2000 AG₁₆₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	326.83062	(2000.0)		P	Q		
<i>n</i>	0.19852913	ω	337.52149	−0.97683177	+0.20915465		
<i>a</i>	2.9101803	Ω	214.64930	−0.18222451	−0.92394017		
<i>e</i>	0.1585549	<i>i</i>	4.57211	−0.11222266	−0.32029500		
<i>P</i>	4.96	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 18	699	0.7+	0.5−	1999 11 06	703	1.3−	0.4−	2000 02 06	704	0.2+	0.1−
1998 10 18	699	0.3+	0.1+	1999 11 06	703	1.0+	0.2−	2000 02 06	704	0.1+	0.0
1998 10 18	699	0.5+	0.7−	1999 11 06	703	0.8−	0.6−	2000 02 12	704	(2.3+	3.4+)
1998 11 11	704	0.1−	0.5+	1999 11 06	703	0.7+	0.3−	2000 02 12	704	(0.5+	5.1+)
1998 11 11	704	0.4+	0.1−	1999 12 05	704	0.7−	0.6−	2000 02 12	704	(0.1−	4.5+)
1998 11 11	704	1.3−	1.2+	1999 12 05	704	0.3−	0.4−	2000 02 12	704	(0.7−	4.0+)
1998 11 15	691	0.8−	0.2+	1999 12 05	704	0.4−	0.2+	2000 02 13	106	0.1+	0.2+
1998 11 15	691	0.8−	0.1+	1999 12 05	704	0.1−	1.2−	2000 02 13	106	0.2+	0.4+
1998 11 15	691	1.0−	0.2+	2000 01 05	704	1.5+	0.7+	2000 02 13	106	1.3+	0.3+
1998 11 18	704	0.6+	0.4−	2000 01 05	704	0.4−	0.8−	2000 02 22	106	0.1+	0.1−
1998 11 18	704	0.4+	0.4−	2000 01 05	704	0.6−	1.4−	2000 02 22	106	0.2+	0.3+
1998 11 18	704	0.1+	0.7−	2000 01 08	704	0.8+	0.3−	2000 02 22	106	0.1−	0.1+
1998 11 18	704	1.6+	0.3−	2000 01 08	704	0.3−	0.2−	2000 02 28	703	0.1−	0.1−
1998 11 18	704	1.0−	0.0	2000 01 08	704	0.1−	0.8−	2000 02 28	703	0.1−	0.0
1998 11 19	691	0.1+	0.2+	2000 01 08	704	0.2−	0.2+	2000 02 28	703	0.1−	0.3+
1998 11 19	691	0.0	0.0	2000 01 08	704	1.7−	1.1−	2000 02 28	703	0.4−	0.1+
1998 11 19	691	0.1+	0.0	2000 02 02	704	0.3+	0.3+	2000 03 01	704	0.2+	0.8+
1998 11 21	704	0.6+	0.3−	2000 02 02	704	0.0	0.2+	2000 03 01	704	0.1+	0.6+
1998 11 21	704	0.4−	0.1−	2000 02 02	704	0.1+	0.6+	2000 03 01	704	0.1+	0.2+
1998 11 21	704	1.2−	1.2−	2000 02 02	704	0.0	0.6+	2000 03 06	704	0.2+	0.2+
1998 11 21	704	0.7+	1.7+	2000 02 02	704	0.2−	1.0+	2000 03 06	704	0.1+	0.2+
1998 11 24	699	0.1−	0.0	2000 02 05	704	0.3+	0.0	2000 03 06	704	0.1+	0.5+
1998 11 24	699	0.2+	0.3−	2000 02 05	704	0.2+	0.1+	2000 03 06	704	0.3−	1.0+
1998 11 24	699	0.5+	0.5+	2000 02 05	704	0.1−	0.1−	2000 03 06	704	(2.3−	0.1+)
1998 12 08	699	0.1−	0.7+	2000 02 06	704	0.2+	0.2+	2000 03 11	608	0.3−	0.9−
1998 12 08	699	0.0	0.2−	2000 02 06	704	0.4+	0.0	2000 03 11	608	0.3−	0.9−
1998 12 08	699	0.4−	1.0+	2000 02 06	704	0.1+	0.0	2000 03 11	608	0.4−	0.8−

1998 WR₂₀ = 2000 EK₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	79.68960	(2000.0)		P	Q		
<i>n</i>	0.17473265	ω	338.06402	+0.56489976	−0.80095097		
<i>a</i>	3.1687405	Ω	77.00944	+0.78410288	+0.44614291		
<i>e</i>	0.2069163	<i>i</i>	11.74869	+0.25704268	+0.39929193		
<i>P</i>	5.64	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 11	704	0.8−	0.1−	1998 11 21	704	0.7+	1.3+	2000 03 04	704	0.5+	0.3+
1998 11 11	704	0.3−	0.7−	1998 11 21	704	(0.1+	2.1+)	2000 03 04	704	0.8+	0.4+
1998 11 11	704	0.8−	0.2+	1998 12 12	120	0.8+	0.0	2000 03 04	704	0.5+	0.3−
1998 11 14	699	0.4+	0.8+	1998 12 12	120	1.0+	0.3+	2000 03 09	704	0.3−	0.5−
1998 11 14	699	0.0	1.0+	1998 12 15	120	0.6−	0.3−	2000 03 09	704	0.0	0.4−
1998 11 14	699	0.1+	0.7+	1998 12 15	120	0.1+	0.6−	2000 03 09	704	0.4−	0.2+
1998 11 18	704	0.7−	0.3+	2000 02 03	704	0.1+	0.1−	2000 03 09	704	0.2−	1.5−
1998 11 18	704	0.3−	1.5−	2000 02 03	704	0.5+	0.1+	2000 03 09	704	1.1−	0.9−
1998 11 18	704	0.2+	1.1−	2000 02 03	704	1.0+	0.2+	2000 03 12	704	0.3−	0.2−
1998 11 18	704	0.9−	1.3−	2000 02 03	704	0.5+	0.5+	2000 03 12	704	0.0	0.2+
1998 11 18	704	(0.3+	2.2−)	2000 02 03	704	0.3+	0.6+	2000 03 12	704	0.6−	0.4+
1998 11 21	704	0.6+	0.4+	2000 03 04	704	0.6−	0.4−	2000 03 12	704	0.3−	0.7+
1998 11 21	704	0.7+	0.5+	2000 03 04	704	0.2+	0.4+	2000 03 12	704	0.4−	0.5+

1998 WB₂₂ = 2000 CM₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	68.69822	(2000.0)		P	Q		
<i>n</i>	0.19819153	ω	314.38414	+0.16032070	−0.98619924		
<i>a</i>	2.9134841	Ω	126.34632	+0.91957697	+0.13401072		
<i>e</i>	0.0432859	<i>i</i>	2.94145	+0.35871363	+0.09722235		
<i>P</i>	4.97	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 11	699	0.6−	0.9+	2000 02 04	704	0.7+	0.4+	2000 02 29	704	0.4−	0.1−
1998 11 11	699	0.1−	0.0	2000 02 04	704	0.3+	0.4−	2000 03 03	704	0.3−	0.2+
1998 11 11	699	0.0	0.5+	2000 02 06	120	0.5+	0.1+	2000 03 03	704	0.3−	0.3+
1998 11 18	704	0.1−	0.6+	2000 02 06	120	0.0	0.8+	2000 03 03	704	0.2+	0.3+
1998 11 18	704	0.5+	0.3−	2000 02 06	120	0.7+	0.7−	2000 03 03	704	0.2+	0.6+
1998 11 18	704	0.6+	0.5−	2000 02 10	120	0.2+	0.3−	2000 03 03	704	0.1+	0.1+
1998 11 18	704	0.9−	0.5+	2000 02 10	120	0.7−	0.2−	2000 03 05	704	0.1−	0.4+
1998 11 18	704	0.9+	0.3+	2000 02 10	120	0.4+	0.8−	2000 03 05	704	0.1+	0.3−
1998 11 21	704	0.9+	0.0	2000 02 10	120	1.1−	0.1−	2000 03 05	704	0.7+	0.0
1998 11 21	704	0.2−	1.9+	2000 02 11	704	(0.3−	2.8+)	2000 03 05	704	0.1−	0.8+
1998 11 21	704	1.0+	0.0	2000 02 11	704	0.0	0.3+	2000 03 05	704	0.3−	0.2+
1998 11 21	704	(0.3−	3.7+)	2000 02 11	704	0.2−	0.5+	2000 03 11	699	0.6+	0.3+
1998 11 21	704	(1.5−	3.0+)	2000 02 11	704	0.2+	0.0	2000 03 11	699	0.0	0.3+
1998 11 24	704	0.1+	0.8−	2000 02 25	703	1.7−	0.0	2000 03 11	699	0.0	0.2−
1998 11 24	704	1.1−	0.4−	2000 02 25	703	0.1−	0.3+	2000 03 11	699	0.5+	0.5−
1998 11 24	704	0.6−	1.2−	2000 02 25	703	0.4−	0.4+	2000 03 11	608	0.8+	0.3−
1998 11 24	704	0.4−	1.5−	2000 02 25	703	0.6−	0.2+	2000 03 11	608	0.0	0.7−
2000 02 04	704	0.1+	0.5−	2000 02 29	704	0.3−	0.1−	2000 03 11	608	0.8+	0.4−
2000 02 04	704	0.2+	0.1+	2000 02 29	704	0.4−	0.9−				
2000 02 04	704	0.0	0.2+	2000 02 29	704	0.4−	0.2−				

1998 WS₂₂ = 2000 EL₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	247.17939	(2000.0)		P	Q		
<i>n</i>	0.27773600	ω	208.35761	+0.28537991	+0.95277145		
<i>a</i>	2.3265618	Ω	78.38078	−0.85808216	+0.30226601		
<i>e</i>	0.1311524	<i>i</i>	6.08610	−0.42691136	+0.02935683		
<i>P</i>	3.55	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 18	704	0.8−	1.5+	1998 12 21	910	0.7−	0.1+	2000 03 02	703	0.1−	0.0
1998 11 18	704	0.9−	0.8+	1998 12 21	910	0.3−	0.2−	2000 03 05	704	0.5−	0.8+
1998 11 18	704	1.2−	0.2+	1999 02 07	691	0.3+	0.6−	2000 03 05	704	0.1−	0.0
1998 11 18	704	0.1−	1.4+	1999 02 07	691	0.2+	0.2−	2000 03 05	704	0.1+	0.4+
1998 11 21	704	1.7+	0.3+	1999 02 07	691	0.1+	0.5−	2000 03 05	704	0.7−	0.1+
1998 11 21	704	0.4−	1.1−	1999 02 13	691	0.5+	0.3+	2000 03 05	704	0.9−	0.4+
1998 11 21	704	0.4−	1.7−	1999 02 13	691	0.2−	0.4−	2000 03 09	704	0.0	0.5+
1998 11 21	704	(2.5−	1.0+)	1999 02 13	691	0.3+	0.3+	2000 03 09	704	0.3+	0.5+
1998 11 21	704	(4.8−	2.1−)	2000 02 04	704	0.3−	0.5+	2000 03 09	704	0.3+	0.1+
1998 12 07	910	0.2−	0.6+	2000 02 04	704	0.4+	0.5−	2000 03 09	704	0.0	0.3+
1998 12 07	910	0.0	0.5+	2000 02 04	704	0.0	1.1−	2000 03 12	704	0.2+	0.0
1998 12 07	910	0.1+	0.5+	2000 02 04	704	0.7+	1.7−	2000 03 12	704	0.0	0.3−
1998 12 15	910	1.0+	0.7−	2000 02 04	704	0.2+	0.4+	2000 03 12	704	0.8+	0.5+
1998 12 15	910	0.8+	0.9−	2000 03 02	703	0.7−	0.5+	2000 03 12	704	0.1+	0.6−
1998 12 15	910	0.8+	0.7−	2000 03 02	703	0.6+	0.2−	2000 03 12	704	0.0	0.7−
1998 12 21	910	0.3−	0.5+	2000 03 02	703	0.2−	0.5+				

Residuals in seconds of arc

1992 10 22	413	0.2+	0.5-	1998 12 21	704	0.5-	0.8+	1999 02 10	704	(3.1-	1.8-)
1993 11 21	675	0.2+	0.0	1998 12 21	704	0.3+	1.6-	1999 02 13	704	0.2-	0.1+
1993 11 21	675	0.2-	0.5-	1998 12 24	699	0.2+	1.4+	1999 02 13	704	0.2-	0.2-
1998 11 25	704	0.2+	0.8-	1998 12 24	699	2.0+	1.0+	1999 02 13	704	0.2-	0.3+
1998 11 25	704	0.2-	0.5+	1998 12 24	699	1.8+	0.5+	1999 02 13	704	0.9+	0.2-
1998 11 25	704	0.8-	0.5-	1999 01 14	699	0.7+	1.1+	1999 02 13	704	0.2+	0.2-
1998 11 25	704	1.2-	1.1-	1999 01 14	699	0.3+	0.0	1999 03 15	704	0.9-	0.1-
1998 12 01	704	0.4-	0.7+	1999 01 14	699	0.6+	0.5+	1999 03 15	704	0.5-	0.9-
1998 12 01	704	0.6-	0.3+	1999 02 10	704	0.0	0.2-	1999 03 15	704	0.2-	0.4-
1998 12 01	704	0.2+	1.2+	1999 02 10	704	0.4-	0.3-	1999 03 15	704	0.3-	0.2+
1998 12 21	704	0.2+	1.2-	1999 02 10	704	0.3-	0.1-				
1998 12 21	704	0.2-	0.5-	1999 02 10	704	0.3-	0.4-				

1998 XD

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	96.25678		(2000.0)	P	Q
<i>n</i>	0.19167847	ω	344.25674	-0.03578181	-0.98871946
<i>a</i>	2.9791143	Ω	107.62021	+0.93257722	-0.08534399
<i>e</i>	0.2610293	<i>i</i>	8.77774	+0.35919270	+0.12308629
<i>P</i>	5.14	<i>H</i>	15.2	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1982 08 29	413	0.5-	0.7+	1998 12 21	704	0.5+	1.2-	1999 02 10	704	0.1-	0.3-
1982 08 29	413	0.4-	1.7+	1999 01 19	704	0.9+	0.9-	1999 02 10	704	0.1-	1.2+
1994 03 14	675	0.9-	0.7+	1999 01 19	704	0.8-	0.7+	1999 02 10	704	0.0	0.8+
1994 03 14	675	1.4+	0.7+	1999 01 19	704	(2.4+	2.2+)	1999 02 10	704	0.9-	1.2+
1998 12 01	327	0.2+	0.2+	1999 01 19	704	(1.1+	2.0+)	1999 02 13	704	0.6-	0.4-
1998 12 01	327	1.0+	0.2-	1999 01 19	704	1.3+	0.5+	1999 02 13	704	1.1-	0.1-
1998 12 01	327	0.1-	0.5-	1999 01 22	385	0.1-	0.3+	1999 02 13	704	0.2-	0.3-
1998 12 02	327	0.7+	0.3-	1999 01 22	385	0.7+	0.1-	1999 02 13	704	0.1+	0.3-
1998 12 02	327	0.5+	0.7-	1999 01 22	385	0.5+	0.0	1999 02 13	704	0.7-	0.8-
1998 12 02	327	0.2+	0.7-	1999 01 25	385	0.6-	0.1+	1999 03 18	046	0.1-	0.5+
1998 12 21	704	(1.0-	2.8-)	1999 01 25	385	0.2-	0.0	1999 03 18	046	0.1-	0.5+
1998 12 21	704	0.4-	0.9-	1999 01 25	385	0.5-	0.0	1999 03 18	046	0.2+	0.8+

1998 XG₁ = 2000 EH₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	43.35764		(2000.0)	P	Q
<i>n</i>	0.18923162	ω	237.31643	-0.33001540	-0.93216863
<i>a</i>	3.0047401	Ω	232.67277	+0.91659853	-0.27874023
<i>e</i>	0.1081990	<i>i</i>	10.78759	+0.22569222	-0.23100982
<i>P</i>	5.21	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 11 19	699	0.7+	0.1+	1998 12 07	910	0.0	0.1+	2000 03 04	703	0.4+	0.4-
1998 11 19	699	0.1-	0.5+	1998 12 08	910	0.2-	0.2+	2000 03 04	703	0.6-	0.5-
1998 11 19	699	0.7+	0.2-	1998 12 08	910	0.2+	0.3+	2000 03 04	703	0.1-	0.2+
1998 11 23	691	0.7-	0.3-	1998 12 08	910	0.0	0.5+	2000 03 04	703	0.2-	0.1+
1998 11 23	691	0.8-	0.3-	2000 03 03	703	0.7+	0.2+	2000 03 09	704	0.1+	0.1-
1998 11 23	691	0.6-	0.3-	2000 03 03	703	0.6+	1.0+	2000 03 09	704	0.4-	0.2-
1998 12 07	910	0.5+	0.3-	2000 03 03	703	0.0	0.7-	2000 03 09	704	0.5-	0.6+
1998 12 07	910	0.4+	0.2-	2000 03 03	703	0.4+	0.4+	2000 03 09	704	0.3-	0.6-

1998 XH₁ = 2000 DP₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	350.93130		(2000.0)	P	Q
<i>n</i>	0.20468314	ω	60.83687	-0.98891398	-0.14491884
<i>a</i>	2.8515523	Ω	110.81473	+0.12135373	-0.91437679
<i>e</i>	0.1054599	<i>i</i>	1.98442	+0.08557111	-0.37803917
<i>P</i>	4.82	<i>H</i>	13.7	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1997 09 26	910	0.3+	0.1-	1998 12 08	910	0.0	0.1-	2000 03 03	704	0.2+	0.0
1997 09 26	910	0.1-	0.0	1998 12 08	910	0.6+	0.0	2000 03 04	704	0.1+	0.2+

1997 09 27	910	0.1-	0.2-	1998 12 15	910	0.3-	0.0	2000 03 04	704	0.3-	0.2+
1998 11 11	699	0.5-	0.9-	1998 12 15	910	0.2-	0.1-	2000 03 04	704	0.1+	0.1+
1998 11 11	699	0.7-	1.0+	1998 12 15	910	0.3-	0.1-	2000 03 04	704	0.0	0.1+
1998 11 11	699	1.2-	1.5-	1998 12 21	910	0.4+	0.2-	2000 03 04	704	0.0	0.1-
1998 11 18	704	0.4-	0.3+	1998 12 21	910	0.2+	0.1+	2000 03 05	704	0.1+	0.3+
1998 11 18	704	(1.0+	2.7-)	1998 12 21	910	0.3+	0.4+	2000 03 05	704	0.3+	0.3+
1998 11 18	704	(1.2+	2.3-)	2000 02 11	704	1.3+	0.4-	2000 03 05	704	0.5+	0.1-
1998 11 18	704	(5.1-	2.2-)	2000 02 11	704	0.7+	0.4-	2000 03 05	704	0.3+	0.0
1998 11 21	704	0.5+	0.5+	2000 02 11	704	1.0+	0.3-	2000 03 05	704	0.0	0.1+
1998 11 21	704	0.2-	0.6-	2000 02 11	704	0.4+	0.7+	2000 03 05	120	0.3-	0.4-
1998 11 21	704	1.0+	0.4-	2000 02 11	704	0.1+	0.8-	2000 03 05	120	(2.2-	0.0)
1998 11 21	704	(3.2+	0.8-)	2000 02 29	704	0.4+	0.2-	2000 03 05	120	0.3-	0.5-
1998 11 23	699	0.1+	0.3+	2000 02 29	704	0.0	0.6+	2000 03 06	120	1.5-	0.2-
1998 11 23	699	0.4+	1.3+	2000 02 29	704	0.2+	0.1-	2000 03 06	120	1.3-	0.1-
1998 11 23	699	0.0	0.3-	2000 02 29	704	0.1+	0.3-	2000 03 11	699	0.2-	0.2+
1998 11 24	561	0.7-	0.4+	2000 03 02	120	0.4-	0.6-	2000 03 11	699	0.1-	0.1+
1998 11 24	561	0.8-	0.4+	2000 03 02	120	0.4-	0.4-	2000 03 11	699	0.4-	0.0
1998 11 24	561	0.8-	0.3+	2000 03 02	120	0.3-	0.3-	2000 03 11	699	0.4-	0.3+
1998 12 07	910	0.9+	0.3-	2000 03 03	704	0.1-	0.1+	2000 03 12	704	0.1+	0.4+
1998 12 07	910	0.8+	0.0	2000 03 03	704	0.0	0.0	2000 03 12	704	0.1+	0.6+
1998 12 07	910	0.7+	0.3-	2000 03 03	704	0.1-	0.1-	2000 03 12	704	0.1-	0.8+
1998 12 08	910	0.2+	0.1-	2000 03 03	704	0.2+	0.1+				

1998 XN₁ = 1978 WW₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	166.09205		(2000.0)	P	Q
<i>n</i>	0.19608732	ω	264.42936	+0.83271333	+0.48053333
<i>a</i>	2.9342901	Ω	66.58239	-0.30926324	+0.81574280
<i>e</i>	0.0913031	<i>i</i>	17.44474	-0.45928723	+0.32194939
<i>P</i>	5.03	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	6

Residuals in seconds of arc

1978 11 29	675	0.4-	0.7+	1998 11 24	704	0.6+	0.6+	1998 12 08	910	1.1+	0.1-
1978 11 30	675	0.2+	0.4-	1998 11 24	704	0.3-	1.0+	1998 12 13	691	1.1-	0.3+
1998 11 23	699	0.8-	0.4-	1998 12 07	910	0.2+	0.4+	1998 12 13	691	0.9-	0.2+
1998 11 23	699	1.3-	1.0-	1998 12 07	910	0.1+	0.4+	1998 12 13	691	0.9-	0.3+
1998 11 23	699	0.1-	0.4-	1998 12 07	910	0.2+	0.3+	1998 12 16	910	0.7+	0.0
1998 11 24	704	0.2-	1.3-	1998 12 08	910	1.1+	0.3-	1998 12 16	910	0.9+	0.2-
1998 11 24	704	0.8-	0.3+	1998 12 08	910	1.0+	0.2-	1998 12 16	910	0.8+	0.0

1998 XU₁ = 1993 RR₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	50.60391		(2000.0)	P	Q
<i>n</i>	0.22289727	ω	284.96881	-0.67312173	-0.73922794
<i>a</i>	2.6940121	Ω	207.37624	+0.69498810	-0.62252221
<i>e</i>	0.2304748	<i>i</i>	2.64179	+0.25278188	-0.25692052
<i>P</i>	4.42	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1993 09 15	809	1.2-	0.1+	1998 11 24	699	0.5+	0.2+	1998 12 07	910	0.2-	0.2-
1993 09 15	809	0.5-	0.4-	1998 11 24	699	0.0	0.4+	1998 12 07	910	0.1-	0.4-
1993 09 15	809	(2.4-	1.0-)	1998 11 24	699	0.3+	0.0	1998 12 07	910	0.0	0.4-
1993 09 22	809	(4.2+	2.1+)	1998 11 26	691	0.2-	0.1+	1998 12 08	910	0.1+	0.1-
1993 09 22	809	0.1-	0.1+	1998 11 26	691	0.2-	0.0	1998 12 08	910	0.4+	0.0
1993 09 22	809	1.8+	0.1+	1998 11 26	691	0.7-	0.0	1998 12 08	910	0.2+	0.2+

1998 XM₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	212.62812		(2000.0)	P	Q
n	0.40640483	ω	98.94808	+0.87588628	+0.22973051
a	1.8050815	Ω	248.70503	-0.33901965	+0.91875165
e	0.3403373	i	27.09156	+0.34334952	+0.32112193
P	2.43	H	17.2	G 0.15	U 3

2000 MAR. 20

M.P.C. 39285

Residuals in seconds of arc

1998 12 09	704	0.0	0.0	1998 12 12	422	0.1−	0.6+	1999 01 13	691	0.9+	0.5+
1998 12 09	704	1.6−	0.7−	1998 12 12	402	1.8+	0.5+	1999 01 14	691	0.1−	0.4−
1998 12 09	704	0.7−	0.8+	1998 12 12	402	0.2−	0.4−	1999 01 14	691	0.0	0.2−
1998 12 09	704	0.1+	0.1+	1998 12 12	402	0.2+	0.3−	1999 01 17	691	0.0	0.1+
1998 12 09	704	0.3−	0.6−	1998 12 12	118	0.2−	0.3+	1999 01 17	691	0.1+	0.1+
1998 12 09	557	0.7+	0.3−	1998 12 12	118	0.3+	0.6+	1999 01 17	691	0.3+	0.1+
1998 12 09	557	0.1+	0.8−	1998 12 16	402	0.4−	0.0	1999 01 19	691	0.2−	0.0
1998 12 10	046	0.4−	0.4−	1998 12 16	402	0.5−	0.5−	1999 01 19	691	0.2+	0.3−
1998 12 10	046	0.1−	0.2+	1998 12 16	402	0.0	0.7−	1999 01 19	691	0.2+	0.2+
1998 12 10	046	0.3+	0.1−	1998 12 17	402	0.2−	0.5+	1999 01 22	691	0.3−	0.2−
1998 12 10	046	1.0+	0.1−	1998 12 17	402	0.2−	0.2−	1999 01 22	691	0.9−	0.2+
1998 12 11	734	0.8+	1.3+	1998 12 17	402	0.0	0.0	1999 01 22	691	0.2−	0.1−
1998 12 11	734	(2.3+	0.5−)	1998 12 23	402	0.4+	0.4+	2000 02 10	413	0.2−	0.2−
1998 12 11	734	0.4−	0.9+	1998 12 23	402	0.4−	0.2+	2000 02 10	413	0.0	0.0
1998 12 11	704	1.5−	0.2+	1998 12 23	402	0.3−	0.9−	2000 02 10	413	0.5−	0.4−
1998 12 11	734	1.4+	1.2−	1999 01 05	402	0.1+	0.6+	2000 02 26	413	0.2+	0.1+
1998 12 11	704	1.2+	0.1+	1999 01 05	402	0.5−	0.1+	2000 02 26	413	0.2+	0.2+
1998 12 11	704	0.5+	1.2+	1999 01 05	402	0.3−	0.9−	2000 02 26	413	0.2+	0.2+
1998 12 11	704	1.6−	0.6−	1999 01 13	691	0.3+	0.3+				
1998 12 11	422	0.2+	0.0	1999 01 13	691	0.5+	0.2+				

1998 XU₂ = 2000 EP₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		146.59704		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>		0.22549280	ω	39.06488		+0.93075147		−0.35965756			
<i>a</i>		2.6732994	Ω	341.68116		+0.26018880		+0.77814648			
<i>e</i>		0.1759976	<i>i</i>	12.11049		+0.25691142		+0.51491213			
<i>P</i>		4.37	<i>H</i>	13.8		<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1993 09 18	010	0.0	1.1−	1998 12 08	327	0.9+	0.0	1999 01 16	704	0.1+	0.5+
1993 09 18	010	1.5−	0.4−	1998 12 08	327	1.3+	0.2−	1999 01 16	704	0.2−	1.0−
1993 09 18	010	0.2−	0.8−	1998 12 17	704	1.1+	0.3−	1999 01 16	704	0.2−	1.5−
1993 09 18	010	1.8+	1.3+	1998 12 17	704	0.2+	1.3+	1999 01 16	704	0.4−	0.7−
1993 09 18	010	0.2−	0.4+	1998 12 17	704	0.6−	1.0+	2000 03 09	704	0.0	0.3−
1993 09 18	010	0.8+	0.2−	1998 12 17	704	0.7−	0.2−	2000 03 09	704	0.3−	0.6−
1998 12 07	327	0.0	0.1+	1998 12 17	704	1.0−	1.8+	2000 03 09	704	0.6+	0.9−
1998 12 07	327	0.1+	0.2−	1998 12 21	327	0.0	0.4−	2000 03 09	704	0.3−	0.3+
1998 12 07	327	0.4+	0.1−	1998 12 21	327	0.1+	0.2+	2000 03 13	704	0.1−	0.3+
1998 12 08	327	0.3−	0.3−	1998 12 21	327	0.9+	1.4−	2000 03 13	704	0.5−	0.3+
1998 12 08	327	1.0−	0.1+	1998 12 30	327	0.2−	0.5+	2000 03 13	704	0.0	0.9−
1998 12 08	327	0.3−	0.1−	1998 12 30	327	0.3−	0.5+	2000 03 13	704	0.0	0.8+
1998 12 08	327	0.5+	0.3−	1998 12 30	327	0.3−	0.0				

1998 XA₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		158.38828		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>		0.24441635	ω	248.00362		+0.97866280		−0.19605253			
<i>a</i>		2.5334706	Ω	123.25304		+0.20495813		+0.91027899			
<i>e</i>		0.1985938	<i>i</i>	4.21761		+0.01453589		+0.36463072			
<i>P</i>		4.03	<i>H</i>	14.3		<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1998 12 08	104	0.4+	0.1−	1998 12 22	704	(2.2+	1.2−)	2000 02 11	704	0.2+	0.4−
1998 12 08	104	0.0	0.2−	1998 12 22	704	0.3−	0.2+	2000 02 11	704	0.2+	0.1−
1998 12 08	108	0.6−	0.5−	1998 12 22	108	0.7−	0.6−	2000 02 11	704	0.9+	0.1−
1998 12 08	108	0.1−	0.6−	1998 12 22	108	1.8−	0.2−	2000 02 11	704	(0.4+	2.1−)
1998 12 08	108	0.2−	0.1−	1998 12 24	104	1.7+	1.0+	2000 02 27	703	0.1+	0.5+
1998 12 12	104	0.0	0.1−	1998 12 24	104	(2.3+	0.2+)	2000 02 27	703	0.9+	0.4+
1998 12 12	104	0.1−	0.2−	1998 12 25	108	0.6−	0.1+	2000 02 27	703	0.9−	0.8−
1998 12 16	704	0.4+	0.5−	1998 12 25	108	(1.6+	2.1−)	2000 02 27	703	0.1−	0.4−
1998 12 16	704	1.5−	1.1+	1998 12 25	108	1.0+	1.4+	2000 03 02	104	0.2−	0.1−
1998 12 16	704	(1.4−	3.2+)	1998 12 25	108	0.0	0.3−	2000 03 02	104	0.0	0.2−
1998 12 16	704	1.6−	1.8+	1999 01 15	108	0.9+	0.7−	2000 03 03	104	0.4−	0.0
1998 12 17	104	1.7+	0.1−	1999 01 15	108	0.7+	0.5−	2000 03 04	104	0.4−	0.5+

1998 12 17	104	1.0−	0.0	1999 01 15	108	0.5−	0.6−	2000 03 04	104	(1.2−	2.2+)
1998 12 17	104	0.2−	0.3+	1999 02 18	104	1.8+	1.2+	2000 03 04	104	1.3+	0.6+
1998 12 18	108	1.4+	1.1−	1999 02 18	104	0.6+	0.6+	2000 03 12	704	0.5−	0.3−
1998 12 18	108	0.3+	0.6+	1999 02 19	104	1.9−	0.2−	2000 03 12	704	0.3+	1.0+
1998 12 22	704	0.6+	1.1−	1999 02 19	104	1.3−	0.1+	2000 03 12	704	0.4−	0.5−
1998 12 22	704	0.4+	0.5−	2000 02 11	704	0.0	0.1−	2000 03 12	704	0.8−	0.3−

1998 XS₃ = 2000 DA₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		91.39846		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>		0.18417559	ω	23.96209		+0.35782321		−0.93281740			
<i>a</i>		3.0594827	Ω	45.10327		+0.84672816		+0.30489157			
<i>e</i>		0.1215407	<i>i</i>	3.44720		+0.39371814		+0.19207505			
<i>P</i>		5.35	<i>H</i>	14.2		<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1998 12 09	411	0.1−	0.3+	1998 12 17	704	0.1+	0.3−	2000 03 02	703	0.3−	0.1+
1998 12 09	411	0.0	0.3+	1998 12 17	704	0.1+	0.4+	2000 03 02	703	0.3−	1.6−
1998 12 11	411	0.4−	0.7−	1998 12 17	704	1.6+	0.7+	2000 03 02	703	1.2+	0.7+
1998 12 11	411	0.9−	0.0	1998 12 17	704	1.0−	0.2+	2000 03 02	703	0.7−	0.8+
1998 12 14	704	1.4−	0.4+	1998 12 17	411	1.4−	1.2+	2000 03 11	699	0.4−	0.2+
1998 12 14	704	0.0	0.0	1998 12 17	411	0.4−	0.7+	2000 03 11	699	0.3−	0.5+
1998 12 14	704	0.5+	0.7+	1998 12 24	411	(0.8−	2.5+)	2000 03 11	699	0.3−	0.3+
1998 12 14	704	0.0	0.0	1998 12 24	411	(1.2−	3.3+)	2000 03 11	699	0.2−	0.1+
1998 12 14	704	0.8+	1.5+	1999 01 15	411	0.5+	0.4−	2000 03 12	704	0.1+	0.9−
1998 12 16	704	0.8−	1.3−	1999 01 15	411	0.4−	0.0	2000 03 12	704	0.1−	1.2−
1998 12 16	704	0.3+	0.8−	2000 02 27	703	0.1−	0.0	2000 03 12	704	0.4−	0.9+
1998 12 16	704	1.6+	0.9−	2000 02 27	703	0.5+	0.0	2000 03 12	704	0.1+	0.2−
1998 12 16	704	0.7+	0.8−	2000 02 27	703	0.3+	0.2−	2000 03 12	704	0.9+	1.2+
1998 12 17	704	0.6+	1.1−	2000 02 27	703	0.0	0.7−				

1998 XU₃ = 1950 TV₁ = 2000 EW₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		172.14490		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>		0.26875636	ω	297.65676		+0.99603908		−0.08379975			
<i>a</i>		2.3781005	Ω	67.16305		+0.08861796		+0.90819599			
<i>e</i>		0.2195492	<i>i</i>	1.84847		+0.00728010		+0.41007030			
<i>P</i>		3.67	<i>H</i>	14.7		<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1950 10 15	024	0.6−	1.4−	1998 12 16	704	0.6+	1.5+	2000 03 08	704	0.5+	0.1+
1950 10 15	024	0.4+	1.9+	1998 12 16	704	(0.7+	2.4+)	2000 03 08	704	0.4−	0.4−
1998 12 09	411	0.1−	0.1−	1998 12 17	704	0.3−	0.1−	2000 03 08	704	0.6−	0.1+
1998 12 09	411	0.3−	0.3−	1998 12 17	704	0.1−	0.8−	2000 03 10	704	0.0	0.2+
1998 12 11	411	0.4−	0.3+	1998 12 17	704	0.3−	0.1−	2000 03 10	704	0.7−	0.0
1998 12 11	411	0.4−	0.9−	1998 12 17	704	0.4−	0.2−	2000 03 10	704	0.4−	0.0
1998 12 14	704	0.2+	0.0	1998 12 17	411	0.7−	0.7+	2000 03 10	704	0.2−	0.0
1998 12 14	704	0.7+	0.3−	1998 12 17	411	0.9+	0.0	2000 03 10	704	0.6−	0.2−
1998 12 14	704	0.0	0.5−	1998 12 24	411	0.5−	0.9−	2000 03 11	704	0.1+	0.1+
1998 12 14	704	0.2+	0.6−	1998 12 24	411	0.1−	0.6+	2000 03 11	704	1.1+	0.0
1998 12 14	704	0.9+	1.6−	1999 01 02	411	0.2+	0.8+	2000 03 11	704	0.1−	0.5−
1998 12 16	704	0.7−	0.2−	1999 01 02	411	0.4+	1.5+	2000 03 11	704	0.2−	0.6−
1998 12 16	704	(1.5+	2.4+)	2000 03 08	704	1.0+	1.6+				
1998 12 16	704	0.2+	1.2+	2000 03 08	704	0.6+	0.1+				

Residuals in seconds of arc

1998 08 25	809	0.3+	0.2-	1998 12 13	704	0.6+	0.6-	2000 03 04	704	0.8+	0.3-
1998 08 25	809	0.6+	0.1-	1998 12 13	704	1.4-	0.7-	2000 03 04	704	0.7+	0.4-
1998 08 25	809	0.6+	1.2-	1998 12 14	704	1.2+	0.2+	2000 03 04	704	0.5+	0.3+
1998 08 26	809	0.3+	0.8+	1998 12 14	704	1.0+	0.0	2000 03 04	704	0.2-	0.1+
1998 08 26	809	0.5+	0.3+	1998 12 14	704	0.2+	0.2-	2000 03 04	704	0.8+	0.9+
1998 08 26	809	0.8+	0.0	1998 12 14	704	1.2+	0.4-	2000 03 06	704	0.8-	0.3+
1998 09 13	699	0.5-	0.9+	1998 12 14	704	0.1+	0.6-	2000 03 06	704	0.8-	1.5-
1998 09 13	699	0.2-	0.3+	2000 02 03	704	0.7+	0.3-	2000 03 06	704	0.2-	0.1-
1998 09 13	699	0.9-	0.6+	2000 02 03	704	0.0	0.2+	2000 03 06	704	0.2-	0.1-
1998 09 27	699	0.1-	0.8+	2000 02 03	704	1.6-	0.0	2000 03 06	704	0.3-	0.6-
1998 09 27	699	0.4-	0.1+	2000 02 03	704	1.0-	0.2+	2000 03 08	704	0.0	0.5+
1998 09 27	699	1.1-	0.6+	2000 02 03	704	0.9-	0.4-	2000 03 08	704	0.1+	1.1+
1998 10 12	699	0.5-	0.5-	2000 02 11	704	0.4+	0.5+	2000 03 08	704	1.4+	0.4+
1998 10 12	699	0.2-	0.1-	2000 02 11	704	0.6-	0.4-	2000 03 08	704	0.5+	0.0
1998 10 12	699	1.1-	0.0	2000 02 11	704	0.0	0.5+	2000 03 08	704	0.5+	1.6+
1998 12 12	704	1.5+	0.4-	2000 02 11	704	0.2-	0.3-	2000 03 09	704	1.4+	1.0+
1998 12 12	704	1.6-	1.4-	2000 02 28	704	(4.0+	0.8+)	2000 03 09	704	0.3-	0.1+
1998 12 12	704	0.4-	2.0+	2000 02 28	704	(3.1+	0.2+)	2000 03 09	704	0.6+	0.0
1998 12 12	704	0.5+	1.1+	2000 02 28	704	1.9-	0.8-	2000 03 09	704	0.9-	0.7-
1998 12 13	704	0.6+	0.0	2000 02 29	704	0.5+	0.3-	2000 03 09	704	0.0	0.2+
1998 12 13	704	0.6-	0.1-	2000 02 29	704	0.1+	0.3-	2000 03 09	704	0.1+	0.4+
1998 12 13	704	0.3-	0.2-	2000 02 29	704	0.3+	0.3+	2000 03 09	704	0.3-	0.7+
1998 12 13	704	0.3-	0.2-	2000 02 29	704	0.0	0.3+	2000 03 09	704	0.4+	0.9-
1998 12 13	704	0.1+	0.0	2000 02 29	704	0.8+	0.1-	2000 03 09	704	0.1+	0.1+

1998 XR₄

Id. J. C. Pelle (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
179.20438		(2000.0)			
<i>n</i>	0.22292315	ω	57.60978	+0.99172477	-0.10702966
<i>a</i>	2.6938037	Ω	308.43510	+0.06423893	+0.89184022
<i>e</i>	0.0550273	<i>i</i>	5.19302	+0.11115455	+0.43950617
<i>P</i>	4.42	<i>H</i>	13.7	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 12 12	411	0.3+	0.0	1998 12 17	704	0.4+	0.7+	1998 12 27	411	0.1+	0.2-
1998 12 12	411	0.1+	0.3+	1998 12 17	704	1.2+	0.3+	1999 01 04	411	0.2-	0.5+
1998 12 13	411	0.5-	0.4+	1998 12 17	704	0.1-	1.7-	1999 01 04	411	0.2+	0.1-
1998 12 13	411	0.1+	0.6+	1998 12 17	704	0.4+	0.4+	1999 01 16	411	0.3-	0.7+
1998 12 14	704	0.2+	0.1+	1998 12 19	411	0.1+	1.2-	1999 01 16	411	0.2-	0.9-
1998 12 14	704	0.8-	0.4+	1998 12 19	411	0.7+	0.2-	2000 03 11	931	0.3-	0.7-
1998 12 14	704	0.8-	0.8+	1998 12 26	411	0.1+	0.2-	2000 03 11	931	0.8+	0.7+
1998 12 14	704	0.1+	0.2-	1998 12 26	411	0.5-	0.2+	2000 03 12	931	0.1+	0.2-
1998 12 14	704	1.4-	0.9-	1998 12 27	411	0.7+	0.1+	2000 03 12	931	0.7-	0.2+

1998 XS₄

Id. J. C. Pelle (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		<i>P</i>		<i>Q</i>	
270.30935		(2000.0)			
<i>n</i>	0.23030461	ω	350.02005	+0.21448426	+0.95668236
<i>a</i>	2.6359326	Ω	292.15016	-0.88084000	+0.10236740
<i>e</i>	0.1624462	<i>i</i>	12.27185	-0.42203957	+0.27254318
<i>P</i>	4.28	<i>H</i>	13.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 12 12	411	0.6-	0.4+	1998 12 17	704	1.0+	0.3-	1999 01 19	704	0.1+	1.3-
1998 12 12	411	0.0	0.4+	1998 12 19	411	0.5-	0.2-	1999 01 19	704	0.0	1.3-
1998 12 13	411	0.5-	0.0	1998 12 19	411	1.4-	0.5-	1999 01 19	704	0.7+	0.2+
1998 12 13	411	0.1+	0.4+	1998 12 26	411	0.2+	0.1-	1999 01 19	704	(2.2+	1.0-)
1998 12 14	704	0.7+	0.4+	1998 12 26	411	0.1+	0.1-	2000 03 11	931	0.2+	0.0
1998 12 14	704	0.0	0.6-	1999 01 04	411	0.1-	0.3-	2000 03 11	931	0.8-	0.5-
1998 12 14	704	0.5+	0.6+	1999 01 04	411	0.7-	0.2-	2000 03 12	931	1.8-	0.1-
1998 12 14	704	0.9-	1.0-	1999 01 15	411	0.4+	0.2+	2000 03 12	931	0.3-	0.1-
1998 12 14	704	0.3+	1.1+	1999 01 15	411	0.5-	0.2+	2000 03 13	704	0.7+	1.2+
1998 12 17	704	0.3+	0.3-	1999 01 16	704	0.6-	0.4-	2000 03 13	704	0.0	0.5+

1998 12 17	704	0.6+	0.9-	1999 01 16	704	0.4+	1.2+	2000 03 13	704	1.3+	1.2-
1998 12 17	704	0.1+	0.3-	1999 01 16	704	0.0	1.2+	2000 03 13	704	0.7+	0.2+
1998 12 17	704	0.3+	0.4+	1999 01 16	704	0.3-	1.2+				

1998 XZ₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>		<i>P</i>		<i>Q</i>	
197.14951		(2000.0)			
<i>n</i>	0.36484255	ω	9.40556	+0.89118984	+0.39207977
<i>a</i>	1.9396903	Ω	324.60067	-0.43759020	+0.61046919
<i>e</i>	0.6383040	<i>i</i>	23.19509	-0.11956376	+0.68818661
<i>P</i>	2.70	<i>H</i>	16.3	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 12 11	704	0.5+	1.1+	1998 12 14	658	1.9-	1.7-	1998 12 27	402	0.2+	0.2-
1998 12 11	704	1.7+	0.9-	1998 12 14	658	1.5-	1.3-	1998 12 27	402	0.5-	0.0
1998 12 11	704	1.4+	0.6-	1998 12 14	658	1.8-	1.1-	1998 12 27	402	0.3-	0.4+
1998 12 11	704	(2.8+	0.0)	1998 12 14	658	1.6-	1.4-	1999 01 05	557	0.4-	0.3-
1998 12 11	704	1.4+	0.5+	1998 12 14	658	1.2-	1.3-	1999 01 05	557	0.3-	0.2-
1998 12 13	327	0.3+	0.0	1998 12 14	704	0.6+	0.4+	1999 01 18	402	0.1-	0.4+
1998 12 13	327	0.3+	0.2+	1998 12 14	704	0.2-	0.2-	1999 01 18	402	0.2-	0.4+
1998 12 13	327	0.0	0.2+	1998 12 14	704	0.0	0.9+	1999 01 18	402	0.1-	0.1+
1998 12 13	327	0.3+	0.1+	1998 12 14	704	0.6-	1.2+	1999 01 22	360	0.7+	0.4+
1998 12 13	046	0.0	0.5+	1998 12 14	587	1.1+	2.0-	1999 01 22	360	0.9+	0.3+
1998 12 13	046	0.1+	0.5+	1998 12 16	360	0.1-	0.1+	1999 01 22	360	0.9+	0.2+
1998 12 13	046	0.1+	0.2+	1998 12 16	360	0.1-	0.1-	2000 02 10	413	0.1-	0.4-
1998 12 13	046	0.5+	0.1+	1998 12 16	360	0.0	0.0	2000 02 10	413	0.1-	0.4-
1998 12 13	046	0.5+	0.2+	1998 12 17	540	0.7+	0.8+	2000 02 10	413	0.2+	0.1-
1998 12 13	046	0.3+	0.2+	1998 12 17	540	0.3-	1.9+	2000 02 26	413	0.2+	0.1+
1998 12 14	711	(2.4-	0.1-)	1998 12 17	540	0.5+	0.5+	2000 02 26	413	0.0	0.1+
1998 12 14	711	0.0	0.2+	1998 12 23	402	0.9-	0.5-	2000 02 26	413	0.1+	0.2-
1998 12 14	711	0.1+	0.2+	1998 12 23	402	0.7-	0.4-	2000 02 27	693	1.8-	0.9+
1998 12 14	704	0.4+	0.5+	1998 12 23	402	0.7-	0.5-	2000 02 27	693	1.3+	0.2-

1998 XP₆ = 2000 DN₁₀₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>		<i>P</i>		<i>Q</i>	
333.28338		(2000.0)			
<i>n</i>	0.23250967	ω	120.35334	-0.96276053	+0.25749658
<i>a</i>	2.6192404	Ω	74.67389	-0.26797035	-0.86848744
<i>e</i>	0.0504159	<i>i</i>	4.90048	-0.03583371	-0.42358598
<i>P</i>	4.24	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 11 15	691	0.4-	0.3+	1998 12 15	910	1.2+	0.2+	2000 02 29	704	0.2-	0.2-
1998 11 15	691	0.5-	0.1+	1998 12 16	910	1.3+	0.3+	2000 02 29	704	0.6+	0.5-
1998 11 27	691	0.0	0.3-	1998 12 16	910	1.5+	0.0	2000 02 29	704	0.3+	0.1-
1998 11 27	691	0.0	1.6+	1998 12 16	910	1.6+	0.2+	2000 03 05	704	0.0	0.4-
1998 12 08	691	0.6-	0.2-	1999 02 07	691	0.2+	0.6-	2000 03 05	704	0.2+	0.1+
1998 12 08	691	0.8-	0.0	1999 02 07	691	0.4+	0.3-	2000 03 05	704	0.5-	0.4-
1998 12 08	691	1.1-	0.0	1999 02 07	691	0.3+	1.0-	2000 03 05	704	0.3-	0.2-
1998 12 13	691	1.7-	0.2-	2000 02 04	704	0.9+	0.8+	2000 03 12	704	0.2+	0.8+
1998 12 13	691	1.4-	0.1-	2000 02 04	704	0.1+	0.5-	2000 03 12	704	0.1+	0.6+
1998 12 13	691	1.7-	0.3-	2000 02 04	704	0.3+	0.8-	2000 03 12	704	0.9-	0.4-

2000 MAR. 20

M.P.C. 39287

Residuals in seconds of arc

1998 12 11	699	0.3+	0.5-	1998 12 25	120	(2.2-	2.8+)	2000 03 04	704	0.6+	0.1-
1998 12 11	699	0.4-	1.3+	1999 01 06	120	0.3-	0.5-	2000 03 04	704	0.6-	0.2-
1998 12 11	699	0.2-	0.1-	1999 01 06	120	0.9+	0.1+	2000 03 09	704	0.0	0.5+
1998 12 14	120	0.1+	0.4-	2000 02 03	704	0.2+	0.2+	2000 03 09	704	0.7-	0.3+
1998 12 14	120	0.7+	1.4+	2000 02 03	704	0.1+	0.2+	2000 03 09	704	0.1-	0.7+
1998 12 15	120	0.2-	0.1+	2000 02 03	704	0.9+	0.1+	2000 03 09	704	0.1-	0.4+
1998 12 15	120	0.8-	0.3+	2000 02 03	704	0.4-	1.1+	2000 03 12	704	0.1-	0.4-
1998 12 18	120	0.5+	0.2+	2000 02 03	704	0.7+	0.1-	2000 03 12	704	0.1-	0.3-
1998 12 18	120	0.2+	0.3-	2000 03 04	704	0.0	0.4-	2000 03 12	704	0.1+	0.2-
1998 12 18	120	0.2-	0.3-	2000 03 04	704	0.6+	0.3+	2000 03 12	704	1.1-	0.0
1998 12 25	120	0.4-	1.6-	2000 03 04	704	0.4+	0.5-	2000 03 12	704	0.1-	1.3-

1998 XO₁₁ = 2000 EH₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	261.29365		(2000.0)	P	Q
n	0.20533815	ω	299.00670	+0.30586761	+0.95205806
a	2.8454849	Ω	348.79954	-0.86332884	+0.27490836
e	0.0512725	i	1.62818	-0.40138301	+0.13420449
P	4.80	H	13.6	G 0.15	U 4

Residuals in seconds of arc

1997 10 30	704	1.5+	0.0	1998 12 17	704	0.1+	0.1-	2000 03 04	703	0.7-	0.5-
1997 10 30	704	1.2-	0.7-	1998 12 21	411	0.8-	0.4+	2000 03 09	704	0.6-	0.1+
1997 10 30	704	0.2-	0.6+	1998 12 21	411	0.7-	0.4-	2000 03 09	704	0.1+	0.3+
1997 10 30	704	0.7+	0.0	1998 12 26	411	0.1-	0.4-	2000 03 09	704	0.3-	0.3+
1997 10 30	704	(2.3-	2.1+)	1998 12 26	411	0.3-	0.1-	2000 03 09	704	0.0	0.5+
1997 10 30	566	0.4-	0.5+	1999 01 05	411	0.8+	1.1-	2000 03 09	704	1.3-	1.0-
1997 10 30	566	0.0	0.0	1999 01 05	411	1.0+	0.1-	2000 03 10	704	1.1+	1.0-
1997 10 30	566	0.7-	0.2+	1999 01 15	411	0.3-	0.1-	2000 03 10	704	0.1+	0.5+
1998 12 13	411	0.6+	0.4+	1999 01 15	411	0.3+	0.8+	2000 03 10	704	0.0	0.1+
1998 12 13	411	0.2+	1.4-	1999 01 16	704	0.1+	0.7+	2000 03 10	704	0.2+	0.0
1998 12 16	411	0.4-	0.8+	1999 01 16	704	0.1-	0.1-	2000 03 10	704	0.7+	0.7+
1998 12 16	411	0.7-	0.5+	1999 01 16	704	1.3-	0.6-	2000 03 11	704	0.4+	0.2-
1998 12 17	704	1.1+	0.5+	1999 01 16	704	0.3+	0.1-	2000 03 11	704	0.5+	0.2+
1998 12 17	704	0.2-	0.1-	2000 03 04	703	1.2-	0.6-	2000 03 11	704	0.5+	0.5+
1998 12 17	704	0.3+	0.4+	2000 03 04	703	0.5-	0.1-	2000 03 11	704	1.1+	0.9+
1998 12 17	704	0.0	0.2+	2000 03 04	703	0.0	0.1-				

1998 XT₁₅ = 2000 DY₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	221.90977		(2000.0)	P	Q
n	0.29079230	ω	321.26851	+0.71025158	+0.70388049
a	2.2563897	Ω	353.96384	-0.62060415	+0.61956834
e	0.2061189	i	5.31673	-0.33225469	+0.34740082
P	3.39	H	15.1	G 0.15	U 5

Residuals in seconds of arc

1998 12 15	046	0.3-	0.3-	1998 12 21	046	0.3+	0.7+	2000 02 29	704	1.2-	0.8+
1998 12 15	046	0.2-	0.3-	1998 12 21	046	0.0	0.1-	2000 02 29	704	1.0-	0.2+
1998 12 15	046	0.1+	0.1-	1998 12 23	046	0.7+	0.5+	2000 03 03	704	1.3+	0.6+
1998 12 15	046	0.6-	0.8+	1998 12 23	046	0.3+	0.2+	2000 03 03	704	0.1-	0.8-
1998 12 15	046	0.2+	0.1-	1998 12 23	046	0.5-	0.1+	2000 03 03	704	0.6+	0.1-
1998 12 17	046	0.5-	0.2+	1999 01 19	046	0.2-	0.1+	2000 03 03	704	0.3+	0.3-
1998 12 17	046	0.1-	0.2+	1999 01 19	046	0.3+	0.3-	2000 03 03	704	0.4-	0.3-
1998 12 17	046	0.0	0.1-	1999 01 19	046	0.7-	0.3+	2000 03 11	704	0.2+	0.5-
1998 12 17	046	0.1-	0.1+	1999 01 20	046	0.3-	1.5-	2000 03 11	704	0.2+	0.0
1998 12 17	046	0.6+	0.1+	1999 01 20	046	0.3+	1.2-	2000 03 11	704	0.4-	0.2-
1998 12 17	046	0.2+	0.0	1999 01 20	046	0.4+	0.3+	2000 03 11	704	0.4-	1.3+
1998 12 21	046	0.0	0.0	2000 02 29	704	0.0	0.1-	2000 03 11	704	0.1+	0.3-

1998 XN₁₇

Id. M. Tichý (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

$\dot{M}$	194.95424		(2000.0)	P	Q		
n	1.01259046	ω	226.30172	+0.66954127	+0.73205261		
a	0.9821553	Ω	86.17523	-0.64008992	+0.65454153		
e	0.2098026	i	7.24037	-0.37682804	+0.18887660		
P	0.97	H	22.4	G	0.15	U	5

Residuals in seconds of arc

1998 12 15	704	0.1-	0.3+	1998 12 18	046	1.0-	1.6+	2000 01 15	046	0.3-	0.3+
1998 12 15	704	0.7+	0.3-	1998 12 18	046	0.2-	0.1-	2000 01 15	046	0.9+	0.6-
1998 12 15	704	0.8+	0.5+	1998 12 18	046	0.2-	0.1+	2000 01 15	046	0.1+	1.1-
1998 12 15	704	0.5+	1.0-	1998 12 18	046	0.8-	0.0	2000 01 15	046	0.6-	0.3+
1998 12 15	704	0.1-	1.0+	1998 12 18	046	0.2-	0.2-	2000 01 15	046	0.5-	0.1-
1998 12 17	704	1.3-	0.9-	1998 12 20	557	0.5-	0.3+	2000 01 15	046	0.3-	0.4-
1998 12 17	704	0.1-	1.4-	1998 12 20	557	0.2+	0.2+	2000 01 15	046	0.1+	0.0
1998 12 17	704	1.2+	0.5-	1999 01 08	658	0.1+	0.2-	2000 02 28	693	0.1+	0.7+
1998 12 17	704	1.7+	1.3-	1999 01 08	658	0.2+	0.3-	2000 02 28	693	0.2-	0.5+
1998 12 18	587	0.0	0.6+	1999 01 08	658	0.3+	0.1-	2000 02 28	693	0.2+	0.4+
1998 12 18	587	1.2-	1.9+	2000 01 15	046	0.1+	0.0				

1998 XT₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	128.54438		(2000.0)	P	Q
n	0.17324931	ω	183.39676	+0.85387252	-0.51887015
a	3.1868017	Ω	207.97951	+0.47956579	+0.81487524
e	0.1296338	i	5.00527	+0.20228288	+0.25836429
P	5.69	H	13.8	G 0.15	U 4

Residuals in seconds of arc

1998 12 12	402	0.2+	0.4+	1998 12 22	704	0.1+	1.1-	1999 02 16	402	0.6-	0.0
1998 12 12	402	0.1+	0.2+	1998 12 22	704	0.7-	0.9-	1999 02 16	402	0.1-	0.7+
1998 12 15	704	0.9-	0.2-	1998 12 22	704	1.8-	0.9-	2000 02 27	703	1.4-	0.4+
1998 12 15	704	0.6+	1.2-	1998 12 27	900	0.6-	0.8+	2000 02 27	703	0.1+	0.1-
1998 12 15	704	0.7+	0.7-	1998 12 27	900	0.2-	0.5+	2000 02 27	703	0.4+	0.6-
1998 12 15	704	1.6+	0.2-	1998 12 28	402	0.0	0.3+	2000 02 27	703	0.6-	0.4-
1998 12 16	402	0.3-	0.5+	1998 12 28	402	0.1+	0.5+	2000 03 11	704	0.2-	0.1-
1998 12 16	402	0.5-	0.4+	1999 01 05	402	0.6-	0.7+	2000 03 11	704	0.5+	0.3+
1998 12 16	402	0.2-	0.3+	1999 01 05	402	0.5-	0.4+	2000 03 11	704	0.2+	0.3-
1998 12 16	402	0.0	0.1+	1999 01 05	402	1.1-	0.0	2000 03 11	704	0.4-	0.3+
1998 12 16	402	0.4+	0.4+	1999 01 26	402	1.0+	0.1-	2000 03 11	704	0.0	0.3+
1998 12 16	402	0.1-	0.5+	1999 01 26	402	1.0+	0.3-	2000 03 14	402	0.1+	0.6+
1998 12 16	402	0.2+	0.3+	1999 01 26	402	0.7+	0.3+	2000 03 14	402	0.3-	0.5-
1998 12 22	704	0.4+	1.0-	1999 02 06	402	0.2+	1.3+	2000 03 14	402	0.7+	0.4+
1998 12 22	704	1.2+	1.4-	1999 02 06	402	0.4-	0.2+	2000 03 14	402	0.7+	0.8-

1998 XE₁₈ = 2000 EM₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	303.12431		(2000.0)	P	Q
n	0.26004672	ω	170.68883	-0.55109465	+0.82686306
a	2.4309077	Ω	65.79201	-0.77328669	-0.45553213
e	0.0776651	i	7.06724	-0.31356399	-0.32983021
P	3.79	H	14.9	G 0.15	U 4

Residuals in seconds of arc

1998 12 08	691	0.9-	0.1-	2000 01 12	557	0.2+	0.8-	2000 03 10	704	0.8+	0.2+
1998 12 08	691	0.7-	0.3+	2000 01 12	557	0.1+	0.3+	2000 03 12	703	0.7-	0.1-
1998 12 08	691	1.4-	0.5+	2000 01 12	557	0.6-	0.3+	2000 03 12	703	0.6+	0.9+
1998 12 14	691	1.0+	0.2+	2000 01 12	557	0.6+	0.6-	2000 03 12	703	1.3+	0.4-
1998 12 14	691	1.0+	0.0	2000 03 09	704	0.2+	0.4-	2000 03 12	703	0.0	0.3-
1998 12 14	691	1.2+	0.1+	2000 03 09	704	0.1+	0.5+	2000 03 12	704	0.4+	0.1+
1998 12 25	691	0.3-	0.2+	2000 03 09	704	0.7-	0.2-	2000 03 12	704	0.2-	0.4-
1998 12 25	691	0.2-	0.4+	2000 03 09	704	0.8-	0.0	2000 03 12	704	0.8-	0.3-
1998 12 25	691	0.2+	0.1-	2000 03 09	704	0.1-	0.1+	2000 03 12	704	0.1+	0.3+
1999 01 24	691	0.1+	0.7-	2000 03 10	704	0.0	0.6-	2000 03 12	704	0.0	0.3+

M.P.C. 39288

2000 MAR. 20

1999 01 24 691 (0.6+ 2.2-) 2000 03 10 704 0.0 0.6+
 1999 01 24 691 0.0 0.8- 2000 03 10 704 0.3- 0.8+

1998 XS₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 312.66200 (2000.0)			P		Q	
<i>n</i>	0.21639583	ω	338.82687	-0.00234992	+0.96668601	
<i>a</i>	2.7477052	Ω	290.30170	-0.87380219	-0.12645009	
<i>e</i>	0.2492929	<i>i</i>	15.83737	-0.48627586	+0.22255009	
<i>P</i>	4.55	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 11 14	327	0.4+	0.6-	1998 12 23	691	0.5-	0.0	1999 01 18	704	0.9+	0.7-
1998 11 14	327	0.7+	0.2+	1998 12 23	691	0.6-	0.2-	1999 01 18	704	1.1-	0.4+
1998 11 14	327	0.1+	0.3-	1998 12 23	691	0.9-	0.2+	1999 01 18	704	0.3+	0.8+
1998 11 15	699	0.8-	0.1-	1998 12 23	120	0.7-	0.6-	1999 02 05	327	0.0	0.3-
1998 11 15	699	0.0	0.8+	1998 12 23	120	0.7+	0.4+	1999 02 05	327	0.1-	0.0
1998 11 15	699	1.4-	0.9-	1998 12 24	120	0.4+	0.3+	1999 02 05	327	0.0	0.2-
1998 12 10	691	0.4+	0.3-	1998 12 25	120	0.3-	1.0+	1999 02 06	327	0.2+	0.1-
1998 12 10	691	0.3+	0.2-	1998 12 25	120	0.6+	0.6-	1999 02 06	327	0.0	0.5-
1998 12 10	691	0.0	0.5-	1998 12 25	120	0.5+	0.3+	1999 02 06	327	0.4-	0.1-
1998 12 14	691	0.0	0.9+	1998 12 25	120	0.2+	0.2+	2000 03 02	423	0.2-	1.1+
1998 12 14	691	0.0	0.5-	1998 12 25	120	0.4+	0.3+	2000 03 02	423	(1.5+ 2.8+)	
1998 12 14	691	0.0	0.5-	1998 12 26	120	0.0	0.1-	2000 03 02	423	0.2+	0.2+
1998 12 22	704	0.3-	0.0	1998 12 27	120	0.3+	0.1+	2000 03 03	423	1.6-	0.9-
1998 12 22	704	0.2-	0.9+	1998 12 27	120	0.7+	0.5+	2000 03 03	423	1.1+	0.2-
1998 12 22	704	0.5+	0.5-	1999 01 18	704	0.4-	0.1+	2000 03 03	423	0.3+	0.2-

1998 XF₂₃ = 2000 EY₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 323.09037 (2000.0)			P		Q	
<i>n</i>	0.26323062	ω	295.97116	-0.72451757	+0.68895428	
<i>a</i>	2.4112660	Ω	287.58379	-0.62447992	-0.66866810	
<i>e</i>	0.1818733	<i>i</i>	1.22640	-0.29171753	-0.27968727	
<i>P</i>	3.74	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 11 18	704	0.4+	0.2+	1998 12 19	691	0.6-	0.2+	2000 03 08	704	0.0	0.2-
1998 11 18	704	0.1+	0.8+	1998 12 19	691	0.6-	0.1-	2000 03 08	704	0.2-	0.4-
1998 11 18	704	0.4-	1.4+	1998 12 19	691	0.5-	0.3+	2000 03 08	704	0.4+	0.4+
1998 11 18	704	(0.5- 2.4+)		1999 02 10	691	0.5-	0.7-	2000 03 08	704	0.4-	0.2-
1998 11 24	704	0.4-	0.5-	1999 02 10	691	0.5-	0.3-	2000 03 08	704	0.1-	0.1-
1998 11 24	704	0.3+	0.5-	1999 02 10	691	0.1-	0.0	2000 03 11	704	0.3-	0.5-
1998 11 24	704	1.3-	0.1-	1999 02 14	691	0.3+	0.3-	2000 03 11	704	0.6+	0.1-
1998 11 25	699	1.1+	0.2-	1999 02 14	691	0.9+	0.2-	2000 03 11	704	0.1+	0.2-
1998 11 25	699	1.9-	0.9-	1999 02 14	691	0.3+	0.2-	2000 03 11	704	0.7+	0.5+
1998 11 25	699	1.5+	0.3+	2000 02 29	704	0.2+	0.0	2000 03 14	703	0.0	0.1+
1998 12 11	691	0.5+	0.1-	2000 02 29	704	0.7-	0.1-	2000 03 14	703	0.4+	0.0
1998 12 11	691	0.8+	0.4+	2000 02 29	704	0.1+	0.0	2000 03 14	703	0.4-	0.1-
1998 12 11	691	0.7+	0.2+	2000 02 29	704	0.3-	0.5+	2000 03 14	703	0.1+	0.6+

1998 XN₂₈ = 2000 AS₂₂₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 189.02449 (2000.0)			P		Q	
<i>n</i>	0.17001113	ω	251.40548	+0.54792993	+0.82440322	
<i>a</i>	3.2271400	Ω	52.65228	-0.68434893	+0.53930412	
<i>e</i>	0.0911408	<i>i</i>	10.28136	-0.48108142	+0.17178590	
<i>P</i>	5.80	<i>H</i>	12.2	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 11 24	704	0.2+	0.1-	1999 01 06	699	0.6-	0.2+	2000 01 10	699	0.1+	0.1-
1998 11 24	704	1.3-	0.4+	1999 01 06	699	0.2+	0.1+	2000 01 10	699	0.1+	0.0
1998 11 24	704	0.1-	0.4+	1999 01 06	699	0.5+	1.0-	2000 01 29	704	0.4-	0.0
1998 11 24	704	0.7+	0.7+	1999 12 10	704	0.2-	0.7-	2000 01 29	704	0.5-	0.1-

1998 11 24	704	(0.3+ 2.2+)	1999 12 10	704	0.3-	0.6-	2000 01 29	704	0.5-	0.2-
1998 12 11	699	0.8+ 0.4+	1999 12 10	704	0.9+ 1.1+		2000 01 29	704	0.6-	0.5-
1998 12 11	699	0.0 0.3+	1999 12 10	704	0.1- 0.5-		2000 01 29	704	1.1-	0.5-
1998 12 11	699	0.3+ 0.2-	1999 12 10	704	0.5+ 0.4+		2000 03 02	703	0.2+ 0.5-	
1998 12 14	704	0.4- 0.1+	2000 01 02	704	0.2- 0.6-		2000 03 02	703	0.9+ 0.7-	
1998 12 14	704	0.4+ 0.3-	2000 01 02	704	0.5- 0.1-		2000 03 02	703	0.0 0.0	
1998 12 14	704	0.9+ 0.3-	2000 01 02	704	0.2- 0.2-		2000 03 02	703	0.4- 0.1+	
1998 12 14	704	0.1- 0.3-	2000 01 02	704	0.3+ 0.3-		2000 03 12	704	0.3+ 1.0+	
1998 12 14	704	0.2+ 1.2+	2000 01 02	704	0.4- 0.0		2000 03 12	704	0.1- 0.6+	
1998 12 17	704	1.0- 0.6-	2000 01 06	699	0.3+ 1.2+		2000 03 12	704	0.6+ 0.5-	
1998 12 17	704	0.1- 0.9-	2000 01 06	699	0.4+ 0.9+		2000 03 12	704	0.3- 0.1+	
1998 12 17	704	(2.3- 0.2+)	2000 01 06	699	1.4+ 0.6+					
1998 12 17	704	0.4- 0.3-	2000 01 10	699	0.2+ 0.3+					

1998 XO₂₈ = 2000 CN₃₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 173.97512 (2000.0)			P		Q	
<i>n</i>	0.21357577	ω	69.70418	+0.97064822	+0.23452345	
<i>a</i>	2.7718394	Ω	276.70303	-0.23579299	+0.88432578	
<i>e</i>	0.0120032	<i>i</i>	3.07631	-0.04736776	+0.40369131	
<i>P</i>	4.61	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1996 05 21	566	0.2-	1.2-	1998 12 14	704	0.0	0.8+	2000 02 06	704	0.6+	0.2+
1996 05 21	566	0.3-	1.3-	1998 12 14	704	0.5+	0.2+	2000 02 06	704	0.0	0.6+
1996 05 21	566	0.7-	1.4-	1998 12 14	704	0.7+	0.7-	2000 02 06	704	0.1-	0.4+
1997 08 04	910	0.3-	0.8+	1998 12 14	704	1.2+	0.1+	2000 02 06	704	0.1-	0.1+
1997 08 04	910	0.3-	0.3+	1998 12 14	704	1.3+	0.6+	2000 02 12	704	1.0+	1.5-
1997 08 04	910	0.1-	0.4+	1998 12 17	704	0.4-	0.4+	2000 02 12	704	0.4-	0.3-
1998 08 31	704	1.0+	1.1-	1998 12 17	704	1.4-	0.1-	2000 02 12	704	(2.6- 1.7+)	
1998 08 31	704	1.7+	0.3-	1998 12 17	704	1.4-	0.8-	2000 03 01	704	0.2+	0.9+
1998 08 31	704	1.3+	0.4+	1998 12 17	704	0.3-	0.5-	2000 03 01	704	0.4+	0.2+
1998 08 31	704	1.1-	1.0-	1998 12 17	704	(2.3- 0.3+)		2000 03 01	704	0.9+	0.8+
1998 11 24	704	0.2-	0.2+	1999 01 22	699	0.3-	0.3+	2000 03 11	699	0.6-	0.4+
1998 11 24	704	0.2-	0.3-	1999 01 22	699	0.7+	0.8-	2000 03 11	699	0.3-	0.6+
1998 11 24	704	0.6+	0.6-	1999 01 22	699	0.5-	0.5-	2000 03 11	699	0.8-	0.3-
1998 11 24	704	0.4-	1.2-	2000 02 02	704	0.2+	0.0	2000 03 11	699	0.6-	0.3-
1998 11 24	704	0.4-	1.1-	2000 02 02	704	0.3+	0.3+	2000 03 13	704	0.4-	0.6-
1998 11 25	699	0.5-	0.2+	2000 02 02	704	0.3-	0.8+	2000 03 13	704	0.8-	1.0-
1998 11 25	699	0.5-	0.0	2000 02 02	704	0.0	0.7+	2000 03 13	704	0.5-	0.7-
1998 11 25	699	0.4-	0.0	2000 02 02	704	0.1+	0.3+	2000 03 13	704	0.0	0.7-
1998 12 11	699	0.2-	0.5+	2000 02 05	704	0.9+	0.1+	2000 03 13	704	0.7+	0.5+
1998 12 11	699	0.0	0.7+	2000 02 05	704	0.3+	0.4+				
1998 12 11	699	0.6+	0.1+	2000 02 05	704	0.3+	0.5+				

1998 XZ₃₂ = 2000 EN₉₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 56.94512 (2000.0)			P		Q	
<i>n</i>	0.20081702	ω	117.40125	-0.52931186	-0.84831206	
<i>a</i>	2.8880344	Ω	4.63093	+0.70434686	-0.44855406	
<i>e</i>	0.1598200	<i>i</i>	9.97547	+0.47299520	-0.28136437	
<i>P</i>	4.91	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 11 16	704	0.7-	0.3+	1998 12 17	704	0.2+	0.3-	2000 03 10	704	0.2-	1.0+
1998 11 16	704	0.1+	0.8-	1998 12 17	704	1.3+	0.3-	2000 03 10	704	0.1-	0.4+
1998 11 16	704	0.4-	0.7-	1998 12 17	704	0.7-	0.6+	2000 03 10	704	0.7-	0.3-
1998 11 16	704	0.1+	0.2-	1999 01 03	411	0.2+	0.4-	2000 03 10	704	1.1-	1.4-
1998 11 16	704	0.3+	0.6-	1999 01 03	411	0.1+	0.8-	2000 03 14	704	0.6+	0.1-
1998 12 14	704	0.3-	0.6+	1999 01 08	704	0.4+	1.0+	2000 03 14	704	0.7+	0.6-

2000 MAR. 20

M.P.C. 39289

1998 XH₄₅ = 1988 AV₂ = 2000 DS₆₉

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17613459	ω	39.80950	+0.87157388	−0.49008240		
<i>a</i>	3.1519037	Ω	349.51175	+0.42906427	+0.77566622		
<i>e</i>	0.1515209	<i>i</i>	4.20565	+0.23719788	+0.39769479		
<i>P</i>	5.60	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1988 01 11	033	0.6+	0.9+	1999 01 16	704	1.0−	0.1+	2000 03 03	704	0.3−	0.4+
1988 01 11	033	0.2−	0.8+	1999 01 19	704	0.0	1.0−	2000 03 03	704	0.5−	0.8+
1998 12 14	704	1.4−	0.2+	1999 01 19	704	(2.0+	1.0−)	2000 03 03	704	0.2+	0.6+
1998 12 14	704	0.4+	0.9−	1999 01 19	704	0.1−	0.2+	2000 03 10	691	0.1−	0.4−
1998 12 14	704	0.8+	1.8−	1999 01 19	704	(1.8−	2.2+)	2000 03 10	691	0.0	0.4−
1998 12 14	704	(0.8+	2.7−)	2000 02 29	704	0.3−	0.9+	2000 03 10	691	0.1−	0.4−
1998 12 17	704	0.1−	0.3+	2000 02 29	704	0.0	0.4+	2000 03 11	704	0.1+	0.2−
1998 12 17	704	0.3+	0.9+	2000 02 29	704	0.9+	0.0	2000 03 11	704	0.2+	0.2−
1998 12 17	704	1.1+	0.7+	2000 02 29	704	0.4+	0.9−	2000 03 11	704	0.1+	0.1+
1998 12 17	704	(0.4−	2.2+)	2000 03 03	691	0.3+	0.1−	2000 03 11	704	0.5+	0.3+
1998 12 17	704	0.3−	0.8+	2000 03 03	691	0.2+	0.1−	2000 03 11	704	0.3−	0.0
1999 01 16	704	0.3+	0.8−	2000 03 03	704	0.1−	0.3+	2000 03 14	691	0.5−	0.4−
1999 01 16	704	0.4−	0.7−	2000 03 03	691	0.0	0.2−	2000 03 14	691	0.5−	0.3−
1999 01 16	704	0.2+	0.3+	2000 03 03	704	0.3+	0.1−	2000 03 14	691	0.7−	0.4−

1998 XZ₄₉ = 1999 BG₁₇ = 2000 ED₁₀₅Id. A. Doppler (d, *MPC* 36125), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20671307	ω	329.19245	+0.84497936	−0.50106162		
<i>a</i>	2.8328533	Ω	62.02251	+0.52360509	+0.70395988		
<i>e</i>	0.1167983	<i>i</i>	12.22083	+0.10884665	+0.50336640		
<i>P</i>	4.77	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	0.8−	1.5+	1998 12 17	704	0.2+	1.3−	2000 03 11	699	0.3−	0.2−
1998 12 14	704	0.1−	1.0+	1999 01 16	704	1.9+	0.3−	2000 03 11	699	0.4−	0.0
1998 12 14	704	0.6−	0.8−	1999 01 16	704	0.1−	0.8+	2000 03 11	699	0.0	0.5−
1998 12 14	704	0.3+	0.3−	1999 01 16	704	0.1+	1.4−	2000 03 15	699	0.2+	0.1−
1998 12 14	704	(3.1−	0.2−)	1999 01 16	704	1.2−	0.6+	2000 03 15	699	0.2+	0.4+
1998 12 17	704	0.0	0.2+	1999 01 19	704	0.1+	0.1+	2000 03 15	699	0.3−	0.3+
1998 12 17	704	1.5+	0.1+	1999 01 19	704	0.4−	0.1+	2000 03 15	699	0.3+	0.3+
1998 12 17	704	0.1+	0.8+	1999 01 19	704	0.4−	0.3+				
1998 12 17	704	0.4−	1.3−	2000 03 11	699	0.3+	0.2−				

1998 XR₅₁ = 1999 BT₁₇ = 2000 EO₂₆Id. A. Doppler (d, *MPC* 36125), B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18038699	ω	334.91208	+0.98423664	+0.17194296		
<i>a</i>	3.1021722	Ω	15.35854	−0.12407631	+0.83812872		
<i>e</i>	0.0471821	<i>i</i>	8.99249	−0.12602897	+0.51766385		
<i>P</i>	5.46	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 14	704	0.1−	0.0	1999 01 16	704	1.0−	0.1−	2000 03 11	699	0.1−	0.1+
1998 12 14	704	0.4−	0.2+	1999 01 16	704	(0.4+	2.3−)	2000 03 11	699	0.8−	0.2−
1998 12 14	704	0.1+	0.4+	1999 01 19	704	1.4+	0.4−	2000 03 11	699	0.7−	0.2+
1998 12 14	704	0.5−	0.8+	1999 01 19	704	1.1−	0.8+	2000 03 11	699	0.4−	0.1−
1998 12 17	704	1.8+	1.4−	1999 01 19	704	0.5−	1.6+	2000 03 12	704	1.0+	0.5+
1998 12 17	704	1.4−	1.3−	1999 01 19	704	(2.8−	0.1+)	2000 03 12	704	0.0	0.2+
1998 12 17	704	0.4−	1.2−	2000 03 04	012	0.8−	0.5+	2000 03 12	704	0.2+	0.2−
1998 12 17	704	0.9+	0.4+	2000 03 04	012	0.9+	0.3+	2000 03 12	704	0.4+	0.2−

1999 01 16	704	0.4−	0.3−	2000 03 06	012	0.3−	0.3−	2000 03 12	704	0.3+	0.2+
1999 01 16	704	1.4+	0.5+	2000 03 06	012	0.3+	1.0−				

1998 XX₅₂ = 2000 EN₈₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19825163	ω	249.77029	+0.95724092	+0.28358655		
<i>a</i>	2.9128952	Ω	93.72146	−0.23941390	+0.88750875		
<i>e</i>	0.0897086	<i>i</i>	3.28436	−0.16239089	+0.36318988		
<i>P</i>	4.97	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 10 30	704	0.5+	1.0+	1999 01 16	704	0.1−	0.5+	2000 02 11	704	1.1+	1.5+
1997 10 30	704	0.0	1.4+	1999 01 16	704	1.0−	1.8−	2000 02 27	703	0.3+	0.5+
1997 10 30	704	0.9−	1.2+	1999 01 16	704	0.3−	0.2+	2000 02 27	703	1.0−	0.6+
1997 10 30	704	1.2−	0.5+	1999 01 19	704	0.0	0.2+	2000 02 27	703	1.2−	0.1+
1997 10 30	704	0.7−	1.3+	1999 01 19	704	0.2−	0.2−	2000 02 27	703	1.0+	0.3+
1998 12 14	704	0.3+	0.2−	1999 01 19	704	1.3+	1.3+	2000 03 08	704	0.1−	0.5+
1998 12 14	704	0.2+	0.1+	1999 01 19	704	0.3−	0.8+	2000 03 08	704	0.1−	1.0+
1998 12 14	704	0.3−	0.1−	2000 01 08	704	0.5−	0.7−	2000 03 08	704	0.6−	0.1−
1998 12 14	704	0.0	1.4−	2000 01 08	704	0.5−	0.5−	2000 03 08	704	0.0	1.4+
1998 12 17	704	0.3−	0.4+	2000 01 08	704	0.3+	1.1−	2000 03 12	704	0.6+	0.6+
1998 12 17	704	0.4+	0.5−	2000 02 11	704	1.1+	0.6+	2000 03 12	704	0.8+	0.6+
1998 12 17	704	0.4−	0.6−	2000 02 11	704	0.6+	0.1+	2000 03 12	704	0.2−	0.4+
1998 12 17	704	(2.4+	0.1−)	2000 02 11	704	0.5+	0.5−	2000 03 12	704	0.2−	0.1−
1999 01 16	704	0.8+	0.6−	2000 02 11	704	0.8+	0.0				

1998 XG₆₁ = 1999 BR₂₅ = 1948 XEId. A. Doppler (d, *MPC* 34061), A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21801883	ω	76.09817	+0.95262255	−0.18741442		
<i>a</i>	2.7340516	Ω	294.25516	+0.05057944	+0.87425140		
<i>e</i>	0.0941767	<i>i</i>	15.23318	+0.29991998	+0.44783962		
<i>P</i>	4.52	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1948 12 10	012	0.3+	0.4+	1998 12 23	704	0.5+	1.6+	1999 01 20	704	0.1−	0.7+
1986 04 03	413	0.1−	0.2+	1998 12 23	704	1.5+	0.4−	1999 01 20	704	1.7−	1.1+
1986 04 03	413	0.2+	0.1−	1998 12 23	704	1.1−	0.4+	1999 01 20	704	1.5−	1.4+
1998 10 02	699	0.6−	0.0	1998 12 27	691	0.9−	0.4−	1999 02 12	704	0.0	0.8−
1998 10 02	699	0.3+	0.7−	1998 12 27	691	0.8−	0.4−	1999 02 12	704	0.1+	0.5−
1998 10 02	699	0.3−	0.4−	1998 12 27	691	0.9−	0.2−	1999 02 12	704	0.1+	0.1−
1998 12 13	691	0.0	0.3−	1999 01 10	699	0.1−	0.1−	1999 02 12	704	0.3−	0.2−
1998 12 13	691	0.1−	0.6−	1999 01 10	699	0.6+	0.9+	1999 02 12	704	0.3−	0.5−
1998 12 13	691	0.1−	0.5−	1999 01 10	699	0.1+	1.1+	1999 02 16	704	0.8+	1.3−
1998 12 22	691	0.1+	0.4−	1999 01 18	704	0.4−	0.3−	1999 02 16	704	1.5+	0.7−
1998 12 22	691	0.0	0.4−	1999 01 18	704	0.2+	1.2−	1999 02 16	704	0.3+	0.4−
1998 12 22	691	0.0	0.6−	1999 01 18	704	0.4−	1.3+	1999 02 16	704	(1.2+	3.1−)
1998 12 23	704	1.8+	0.2+	1999 01 18	704	1.7+	1.1+	1999 02 16	704	(0.7+	2.2−)
1998 12 23	704	0.2−	0.3+	1999 01 18	704	0.0	0.2+				

1998 XJ₆₄ = 2000 EK₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29418867	ω	273.10382	+0.95518974	+0.27648907		
<i>a</i>	2.2389896	Ω	70.86454	−0.20706823	+0.87928938		
<i>e</i>	0.2504335	<i>i</i>	6.42204	−0.21150723	+0.38781952		
<i>P</i>	3.35	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 31	704	0.2+	1.0+	1998 11 24	704	0.2−	0.2−	1998 12 17	704	0.7+	0.9−
1998 08 31	704	0.2+	0.4−	1998 11 24	704	0.0	0.5−	1998 12 17	704	0.2+	1.4−
1998 08 31	704	0.6−	1.2+	1998 12 08	699	0.1+	0.1+	1999 01 05	699	1.2+	0.9+
1998 08 31	704	0.8+	0.1−	1998 12 08	699	0.3−	0.5+	1999 01 05	699	0.2+	1.4−

1998 08 31	704	1.8−	0.0	1998 12 08	699	1.0−	0.0	1999 01 05	699	0.8+	1.0−
1998 11 10	704	0.7−	0.3+	1998 12 13	327	0.7−	0.5+	2000 03 05	704	0.2−	1.0+
1998 11 10	704	0.5−	1.2−	1998 12 13	327	0.6−	0.4+	2000 03 05	704	0.6+	0.6−
1998 11 10	704	0.4+	1.1−	1998 12 13	327	0.6−	0.2+	2000 03 05	704	0.1−	0.3+
1998 11 10	704	(5.0−	2.3+)	1998 12 14	704	0.8−	0.2+	2000 03 05	704	0.2−	0.7−
1998 11 19	910	1.2+	0.4+	1998 12 14	704	1.0−	1.5+	2000 03 05	704	0.5−	0.7−
1998 11 19	910	1.3+	0.5+	1998 12 14	704	0.4−	0.7+	2000 03 12	704	0.1+	0.3+
1998 11 19	910	1.2+	0.6+	1998 12 14	704	0.1−	0.4+	2000 03 12	704	0.2+	0.1+
1998 11 24	704	0.1+	0.3+	1998 12 14	704	0.7−	0.8+	2000 03 12	704	0.6−	0.3+
1998 11 24	704	0.9+	0.1−	1998 12 17	704	(2.0+	1.6−)	2000 03 12	704	1.0+	0.6+
1998 11 24	704	0.0	0.2−	1998 12 17	704	0.0	1.5−	2000 03 12	704	0.1+	0.3+

1998 XR₇₄ = 2000 CQ₆₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	241.84483		(2000.0)	P		Q	
<i>n</i>	0.17556257	ω	335.99480	+0.34326232		+0.92958571	
<i>a</i>	3.1587464	Ω	313.76854	−0.82883515		+0.23252887	
<i>e</i>	0.0533237	<i>i</i>	10.71945	−0.44181815		+0.28600828	
<i>P</i>	5.61	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 10 30	566	0.5−	0.6+	1999 01 16	704	1.1−	0.1−	2000 02 08	704	0.2+	0.3+
1997 10 30	566	0.0	0.9+	1999 01 16	704	(0.7+	2.3+)	2000 02 08	704	0.5+	0.7+
1997 10 30	566	0.6−	0.7+	1999 01 19	704	0.1−	0.2+	2000 02 08	704	0.1−	0.3−
1998 12 14	704	0.0	1.3−	1999 01 19	704	(0.4+	2.7+)	2000 02 08	704	0.3−	0.3+
1998 12 14	704	0.0	1.5−	1999 01 19	704	1.1+	1.3+	2000 02 08	704	0.3−	0.6−
1998 12 14	704	0.6−	1.6−	1999 01 19	704	1.0+	0.0	2000 03 08	704	0.7+	0.2−
1998 12 14	704	(2.6−	1.6−)	2000 01 11	699	0.4+	0.5−	2000 03 08	704	0.9+	0.5−
1998 12 17	704	0.8−	0.1−	2000 01 11	699	0.7−	0.2+	2000 03 08	704	0.3+	0.9−
1998 12 17	704	0.8−	0.1+	2000 01 11	699	0.2−	0.0	2000 03 08	704	0.3+	0.5+
1998 12 17	704	0.7+	0.2+	2000 02 02	704	0.6−	1.4+	2000 03 08	704	0.3+	0.1−
1998 12 17	704	0.1+	0.0	2000 02 02	704	0.2−	1.7+				
1999 01 16	704	0.3−	1.1+	2000 02 02	704	0.3−	0.1−				

1998 XM₇₇ = 2000 EZ₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	135.08218		(2000.0)	P		Q	
<i>n</i>	0.23821690	ω	231.25972	+0.83376606		−0.55153674	
<i>a</i>	2.5772369	Ω	162.16770	+0.52874797		+0.78443005	
<i>e</i>	0.1143722	<i>i</i>	4.74380	+0.15893312		+0.28368419	
<i>P</i>	4.14	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 03 26	566	0.1−	0.6−	1999 01 10	699	0.5+	0.4−	2000 03 10	704	0.4+	0.1+
1996 03 26	566	0.4−	0.9−	2000 02 08	704	0.1−	0.4−	2000 03 10	704	0.3+	0.0
1996 03 26	566	0.1−	0.4−	2000 02 08	704	0.4−	1.5−	2000 03 10	704	0.3+	0.6+
1998 12 15	704	0.6+	1.5+	2000 02 08	704	1.0+	0.6−	2000 03 11	704	0.7+	0.7−
1998 12 15	704	0.3+	0.5−	2000 02 08	704	0.3+	0.6+	2000 03 11	704	0.2−	0.0
1998 12 15	704	(2.2+	0.8−)	2000 02 27	703	(5.9+	6.0+)	2000 03 11	704	0.4+	0.6+
1998 12 15	704	0.3−	0.0	2000 02 27	703	1.7−	0.7−	2000 03 11	704	0.3+	1.5+
1998 12 16	699	0.4+	0.0	2000 02 27	703	0.1−	0.1−	2000 03 13	704	0.5+	0.7−
1998 12 16	699	0.4+	0.4−	2000 02 27	703	0.4−	0.0	2000 03 13	704	0.2+	0.7+
1998 12 16	699	0.0	0.7+	2000 03 08	704	0.5+	0.7−	2000 03 13	704	0.3+	0.1−
1998 12 22	704	0.2+	0.6−	2000 03 08	704	0.2−	0.5−	2000 03 13	704	0.5−	0.5−
1998 12 22	704	0.1+	0.7−	2000 03 08	704	1.0−	1.2+	2000 03 14	703	0.1+	0.3+
1998 12 22	704	0.6−	0.0	2000 03 08	704	0.2−	0.3+	2000 03 14	703	0.1−	0.4+
1998 12 22	704	1.6−	0.8+	2000 03 08	704	0.3+	0.6+	2000 03 14	703	0.1+	0.5+
1999 01 10	699	0.3−	0.6+	2000 03 10	704	0.2−	0.5−	2000 03 14	703	1.0+	0.5+
1999 01 10	699	0.2+	1.2−	2000 03 10	704	0.9−	0.6+				

1998 XZ₈₁ = 2000 EW₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	57.95548		(2000.0)	P		Q	
<i>n</i>	0.18612356	ω	285.33480	−0.35045825		−0.93641810	
<i>a</i>	3.0380983	Ω	185.27770	+0.91523151		−0.33848501	
<i>e</i>	0.1271093	<i>i</i>	10.85640	+0.19882226		−0.09246096	
<i>P</i>	5.30	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	(0.0	2.4−)	1999 01 14	699	0.3−	0.0	2000 03 10	704	0.2−	0.4−
1998 12 15	704	0.9+	0.8−	1999 01 14	699	0.3+	1.3−	2000 03 10	704	0.2−	0.3+
1998 12 15	704	0.1−	0.1−	2000 03 03	703	0.3+	0.8+	2000 03 10	704	0.2+	0.2−
1998 12 15	704	0.0	0.1−	2000 03 03	703	0.6+	0.4+	2000 03 10	704	0.2−	0.4−
1998 12 15	704	0.1−	0.7−	2000 03 03	703	0.6+	0.3+	2000 03 10	704	0.4−	0.3−
1998 12 22	704	0.1−	1.2+	2000 03 03	703	0.3+	0.2+	2000 03 11	704	0.0	0.1−
1998 12 22	704	0.5+	0.2+	2000 03 09	704	0.1−	0.3−	2000 03 11	704	0.0	0.1+
1998 12 22	704	1.1−	0.1+	2000 03 09	704	0.2−	0.0	2000 03 11	704	0.1−	0.4−
1998 12 22	704	0.5−	0.9+	2000 03 09	704	0.1−	0.4−	2000 03 11	704	0.2−	0.4+
1998 12 22	704	0.6+	1.0+	2000 03 09	704	0.1+	0.3−	2000 03 11	704	0.4−	0.6+
1999 01 14	699	0.1−	0.4−	2000 03 09	704	0.0	0.0				

1998 XR₉₄ = 2000 EB₉₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	105.31720		(2000.0)	P		Q	
<i>n</i>	0.17140597	ω	186.63367	+0.44630074		−0.88404620	
<i>a</i>	3.2096086	Ω	236.94536	+0.82846356		+0.46683086	
<i>e</i>	0.1209952	<i>i</i>	9.53537	+0.33832496		+0.02304918	
<i>P</i>	5.75	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 09 24	098	0.6−	0.8−	1998 12 22	704	0.6+	0.3+	1999 01 20	704	1.4−	0.0
1997 09 24	098	0.8+	0.1−	1998 12 22	704	1.2+	0.2+	1999 01 20	704	0.0	0.2−
1998 12 15	704	0.6−	0.5−	1998 12 22	704	0.6+	0.7+	2000 03 09	704	0.1+	0.2−
1998 12 15	704	0.2−	1.2+	1999 01 18	704	1.5+	0.5−	2000 03 09	704	0.8+	0.2−
1998 12 15	704	1.0+	0.2−	1999 01 18	704	0.1−	0.3+	2000 03 09	704	1.1−	1.6−
1998 12 15	704	1.3−	1.3−	1999 01 18	704	0.2−	1.2−	2000 03 13	704	0.2−	0.4+
1998 12 15	704	0.2+	0.2+	1999 01 18	704	(3.0−	0.8−)	2000 03 13	704	0.4+	0.4+
1998 12 22	704	0.7−	0.6−	1999 01 20	704	0.1+	0.9+	2000 03 13	704	0.1+	0.1−
1998 12 22	704	0.2−	0.3+	1999 01 20	704	0.4−	0.4+	2000 03 13	704	0.4−	0.4+

1998 YH₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	149.04617		(2000.0)	P		Q	
<i>n</i>	0.18896776	ω	330.01549	+0.76528598		−0.61473866	
<i>a</i>	3.0075365	Ω	69.16762	+0.62370243		+0.63484752	
<i>e</i>	0.0350785	<i>i</i>	11.78429	+0.15916231		+0.46804381	
<i>P</i>	5.22	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 16	888	0.6−	0.2−	1999 01 09	699	1.2+	0.6+	2000 03 02	888	1.0−	0.1+
1998 12 16	888	0.7−	0.3−	1999 01 09	699	0.1+	0.6+	2000 03 02	888	0.7−	0.0
1998 12 17	888	0.1+	0.2+	1999 01 09	888	0.2−	0.6−	2000 03 02	888	0.6−	0.2+
1998 12 17	888	0.1−	0.0	1999 01 09	888	0.2+	0.4−	2000 03 06	888	0.7+	0.3−
1998 12 21	888	0.2−	0.1+	1999 01 22	888	0.6+	0.0	2000 03 06	888	0.1+	0.3−
1998 12 21	888	0.1−	0.2+	1999 01 22	888	0.9−	0.4+	2000 03 06	888	0.6+	0.8−
1998 12 25	888	0.7+	0.5−	1999 02 07	888	0.2+	0.3−	2000 03 08	704	0.4+	0.4−
1998 12 25	888	0.5+	0.1−	1999 02 20	888	0.0	0.6−	2000 03 08	704	0.0	0.8+
1999 01 09	699	0.4−	0.4+	1999 02 20	888	0.4−	0.7+	2000 03 08	704	0.4+	0.7+

2000 MAR. 20

M.P.C. 39291

1998 YL₃ = 2000 EG₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	102.52118		(2000.0)	P		Q	
<i>n</i>	0.16782885	ω	55.51491	+0.38149380		−0.92436387	
<i>a</i>	3.2550548	Ω	12.06055	+0.84213391		+0.34588731	
<i>e</i>	0.1217480	<i>i</i>	1.02282	+0.38114690		+0.16097640	
<i>P</i>	5.87	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 12 14	704	0.3−	1.8−	1999 01 05	411	0.1+	0.3+	2000 03 08	704	0.5+	0.3−
1998 12 14	704	0.9+	0.6+	1999 01 05	411	0.0	0.3+	2000 03 08	704	0.4−	1.0+
1998 12 14	704	1.6−	0.8−	1999 01 16	704	0.0	0.1+	2000 03 08	704	0.2+	0.4−
1998 12 17	704	0.2−	1.0−	1999 01 16	704	0.7−	0.7+	2000 03 10	704	0.4−	0.2−
1998 12 17	704	0.9−	0.6−	1999 01 16	704	0.2+	1.1+	2000 03 10	704	0.1+	0.3+
1998 12 17	704	0.3+	0.9−	1999 01 16	704	0.5+	1.6+	2000 03 10	704	1.2+	0.0
1998 12 17	704	0.5−	1.8−	1999 01 16	704	(6.0−	0.1−)	2000 03 11	704	0.0	0.2+
1998 12 17	704	0.6−	0.4−	1999 01 16	411	0.3+	0.8+	2000 03 11	704	0.8−	0.5−
1998 12 17	411	0.2+	0.2+	1999 01 16	411	(2.3+	0.8+)	2000 03 11	704	0.3−	0.2−
1998 12 17	411	0.2+	0.4+	2000 03 01	703	0.6+	0.2+	2000 03 11	704	0.1+	0.3−
1998 12 18	411	0.6+	0.3+	2000 03 01	703	0.1+	0.5−	2000 03 11	704	0.1−	0.5−
1998 12 18	411	0.8+	0.1+	2000 03 01	703	0.1+	0.2−	2000 03 11	704	0.5+	0.7−
1998 12 26	411	0.1+	0.6+	2000 03 01	703	1.6−	0.3+	2000 03 11	704	0.4+	0.7+
1998 12 26	411	0.4+	0.3+	2000 03 08	704	1.0−	0.1−	2000 03 11	704	0.7+	0.5+

1998 YM₃ = 2000 DG₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	51.44413		(2000.0)	P		Q	
<i>n</i>	0.08425749	ω	46.19501	−0.03735940		−0.99878693	
<i>a</i>	5.1530421	Ω	45.97565	+0.90355891		−0.04747329	
<i>e</i>	0.0466523	<i>i</i>	2.55686	+0.42683202		+0.01307502	
<i>P</i>	11.70	<i>H</i>	11.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 11 28	327	0.4+	0.8+	1999 01 16	704	0.2+	0.2−	2000 02 28	704	1.2+	0.5−
1996 11 28	327	0.2−	0.9+	1999 01 16	704	0.8−	1.8−	2000 02 28	704	0.2+	0.1−
1996 11 28	327	1.6−	1.4+	1999 01 16	704	1.3+	0.3+	2000 02 28	704	0.1+	0.6+
1997 11 29	704	0.2−	1.0−	1999 01 17	411	1.5+	0.8+	2000 02 28	704	0.1−	0.6−
1997 11 29	704	0.0	0.4+	1999 01 17	411	0.3+	0.4+	2000 02 28	704	0.7−	0.1+
1997 11 29	704	0.7+	1.4+	2000 02 03	704	0.6+	1.0+	2000 03 04	704	0.6+	0.1+
1997 11 29	704	0.2−	1.0−	2000 02 03	704	0.2+	0.1+	2000 03 04	704	0.5+	0.1−
1998 12 17	704	0.7−	0.9−	2000 02 03	704	0.2+	1.0+	2000 03 04	704	0.4+	0.1−
1998 12 17	704	1.0−	0.2−	2000 02 03	704	0.5−	0.6+	2000 03 04	704	0.1+	0.3−
1998 12 17	704	0.3+	0.3−	2000 02 03	704	0.2−	0.8+	2000 03 04	704	0.0	0.2−
1998 12 17	704	(0.7+	2.1−)	2000 02 06	703	0.2+	0.0	2000 03 05	704	0.0	0.4−
1998 12 17	704	(4.8−	0.5+)	2000 02 06	703	0.4+	0.3+	2000 03 05	704	0.5−	0.3−
1998 12 17	411	0.3+	0.3−	2000 02 06	703	0.6+	0.7+	2000 03 05	704	0.6−	0.5+
1998 12 17	411	0.2+	0.1+	2000 02 06	703	0.0	0.5+	2000 03 05	704	0.2−	0.4+
1998 12 18	411	0.0	0.6−	2000 02 11	704	0.0	0.3+	2000 03 05	704	0.3−	0.7+
1998 12 18	411	0.6+	0.9+	2000 02 11	704	0.4+	0.4+	2000 03 09	608	0.5+	0.6−
1998 12 26	411	0.8−	1.1−	2000 02 11	704	0.5+	0.4+	2000 03 09	608	0.7+	1.4−
1998 12 26	411	0.2+	0.4−	2000 02 11	704	0.1+	0.5−	2000 03 09	608	0.2+	1.3−
1999 01 05	411	1.4−	0.1−	2000 02 11	704	0.1+	0.9−	2000 03 11	699	1.1+	0.6+
1999 01 05	411	0.1−	0.2−	2000 02 25	703	0.6−	1.5+	2000 03 11	699	0.7+	0.1−
1999 01 07	411	0.4−	0.4−	2000 02 25	703	0.6−	1.8+	2000 03 11	699	0.4−	0.2−
1999 01 07	411	0.7−	0.9−	2000 02 25	703	1.1−	0.4−	2000 03 11	699	0.2−	0.2+
1999 01 16	704	0.2−	0.0	2000 02 25	703	1.6−	0.1+				

1998 YN₃ = 2000 EU₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	217.53003		(2000.0)	P		Q	
<i>n</i>	0.24370470	ω	268.70722	+0.94152587		+0.32131903	
<i>a</i>	2.5384003	Ω	72.54269	−0.25108347		+0.86978012	
<i>e</i>	0.1074436	<i>i</i>	6.10218	−0.22469119		+0.37448181	
<i>P</i>	4.04	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 17	704	0.6−	0.1−	1999 01 05	411	0.4+	0.5+	2000 03 08	704	0.6+	1.2+
1998 12 17	704	1.1−	0.3+	1999 01 16	704	1.0+	0.7−	2000 03 08	704	0.1−	0.4−
1998 12 17	704	0.2+	1.0−	1999 01 16	704	1.5+	0.9−	2000 03 08	704	0.2+	0.7+
1998 12 17	704	1.5−	0.5−	1999 01 16	704	0.6+	0.5−	2000 03 08	704	0.1+	0.9+
1998 12 17	704	0.6+	0.0	1999 01 16	704	1.1+	1.2−	2000 03 08	704	0.1+	0.4+
1998 12 17	411	0.8+	0.8−	1999 01 16	411	1.1−	0.4−	2000 03 10	691	0.7−	0.1+
1998 12 17	411	0.0	0.4+	1999 01 16	411	0.1−	0.1+	2000 03 10	691	0.5+	0.3−
1998 12 18	411	0.3+	0.0	1999 01 19	704	1.2−	1.5+	2000 03 10	691	0.2−	0.7−
1998 12 18	411	0.6+	0.1−	1999 01 19	704	1.1−	0.1−	2000 03 11	691	0.3−	0.6−
1998 12 26	411	0.8+	1.4+	1999 01 19	704	0.7−	0.5−	2000 03 11	691	0.2−	0.6−
1998 12 26	411	0.6−	0.8+	1999 01 19	704	0.1+	0.2+	2000 03 11	691	0.0	0.7−
1999 01 05	411	0.3+	0.5+	1999 01 19	704	0.5−	1.0+				

1998 YD₄ = 2000 EX₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	11.20057		(2000.0)	P		Q	
<i>n</i>	0.18955312	ω	341.72206	−0.99760130		+0.06727970	
<i>a</i>	3.0013416	Ω	202.15487	−0.05689657		−0.93093752	
<i>e</i>	0.0541764	<i>i</i>	2.47450	−0.03942628		−0.35892725	
<i>P</i>	5.20	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 19	411	0.2+	0.5+	1999 01 20	704	0.9+	1.1−	2000 03 14	704	0.1−	0.4+
1998 12 19	411	0.4+	0.7+	1999 01 20	704	0.0	0.4−	2000 03 14	704	0.2+	0.3+
1998 12 20	411	1.3+	0.1+	1999 01 20	704	0.5+	0.5−	2000 03 14	704	0.7−	0.2−
1998 12 20	411	0.9−	0.5+	1999 01 20	704	0.8−	0.3−	2000 03 14	704	0.8−	0.4+
1998 12 26	411	0.2−	0.3+	2000 03 14	704	0.4+	0.0	2000 03 15	704	0.1−	0.4−
1998 12 26	411	0.1−	0.3+	2000 03 14	704	0.0	0.2+	2000 03 15	704	0.7+	0.8+
1999 01 05	411	0.2+	0.0	2000 03 14	704	0.2+	0.1−	2000 03 15	704	0.1−	0.2−
1999 01 05	411	0.8−	0.1+	2000 03 14	704	0.1+	0.3−	2000 03 15	704	0.4+	0.7−
1999 01 17	411	0.2+	0.6−	2000 03 14	704	0.5−	0.2−				
1999 01 17	411	0.7−	0.4+	2000 03 14	704	0.3+	0.2+				

1998 YP₅

Id. A. Nakamura (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	9.17115		(2000.0)	P		Q	
<i>n</i>	0.17879789	ω	36.87359	−0.99851613		+0.05201046	
<i>a</i>	3.1205259	Ω	146.09702	−0.05426185		−0.92520076	
<i>e</i>	0.0782708	<i>i</i>	1.65796	−0.00460280		−0.37589689	
<i>P</i>	5.51	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 21	360	0.1+	0.0	1998 12 26	360	0.2+	0.6−	1999 02 14	360	0.1−	0.2−
1998 12 21	360	0.1+	0.3+	1998 12 26	360	0.0	0.2−	1999 02 17	360	0.0	0.6−
1998 12 21	360	0.1−	0.4+	1999 01 13	360	0.5−	0.7+	1999 02 17	360	0.2−	0.5−
1998 12 22	360	0.2−	0.2+	1999 01 13	360	0.3−	0.6+	1999 02 17	360	0.3+	0.1−
1998 12 22	360	0.1−	0.0	1999 01 21	360	0.3+	0.2+	2000 03 13	360	0.6+	0.1−
1998 12 22	360	0.2+	0.3−	1999 01 21	360	0.2+	0.5+	2000 03 13	360	0.4−	0.1−
1998 12 24	360	0.0	0.1+	1999 02 09	360	0.0	0.2+	2000 03 13	360	0.3+	0.4+
1998 12 24	360	0.0	0.2−	1999 02 09	360	0.3−	0.2−	2000 03 14	360	0.3−	0.1−
1998 12 24	360	0.1−	0.2+	1999 02 09	360	0.0	0.1+	2000 03 14	360	0.1+	0.1−
1998 12 26	360	0.4+	0.3−	1999 02 14	360	0.3+	0.3−	2000 03 14	360	0.2−	0.2+

1998 YS₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	147.70796		(2000.0)	P	Q
n	0.18994986	ω	285.55860	+0.78795586	−0.58663000
a	2.9971610	Ω	110.71902	+0.61319271	+0.72005787
e	0.1019950	i	11.53652	+0.05585935	+0.37065066
P	5.19	H	12.7	G 0.15	U 2

Residuals in seconds of arc

1991 08 06	413	1.0−	0.5−	1998 12 28	411	0.5−	0.8−	1999 02 10	704	0.3+	0.3−
1991 08 06	413	0.9+	0.1−	1998 12 28	411	0.0	0.6−	1999 02 10	704	0.2+	0.9−
1993 12 11	675	0.4−	1.8+	1999 01 06	699	0.8+	0.1−	1999 02 10	704	0.2−	0.4−
1993 12 11	675	0.8+	0.7+	1999 01 06	699	0.3+	0.6+	1999 02 10	704	0.3+	1.5−
1998 11 14	699	0.5−	0.9+	1999 01 06	699	0.8+	0.0	1999 02 13	704	1.1+	0.9−
1998 11 14	699	(0.1+ 2.2+)		1999 01 09	411	0.6−	1.1+	1999 02 13	704	0.7+	0.5+
1998 11 14	699	(0.8+ 2.3+)		1999 01 09	411	0.2−	0.5+	1999 02 13	704	0.9−	0.7−
1998 12 10	691	1.0+	0.2−	1999 01 10	691	0.4−	0.2+	1999 02 13	704	0.5+	1.7−
1998 12 10	691	0.1−	0.0	1999 01 10	691	0.4−	0.1+	1999 02 13	704	0.1−	0.7−
1998 12 10	691	1.0+	0.0	1999 01 10	691	0.3−	0.1+	1999 04 06	704	0.7−	0.7−
1998 12 16	699	0.8+	0.1+	1999 01 18	411	0.7−	0.3+	1999 04 06	704	0.6+	0.3−
1998 12 16	699	0.2+	0.1−	1999 01 18	411	0.3−	0.7+	1999 04 06	704	1.6+	0.2+
1998 12 16	699	0.0	0.9−	1999 01 19	704	0.5−	0.5+	1999 04 06	704	0.4+	0.2+
1998 12 21	411	1.1−	0.1+	1999 01 19	704	0.5+	0.7+	2000 03 07	704	0.9+	0.0
1998 12 21	411	0.3−	0.4+	1999 01 19	704	1.1−	0.7+	2000 03 07	704	0.0	0.3+
1998 12 22	411	0.1−	0.1+	1999 01 19	704	0.4−	0.0	2000 03 07	704	0.5−	0.3+
1998 12 22	411	0.4−	0.1+	1999 02 10	704	0.3−	0.3−				

1998 YS₆ = 2000 CK₇₇

Id. M. E. Sansaturio, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		127.84901		(2000.0)		P		Q	
<i>n</i>		0.18040551	ω	158.47963		+0.96269432		−0.27058818	
<i>a</i>		3.1019599	Ω	217.21972		+0.24794916		+0.88404602	
<i>e</i>		0.1698918	<i>i</i>	0.12268		+0.10835522		+0.38110978	
<i>P</i>		5.46	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1998 12 15	704	1.8−	0.6+	2000 02 05	695	0.1+	0.2−	2000 02 26	732	1.6−	0.8−
1998 12 15	704	0.5+	0.6−	2000 02 07	691	0.4+	0.5−	2000 02 26	732	0.7−	0.1−
1998 12 15	704	0.9−	0.8−	2000 02 07	691	0.1+	0.6−	2000 02 26	732	1.1−	0.2−
1998 12 15	704	0.7−	1.1−	2000 02 07	691	0.2+	0.8−	2000 02 27	732	0.0	1.2+
1998 12 15	704	0.5+	0.2−	2000 02 10	732	0.1−	0.4−	2000 02 27	732	0.3+	0.1−
1998 12 16	704	0.6−	0.4−	2000 02 10	732	0.2−	1.0+	2000 02 27	732	0.8−	0.1+
1998 12 16	704	0.7+	0.7+	2000 02 10	732	0.2+	0.1−	2000 02 29	704	0.3+	0.2−
1998 12 16	704	(1.1+ 3.8+)		2000 02 11	732	1.6−	0.5+	2000 02 29	704	0.0	0.1+
1998 12 16	704	0.5+	1.3+	2000 02 11	732	0.1+	0.1−	2000 02 29	704	0.0	0.2+
1998 12 19	376	(5.8− 2.9+)		2000 02 11	732	1.0−	0.7+	2000 02 29	704	0.7+	0.5+
1998 12 19	376	(4.5− 3.0+)		2000 02 11	704	0.4+	0.2+	2000 02 29	704	0.1+	0.9+
1998 12 21	376	0.3−	0.7+	2000 02 11	704	0.6+	0.1+	2000 03 03	704	0.1−	0.3+
1998 12 21	376	0.0	1.6+	2000 02 11	704	0.9+	0.4+	2000 03 03	704	0.2+	0.2+
1998 12 22	704	0.4−	0.1+	2000 02 11	704	0.6+	0.3−	2000 03 03	704	0.5+	0.1+
1998 12 22	704	0.7+	0.5+	2000 02 11	691	0.3−	0.7−	2000 03 03	704	0.8+	0.1+
1998 12 22	704	0.1+	0.6−	2000 02 11	691	0.2−	0.6−	2000 03 03	704	0.5+	0.4+
1998 12 22	704	0.0	0.8−	2000 02 11	691	0.2−	0.7−	2000 03 11	704	0.6+	0.4−
1998 12 22	704	0.0	0.4+	2000 02 14	732	0.2−	0.3−	2000 03 11	704	0.1+	0.1+
1998 12 24	376	0.8+	0.4+	2000 02 14	732	1.6−	1.0−	2000 03 11	704	0.4+	0.4−
1998 12 24	376	0.8+	0.9−	2000 02 15	732	0.1+	0.3−	2000 03 11	699	0.5−	0.5−
1998 12 26	376	(0.7+ 3.2−)		2000 02 15	732	0.1−	0.9−	2000 03 11	704	0.3+	0.2−
1998 12 26	376	0.2+	0.9+	2000 02 15	732	0.1−	0.6−	2000 03 11	704	0.1−	0.2+
2000 02 05	704	0.5+	1.1+	2000 02 25	703	0.3+	0.9+	2000 03 11	699	0.2−	0.2−
2000 02 05	704	1.0+	0.4+	2000 02 25	703	0.0	0.3+	2000 03 11	699	0.0	0.1−
2000 02 05	695	0.0	0.2−	2000 02 25	703	0.3−	0.5+	2000 03 11	699	0.5−	0.6+
2000 02 05	704	0.9+	0.3+	2000 02 25	703	0.5+	0.1−				

1998 YZ₆ = 2000 EC₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		141.53459		(2000.0)		P		Q	
<i>n</i>		0.21160930	ω	266.83138		+0.98189398		−0.08594275	
<i>a</i>		2.7889852	Ω	98.05278		+0.14395208		+0.91779522	
<i>e</i>		0.1724381	<i>i</i>	9.81659		−0.12313411		+0.38764129	
<i>P</i>		4.66	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 12 15	704	0.9−	0.2+	1999 01 05	120	0.3−	0.1−	2000 03 04	704	0.1−	0.0
1998 12 15	704	(1.2+ 2.1−)		1999 01 05	120	0.3+	0.2−	2000 03 04	704	0.3−	1.0−
1998 12 15	704	0.8−	0.2−	1999 01 06	120	0.1−	0.5+	2000 03 04	704	0.5−	0.5−
1998 12 15	704	0.5−	0.1−	1999 01 06	120	0.2−	0.4+	2000 03 04	704	0.2+	0.6+
1998 12 22	704	0.2−	0.4−	1999 01 06	120	0.1−	0.1−	2000 03 09	704	0.4−	0.0
1998 12 22	704	0.3+	0.5−	1999 01 07	699	0.2+	0.3−	2000 03 09	704	0.2−	0.2+
1998 12 22	704	0.3+	0.5−	1999 01 07	699	0.9+	0.0	2000 03 09	704	0.1−	0.4+
1998 12 22	704	0.2−	0.3−	1999 01 07	699	0.6+	1.2−	2000 03 09	704	0.2−	0.8+
1998 12 22	704	(2.5− 0.5−)		1999 01 23	699	1.1−	0.1−	2000 03 09	704	0.2+	1.0+
1998 12 22	120	0.2+	0.2+	1999 01 23	699	0.4+	0.3−	2000 03 11	699	0.0	1.1+
1998 12 22	120	0.7+	0.8+	1999 01 23	699	1.0+	0.3+	2000 03 11	699	0.7+	0.2−
1998 12 23	120	0.6−	0.3−	2000 02 03	704	1.0+	0.7+	2000 03 11	699	0.6+	0.4−
1998 12 23	120	0.3+	0.3+	2000 02 03	704	0.3+	0.3−	2000 03 11	699	0.3+	0.1−
1998 12 23	120	0.3+	0.1−	2000 02 03	704	1.4+	1.6−	2000 03 12	704	0.2+	0.5−
1998 12 25	120	0.9+	0.3+	2000 02 06	703	(3.1− 0.8+)		2000 03 12	704	0.4−	0.6−
1998 12 25	120	0.1−	1.1+	2000 02 06	703	0.8−	0.2−	2000 03 12	704	0.2−	0.9+
1998 12 25	120	0.3+	0.4+	2000 02 06	703	0.6−	1.1−	2000 03 12	704	0.2−	0.1+
1998 12 26	120	0.6−	0.1−	2000 02 06	703	1.7−	0.5+	2000 03 12	704	0.6+	0.4+
1998 12 26	120	0.2−	0.3+	2000 03 04	704	0.1+	0.3−				

1998 YB₉ = 2000 DR₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		233.30222		(2000.0)		P		Q	
<i>n</i>		0.28862056	ω	94.48009		+0.58510308		+0.81053522	
<i>a</i>		2.2676945	Ω	211.37670		−0.76257799		+0.53891209	
<i>e</i>		0.1525451	<i>i</i>	2.88564		−0.27591517		+0.22936090	
<i>P</i>		3.41	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	3	

Residuals in seconds of arc

1997 05 07	704	0.0	0.8−	1998 12 23	327	0.1+	0.1+	2000 03 03	704	0.1+	0.4−
1997 05 07	704	0.0	0.3+	1998 12 23	327	0.7−	0.0	2000 03 03	704	0.4+	0.0
1997 05 07	704	0.1−	0.5−	1998 12 24	327	0.1−	0.0	2000 03 03	704	0.5+	0.8+
1997 05 07	704	0.3+	0.3+	1998 12 24	327	0.3−	0.0	2000 03 03	704	0.4+	0.1+
1997 05 07	704	0.1−	0.6+	1998 12 24	327	0.2+	0.1−	2000 03 03	704	0.0	0.6+
1998 12 22	691	0.1−	0.5−	1998 12 26	327	0.5+	0.8+	2000 03 11	704	0.0	0.6−
1998 12 22	691	0.2−	0.6−	1998 12 26	327	0.8+	0.4+	2000 03 11	704	0.5−	0.6−
1998 12 22	691	0.3−	0.2−	1998 12 26	327	0.4−	0.2−	2000 03 11	704	0.7−	0.5+
1998 12 22	910	0.0	0.3−	1998 12 26	327	0.7+	0.6+	2000 03 11	704	1.1−	0.1+
1998 12 22	910	0.4+	0.1−	2000 02 29	704	1.0+	1.3−	2000 03 11	704	0.1+	0.9+
1998 12 22	910	0.6−	0.1−	2000 02 29	704	0.6+	0.1+				
1998 12 23	327	0.1−	0.3+	2000 02 29	704	0.8−	0.0				

1998 YP₉ = 2000 DM₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		97.18473		(2000.0)		P		Q	
<i>n</i>		0.17584767	ω	234.47608		+0.69095449		−0.72280052	
<i>a</i>		3.1553314	Ω	171.78624		+0.68726663		+0.65170960	
<i>e</i>		0.1267066	<i>i</i>	4.77284		+0.22415724		+0.22985651	
<i>P</i>		5.60	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 12 22	704	1.3+	0.7+	1999 01 06	120</

2000 MAR. 20

M.P.C. 39293

1999 01 06 120 0.2− 0.0 2000 03 03 704 0.1+ 0.1− 2000 03 11 699 0.1+ 0.3+
 1999 01 06 120 0.7+ 0.6+ 2000 03 03 704 0.4+ 0.4+

1998 YK₁₀

Id. P. G. Comba (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	207.72179		(2000.0)		P		Q
<i>n</i>	0.23226401	ω	53.08668	+0.95085105		+0.24613831	
<i>a</i>	2.6210870	Ω	291.98034	−0.30655618		+0.83381538	
<i>e</i>	0.1876118	<i>i</i>	11.68934	+0.04365296		+0.49413343	
<i>P</i>	4.24	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 12 24 691 0.0 0.2−	1999 01 16 426 0.1− 0.1+	1999 02 20 684 0.1+ 0.3−
1998 12 24 691 0.1+ 0.2−	1999 01 17 426 0.5− 0.1+	1999 02 20 684 0.1+ 0.4−
1998 12 24 691 0.0 0.3−	1999 01 17 426 0.6+ 0.2+	1999 02 21 684 0.1+ 0.2+
1998 12 27 684 0.3− 0.0	1999 01 17 426 0.4+ 0.3+	1999 02 21 684 0.1+ 0.1−
1998 12 27 684 0.1+ 0.1−	1999 01 22 684 0.0 0.1+	2000 03 10 684 0.2+ 0.3−
1998 12 28 684 0.1− 0.0	1999 01 22 684 0.3− 0.1+	2000 03 10 684 0.1− 0.1−
1998 12 28 684 0.1+ 0.1+	1999 01 23 684 0.3− 0.1+	2000 03 11 684 0.0 0.2+
1999 01 16 426 0.3+ 0.3+	1999 01 23 684 0.3− 0.1+	2000 03 11 684 0.2− 0.2+

1998 YM₁₂ = 2000 EV₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	171.85058		(2000.0)		P		Q
<i>n</i>	0.19473494	ω	315.77908	+0.99193318		−0.12092801	
<i>a</i>	2.9478596	Ω	51.20495	+0.12556680		+0.89628056	
<i>e</i>	0.1133638	<i>i</i>	2.79557	+0.01736521		+0.42668205	
<i>P</i>	5.06	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 10 30 704 1.1+ 0.4+	1998 12 28 888 0.2+ 0.1−	2000 03 08 704 0.2− 0.3−
1997 10 30 704 0.8− 1.7+	1998 12 29 888 0.5− 0.3−	2000 03 08 704 0.3− 0.3−
1997 10 30 704 (2.3− 2.7+)	1998 12 29 888 0.4+ 0.4+	2000 03 08 704 0.3− 0.3−
1997 10 30 704 0.1− 0.2−	1999 01 09 888 0.3− 0.6+	2000 03 10 704 0.0 0.2+
1997 10 30 704 1.3− 0.4+	1999 01 09 888 1.2− 0.4+	2000 03 10 704 0.4+ 0.3+
1998 12 17 704 0.2− 0.3−	1999 01 22 888 1.3+ 0.2+	2000 03 10 704 0.5− 0.3+
1998 12 17 704 0.3+ 0.7+	1999 01 22 888 0.6+ 1.3+	2000 03 10 704 0.3− 0.3+
1998 12 17 704 (2.3− 0.8−)	1999 02 06 888 0.4− 0.1−	2000 03 10 704 0.3+ 0.9−
1998 12 17 704 0.1+ 2.0−	1999 02 06 888 0.2− 0.3+	2000 03 11 704 0.1+ 0.6+
1998 12 17 704 (2.8− 0.4−)	1999 02 06 888 0.5− 0.1+	2000 03 11 704 0.1− 0.6+
1998 12 27 888 0.1− 0.7−	1999 02 15 888 0.7+ 0.5+	2000 03 11 704 0.6+ 0.8+
1998 12 27 888 0.4− 1.0−	1999 02 15 888 0.2+ 0.8−	2000 03 11 704 0.1+ 0.7+
1998 12 28 888 0.1+ 0.1+	2000 03 08 704 1.2+ 0.4+	

1998 YQ₁₅ = 1989 AB₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	101.14965		(2000.0)		P		Q
<i>n</i>	0.29311496	ω	16.01706	−0.77569800		−0.62621110	
<i>a</i>	2.2444541	Ω	124.94562	+0.56801739		−0.74690879	
<i>e</i>	0.0974492	<i>i</i>	5.49101	+0.27504336		−0.22357753	
<i>P</i>	3.36	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1989 01 10 033 0.1+ 0.3+	1998 12 27 691 0.8+ 0.3+	1999 02 10 704 0.4− 0.3+
1996 03 25 413 1.6− 0.2+	1999 01 14 691 0.2+ 0.4−	1999 02 10 704 0.7+ 0.1+
1996 03 25 413 1.5+ 0.3−	1999 01 14 691 0.5+ 0.6−	1999 02 10 704 0.2+ 0.4−
1998 12 16 699 0.3+ 0.1+	1999 01 14 691 (0.1+ 4.8−)	1999 02 10 704 1.1+ 0.0
1998 12 16 699 0.2+ 0.3+	1999 01 18 704 1.3+ 1.6−	1999 02 13 704 0.3− 0.3−
1998 12 16 699 0.2− 0.1−	1999 01 18 704 0.9− 0.8−	1999 02 13 704 0.1− 0.4−
1998 12 22 691 0.7− 0.3+	1999 01 18 704 (0.5− 2.7−)	1999 02 13 704 0.1+ 1.2−
1998 12 22 691 0.6− 0.2+	1999 01 18 704 0.8− 0.2−	1999 02 13 704 0.2− 0.8−
1998 12 22 691 0.7− 0.3+	1999 01 18 704 0.8− 0.7−	1999 02 13 704 0.1− 0.6+
1998 12 23 704 0.4+ 0.6+	1999 01 20 704 0.2− 0.5−	1999 02 23 699 0.2− 0.9+
1998 12 23 704 (1.0− 2.3+)	1999 01 20 704 0.3− 0.1+	1999 02 23 699 0.5− 0.6+

1998 12 23 704 0.6− 0.7+ 1999 01 20 704 0.2− 0.3− 1999 02 23 699 0.1− 0.7+
 1998 12 23 704 (3.0− 0.3−) 1999 01 20 704 0.1+ 0.6+ 1999 04 06 704 0.1+ 0.3+
 1998 12 27 691 0.9+ 1.1+ 1999 01 20 704 0.9− 0.2− 1999 04 06 704 0.5+ 0.8+
 1998 12 27 691 0.9+ 0.4+ 1999 02 10 704 0.7+ 0.3− 1999 04 06 704 0.0 0.5+

1998 YV₁₆ = 1999 CO₅₉Id. A. Doppler (d, *MPC* 34339)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	121.90166		(2000.0)		P		Q
<i>n</i>	0.17585587	ω	259.14736	+0.53980085		−0.84173954	
<i>a</i>	3.1552333	Ω	158.17450	+0.78193488		+0.49722095	
<i>e</i>	0.1380023	<i>i</i>	1.45885	+0.31175775		+0.21034702	
<i>P</i>	5.60	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1955 04 16 675 0.3− 0.9−	1998 12 22 691 0.2− 0.1−	1999 02 09 691 0.9− 0.4−
1955 04 16 675 0.5− 0.4−	1998 12 22 691 0.3− 0.1−	1999 02 09 691 1.0− 0.3−
1985 06 26 413 0.3− 0.3+	1998 12 22 691 0.1− 0.0	1999 02 09 691 0.8− 0.1−
1985 06 26 413 0.9+ 0.2+	1998 12 28 691 1.0+ 0.5+	1999 02 12 704 0.2+ 0.1−
1992 12 17 675 0.1+ 0.1+	1998 12 28 691 0.3+ 0.0	1999 02 12 704 0.9+ 0.4+
1992 12 17 675 0.4+ 0.2+	1998 12 28 691 0.3+ 0.2+	1999 02 12 704 0.7+ 0.2−
1996 07 21 566 0.5− 0.3−	1999 01 13 691 0.2− 0.1+	1999 02 12 704 0.8+ 0.9+
1996 07 21 566 0.1+ 0.0	1999 01 13 691 0.2− 0.2+	1999 02 12 704 1.4+ 1.0−
1996 07 21 566 0.1− 0.2−	1999 01 13 691 0.1− 0.0	1999 02 16 704 1.9+ 0.1−
1997 10 30 704 0.5+ 0.2+	1999 01 18 704 1.2− 0.8−	1999 02 16 704 0.8− 0.6−
1997 10 30 704 0.6− 0.5−	1999 01 18 704 1.8+ 0.3−	1999 02 16 704 0.3− 0.3−
1997 10 30 704 1.1+ 0.5+	1999 01 18 704 0.1+ 0.0	1999 02 16 704 1.4− 0.4+
1997 10 30 704 0.5− 0.0	1999 01 18 704 1.2− 0.5+	1999 02 23 699 0.5+ 0.8+
1997 10 30 704 0.8− 0.1+	1999 01 18 704 0.9+ 0.9+	1999 02 23 699 0.5− 0.7+
1998 10 20 691 0.2− 0.2−	1999 01 22 691 0.1− 0.0	1999 02 23 699 0.4+ 0.1+
1998 10 20 691 0.0 0.2−	1999 01 22 691 0.0 0.2−	2000 03 07 120 1.0− 1.0+
1998 10 20 691 0.9+ 0.8−	1999 01 22 691 0.0 0.2−	2000 03 07 120 (0.5− 2.3+)
1998 12 13 691 0.8− 0.0	1999 02 06 120 0.3+ 0.1−	2000 03 07 120 1.9+ 0.5+
1998 12 13 691 0.7− 0.0	1999 02 06 120 (2.3+ 0.4−)	
1998 12 13 691 1.1− 0.4+	1999 02 06 120 0.7− 0.2−	

1998 YM₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	70.51000		(2000.0)		P		Q
<i>n</i>	0.26361102	ω	31.48436	−0.97246445		−0.21171215	
<i>a</i>	2.4089457	Ω	135.94980	+0.17389759		−0.93748764	
<i>e</i>	0.1822527	<i>i</i>	8.05456	+0.15515325		−0.27621529	
<i>P</i>	3.74	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1982 11 07 413 0.3− 0.7+	1998 12 30 327 0.1− 0.1−	1999 01 11 327 0.1− 0.5+
1988 03 17 675 0.1− 0.0	1998 12 30 327 0.0 0.3−	1999 01 11 327 0.2− 0.6+
1988 03 17 675 0.0 0.2−	1999 01 06 327 0.2+ 0.7−	1999 01 11 327 0.1− 0.7+
1998 12 16 699 0.1+ 0.7+	1999 01 06 327 0.0 0.0	1999 01 18 704 1.4+ 0.9+
1998 12 16 699 0.3− 0.2−	1999 01 06 327 1.0− 0.1−	1999 01 18 704 0.5− 0.2+
1998 12 16 699 0.2− 0.9−	1999 01 10 699 0.7+ 0.6+	1999 01 18 704 2.0− 0.0
1998 12 29 327 0.3− 0.2−	1999 01 10 699 1.0+ 1.8−	1999 01 18 704 0.1+ 0.0
1998 12 29 327 0.0 0.3−	1999 01 10 699 0.1− 1.0−	1999 04 06 704 0.2+ 0.8−
1998 12 29 327 0.1− 0.1−	1999 01 10 327 1.6+ 1.0+	1999 04 06 704 0.6+ 0.2−
1998 12 29 327 0.3+ 0.8−	1999 01 10 327 0.0 0.1+	1999 04 06 704 0.7− 1.3+
1998 12 30 327 0.2− 0.1+	1999 01 10 327 0.1+ 0.4+	1999 04 06 704 1.2− 1.2+

1999 AQ

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	123.43179		(2000.0)		P		Q
<i>n</i>	0.19168387	ω	287.98964	+0.59056713		−0.78910615	
<i>a</i>	2.9790583	Ω	124.62027	+0.79606680		+0.53533866	
<i>e</i>	0.1048528	<i>i</i>	11.84670	+0.13231826		+0.30120425	
<i>P</i>	5.14	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.6+	0.5−	1999 01 14	595	0.8+	0.1+	2000 03 07	595	0.7+	0.5−
1998 12 15	704	0.3+	0.9−	1999 01 20	595	0.2−	0.1−	2000 03 07	595	0.7+	0.2+
1998 12 15	704	0.0	1.0−	1999 01 20	595	0.4−	0.8+	2000 03 11	699	0.2−	0.0
1998 12 15	704	0.3−	0.3+	1999 01 20	595	0.2−	0.7+	2000 03 11	699	0.1−	0.3−
1998 12 15	704	1.3−	1.4+	1999 02 12	595	0.1+	0.0	2000 03 11	699	0.3−	0.5+
1999 01 04	595	0.2−	0.1+	1999 02 12	595	0.3−	0.1−	2000 03 11	699	0.8−	0.3+
1999 01 04	595	0.1−	0.0	1999 02 15	595	0.8+	0.6−	2000 03 12	703	0.3+	0.0
1999 01 04	595	0.1+	0.2+	1999 02 15	595	0.6−	0.4−	2000 03 12	703	0.5+	1.2+
1999 01 05	595	0.3+	0.0	2000 03 05	595	0.0	0.2−	2000 03 12	703	0.8−	0.0
1999 01 05	595	0.3−	0.3−	2000 03 05	595	0.1+	0.7−	2000 03 12	703	0.7−	0.5+
1999 01 13	595	1.0+	0.4+	2000 03 05	595	0.8+	1.0−				

1999 AR

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	330.56130		(2000.0)	P	Q
n	0.24432991	ω	313.22330	−0.16388857	+0.95930517
a	2.5340681	Ω	305.93013	−0.80262831	−0.26518937
e	0.1810407	i	16.49757	−0.57352274	+0.09699587
P	4.03	H	13.0	G 0.15	U 3

Residuals in seconds of arc

1998 12 21	704	0.5+	0.0	1999 01 19	704	0.8+	0.4−	1999 02 08	716	0.1+	0.1+
1998 12 21	704	0.8+	1.4−	1999 01 19	704	0.1+	0.1+	1999 03 22	411	0.3−	1.0+
1998 12 21	704	0.2−	0.0	1999 01 19	704	0.3−	0.4+	1999 03 22	411	0.0	0.5+
1998 12 21	704	0.1+	0.8+	1999 01 19	704	0.1−	0.1−	1999 04 07	704	1.0−	0.4+
1998 12 21	704	0.5−	0.2+	1999 01 22	411	0.4+	0.2−	1999 04 07	704	0.7−	1.9−
1999 01 07	411	0.7−	0.1+	1999 01 22	411	0.1+	0.4+	1999 04 07	704	1.7−	1.2−
1999 01 07	411	0.2−	0.3+	1999 02 04	411	0.6+	0.1+	1999 04 07	704	0.3+	0.2+
1999 01 08	411	0.1−	0.2+	1999 02 04	411	0.5+	0.0	2000 02 19	931	0.4+	0.7−
1999 01 08	411	0.4−	0.1+	1999 02 07	716	1.1−	0.1−	2000 02 19	931	0.1+	0.9−
1999 01 13	411	0.1+	0.4−	1999 02 07	716	0.6+	0.4+	2000 03 12	931	0.2+	0.9+
1999 01 13	411	0.6+	0.1−	1999 02 08	716	0.7+	0.3+	2000 03 12	931	0.8−	1.0+

1999 AN₂ = 1989 EO₈

Id. A. Gnädig, S. Nakano, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	93.80781		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.28708349	ω	63.61918	−0.79208448	−0.60500706		
a	2.2757816	Ω	79.04425	+0.52649852	−0.74433278		
e	0.0719968	i	4.73525	+0.30887132	−0.28272808		
P	3.43	H	14.4	G	0.15	U	2

Residuals in seconds of arc

1976 05 27	413	0.3−	0.6−	1999 01 14	411	1.0−	0.2+	1999 02 12	699	0.7+	0.6+
1976 05 27	413	0.4+	1.3+	1999 01 14	411	0.5−	0.3−	1999 02 12	699	0.5+	0.4+
1989 03 11	372	0.7−	2.1−	1999 01 22	411	0.4+	0.5−	1999 02 12	699	0.4+	0.2+
1989 03 11	372	0.6−	0.4−	1999 01 22	411	0.1+	0.5−	1999 02 13	704	0.8+	0.3+
1992 01 25	675	0.6−	0.5+	1999 02 04	411	0.2+	0.4+	1999 02 13	704	0.0	0.3−
1992 01 25	675	0.7+	0.6−	1999 02 04	411	0.8+	0.1−	1999 02 13	704	1.4−	0.5−
1996 03 25	413	0.6−	0.8+	1999 02 07	716	0.5−	0.8+	1999 02 13	704	1.3+	0.0
1996 03 25	413	1.3+	0.7+	1999 02 07	716	0.4−	0.7+	1999 02 13	704	0.6−	0.7+
1998 12 16	699	0.3+	0.3+	1999 02 08	716	0.0	0.8+	1999 04 06	704	1.5+	0.2+
1998 12 16	699	0.3−	0.4+	1999 02 08	716	0.3−	0.6+	1999 04 06	704	(2.1−	0.9−)
1998 12 16	699	0.2−	0.4−	1999 02 10	704	0.3+	0.3+	1999 04 06	704	0.8+	0.3+
1999 01 09	411	1.6−	0.1+	1999 02 10	704	0.8+	0.7+	1999 04 06	704	(1.0−	2.5−)
1999 01 09	411	0.7−	0.3−	1999 02 10	704	1.1+	1.0+	1999 04 06	704	1.6−	1.0−
1999 01 10	411	0.1−	0.6−	1999 02 10	704	0.1+	0.2−				
1999 01 10	411	0.2−	0.2−	1999 02 10	704	0.1−	1.9−				

1999 AV₄ = 1976 YC₆

Id. A. Gnädig, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

M	100.38039		(2000.0)	P	Q
n	0.27169039	ω	62.92898	−0.77707299	−0.62721827
a	2.3609486	Ω	78.17867	+0.55681534	−0.72393139
e	0.1508804	i	3.07388	+0.29345228	−0.28726398
P	3.63	H	15.1	G 0.15	U 3

Residuals in seconds of arc

1954 12 21	675	0.8−	0.4+	1999 01 11	411	0.5−	0.5+	1999 02 10	704	0.7+	0.1+
1954 12 21	675	0.4+	0.5+	1999 01 12	411	0.4−	0.1−	1999 02 10	704	0.9+	1.7+
1976 12 18	095	0.3−	1.1−	1999 01 12	411	0.5−	0.1+	1999 02 12	699	0.6+	0.7+
1990 09 01	675	1.1−	0.1−	1999 01 18	411	0.6−	0.9−	1999 02 12	699	0.7+	0.7+
1990 09 01	675	0.5+	1.1+	1999 01 18	411	0.3−	1.0−	1999 02 12	699	0.5+	0.4+
1998 11 18	699	0.7+	0.6−	1999 01 19	704	0.1+	0.6−	1999 02 13	704	0.4+	0.2−
1998 11 18	699	0.0	0.3−	1999 01 19	704	0.3−	0.1−	1999 02 13	704	0.3−	0.0
1998 11 18	699	1.4−	0.2−	1999 01 19	704	0.9−	0.8−	1999 02 13	704	0.6−	0.1−
1998 11 25	704	0.0	1.3+	1999 01 19	704	0.7−	1.3−	1999 02 13	704	0.4−	0.8−
1998 11 25	704	0.1−	1.9−	1999 01 19	704	0.1−	0.4−	1999 02 13	704	0.9−	0.4−
1998 11 25	704	0.3−	0.6−	1999 01 28	411	0.1+	0.2−	1999 02 19	566	0.6+	1.5−
1998 11 25	704	0.4−	0.6+	1999 01 28	411	0.0	0.5+	1999 02 19	566	0.2+	1.6−
1998 11 25	704	(0.8−	2.4−)	1999 02 06	411	0.4+	0.3+	1999 02 19	566	0.3+	1.5−
1999 01 10	699	0.1−	0.5+	1999 02 06	411	0.6+	0.3+	1999 04 06	704	0.4−	0.5+
1999 01 10	699	1.6+	0.5+	1999 02 10	704	0.5+	1.2+	1999 04 06	704	1.3−	0.9−
1999 01 10	699	0.1+	1.6+	1999 02 10	704	0.0	0.7+	1999 04 06	704	0.4+	1.9+
1999 01 11	411	0.0	1.1+	1999 02 10	704	1.5+	1.4+	1999 04 06	704	1.7−	0.5+

1999 AY₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

M	141.90020		(2000.0)	P	Q
n	0.28949643	ω	1.96778	−0.05617124	−0.98294226
a	2.2631182	Ω	91.28275	+0.91362428	−0.12134341
e	0.1225041	i	10.08858	+0.40266048	+0.13820378
P	3.40	H	15.4	G 0.15	U 2

Residuals in seconds of arc

1955 04 24	675	0.6−	1.1−	1998 12 21	704	(1.5−	2.2+)	1999 02 10	704	0.2−	0.0
1955 04 24	675	0.4−	0.0	1999 01 13	411	0.8+	0.4−	1999 02 10	704	0.3−	0.4−
1976 06 29	413	0.0	0.3+	1999 01 13	411	0.9−	0.4+	1999 02 10	704	0.4+	1.1−
1979 06 24	413	1.6+	1.2−	1999 01 14	411	0.2−	0.7−	1999 02 10	704	0.4−	0.2−
1979 06 24	413	0.1−	1.5−	1999 01 14	411	0.0	0.6−	1999 02 10	704	0.4+	0.5−
1996 04 24	675	1.1−	0.8+	1999 01 18	411	0.5+	0.1+	1999 02 13	704	0.4+	0.3−
1996 04 24	675	0.1−	1.1+	1999 01 18	411	0.3+	0.0	1999 02 13	704	0.2−	0.2−
1998 11 25	704	0.3+	0.5−	1999 01 19	704	0.5+	0.1+	1999 02 13	704	0.8+	0.4+
1998 11 25	704	(2.2−	1.6+)	1999 01 19	704	0.6+	0.5+	1999 02 13	704	0.1+	0.3+
1998 11 25	704	1.6−	0.2−	1999 01 19	704	0.2+	0.9+	1999 02 13	704	0.1+	0.3−
1998 11 25	704	(1.0−	2.3−)	1999 01 19	704	1.1+	0.6+	1999 02 18	699	0.6+	0.3+
1998 11 25	704	1.6−	0.2+	1999 01 19	704	1.3+	0.7+	1999 02 18	699	0.2+	0.5+
1998 12 21	704	0.7−	1.7−	1999 01 26	411	0.0	0.0	1999 02 18	699	0.2+	0.0
1998 12 21	704	1.6−	1.8+	1999 01 26	411	0.2−	1.0−	1999 04 06	704	(2.3−	2.2+)
1998 12 21	704	1.5−	0.6+	1999 02 07	411	0.1+	0.0	1999 04 06	704	0.6−	1.7+
1998 12 21	704	0.3−	0.6−	1999 02 07	411	0.1−	0.1−	1999 04 06	704	0.6+	0.8+

1999 AZ₈ = 2000 DG₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	144.73751		(2000.0)	P	Q		
n	0.23761556	ω	276.71804	+0.99300157	−0.05022317		
a	2.5815832	Ω	86.19928	+0.08936231	+0.91126716		
e	0.2627363	i	6.14966	−0.07721565	+0.40874173		
P	4.15	H	14.2	G	0.15	U	3

Residuals in seconds of arc

1997 06 08	809	0.7+	0.5+	1998 12 08	699	0.4−	1.1+	2000 02 29	704	0.8−	0.1+
1997 06 08	809	0.5−	0.7+	1998 12 08	699	0.5−	0.9+	2000 03 05	704	0.3−	0.1−
1997 06 08	809	0.4+	0.7+	1998 12 08	699	0.2−	0.6+	2000 03 05	704	0.1−	0.5−
1997 06 09	809	(1.7+	2.2+)	1999 01 05	699	0.6−	0.3+	2000 03 05	704	0.2−	0.3−

2000 MAR. 20

M.P.C. 39295

1997 06 09	809	(0.7+ 2.1+)	1999 01 05	699	0.8+ 0.4-	2000 03 05	704	0.1- 0.2+
1997 06 09	809	0.6+ 1.5+	1999 01 05	699	0.4+ 0.4-	2000 03 05	704	0.1- 0.6+
1998 11 11	699	0.7+ 1.3+	1999 01 09	327	0.3+ 0.2+	2000 03 09	704	0.6+ 0.2-
1998 11 11	699	1.0+ 1.1+	1999 01 09	327	0.2+ 0.4+	2000 03 09	704	0.1- 0.5+
1998 11 11	699	0.8+ 0.7+	1999 01 09	327	0.1+ 0.4+	2000 03 09	704	0.2- 0.6-
1998 11 23	699	0.1+ 0.2-	1999 01 11	327	0.0 0.3+	2000 03 09	704	0.4+ 0.1-
1998 11 23	699	0.2- 0.6+	1999 01 11	327	0.3- 0.4+	2000 03 09	704	0.1- 0.0
1998 11 23	699	0.3- 0.1+	1999 01 11	327	0.1- 0.8+	2000 03 12	704	1.2+ 0.6-
1998 11 24	704	0.1+ 0.4-	1999 01 11	327	1.7- 0.9+	2000 03 12	704	0.1- 0.9-
1998 11 24	704	0.4+ 0.9-	2000 02 29	704	0.3- 0.3+	2000 03 12	704	0.8+ 1.3-
1998 11 24	704	0.4- 1.7-	2000 02 29	704	1.3- 0.8+	2000 03 12	704	0.5+ 0.1+
1998 11 24	704	1.0- 1.1-	2000 02 29	704	0.7+ 0.4+			
1998 11 24	704	0.4- 1.3-	2000 02 29	704	0.7- 0.8+			

1999 AM₉ = 1989 YT₉ = 1992 JT₂ = 2000 AT₂₂₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	173.81151	(2000.0)	P	Q	
<i>n</i>	0.21064629	ω	255.28766	+0.68551104	+0.71342656
<i>a</i>	2.7974790	Ω	58.93977	-0.58558136	+0.65882128
<i>e</i>	0.1549317	<i>i</i>	9.76218	-0.43263043	+0.23869870
<i>P</i>	4.68	<i>H</i>	13.1	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1989 12 21	888	0.4- 1.4+	1998 12 08	704	0.1- 0.8-	1999 12 15	704	0.1+ 0.1-
1989 12 21	888	0.6- 1.9+	1998 12 08	704	0.6+ 0.5-	1999 12 15	704	0.3+ 0.4-
1992 05 04	809	1.2- 0.4-	1998 12 08	704	(1.3+ 2.1-)	1999 12 15	704	0.6+ 0.3+
1992 05 04	809	1.0- 0.8-	1998 12 08	704	(0.1- 2.7-)	1999 12 15	704	0.2+ 0.2-
1992 05 04	809	0.9- 0.9-	1998 12 08	704	1.9- 0.6-	2000 01 02	704	0.3- 0.1-
1992 05 07	809	1.4- 0.2+	1999 01 06	699	0.2+ 0.6-	2000 01 02	704	0.2+ 0.1+
1992 05 07	809	1.3- 0.2+	1999 01 06	699	0.1+ 0.0	2000 01 02	704	0.5- 0.4-
1992 05 07	809	0.4- 0.0	1999 01 06	699	0.3+ 1.6-	2000 01 02	704	0.4- 0.3-
1992 05 08	809	1.2+ 1.0-	1999 01 10	327	0.2+ 0.1-	2000 01 02	704	0.4- 0.7-
1992 05 08	809	1.4+ 0.9-	1999 01 10	327	0.1+ 0.4+	2000 01 06	699	0.6+ 0.4-
1992 05 08	809	1.4+ 1.3-	1999 01 10	327	0.2- 0.4+	2000 01 06	699	0.2- 0.1+
1998 11 11	704	0.1+ 0.3-	1999 01 11	327	0.2- 0.2-	2000 01 06	699	0.7+ 0.3+
1998 11 11	704	0.2- 0.5-	1999 01 11	327	0.5+ 0.1+	2000 01 10	699	0.6+ 0.5+
1998 11 11	704	0.0 0.8-	1999 01 11	327	0.5+ 0.5-	2000 01 10	699	0.5+ 0.4+
1998 11 11	704	0.5+ 0.6-	1999 01 14	327	0.9+ 0.4-	2000 01 10	699	0.2- 0.3+
1998 11 11	704	0.6+ 0.0	1999 01 14	327	0.0 0.3-	2000 01 29	704	0.3- 0.0
1998 11 11	699	0.8+ 0.1+	1999 01 14	327	0.4+ 0.2+	2000 01 29	704	0.1- 0.3-
1998 11 11	699	0.3+ 0.1+	1999 01 16	327	1.0+ 0.0	2000 01 29	704	0.6- 0.4-
1998 11 11	699	0.6+ 0.5-	1999 01 16	327	0.2- 0.9-	2000 01 29	704	0.6- 0.1-
1998 11 24	699	0.8- 0.2-	1999 01 16	327	0.4+ 0.6+	2000 01 29	704	0.6- 0.3-
1998 11 24	699	0.3+ 0.3+	1999 01 16	327	0.3- 0.3-			
1998 11 24	699	0.2+ 0.2-	1999 12 15	704	0.2+ 0.1+			

1999 AP₉ = 2000 ES₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	279.14514	(2000.0)	P	Q	
<i>n</i>	0.19539365	ω	79.92569	+0.02400045	+0.99969703
<i>a</i>	2.9412306	Ω	191.45381	-0.92765274	+0.02023363
<i>e</i>	0.0422959	<i>i</i>	1.57602	-0.37267193	+0.01401608
<i>P</i>	5.04	<i>H</i>	13.1	<i>G</i>	0.15 <i>U</i> 5

Residuals in seconds of arc

1998 12 22	704	1.4- 0.8+	1999 01 13	327	0.2- 0.2+	2000 03 09	704	0.3+ 0.0
1998 12 22	704	0.4+ 1.4+	1999 01 23	327	0.3+ 0.7-	2000 03 09	704	0.1- 0.2+
1998 12 22	704	1.0+ 0.3-	1999 01 23	327	0.1- 1.2-	2000 03 09	704	0.3- 0.4-
1998 12 22	704	(0.9- 2.5+)	1999 01 23	327	0.1- 1.0-	2000 03 09	704	0.1- 0.2+
1998 12 22	704	1.1+ 0.7+	1999 01 25	327	0.2+ 0.9+	2000 03 09	704	0.8- 0.3+
1999 01 10	327	0.6- 0.5+	1999 01 25	327	0.1+ 1.2-	2000 03 10	704	0.3+ 0.1+
1999 01 10	327	0.1- 0.0	1999 01 25	327	0.2+ 0.7-	2000 03 10	704	0.3- 0.7-
1999 01 10	327	0.0 0.3+	2000 03 04	703	0.2+ 0.1+	2000 03 10	704	0.2+ 0.2+
1999 01 13	327	0.3- 0.3+	2000 03 04	703	0.2- 0.6+	2000 03 10	704	0.9+ 0.3+
1999 01 13	327	0.2- 0.3-	2000 03 04	703	0.0 0.5-			

1999 AP₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Marsden			
<i>M</i>	126.62047	(2000.0)	P	Q	
<i>n</i>	0.26918080	ω	46.77119	+0.71384822	-0.70027936
<i>a</i>	2.3756001	Ω	357.65827	+0.59777217	+0.61336154
<i>e</i>	0.5754396	<i>i</i>	7.64481	+0.36481386	+0.36523478
<i>P</i>	3.66	<i>H</i>	16.5	<i>G</i>	0.15 <i>U</i> 3

Residuals in seconds of arc

1999 01 14	704	0.1- 0.5+	1999 01 18	118	0.1+ 0.2-	1999 02 04	402	0.5- 0.3-
1999 01 14	704	(2.0+ 1.9+)	1999 01 18	118	0.1+ 0.2-	1999 02 04	402	0.6- 0.3-
1999 01 14	704	(1.0+ 3.0+)	1999 01 19	151	0.2+ 0.2-	1999 02 06	726	0.6+ 1.4-
1999 01 14	704	0.5- 0.5-	1999 01 19	151	0.7+ 0.0	1999 02 06	726	1.4+ 1.8-
1999 01 14	704	(0.4+ 2.6+)	1999 01 19	127	0.1+ 0.1-	1999 02 06	726	1.6+ 1.7-
1999 01 15	046	0.2- 0.3-	1999 01 19	151	0.2+ 0.2-	1999 02 08	402	0.0 0.4-
1999 01 15	046	0.6+ 0.0	1999 01 19	151	0.7+ 0.2-	1999 02 08	402	0.1- 0.3-
1999 01 15	046	0.0 0.6+	1999 01 19	127	0.2+ 0.2+	1999 02 08	402	0.0 0.4-
1999 01 15	046	0.0 0.0	1999 01 19	587	0.3+ 0.6+	1999 02 08	352	0.0 0.3+
1999 01 15	734	0.1- 0.1-	1999 01 19	587	0.2+ 0.1+	1999 02 08	360	0.1- 0.4-
1999 01 15	734	0.2- 0.2-	1999 01 20	355	0.4+ 0.1-	1999 02 08	360	0.2+ 0.5-
1999 01 15	734	0.1- 0.4+	1999 01 20	355	0.7+ 0.2+	1999 02 08	352	0.3+ 0.7-
1999 01 15	151	0.1- 0.1-	1999 01 20	355	0.3+ 0.0	1999 02 08	360	0.1- 0.4-
1999 01 15	151	0.1+ 0.2-	1999 01 20	636	0.4+ 1.1-	1999 02 10	726	0.1+ 0.2-
1999 01 15	151	0.6- 0.1+	1999 01 20	636	1.5- 1.0-	1999 02 10	726	0.3- 0.7-
1999 01 15	151	0.0 0.0	1999 01 20	127	0.5+ 0.0	1999 02 12	151	0.2+ 0.6+
1999 01 15	540	0.6- 0.7+	1999 01 20	127	0.4+ 0.1-	1999 02 12	151	1.3- 0.2-
1999 01 15	540	0.0 0.2+	1999 01 20	127	0.3+ 0.0	1999 02 12	587	0.7+ 1.0+
1999 01 15	540	0.1- 0.2+	1999 01 21	046	0.3- 0.2+	1999 02 12	587	0.2+ 0.4-
1999 01 15	540	0.1- 0.1+	1999 01 21	046	0.3- 0.2+	1999 02 14	900	0.1- 0.3+
1999 01 15	540	0.0 0.2+	1999 01 21	046	0.3- 0.3+	1999 02 14	900	0.4- 0.3+
1999 01 15	557	0.2- 0.4-	1999 01 21	151	0.4- 0.0	1999 02 15	726	0.0 0.7-
1999 01 15	557	0.2- 0.3-	1999 01 21	151	0.0 0.1-	1999 02 15	726	0.6+ 1.1-
1999 01 15	557	0.2- 0.3-	1999 01 21	151	0.0 0.1-	1999 02 15	046	0.2+ 0.5+
1999 01 15	108	0.1- 1.6-	1999 01 21	151	0.0 0.1+	1999 02 15	046	0.1+ 0.3+
1999 01 15	108	0.5+ 0.9-	1999 01 21	587	0.0 0.2-	1999 02 16	402	0.2- 0.1-
1999 01 15	108	0.4+ 0.6-	1999 01 21	587	0.1- 0.0	1999 02 16	402	0.4- 0.2-
1999 01 15	046	0.1- 0.1-	1999 01 22	071	0.2- 0.0	1999 02 16	402	0.2- 0.3-
1999 01 15	046	0.2- 0.1+	1999 01 22	071	0.2+ 0.0	1999 02 19	402	0.2- 0.0
1999 01 15	046	0.3- 0.4+	1999 01 22	360	0.2+ 0.2-	1999 02 19	402	0.3- 0.4-
1999 01 15	108	0.5- 0.4-	1999 01 22	360	0.1+ 0.2-	1999 02 19	402	0.2- 0.0
1999 01 15	046	0.0 0.2-	1999 01 22	360	0.1+ 0.2-	1999 02 25	402	0.3- 0.9+
1999 01 15	046	0.2- 0.1+	1999 01 22	071	0.8+ 0.3+	1999 02 25	402	0.7- 1.4+
1999 01 15	108	0.5+ 0.4-	1999 01 22	071	0.8+ 0.2-	1999 02 25	402	2.0- 1.6+
1999 01 15	108	0.5- 0.3+	1999 01 24	046	0.2+ 0.3+	1999 03 02	658	0.6+ 0.1+
1999 01 15	587	0.1- 0.2-	1999 01 24	046	0.3- 0.5+	1999 03 02	658	0.2- 0.5-
1999 01 15	587	0.1+ 0.1-	1999 01 24	046	0.2- 0.5+	1999 03 02	658	0.2+ 0.2-
1999 01 16	704	1.0- 0.2+	1999 01 24	046	0.5- 0.6+	1999 03 05	658	0.0 0.0
1999 01 16	704	(1.9- 2.3+)	1999 01 24	658	0.1- 0.0	1999 03 05	658	0.2+ 0.1-
1999 01 16	704	1.9- 0.0	1999 01 24	658	0.1+ 0.1-	1999 03 05	658	0.4- 0.2-
1999 01 16	151	0.0 0.8-	1999 01 24	658	0.2+ 0.2-	1999 03 06	046	0.2+ 0.3+
1999 01 16	151	0.1+ 0.7-	1999 01 24	151	0.7+ 1.1+	1999 03 06	046	0.5+ 0.4+
1999 01 16	151	(2.0- 2.6-)	1999 01 24	151	0.9- 1.5+	1999 03 06	046	0.2+ 0.5+
1999 01 17	402	0.3- 0.1-	1999 01 24	151	0.4- 1.5+	1999 03 12	711	0.5+ 0.0
1999 01 17	402	0.2- 0.2-	1999 01 25	071	0.6+ 1.3+	1999 03 12	711	0.5+ 0.3+
1999 01 17	402	0.2- 0.2-	1999 01 25	071	0.4+ 1.4+	1999 03 14	711	0.3+ 0.2+
1999 01 17	540	0.4+ 0.3+	1999 01 26	071	1.0+ 1.1+	1999 03 14	711	0.2+ 0.1+
1999 01 17	540	0.1+ 0.4+	1999 01 26	071	0.0 0.7+	1999 03 20	658	0.0 0.1+
1999 01 17	540	0.1- 0.5+	1999 01 26	402	0.3+ 0.1+	1999 03 20	658	0.3+ 0.5+
1999 01 17	540	0.0 0.5+	1999 01 26	402	0.2+ 0.0	1999 03 20	658	0.2+ 0.3+
1999 01 17	151	0.1- 0.4-	1999 01 26	402	0.3+ 0.1+	1999 05 24	693	0.6- 0.3-
1999 01 17	151	0.1- 0.1-	1999 01 26	900	0.2+ 0.2+	1999 05 24	693	1.0- 0.1+
1999 01 17	151	0.6- 0.5-	1999 01 26	900	0.0 0.1+	1999 05 24	693	0.4- 0.5+
1999 01 17	151	1.4+ 0.4-	1999 01 26	360	0.2+ 0.1+	2000 02 27	693	0.0 0.2-
1999 01 18	636	0.1- 0.7+	1999 01 26	360	0.0 0.3+	2000 02 27	693	0.5- 0.2-
1999 01 18	636	0.6- 0.8+	1999 01 26	360	0.0 0.3+	2000 02 27	693	0.3+ 0.3-
1999 01 18	636	0.2- 0.5+	1999 01 31	726	(1.4+ 3.5-)	2000 03 01	693	0.1- 0.3-
1999 01 18	127	0.2+ 0.2-	1999 01 31	726	(0.8+ 2.1-)	2000 03 01	693	0.0 0.2-

1999 01 18 127 0.1+ 0.4- 1999 01 31 726 (0.4+ 2.8-) 2000 03 01 693 0.1+ 0.0
 1999 01 18 127 0.0 0.4- 1999 02 04 402 0.5- 0.4-

1999 AH₂₁ = 2000 EO₁₀₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 293.76568		(2000.0)		Williams		<i>P</i> <i>Q</i>	
<i>n</i>	0.20644694	ω	37.53541	+0.05883860	+0.99723154		
<i>a</i>	2.8352874	Ω	235.88144	-0.92868762	+0.03797429		
<i>e</i>	0.0948689	<i>i</i>	3.14828	-0.36616570	+0.06393130		
<i>P</i>	4.77	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

1997 10 22	704	0.2-	0.2-	1997 10 31	704	(0.6- 2.6+)	1999 01 18	704	0.1+	1.0+	
1997 10 22	704	1.1+	0.9-	1997 11 06	704	0.7- 1.2+	1999 01 18	704	(2.3+ 0.4-)		
1997 10 22	704	(2.1+ 0.3-)		1997 11 06	704	0.3+ 1.5+	1999 01 18	704	0.8+	0.2-	
1997 10 22	704	1.2+	1.8-	1997 11 06	704	0.3- 0.1+	1999 01 18	704	(4.3- 1.9-)		
1997 10 29	704	0.4-	0.7-	1997 11 06	704	0.9- 0.3+	1999 01 19	120	0.1+	0.3-	
1997 10 29	704	0.4+	1.0-	1997 11 06	704	1.6- 0.2+	1999 01 19	120	0.9+	0.4+	
1997 10 29	704	0.9-	0.3+	1999 01 14	120	0.1+ 0.3+	1999 01 19	120	0.5+	0.7+	
1997 10 29	704	1.3-	0.3+	1999 01 14	120	0.1+ 0.5-	1999 01 19	120	0.6-	0.0	
1997 10 29	704	0.4-	0.1-	1999 01 14	120	0.1- 0.8-	1999 01 19	120	0.2+	0.2-	
1997 10 30	704	1.7+	0.3+	1999 01 15	120	0.1-	0.0	1999 01 20	120	1.0-	0.2-
1997 10 30	704	(2.1+ 1.2+)		1999 01 16	120	1.1-	0.1-	1999 01 21	120	0.4-	0.5-
1997 10 30	704	1.8+	0.4-	1999 01 16	120	1.1+	0.5+	1999 01 21	120	0.2-	0.3-
1997 10 30	704	0.9+	0.2+	1999 01 16	120	0.3-	0.1-	1999 02 15	120	(3.5+ 1.4-)	
1997 10 31	704	0.8-	1.7+	1999 01 17	120	0.1-	0.1-	1999 02 15	120	0.5+	0.1-
1997 10 31	704	(1.4- 2.9+)		1999 01 17	120	0.6-	0.8+	2000 03 15	428	0.2+	0.3+
1997 10 31	704	(2.6- 3.1+)		1999 01 17	120	0.2+	0.2+	2000 03 15	428	0.3+	0.3+
1997 10 31	704	(1.3- 2.2+)		1999 01 18	704	0.2-	0.7-	2000 03 16	428	0.2-	0.2+

1999 BY₁ = 1955 FB₂

Id. A. Gnädig, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 92.73128		(2000.0)		Williams		<i>P</i> <i>Q</i>	
<i>n</i>	0.26743148	ω	21.14310	-0.76766268	-0.52741310		
<i>a</i>	2.3859483	Ω	121.71864	+0.50925601	-0.84689262		
<i>e</i>	0.1968560	<i>i</i>	25.33861	+0.38904027	+0.06788450		
<i>P</i>	3.69	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

1955 03 25	675	0.4+	0.4-	Y	1999 01 18	704	1.6+	0.4+	1999 02 12	699	0.4+	0.1+
1955 03 25	675	(3.3+	1.6-)	Y	1999 01 18	704	0.1+	1.2-	1999 02 12	699	0.1+	0.1-
1955 03 25	675	0.3-	0.7+	Y	1999 01 18	704	1.0+	0.1-	1999 02 12	699	0.5-	0.2-
1992 05 02	675	1.0-	0.6-		1999 01 18	704	1.3+	0.2+	1999 02 13	704	0.0	0.2+
1992 05 02	675	0.9+	0.1+		1999 01 20	704	0.6-	0.2-	1999 02 13	704	0.3-	0.8+
1998 12 18	699	0.9+	0.0		1999 01 20	704	0.2-	0.4+	1999 02 13	704	0.8-	0.2-
1998 12 18	699	0.1+	0.0		1999 01 20	704	0.1-	0.5+	1999 02 13	704	1.1-	0.2+
1998 12 18	699	0.2+	0.3+		1999 01 20	704	0.3-	0.2+	1999 02 13	704	1.1-	0.0
1998 12 23	704	0.9-	0.0		1999 01 20	704	0.6-	1.9-	1999 04 06	704	0.2-	0.7+
1998 12 23	704	0.2+	1.1-		1999 02 10	704	0.9+	0.5-	1999 04 06	704	0.4+	0.4-
1998 12 23	704	0.2-	0.0		1999 02 10	704	0.2-	0.0	1999 04 06	704	0.2-	0.4-
1998 12 23	704	0.5+	0.0		1999 02 10	704	0.1-	0.2-	1999 04 06	704	0.6-	0.4+
1998 12 23	704	0.0	0.7+		1999 02 10	704	0.6-	1.6+	1999 04 06	704	0.3+	1.3-
1999 01 18	704	0.4+	0.1-		1999 02 10	704	0.2-	0.3+				

1999 BY₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 111.10900		(2000.0)		Gnädig		<i>P</i> <i>Q</i>	
<i>n</i>	0.21934283	ω	334.76503	-0.35751115	-0.91121968		
<i>a</i>	2.7230383	Ω	135.38763	+0.89863931	-0.39529243		
<i>e</i>	0.1636247	<i>i</i>	16.93803	+0.25423055	+0.11585593		
<i>P</i>	4.49	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

1984 11 18	413	0.8-	0.1-	1999 01 20	411	0.2+ 0.3-	1999 02 13	704	0.1+ 0.3+
1984 11 23	413	0.0	0.3-	1999 01 20	411	0.1- 0.2+	1999 02 13	704	0.5+ 0.2+
1984 11 23	413	0.8+	0.2+	1999 01 27	411	0.7- 0.0	1999 02 13	704	0.1- 0.5+
1990 03 19	675	0.1+	0.1+	1999 01 27	411	1.1- 0.2+	1999 02 18	566	0.4+ 0.3-
1990 03 19	675	0.2-	0.0	1999 02 09	411	0.2+ 0.5+	1999 02 18	566	0.4+ 0.4-
1998 11 25	704	1.1+	1.1-	1999 02 09	411	0.2- 0.5+	1999 02 18	566	0.2+ 0.2-
1998 11 25	704	0.3-	0.4-	1999 02 10	704	0.0 0.1-	1999 02 21	411	0.4- 0.3-
1998 11 25	704	1.6-	0.3+	1999 02 10	704	0.5+ 0.4+	1999 02 21	411	0.4- 0.4-
1998 12 16	699	0.0	1.0+	1999 02 10	704	0.1+ 0.9+	1999 03 15	704	1.4- 1.5-
1998 12 16	699	0.3+	0.5+	1999 02 10	704	0.5- 0.0	1999 03 15	704	0.6- 0.8-
1998 12 16	699	0.4-	0.7-	1999 02 10	704	0.1- 0.2-	1999 03 15	704	1.3+ 0.2-
1999 01 19	411	0.4+	0.4+	1999 02 13	704	0.6+ 0.1+	1999 03 15	704	0.9+ 0.2+
1999 01 19	411	0.4+	0.2+	1999 02 13	704	0.2- 0.6-	1999 03 15	704	0.0 0.8+

1999 BC₃ = 2000 DM₇₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 103.57543		(2000.0)		Williams		<i>P</i> <i>Q</i>	
<i>n</i>	0.15050321	ω	240.38944	+0.47990212	-0.87732119		
<i>a</i>	3.5003021	Ω	180.93414	+0.82854221	+0.45367494		
<i>e</i>	0.0421718	<i>i</i>	4.28198	+0.28846450	+0.15648188		
<i>P</i>	6.55	<i>H</i>	13.4	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

1998 12 15	704	1.7-	0.2-	1999 02 14	735	0.3+ 0.2+	2000 03 03	704	0.2- 0.7-
1998 12 15	704	1.2+	0.7-	1999 02 15	747	0.3+ 0.3-	2000 03 03	704	0.2- 0.9-
1998 12 15	704	0.8+	1.0-	1999 02 15	747	0.3+ 0.1+	2000 03 04	704	0.0 0.1+
1998 12 15	704	0.5-	1.1-	1999 02 15	747	0.3+ 0.1+	2000 03 04	704	0.2+ 0.4-
1999 01 19	735	0.5-	0.9+	1999 02 22	735	0.9+ 0.7+	2000 03 04	704	0.5- 0.1+
1999 01 19	735	0.9-	0.7+	1999 02 22	735	0.1- 0.4-	2000 03 04	704	0.5- 0.1+
1999 01 19	735	0.7-	0.8+	1999 02 22	735	0.5- 0.5-	2000 03 04	704	0.1- 0.6-
1999 01 20	735	0.9+	0.5-	2000 02 16	703	0.1- 0.4-	2000 03 05	649	0.3+ 1.4-
1999 01 20	735	0.3+	0.5+	2000 02 16	703	0.6+ 0.5-	2000 03 05	735	0.4+ 0.7-
1999 01 23	735	0.1+	0.6+	2000 02 16	703	0.9- 0.4+	2000 03 05	649	(2.7+ 0.5+)
1999 01 23	735	0.4+	0.4+	2000 02 16	703	0.5+ 1.1-	2000 03 05	735	1.4- 0.4-
1999 01 23	735	0.2+	0.1-	2000 02 27	703	0.5- 0.4-	2000 03 05	649	(2.1+ 1.5-)
1999 01 25	735	0.8+	0.4+	2000 02 27	703	0.7+ 0.1+	2000 03 11	704	0.4+ 0.5+
1999 01 25	735	0.0	0.3+	2000 02 27	703	0.3+ 0.5+	2000 03 11	699	0.2- 0.1+
1999 02 08	735	0.2-	0.0	2000 02 27	703	1.8- 0.8-	2000 03 11	704	0.4+ 0.5+
1999 02 08	735	1.3-	0.7-	2000 02 29	704	0.1- 0.8+	2000 03 11	704	0.6+ 0.9+
1999 02 08	747	0.0	0.1-	2000 02 29	704	0.8- 0.1+	2000 03 11	699	0.2- 0.4+
1999 02 08	747	0.7+	0.1+	2000 02 29	704	0.4+ 0.9+	2000 03 11	704	1.2+ 1.2+
1999 02 08	747	0.4-	0.1+	2000 02 29	704	0.7+ 0.6+	2000 03 11	699	0.1+ 0.4+
1999 02 08	747	0.2-	0.1-	2000 03 03	704	0.0 0.1-	2000 03 11	704	0.8+ 1.1+
1999 02 14	735	0.5-	0.0	2000 03 03	704	0.2- 0.8-	2000 03 11	699	0.1+ 0.1+

1999 BD₄ = 1978 GW = 2000 EU₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 313.79103		(2000.0)		Williams		<i>P</i> <i>Q</i>	
<i>n</i>	0.18054313	ω	240.16696	-0.39194196	+0.91996848		
<i>a</i>	3.1003834	Ω	6.76672	-0.82460077	-0.34826612		
<i>e</i>	0.1398006	<i>i</i>	3.05754	-0.40794002	-0.17991306		
<i>P</i>	5.46	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

1978 04 07	095	0.4-	0.8-	1999 01 24	143	1.5-	0.4-	1999 03 16	143	(5.2+ 0.7+)
1999 01 19	143	1.4+	0.1-	1999 01 25	143	0.1-	0.5-	2000 03 09	704	0.4+ 0.0
1999 01 19	143	0.4-	0.6-	1999 01 25	143	1.8-	0.2-	2000 03 09	704	0.1+ 0.1+
1999 01 19	143	0.7+	0.4-	1999 02 10	143	(0.7+ 2.8-)		2000 03 09	704	0.3+ 0.0
1999 01 20	143	(2.1+ 0.6-)		1999 02 10	143	0.6+ 1.4+		2000 03 09	704	0.2+ 0.3+
1999 01 20	143	0.3-	0.2+	1999 02 10	143	0.9-	1.8+	2000 03 09	704	0.1- 0.0
1999 01 20	143	0.3-	1.1-	1999 02 14	143	0.7+ 0.1-		2000 03 10	704	0.9+ 0.2-
1999 01 22	143	1.2+	0.0	1999 02 14	143	0.1+ 0.8-		2000 03 10	704	0.2- 0.4-
1999 01 22	143	0.6+	0.3+	1999 02 14	143	(3.0- 0.1+)		2000 03 10	704	0.1- 0.2+
1999 01 22	143	0.7-	0.8-	1999 03 16	143	0.5-	1.6+	2000 03 10	704	1.3- 0.5+
1999 01 24	143	(2.6- 0.1-)		1999 03 16	143	1.2+	0.1+			

2000 MAR. 20

M.P.C. 39297

1999 BR₆ = 1980 FE₁₁

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 148.07334 (2000.0)			P		Q	
<i>n</i>	0.20962101	ω	68.05003	−0.32937254	−0.94064207	
<i>a</i>	2.8065934	Ω	41.46701	+0.81424417	−0.32687971	
<i>e</i>	0.0726561	<i>i</i>	7.10384	+0.47803782	−0.09133538	
<i>P</i>	4.70	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 2	

Residuals in seconds of arc

1976 05 30	413	1.1−	0.4+	1999 01 22	910	0.6−	0.2−	1999 04 15	704	0.7−	0.7+
1976 05 30	413	1.0+	0.5−	1999 01 22	910	0.9−	0.1−	1999 04 15	704	(0.5−	2.5+)
1980 03 16	095	2.3+	2.0+	1999 01 22	910	0.7−	0.1−	1999 04 15	704	0.3+	1.7−
1985 03 23	413	0.3+	0.1−	1999 01 26	910	0.2−	0.1−	1999 04 16	704	0.0	0.4−
1985 03 23	413	1.6−	0.2+	1999 01 26	910	0.0	0.4−	1999 04 16	704	1.1+	0.1+
1991 08 06	413	0.4−	0.0	1999 01 26	910	0.4−	0.4−	1999 04 16	704	1.2+	0.1+
1991 08 06	413	0.0	1.2+	1999 04 07	704	(2.2−	0.7−)	1999 04 16	704	0.2+	1.1+
1994 02 08	809	0.8+	0.3+	1999 04 07	704	(2.2−	0.5−)	1999 05 18	704	1.6+	1.3+
1994 02 08	809	0.4−	0.9+	1999 04 07	704	(2.1−	1.8−)	1999 05 18	704	1.2+	0.1+
1994 02 08	809	0.2−	0.8+	1999 04 07	704	1.1−	1.0−	1999 05 18	704	0.7+	0.2−
1997 11 06	675	(0.8−	2.6−)	1999 04 12	704	0.1−	0.2−	1999 05 18	704	0.3−	0.8+
1997 11 06	675	(0.4+	3.8−)	1999 04 12	704	1.1−	0.5−	1999 05 19	704	1.3+	0.5−
1999 01 21	910	0.2−	0.0	1999 04 12	704	0.0	0.2−	1999 05 19	704	0.6+	0.6+
1999 01 21	910	0.3−	0.1−	1999 04 12	704	0.0	0.8−	1999 05 19	704	0.3−	0.1+
1999 01 21	910	0.3−	0.1−	1999 04 12	704	0.7−	0.6−	1999 05 19	704	1.8−	0.5−

1999 BP₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 48.44055 (2000.0)			P		Q	
<i>n</i>	0.23513462	ω	68.97901	−0.88030267	+0.09852875	
<i>a</i>	2.5997106	Ω	114.06325	−0.18894051	−0.97008391	
<i>e</i>	0.2558842	<i>i</i>	30.54640	+0.43516513	−0.22187675	
<i>P</i>	4.19	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1985 12 15	413	0.2+	1.1−	1999 01 18	704	0.8−	0.3+	1999 01 27	120	0.6+	0.7+
1985 12 15	413	(3.5+	2.7−)	1999 01 18	704	0.2+	1.1−	1999 02 05	120	0.1−	0.4+
1986 01 10	413	0.7+	1.2+	1999 01 18	704	0.3−	1.1+	1999 02 05	120	0.4+	0.2+
1986 01 10	413	0.1+	0.8−	1999 01 21	120	0.6−	0.7−	1999 05 14	703	0.5−	0.8+
1989 09 29	413	1.3−	1.5+	1999 01 21	120	0.6−	0.7−	1999 05 14	703	0.5+	0.7−
1995 03 31	675	0.5+	0.4−	1999 01 22	120	0.4−	0.1+	1999 05 14	703	0.8+	1.2−
1995 03 31	675	1.1−	0.4+	1999 01 23	120	0.4−	0.3+	1999 05 14	703	0.4+	1.6+
1998 12 22	704	0.3−	0.8−	1999 01 23	120	0.0	0.0	1999 05 15	693	0.2+	0.6−
1998 12 22	704	1.0+	1.8−	1999 01 24	120	1.4+	0.3+	1999 05 15	693	1.0+	0.4−
1998 12 22	704	(0.2−	3.5+)	1999 01 24	120	0.4+	0.3+	1999 05 15	693	0.1+	0.6−
1998 12 22	704	1.1−	0.5−	1999 01 24	120	0.1−	0.4+	1999 05 16	703	0.9−	0.7+
1998 12 22	704	0.3+	1.3+	1999 01 25	120	0.0	0.3+	1999 05 16	703	0.7−	0.6+
1999 01 18	704	1.3−	0.1−	1999 01 25	120	0.4+	0.5+	1999 05 16	703	0.7−	0.4−
1999 01 18	704	0.0	0.8−	1999 01 27	120	1.1+	0.3+	1999 05 16	703	0.3−	1.0+

1999 BK₈ = 1974 WZ

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 204.42327 (2000.0)			P		Q	
<i>n</i>	0.29234488	ω	322.21404	+0.93484357	−0.34537902	
<i>a</i>	2.2483939	Ω	58.18398	+0.34479213	+0.82768730	
<i>e</i>	0.1789148	<i>i</i>	5.56106	+0.08476959	+0.44232009	
<i>P</i>	3.37	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1974 11 18	095	(5.1+	2.4+)	1998 12 14	699	0.3+	0.6−	1999 02 10	704	1.1+	0.6−
1977 07 17	413	0.4+	1.1−	1998 12 14	699	0.1−	0.1−	1999 02 10	704	0.7+	0.5−
1977 07 17	413	0.6−	0.2−	1998 12 14	699	0.2+	0.1+	1999 02 10	704	0.8+	1.3−
1977 07 21	413	0.4−	1.1−	1999 01 19	704	0.8+	0.3−	1999 02 10	704	1.2+	0.5−
1977 07 21	413	1.3+	0.4+	1999 01 19	704	0.6−	0.1+	1999 02 10	704	0.5+	0.7−

1996 04 19	675	0.6−	1.0−	1999 01 19	704	0.4−	0.4+	1999 02 13	704	0.2+	0.4−
1996 04 19	675	0.9+	0.0	1999 01 19	704	0.2−	1.3+	1999 02 13	704	1.4+	0.3+
1997 06 28	704	0.0	0.9+	1999 01 20	905	1.9+	1.9+	1999 02 13	704	1.1−	0.4−
1997 06 28	704	0.4+	0.2−	1999 01 20	905	0.8−	0.7−	1999 02 13	704	0.3−	0.3+
1997 06 28	704	0.4+	0.2+	1999 01 21	905	0.0	0.6−	1999 02 13	704	0.1−	0.5−
1998 10 15	699	1.2−	1.4+	1999 01 21	905	0.1+	0.7−	1999 02 15	699	0.8+	0.0
1998 10 15	699	0.5−	0.1+	1999 01 25	385	0.4−	0.1−	1999 02 15	699	0.6+	0.2+
1998 10 15	699	0.1−	0.2−	1999 01 25	385	0.1−	0.4−	1999 02 15	699	0.3−	0.5+
1998 11 18	699	0.4−	1.1+	1999 01 27	385	0.5−	0.1+	1999 02 20	385	0.2+	0.0
1998 11 18	699	0.4−	0.8+	1999 01 27	385	0.7−	0.1+	1999 02 20	385	0.5+	0.1+
1998 11 18	699	0.0	0.5+	1999 02 05	757	(5.2−	6.9+)	2000 03 03	703	0.2−	0.4−
1998 11 25	704	1.4−	0.6+	1999 02 05	757	0.9−	1.7−	2000 03 03	703	0.8−	0.6+
1998 11 25	704	0.0	0.2+	1999 02 05	888	0.0	0.3+	2000 03 03	703	1.1−	0.8+
1998 11 25	704	1.8−	0.3−	1999 02 05	888	0.4−	0.5+	2000 03 03	703	0.4+	0.7+
1998 11 25	704	(2.0−	2.2+)	1999 02 06	886	0.2+	1.5−				
1998 11 25	704	0.8−	0.7+	1999 02 06	886	0.1−	1.0+				

1999 BS₉ = 2000 EV₉₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 181.84092 (2000.0)			P		Q	
<i>n</i>	0.22497951	ω	28.41556	+0.97403008	−0.22003971	
<i>a</i>	2.6773639	Ω	344.02609	+0.15299342	+0.81336719	
<i>e</i>	0.1393949	<i>i</i>	11.18150	+0.16690841	+0.53853165	
<i>P</i>	4.38	<i>H</i>	12.8	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1997 12 30	566	0.4−	0.1−	1999 01 24	106	0.1−	0.2+	1999 02 13	704	0.4+	0.3−
1997 12 30	566	0.3+	0.3+	1999 01 24	106	0.1−	0.1+	1999 02 13	704	0.1+	0.2−
1997 12 30	566	0.2+	0.5−	1999 01 26	106	0.1−	0.2−	1999 03 13	106	0.8−	0.4+
1998 12 21	704	0.5−	1.4−	1999 01 26	106	0.0	0.3−	1999 03 13	106	0.6−	0.2+
1998 12 21	704	0.6−	0.8+	1999 01 26	106	0.3+	0.5−	1999 03 13	106	0.3+	0.1+
1998 12 21	704	0.2−	1.1−	1999 02 06	106	0.9−	0.3−	2000 03 10	704	0.6−	0.1+
1998 12 21	704	0.5+	0.5+	1999 02 06	106	0.6−	0.5−	2000 03 10	704	0.5+	1.1−
1998 12 21	704	0.3+	1.6+	1999 02 06	106	0.1+	0.2−	2000 03 10	704	0.4−	0.1+
1999 01 19	106	0.4−	0.1−	1999 02 10	704	0.2−	0.6−	2000 03 10	704	0.6+	0.4+
1999 01 19	106	0.6−	0.5+	1999 02 10	704	0.5+	0.3−	2000 03 10	704	0.4−	0.3−
1999 01 19	106	1.9+	0.9+	1999 02 10	704	0.1+	0.1−	2000 03 14	704	0.0	0.3+
1999 01 22	699	0.3+	0.6+	1999 02 10	704	0.2−	0.8−	2000 03 14	704	0.1−	0.3+
1999 01 22	699	0.2+	0.3+	1999 02 10	704	0.5+	0.9−	2000 03 14	704	0.2+	0.1+
1999 01 22	699	0.3+	0.7+	1999 02 13	704	0.0	0.5+	2000 03 14	704	0.1+	0.3+
1999 01 24	106	0.3−	0.1−	1999 02 13	704	0.2+	0.2+	2000 03 14	704	0.2+	0.1−
1999 01 24	106	0.0	0.2+	1999 02 13	704	0.2+	0.0				

1999 BF₁₂ = 1991 JM₆

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 5.84283 (2000.0)			P		Q	
<i>n</i>	0.22891686	ω	215.89489	−0.63835436	+0.76778653	
<i>a</i>	2.6465750	Ω	14.69716	−0.64617594	−0.49580209	
<i>e</i>	0.1072858	<i>i</i>	12.48341	−0.41828264	−0.40581293	
<i>P</i>	4.31	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1952 04 19	675	0.3+	0.8−	1997 10 30	566	0.2+	0.5−	1999 02 10	704	0.6+	0.5+
1952 04 19	675	0.5−	0.5+	1998 12 27	699	0.1−	0.2+	1999 02 13	704	0.6−	0.2+
1974 06 22	413	1.1−	0.0	1998 12 27	699	0.4−	0.1−	1999 02 13	704	1.2+	0.6−
1974 06 22	413	0.9+	1.0−	1998 12 27	699	0.0	0.5+	1999 02 13	704	1.1+	0.8−
1989 10 28	675	0.1+	0.3+	1999 01 22	411	0.2−	0.4−	1999 02 13	704	0.7+	0.4−
1989 10 28	675	0.4+	1.0−	1999 01 22	411	0.4+	0.7+	1999 02 13	704	1.0−	1.9−
1990 01 26	675	1.1−	0.2−	1999 01 25	411	0.4−	0.0	1999 02 16	411	0.2−	0.4−
1990 01 26	675	0.1−	0.3+	1999 01 25	411	0.4+	0.1−	1999 02 16	411	0.1+	0.4−
1991 03 25	413	0.3−	0.7−	1999 01 28	411	0.1+	0.1−	1999 02 22	699	0.9+	1.3+
1991 03 25	413	0.6+	0.4+	1999 01 28	411	0.6+	0.1−	1999 02 22	699	0.0	1.3+
1991 05 08	675(26.3−	18.8−)		1999 02 09	411	0.2−	0.3−	1999 02 22	699	0.2−	0.1−
1991 05 08	675 (0.3−	2.5−)		1999 02 09	411	1.2−	0.4+	1999 05 14	703	1.0−	0.1−
1995 03 27	675	0.6−	0.0	1999 02 10	704	0.2−	0.5−	1999 05 14	703	1.0−	0.3−

M.P.C. 39298

1995 03 27	675	1.7−	0.0	1999 02 10	704	0.4+	0.3−	1999 05 14	703	0.9+	1.8+
1997 10 30	566	0.0	0.6−	1999 02 10	704	0.2+	0.1+	1999 05 14	703	0.2+	0.3+
1997 10 30	566	0.3+	0.4−	1999 02 10	704	0.5+	0.1+				

1999 BK₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

M	0.80393		(2000.0)	P	Q
n	0.17782215	ω	207.00311	+0.01829110	+0.99594948
a	3.1319307	Ω	64.15725	−0.89875678	+0.05495596
e	0.1358972	i	5.61347	−0.43806584	−0.07116518
P	5.54	H	14.0	G 0.15	U 1

Residuals in seconds of arc

1988 02 23	413	0.7−	0.1+	1999 04 07	704	0.3−	0.2−	1999 04 16	704	0.3−	0.5−
1988 02 23	413	0.9+	0.0	1999 04 07	704	1.2−	0.7+	1999 04 16	704	0.3−	0.5−
1990 10 25	675	1.1−	1.2+	1999 04 07	704	0.6−	0.3−	1999 04 16	704	1.1−	1.2−
1990 10 25	675	0.5+	0.2+	1999 04 07	704	0.0	0.2−	1999 05 16	703	0.7+	1.0+
1993 03 23	675	0.3−	0.3−	1999 04 07	704	0.8−	0.4−	1999 05 16	703	0.6+	0.3−
1993 03 23	675	0.2−	0.3+	1999 04 12	704	0.4−	0.7−	1999 05 16	703	0.0	1.1+
1999 01 23	910	0.5+	0.3−	1999 04 12	704	0.2+	0.5−	1999 05 16	703	0.3+	1.4+
1999 01 23	910	0.9+	0.5−	1999 04 12	704	0.5−	0.2+	1999 05 17	703	0.2+	0.4+
1999 01 23	910	0.6+	0.0	1999 04 12	704	0.7+	0.3+	1999 05 17	703	0.2+	0.4+
1999 01 26	910	0.4+	0.0	1999 04 12	704	0.3+	0.4−	1999 05 17	703	0.0	0.1+
1999 01 26	910	0.4+	0.1−	1999 04 16	704	0.0	0.0	1999 05 17	703	0.1−	0.5+
1999 01 26	910	0.5+	0.5+	1999 04 16	704	0.8+	0.8+				

1999 BR₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	58.60481		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.28384790	ω	151.61761	−0.85729705	+0.50468566
a	2.2930433	Ω	59.04657	−0.49191615	−0.74478044
e	0.0643434	i	6.80777	−0.15185607	−0.43657128
P	3.47	H	14.5	G 0.15	U 2

Residuals in seconds of arc

1990 09 01	675	1.2−	0.5+	1998 12 21	704	0.6+	1.6+	1999 02 10	704	0.2−	1.6−
1990 09 01	675	0.7+	0.4+	1998 12 21	704	0.7−	0.2+	1999 02 10	426	0.0	0.0
1996 04 18	413	0.8−	0.5−	1998 12 21	704	(3.3−	0.7+)	1999 02 10	426	0.0	0.4+
1996 06 15	566	0.7+	0.8+	1999 01 24	426	0.6−	0.0	1999 02 10	426	0.5+	0.0
1996 06 15	566	0.2+	0.6+	1999 01 24	426	0.1−	0.4−	1999 02 13	704	0.1−	0.1+
1996 06 15	566	0.4+	1.0+	1999 01 24	426	0.7+	0.8−	1999 02 13	704	0.5+	0.3+
1997 10 30	704	0.3−	0.5+	1999 01 26	426	0.0	0.6+	1999 02 13	704	0.3−	0.6+
1997 10 30	704	0.6+	0.8+	1999 01 26	426	1.2−	0.2−	1999 02 13	704	0.2+	0.4+
1997 10 30	704	0.5−	0.8−	1999 01 26	426	0.7−	0.9+	1999 02 13	704	0.1+	0.1+
1997 10 30	704	0.1−	0.2−	1999 02 09	426	0.1+	0.1−	1999 03 13	426	0.3+	0.1−
1997 10 30	704	1.1−	0.2−	1999 02 09	426	0.1+	0.5+	1999 03 13	426	0.1+	0.1+
1997 11 03	704	0.7+	0.8+	1999 02 09	426	0.0	0.1+	1999 03 13	426	0.2+	0.0
1997 11 03	704	0.3−	0.7−	1999 02 10	704	1.0+	0.6−	1999 04 12	426	0.6−	0.3+
1997 11 03	704	0.4+	1.1+	1999 02 10	704	0.7+	0.1+	1999 04 12	426	0.5−	0.3+
1997 11 03	704	(1.0−	2.9+)	1999 02 10	704	0.1+	0.2+	1999 04 13	426	0.1−	0.8−
1998 12 21	704	0.8+	0.0	1999 02 10	704	0.1−	0.1+	1999 04 13	426	0.2−	0.3−

1999 BW₂₅ = 2000 EF₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	173.14054		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.22536735	ω	216.92289	+0.92450113	−0.37837709
a	2.6742913	Ω	165.10392	+0.37833040	+0.89607588
e	0.1645288	i	10.33874	+0.04651640	+0.23211807
P	4.37	H	13.4	G 0.15	U 4

Residuals in seconds of arc

1998 12 23	704	(0.2+	2.1+)	1999 01 20	704	0.1+	0.8+	2000 03 08	691	0.2−	0.7−
1998 12 23	704	0.3+	0.2+	1999 01 20	704	0.6−	1.2−	2000 03 08	691	0.3−	0.7−
1998 12 23	704	0.4+	0.6+	1999 02 12	704	0.0	0.0	2000 03 08	691	0.2−	0.6−
1998 12 23	704	0.3+	0.2−	1999 02 12	704	0.2+	0.2+	2000 03 09	691	0.8−	0.3−

2000 MAR. 20

1998 12 23	704	(7.1−	2.4−)	1999 02 12	704	0.1+	0.5−	2000 03 09	691	0.8−	0.3−
1999 01 14	699	0.0	0.6+	1999 02 12	704	0.1−	0.0	2000 03 09	691	0.7−	0.3−
1999 01 14	699	0.1+	0.3+	1999 02 12	704	0.3+	0.3−	2000 03 10	704	1.5+	0.1−
1999 01 14	699	0.4−	0.7+	1999 02 16	704	0.2+	0.8−	2000 03 10	704	1.3+	1.5+
1999 01 18	704	0.4+	0.3−	1999 02 16	704	0.6−	0.3+	2000 03 10	704	(0.7−	2.6+)
1999 01 18	704	0.0	1.7+	1999 02 16	704	0.9+	0.8+	2000 03 12	704	0.2−	0.3+
1999 01 18	704	0.7−	0.8−	1999 02 16	704	0.0	0.7+	2000 03 12	704	0.4+	0.8+
1999 01 18	704	0.7+	1.2−	2000 03 08	704	0.4+	0.2+	2000 03 12	704	0.1+	0.0
1999 01 18	704	1.9−	1.1−	2000 03 08	704	1.1+	0.5+	2000 03 12	704	0.1+	0.2−
1999 01 20	704	0.1+	0.5−	2000 03 08	704	1.2−	0.1+	2000 03 12	704	0.4−	0.4−
1999 01 20	704	0.5+	0.1−	2000 03 08	704	0.0	0.2+				

1999 BV₂₇ = 2000 DM₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	53.51211		(2000.0)	P	Q		
n	0.17558479	ω	21.75480	−0.18692034	−0.96259389		
a	3.1584800	Ω	79.44592	+0.86933850	−0.25506909		
e	0.1946393	i	11.50906	+0.45750558	+0.09139344		
P	5.61	H	13.4	G	0.15	U	3

Residuals in seconds of arc

1998 11 23	699	0.2−	0.4+	1999 01 17	691	0.0	0.4−	1999 01 23	691	0.1−	0.9−
1998 11 23	699	0.0	0.4+	1999 01 17	691	0.1−	0.1+	2000 02 29	411	(5.7+	4.6+)
1998 11 23	699	0.1+	0.4+	1999 01 17	691	0.2−	0.1+	2000 02 29	411	(6.2+	4.4+)
1998 11 24	704	0.1+	0.4+	1999 01 22	699	0.4+	0.1−	2000 03 01	411	0.1+	1.2−
1998 11 24	704	0.3−	0.7−	1999 01 22	699	0.9+	0.1+	2000 03 01	411	0.1−	0.2−
1998 11 24	704	0.1−	0.1+	1999 01 22	699	0.1−	1.0+	2000 03 08	411	0.5+	0.7+
1998 11 24	704	0.3−	0.9−	1999 01 23	691	0.3−	0.0	2000 03 08	411	0.4−	0.8+
1998 11 24	704	0.5+	0.1+	1999 01 23	691	0.3−	0.0				

1999 CG₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

M	122.99596		(2000.0)	P	Q
n	0.27584452	ω	148.39002	−0.65730768	−0.75307457
a	2.3371853	Ω	342.64960	+0.66979691	−0.56629831
e	0.1187244	i	5.52808	+0.34542541	−0.33494017
P	3.57	H	14.8	G	0.15
				U	2

Residuals in seconds of arc

1955 12 12	675	0.1+	1.0−	1999 02 10	426	0.8+	0.5+	1999 03 19	704	1.3+	0.4−
1955 12 12	675	1.0−	0.0	1999 02 12	426	0.3−	0.1−	1999 03 20	704	0.2−	1.2+
1986 10 02	413	0.7−	0.3+	1999 02 12	426	0.3−	0.2−	1999 03 20	704	0.2+	0.2−
1986 10 02	413	0.0	0.0	1999 02 12	426	0.1−	0.0	1999 03 20	704	1.6−	0.6+
1988 02 16	675	0.6−	0.0	1999 02 13	704	0.9−	0.1−	1999 03 20	704	0.5+	0.2+
1988 02 16	675	0.6+	0.5−	1999 02 13	704	1.2−	1.1−	1999 03 20	704	0.4−	1.4+
1990 08 28	675	0.8−	1.9+	1999 02 13	704	0.4+	0.7−	1999 03 20	704	0.0	0.1+
1990 08 28	675	0.2+	0.2+	1999 02 13	704	1.6−	1.1+	1999 03 20	704	0.7−	1.0+
1990 10 14	675	0.9−	0.2+	1999 02 16	426	0.4+	0.1−	1999 03 20	704	0.0	0.9−
1990 10 14	675	0.6+	0.3+	1999 02 16	426	0.0	0.1+	1999 03 20	704	0.8−	1.7+
1998 12 17	699	0.4−	0.3+	1999 03 13	426	0.3−	0.2+	1999 03 20	704	0.2−	1.1−
1998 12 17	699	0.6−	0.2−	1999 03 13	426	0.2+	0.2+	1999 03 23	699	0.3+	0.0
1998 12 17	699	0.8−	0.5+	1999 03 14	426	0.0	0.2−	1999 03 23	699	0.2+	0.4+
1999 02 10	704	0.8+	0.6+	1999 03 14	426	0.3+	0.1−	1999 03 23	699	(2.6+	0.1+)
1999 02 10	704	1.1+	0.1−	1999 03 19	704	0.7+	0.3−	1999 04 12	426	0.7+	0.3−
1999 02 10	704	0.0	1.2+	1999 03 19	699	1.3+	0.6+	1999 04 12	426	0.9−	0.5−
1999 02 10	704	0.5+	0.4+	1999 03 19	704	0.1+	0.1−	1999 04 12	426	0.6+	0.8−
1999 02 10	704	1.0−	0.4−	1999 03 19	704	1.1+	0.3−	1999 04 13	426	0.2+	0.4−
1999 02 10	426	0.2+	0.4+	1999 03 19	699	0.9+	0.2−	1999 04 13	426	0.4−	0.6−
1999 02 10	426	0.4+	0.2+	1999 03 19	699	0.6+	0.1−				

2000 MAR. 20

M.P.C. 39299

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	81.33035		(2000.0)	P	Q
<i>n</i>	0.23761893	ω	74.35803	-0.98103159	-0.13126379
<i>a</i>	2.5815588	Ω	97.93840	+0.06909144	-0.92429199
<i>e</i>	0.1992338	<i>i</i>	8.28068	+0.18111706	-0.35840498
<i>P</i>	4.15	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1974 02 16	095	0.4+	2.0+	1999 02 13	699	0.6+	0.1-	1999 03 16	411	0.3-	0.8-
1989 11 05	675	0.4-	0.3+	1999 02 13	699	0.2+	0.0	1999 04 08	411	0.0	0.2+
1989 11 05	675	0.2+	0.3-	1999 02 14	411	0.2+	0.2+	1999 04 08	411	0.3-	0.2-
1991 03 19	413	0.5+	1.2+	1999 02 14	411	0.5+	0.6+	1999 05 08	704	0.7-	1.5-
1991 03 19	413	1.2+	1.4+	1999 02 15	411	0.2+	0.5+	1999 05 08	704	1.7-	1.1-
1998 12 21	704	0.7+	1.3-	1999 02 15	411	0.1-	0.1-	1999 05 08	704	1.2-	0.2-
1998 12 21	704	1.3+	0.9-	1999 02 21	411	0.0	0.0	1999 05 08	704	0.6-	0.6+
1998 12 21	704	(1.7+	2.4-)	1999 02 21	411	1.1-	0.3+	1999 05 08	704	(2.6-	2.5-)
1999 02 13	699	0.2+	0.3-	1999 03 16	411	0.3+	0.8-				

1999 CF₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	54.92732		(2000.0)	P	Q
<i>n</i>	0.23755988	ω	50.71947	-0.68520474	+0.72795984
<i>a</i>	2.5819866	Ω	175.78604	-0.72717254	-0.68186785
<i>e</i>	0.2039821	<i>i</i>	18.94164	-0.04140728	-0.07162899
<i>P</i>	4.15	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1985 12 18	413	0.8-	1.3-	1999 02 20	704	1.8+	1.6+	1999 03 23	704	1.0-	0.2+
1985 12 18	413	0.1+	0.1-	1999 03 12	120	1.7+	0.2+	1999 03 23	704	0.1+	0.3+
1987 05 31	675	0.0	0.3+	1999 03 12	120	0.7+	0.2-	1999 04 12	704	0.1+	1.2-
1987 05 31	675	0.5+	0.3-	1999 03 13	120	0.7+	0.6-	1999 04 12	704	0.3+	0.5-
1999 02 13	120	(2.3+	1.3-)	1999 03 19	704	0.5+	0.2+	1999 04 12	704	0.3+	0.1-
1999 02 13	120	0.8-	0.3+	1999 03 19	704	0.1-	0.0	1999 04 12	704	0.5+	0.4-
1999 02 13	120	0.0	0.0	1999 03 19	704	0.1+	0.4-	1999 04 12	704	0.6-	0.3+
1999 02 13	120	1.3+	0.2-	1999 03 19	704	0.2-	0.3+	1999 04 16	704	0.2+	0.5-
1999 02 18	120	0.9-	0.5-	1999 03 19	704	0.1-	0.6-	1999 04 16	704	0.4-	0.0
1999 02 18	120	1.2-	1.3+	1999 03 20	704	0.1+	0.1+	1999 04 16	704	(1.0-	3.5+)
1999 02 18	120	1.5-	1.7+	1999 03 20	704	0.1-	0.1+	1999 04 16	704	1.3-	1.0+
1999 02 18	120	0.1-	0.5+	1999 03 20	704	0.6+	0.9-	1999 04 16	704	1.3-	0.3+
1999 02 19	120	1.1+	0.8+	1999 03 20	704	0.0	0.6-	1999 06 07	704	1.7-	1.1+
1999 02 19	120	0.1+	0.8+	1999 03 20	704	0.6+	1.1-	1999 06 07	704	1.1-	0.7-
1999 02 20	704	1.1+	1.6-	1999 03 23	704	0.2-	0.0	1999 06 07	704	0.2+	1.1-
1999 02 20	704	0.0	0.9+	1999 03 23	704	0.1+	0.5-	1999 06 07	704	0.5-	0.7+
1999 02 20	704	(3.0+	1.0-)	1999 03 23	704	0.2+	0.2+				

1999 CJ₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	47.00875		(2000.0)	P	Q
<i>n</i>	0.19968140	ω	37.36461	-0.79323978	+0.60890886
<i>a</i>	2.8989739	Ω	180.15323	-0.60569104	-0.78918287
<i>e</i>	0.1553452	<i>i</i>	17.60628	-0.06252209	-0.08012736
<i>P</i>	4.94	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1951 08 10	675	1.4-	0.1-	1999 02 24	120	0.5-	0.3+	1999 04 12	704	0.9+	0.5-
1951 08 10	675	1.1+	0.7+	1999 02 24	120	0.4-	0.3+	1999 04 12	704	0.3-	0.5-
1982 11 19	413	0.3-	0.9-	1999 02 24	120	0.6-	0.1+	1999 04 12	704	0.6-	0.5+
1982 11 19	413	1.0+	0.3+	1999 02 26	704	(1.0-	4.0-)	1999 04 12	704	0.0	0.4+
1991 10 01	413	0.6-	0.4-	1999 02 26	704	0.6-	0.4-	1999 04 12	704	0.9+	0.1-
1991 10 01	413	0.3+	0.6+	1999 02 26	704	1.0+	1.0+	1999 04 15	704	1.1+	0.0
1999 02 13	120	0.2-	0.1-	1999 02 26	704	1.5-	0.0	1999 04 15	704	0.0	1.1+
1999 02 13	120	1.7-	1.5+	1999 02 26	704	0.3-	0.8+	1999 04 15	704	0.2-	0.2+
1999 02 13	120	2.1-	0.6-	1999 03 12	120	2.1-	1.1+	1999 04 15	704	0.8+	0.6+
1999 02 18	120	1.1-	0.0	1999 03 12	120	0.3+	0.4-	1999 04 15	704	0.2-	1.5-
1999 02 18	120	0.5-	0.2-	1999 03 13	120	0.5-	0.1+	1999 04 16	704	0.0	1.0-

1999 02 18	120	0.8-	0.1+	1999 03 19	704	0.4+	0.3-	1999 04 16	704	1.1+	0.3+
1999 02 18	120	1.0-	0.5+	1999 03 19	704	0.2+	0.7-	1999 04 16	704	0.1-	0.2-
1999 02 19	120	1.6+	0.1+	1999 03 19	704	0.7+	0.3-	1999 04 16	704	0.6-	0.4-
1999 02 19	120	0.1+	0.5-	1999 03 19	704	0.4+	0.2-	1999 04 16	704	0.5+	0.2+
1999 02 23	704	0.7+	0.6+	1999 03 19	704	0.9-	0.5+	1999 06 07	704	0.1-	0.0
1999 02 23	704	1.4-	1.2+	1999 03 20	704	0.4+	0.4-	1999 06 07	704	1.3+	0.5+
1999 02 23	704	0.8-	0.6+	1999 03 20	704	0.5+	0.1+	1999 06 07	704	0.9+	0.3+
1999 02 23	704	(0.0	3.0+)	1999 03 20	704	1.1+	0.8-	1999 06 07	704	1.4+	0.9-
1999 02 23	704	(2.2-	3.0+)	1999 03 20	704	0.2+	1.3-	1999 06 07	704	0.5+	0.7-
1999 02 24	120	0.5-	0.2+	1999 03 20	704	0.2-	0.4-				

1999 CM₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	6.94016		(2000.0)	P	Q
<i>n</i>	0.24174768	ω	74.67781	-0.48168995	+0.87604083
<i>a</i>	2.5520813	Ω	166.45518	-0.83694640	-0.45211012
<i>e</i>	0.0604109	<i>i</i>	5.62644	-0.25979898	-0.16777634
<i>P</i>	4.08	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1950 03 22	675	1.7-	0.4+	1999 01 15	699	0.5-	0.3+	1999 02 12	704	1.9-	0.6+
1950 03 22	675	0.1+	0.1+	1999 01 15	699	0.4+	0.5+	1999 02 16	704	0.4-	0.3-
1950 03 22	675	1.5+	0.4-	1999 01 18	704	1.0+	1.0-	1999 02 16	704	0.2-	0.2-
1979 05 19	413	0.5-	0.4+	1999 01 18	704	0.7-	0.3-	1999 02 16	704	0.1+	0.4-
1979 05 19	413	0.3+	0.2-	1999 01 18	704	0.4+	0.4+	1999 02 16	704	0.1-	0.0
1979 05 19	413	0.0	0.6-	1999 01 18	704	0.9-	1.1+	1999 02 16	704	0.4+	0.1+
1989 11 05	675	1.3-	0.3+	1999 01 18	704	0.6-	1.4+	1999 02 18	120	0.2+	0.4-
1989 11 05	675	1.4+	0.4-	1999 02 06	120	0.3+	0.4-	1999 02 18	120	0.1+	0.4-
1995 02 26	675	0.2+	0.9+	1999 02 06	120	0.5+	0.7-	1999 03 21	699	1.8+	0.2-
1995 02 26	675	0.8+	0.2+	1999 02 07	120	0.1-	1.0-	1999 03 21	699	0.3+	1.8+
1998 12 17	699	0.2+	0.3+	1999 02 12	704	0.5-	0.1-	1999 03 21	699	0.1+	0.9+
1998 12 17	699	0.0	1.0+	1999 02 12	704	0.0	1.3-	1999 04 20	691	0.2-	0.3-
1998 12 17	699	0.9+	1.8-	1999 02 12	704	0.8-	0.1+	1999 04 20	691	0.4-	0.3-
1999 01 15	699	0.1-	0.1+	1999 02 12	704	0.2-	0.3-	1999 04 20	691	0.3-	0.3-

1999 CD₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	155.28789		(2000.0)	P	Q
<i>n</i>	0.24697050	ω	80.07926	+0.53436867	-0.84514790
<i>a</i>	2.5159731	Ω	337.60427	+0.76125653	+0.48801272
<i>e</i>	0.1374543	<i>i</i>	1.99067	+0.36733993	+0.21810231
<i>P</i>	3.99	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1950 12 09	675	1.7-	0.5-	1999 01 10	699	1.2+	0.3-	1999 02 13	704	0.5+	1.6-
1950 12 09	675	1.2+	0.5-	1999 01 10	699	0.7-	0.2-	1999 02 13	704	1.3-	0.1-
1976 05 30	413	1.1-	0.8+	1999 01 19	704	0.2+	0.2+	1999 02 13	704	1.1-	0.0
1976 05 30	413	0.5+	1.4-	1999 01 19	704	0.8+	0.3+	1999 02 13	704	1.9-	0.4+
1976 06 28	413	0.8+	0.6+	1999 01 19	704	0.0	0.6+	1999 02 23	699	0.0	1.1+
1981 09 29	413	1.5-	0.7+	1999 01 19	704	1.1+	1.0+	1999 02 23	699	0.7+	1.1+
1981 09 29	413	0.8+	1.0+	1999 02 10	704	0.3+	0.8-	1999 02 23	699	0.8-	0.5+
1998 11 26	691	0.1+	0.3-	1999 02 10	704	1.8-	1.0-	1999 03 20	910	0.5+	0.4+
1998 11 26	691	1.8+	0.6+	1999 02 10	704	0.3+	0.0	1999 03 20	910	0.9+	0.1+
1998 11 26	691	0.1+	0.6-	1999 02 10	704	0.1-	0.5+	1999 03 20	910	0.1+	0.3+
1999 01 10	699	0.1+	0.5-	1999 02 10	704	0.4+	0.7+				

1999 CH₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

M	112.23734		(2000.0)	P	Q
n	0.24362629	ω	247.78675	-0.44240753	-0.89375227
a	2.5389449	Ω	228.68743	+0.85484124	-0.39529944
e	0.1902638	i	5.65727	+0.27114947	-0.21200290
P	4.05	H	15.5	G 0.15	U 3

M.P.C. 39300

2000 MAR. 20

Residuals in seconds of arc

1954 01 03	675	0.0	0.4−	1999 02 12	704	1.0−	0.2−	1999 02 21	699	0.6+	0.2+
1983 05 12	413	0.3−	1.1+	1999 02 12	704	0.4+	0.1+	1999 02 21	699	0.0	0.3+
1983 05 12	413	0.6−	0.8+	1999 02 12	704	1.0−	0.5−	1999 03 22	699	1.2−	1.4+
1991 04 10	675	0.3−	0.6−	1999 02 12	704	0.8−	0.1+	1999 03 22	699	0.7+	1.1−
1991 04 10	675	0.1+	0.9−	1999 02 16	704	0.3−	0.2−	1999 03 22	699	1.7+	0.7+
1991 04 10	675	0.5+	3.0−	1999 02 16	704	0.1−	0.8−	1999 05 07	704	0.2+	0.0
1998 12 26	699	0.6−	1.5+	1999 02 16	704	0.0	0.0	1999 05 07	704	0.3+	2.2+
1998 12 26	699	0.4−	0.7+	1999 02 16	704	0.6+	0.7−	1999 05 07	704	0.3+	1.0+
1998 12 26	699	1.0+	0.7+	1999 02 16	704	0.8+	0.5−				
1999 02 12	704	0.8−	0.7−	1999 02 21	699	0.3+	0.6+				

1999 CY₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	10.01128		(2000.0)	<i>P</i>	<i>Q</i>	Gnädig
<i>n</i>	0.23740292	<i>ω</i>	314.32058	−0.56649695	+0.80232867	
<i>a</i>	2.5831245	<i>Ω</i>	280.26631	−0.69121084	−0.58685875	
<i>e</i>	0.0552402	<i>i</i>	11.01551	−0.44867446	−0.10892892	
<i>P</i>	4.15	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1989 11 22	675	1.6−	0.3−	1998 12 26	699	0.5+	0.2−	1999 02 16	704	0.3−	0.7−
1989 11 22	675	1.7+	0.7+	1998 12 26	699	0.5+	0.3+	1999 02 16	704	0.7−	0.4−
1989 12 28	675	1.9−	1.3−	1999 02 12	704	0.7−	0.4−	1999 02 23	699	0.9+	0.1+
1989 12 28	675	2.0+	1.3+	1999 02 12	704	0.8−	0.1−	1999 02 23	699	1.2+	0.5+
1990 01 01	675	1.3−	0.6−	1999 02 12	704	0.2−	0.6−	1999 02 23	699	0.9+	0.4+
1990 01 01	675	0.6+	0.0	1999 02 12	704	0.0	0.5−	1999 05 07	704	1.3−	0.3+
1991 04 13	413	0.4+	0.2+	1999 02 12	704	0.5−	0.5+	1999 05 07	704	1.3+	0.7+
1993 10 19	675	0.4−	0.2+	1999 02 16	704	0.6−	0.1−	1999 05 07	704	0.6−	1.3+
1993 10 19	675	0.9+	0.7+	1999 02 16	704	0.3−	0.3+	1999 05 07	704	(2.5−	0.6−)
1998 12 26	699	1.4+	0.3−	1999 02 16	704	0.6−	0.4−				

1999 CO₁₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	65.36327		(2000.0)	<i>P</i>	<i>Q</i>	Gnädig
<i>n</i>	0.17662826	<i>ω</i>	59.38666	−0.88452261	−0.33965291	
<i>a</i>	3.1460281	<i>Ω</i>	99.09794	+0.23235109	−0.91516997	
<i>e</i>	0.1427494	<i>i</i>	18.89583	+0.40451542	−0.21702494	
<i>P</i>	5.58	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1990 10 10	413	0.0	0.1+	1999 02 11	704	0.0	0.2+	1999 06 04	704	0.1+	0.5−
1990 10 10	413	0.0	0.5−	1999 02 18	704	0.1+	0.5−	1999 06 04	704	0.2−	0.3+
1994 06 02	675	0.6−	1.1−	1999 02 18	704	1.0+	0.2−	1999 06 07	704	0.3−	0.1−
1994 06 02	675	0.8+	1.4+	1999 02 18	704	0.1−	0.3+	1999 06 07	704	0.3−	1.1−
1999 02 11	704	0.3−	0.8+	1999 02 18	704	0.1−	0.3+	1999 06 07	704	(0.9+	2.3−)
1999 02 11	704	0.6−	0.2−	1999 02 18	704	0.6+	1.2+	1999 06 07	704	0.2−	0.5+
1999 02 11	704	0.2+	0.8−	1999 06 04	704	0.3+	0.2+	1999 06 07	704	0.4+	0.6−
1999 02 11	704	0.7−	0.8−	1999 06 04	704	0.4−	0.2+				

1999 DM₁ = 1988 EV₂

Id. A. Gnädig, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	98.13426		(2000.0)	<i>P</i>	<i>Q</i>	Gnädig
<i>n</i>	0.26927060	<i>ω</i>	340.03729	−0.93223045	−0.36172256	
<i>a</i>	2.3750719	<i>Ω</i>	178.62619	+0.36186434	−0.93180121	
<i>e</i>	0.2625034	<i>i</i>	25.06720	−0.00077048	+0.03005490	
<i>P</i>	3.66	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i> 1

Residuals in seconds of arc

1983 11 05	413	0.6−	1.6−	1999 03 20	704	0.1+	0.2−	1999 04 14	699	0.1−	0.3−
1983 11 05	413	0.9+	0.6+	1999 03 20	704	0.4−	0.2−	1999 05 08	704	0.7−	1.3−
1988 03 13	413	1.3+	0.8+	1999 03 20	704	0.3−	0.3−	1999 05 08	704	0.0	0.9−
1988 03 13	413	1.4−	0.2−	1999 03 20	704	0.2−	0.1+	1999 05 08	704	0.7−	0.5−
1992 06 02	675	0.7−	0.2+	1999 03 20	704	0.6+	0.9−	1999 05 08	704	0.8+	0.0

1992 06 02	675	0.7+	0.8−	1999 03 23	704	0.6−	1.0−	1999 05 08	704	0.3−	0.2+
1999 02 17	704	0.5−	0.0	1999 03 23	704	0.2+	0.4+	1999 05 17	704	0.2+	1.5+
1999 02 17	704	0.6−	0.6+	1999 03 23	704	0.0	0.9+	1999 05 17	704	0.4−	0.6−
1999 02 17	704	0.6−	0.8+	1999 03 23	704	1.0−	0.2+	1999 05 17	704	0.8+	1.9+
1999 02 17	704	0.4−	0.3−	1999 03 23	704	0.2−	0.4+	1999 05 17	704	0.1+	0.2−
1999 02 17	704	0.0	0.4−	1999 03 24	699	1.0+	0.5−	1999 06 07	704	0.8−	0.5+
1999 02 19	704	0.3−	0.4+	1999 03 24	699	0.7+	0.3−	1999 06 07	704	0.9−	1.7−
1999 02 19	704	0.2−	0.6+	1999 03 24	699	0.8+	0.6−	1999 06 07	704	1.1−	0.8−
1999 02 19	704	0.9−	0.7+	1999 04 10	704	0.9+	0.2+	1999 06 07	704	0.7+	1.2+
1999 02 19	704	(2.8−	1.6+)	1999 04 10	704	1.8+	0.9+	1999 06 08	704	0.4+	1.2+
1999 02 19	704	0.2+	0.3−	1999 04 10	704	(3.1+	0.3+)	1999 06 08	704	0.6−	0.3−
1999 03 19	704	0.1−	0.0	1999 04 10	557	0.5+	0.1−	1999 06 08	704	0.1+	0.7−
1999 03 19	704	0.2−	0.9−	1999 04 10	557	0.5+	0.4−	1999 06 08	704	0.7+	1.3+
1999 03 19	704	0.4+	0.6−	1999 04 14	699	0.3+	0.7+	1999 06 08	704	0.8+	0.0
1999 03 19	704	0.4−	0.0	1999 04 14	699	0.2+	0.4−				

1999 DO₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	88.15009		(2000.0)	<i>P</i>	<i>Q</i>	Gnädig
<i>n</i>	0.17026085	<i>ω</i>	87.44800	−0.65904119	−0.71925093	
<i>a</i>	3.2239838	<i>Ω</i>	46.43373	+0.51092625	−0.64267493	
<i>e</i>	0.0971550	<i>i</i>	17.66468	+0.55192307	−0.26390725	
<i>P</i>	5.79	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1991 10 13	675	0.7−	0.3+	1999 02 19	411	0.2−	1.3−	1999 04 10	704	0.4+	1.5+
1991 10 13	675	0.5+	0.0	1999 02 19	411	1.6−	0.7+	1999 04 10	704	0.0	0.5+
1991 10 17	675	0.6−	0.6+	1999 02 20	411	0.2−	0.1+	1999 04 10	704	0.7−	1.3−
1991 10 17	675	0.2+	0.1+	1999 02 20	411	0.0	0.3+	1999 05 08	704	0.6+	1.4+
1999 02 11	704	0.6+	1.2−	1999 02 23	411	0.4+	0.2−	1999 05 08	704	0.7+	0.9−
1999 02 11	704	1.1−	0.4−	1999 02 23	411	0.2−	0.8−	1999 05 08	704	0.7+	0.1+
1999 02 11	704	(2.3+	0.1+)	1999 02 27	411	0.2−	0.4−	1999 05 08	704	1.1−	1.0+
1999 02 11	704	0.0	0.2−	1999 02 27	411	0.2+	0.4−	1999 05 08	704	0.2−	1.8−
1999 02 11	704	0.1−	1.1+	1999 03 22	411	0.8+	0.3−	1999 06 07	704	0.3+	0.3−
1999 02 18	704	0.1+	0.0	1999 03 22	411	0.1+	0.2+	1999 06 07	704	0.6+	0.3−
1999 02 18	704	0.9−	0.3+	1999 04 07	411	0.0	0.5−	1999 06 07	704	1.2+	0.3+
1999 02 18	704	0.9−	0.6+	1999 04 07	411	0.2+	0.4−	1999 06 07	704	0.7+	1.5+
1999 02 18	704	0.2−	0.4+	1999 04 10	704	0.9+	0.3+				
1999 02 18	704	0.3−	0.4+	1999 04 10	704	0.4+	1.0+				

1999 DP₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	110.26173		(2000.0)	<i>P</i>	<i>Q</i>	Gnädig
<i>n</i>	0.23297200	<i>ω</i>	64.72541	−0.96190179	−0.09172625	
<i>a</i>	2.6157741	<i>Ω</i>	109.13197	+0.01041663	−0.95364955	
<i>e</i>	0.1248407	<i>i</i>	15.81937	+0.27319670	−0.28659872	
<i>P</i>	4.23	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1984 09 23	413	0.1+	0.7−	1999 05 05	327	1.4+	0.3+	1999 05 17	704	0.4−	0.2+
1984 09 23	413	0.0	0.1+	1999 05 05	327	0.2+	0.4−	1999 05 17	704	1.0−	0.3−
1986 03 05	675	0.6−	2.1+	1999 05 06	327	0.2+	0.1+	1999 05 31	716	0.2+	0.1−
1986 03 05	675	1.3+	0.7−	1999 05 06	327	0.1+	0.1+	1999 05 31	716	0.1+	1.0−
1996 09 08	413	0.3+	0.2−	1999 05 06	327	0.4−	0.0	1999 06 05	716	0.4+	0.2+
1996 09 08	413	0.0	0.1−	1999 05 12	704	1.0+	0.7+	1999 06 05	716	0.2+	0.4+
1999 02 20	704	0.4+	1.1−	1999 05 12	704	1.2−	0.9−	1999 06 08	704	0.2+	1.0+
1999 02 20	704	0.7+	0.9−	1999 05 12	704	0.1−	0.3+	1999 06 08	704	0.4−	0.2−
1999 02 20	704	0.9+	0.7−	1999 05 12	704	0.6−	1.1+	1999 06 08	704	0.8−	0.3+
1999 02 20	704	(2.7−	2.3−)	1999 05 15	704	0.5+	1.0+	1999 06 08	704	0.7−	0.0
1999 02 20	704	(2.6−	0.1+)	1999 05 15	704	0.2−	0.7+	1999 06 08	704	0.4−	0.9−
1999 02 23	704	1.2−	0.5−	1999 05 15	704	0.7+	0.2−	1999 06 12	704	0.3+	0.6+
1999 02 23	704	1.1−	0.5−	1999 05 15	704	0.5−	0.7−	1999 06 12	704	0.4−	0.4+
1999 02 23	704	0.8−	0.6−	1999 05 15	704	0.3+	0.2+	1999 06 12	704	0.6+	0.0
1999 02 23	704	(0.4+	2.7−)	1999 05 17	704	0.7−	0.5−	1999 06 12	704	0.3+	0.1+
1999 02 23	704	0.7−	0.9−	1999 05 17	704	0.5+	0.4−	1999 06 12	704	0.0	0.6−
1999 05 05	327	0.3+	0.0	1999 05 17	704	0.7+	0.8+				

2000 MAR. 20

M.P.C. 39301

1999 DQ₆ = 1971 HW

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams			
<i>M</i>	106.17158	(2000.0)	P		Q	
<i>n</i>	0.17718596	ω	348.05750	−0.96095774	−0.27602383	
<i>a</i>	3.1394231	Ω	175.77011	+0.27047055	−0.95174439	
<i>e</i>	0.1714085	<i>i</i>	15.13915	+0.05836009	−0.13413970	
<i>P</i>	5.56	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1951 09 08	675	0.8−	1.1−	1999 03 24	704	0.7−	0.4−	1999 05 21	704	0.1+	0.1+
1951 09 08	675	0.9+	0.7+	1999 03 24	704	0.1−	0.3−	1999 05 21	704	0.0	0.3+
1971 04 27	095	(3.2+	4.1−)	1999 05 12	704	1.1+	1.4−	1999 05 21	704	0.4−	0.2+
1990 08 29	675	0.2−	0.0	1999 05 12	704	0.3+	0.5−	1999 06 05	703	0.1−	0.8+
1990 08 29	675	0.0	0.7+	1999 05 12	704	0.3−	0.3−	1999 06 05	703	0.1−	0.5+
1993 02 23	808	0.3+	0.2+	1999 05 12	704	0.4−	0.9−	1999 06 05	703	0.1−	0.4+
1993 02 23	808	0.2−	0.2−	1999 05 12	704	0.6+	0.7−	1999 06 05	703	0.3−	0.1−
1999 02 20	704	0.2+	1.5−	1999 05 14	703	0.2−	0.7−	1999 06 08	704	1.1+	0.3−
1999 02 20	704	0.1+	0.5+	1999 05 14	703	0.2+	1.0+	1999 06 08	704	0.6−	0.1+
1999 02 20	704	(2.6−	1.7−)	1999 05 14	703	0.2+	1.3+	1999 06 08	704	0.9−	0.3+
1999 02 20	704	1.7−	0.4+	1999 05 14	703	0.9+	1.3+	1999 06 08	704	0.7−	0.5−
1999 02 20	704	0.2−	0.8+	1999 05 15	704	0.4−	0.1+	1999 06 08	704	(2.3−	0.1−)
1999 02 23	704	1.0−	1.6+	1999 05 15	704	(0.2+	2.7−)	1999 06 10	703	0.8+	0.4+
1999 02 23	704	(2.9−	0.3−)	1999 05 15	704	0.2+	0.5−	1999 06 10	703	0.7+	0.6+
1999 02 23	704	0.5−	0.9+	1999 05 15	704	0.8+	0.0	1999 06 10	703	1.0−	0.6+
1999 02 23	704	0.8+	0.5−	1999 05 15	704	0.1+	0.8−	1999 06 10	703	0.3−	0.5+
1999 02 23	704	1.3+	1.5+	1999 05 17	704	0.5+	1.6−	1999 06 12	704	0.1+	0.1+
1999 03 20	699	0.8−	0.6+	1999 05 17	704	0.2+	0.5−	1999 06 12	704	0.1+	0.4+
1999 03 20	699	0.1+	0.7+	1999 05 17	704	0.3−	1.2−	1999 06 12	704	0.1+	0.2+
1999 03 20	699	0.2+	0.2+	1999 05 17	704	0.3−	1.1−	1999 06 12	704	0.1−	0.5−
1999 03 24	704	0.4−	0.9−	1999 05 17	704	(2.8−	2.3−)	1999 06 12	704	1.0−	0.0
1999 03 24	704	0.7−	0.7−	1999 05 21	704	1.4+	1.3+				
1999 03 24	704	0.3+	0.6−	1999 05 21	704	0.2+	0.0				

1999 DY₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Gnädig			
<i>M</i>	51.21999	(2000.0)	P		Q	
<i>n</i>	0.24235888	ω	196.12219	−0.23852444	+0.94712188	
<i>a</i>	2.5477888	Ω	60.51822	−0.86154929	−0.10438626	
<i>e</i>	0.1394049	<i>i</i>	14.27384	−0.44815054	−0.30341993	
<i>P</i>	4.07	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1950 04 20	675	1.1−	0.6−	1999 05 10	704	0.1−	1.1−	1999 05 19	704	0.5−	0.2+
1950 04 20	675	0.2+	1.0−	1999 05 13	704	0.3−	0.2+	1999 05 19	704	0.1−	0.1−
1996 10 14	413	0.4−	0.1+	1999 05 13	704	0.4−	0.6+	1999 05 19	704	0.3−	0.2+
1996 10 14	413	0.2+	0.2+	1999 05 13	704	0.9−	0.7+	1999 05 19	704	0.3−	0.7−
1999 02 23	704	1.0−	0.2−	1999 05 13	704	1.8−	0.5+	1999 05 19	704	0.5+	0.9−
1999 02 23	704	0.3+	0.3−	1999 05 13	704	1.2−	0.1+	1999 06 05	703	0.4+	0.3+
1999 02 23	704	(3.1+	0.3−)	1999 05 14	704	0.1−	0.4−	1999 06 05	703	0.5+	0.5+
1999 02 23	704	(2.1−	0.3−)	1999 05 14	704	0.1−	0.1−	1999 06 05	703	0.4−	0.7+
1999 02 26	704	0.7+	0.9+	1999 05 14	704	0.5−	0.3−	1999 06 05	703	0.2−	0.5+
1999 02 26	704	1.9+	1.0−	1999 05 14	704	0.4−	0.1+	1999 06 09	704	0.1+	0.1+
1999 02 26	704	0.6−	1.3+	1999 05 14	704	0.5−	0.3−	1999 06 09	704	0.3+	0.2+
1999 02 26	704	1.2+	1.7+	1999 05 17	703	0.5+	0.2−	1999 06 09	704	0.1+	0.6+
1999 05 08	699	0.1+	0.5+	1999 05 17	703	0.3+	0.5+	1999 06 09	704	0.9+	0.3−
1999 05 08	699	1.2+	0.7+	1999 05 17	703	0.7+	0.9+	1999 06 09	704	0.5−	0.7−
1999 05 08	699	1.0+	0.9+	1999 05 17	703	1.2+	0.7+	1999 06 15	704	0.0	0.1−
1999 05 10	704	0.1+	0.5−	1999 05 18	704	0.3+	0.1−	1999 06 15	704	0.5−	0.4+
1999 05 10	704	0.4−	0.8+	1999 05 18	704	1.0+	0.5−	1999 06 15	704	0.3−	0.3−
1999 05 10	704	0.7+	0.4−	1999 05 18	704	0.6−	0.4−	1999 06 15	704	0.7−	0.8−
1999 05 10	704	0.6−	0.9−	1999 05 18	704	1.3+	1.3−	1999 06 15	704	0.0	0.2−

1999 FV₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams			
<i>M</i>	49.75436	(2000.0)	P		Q	
<i>n</i>	0.21686014	ω	209.03528	−0.85631569	+0.51642016	
<i>a</i>	2.7437817	Ω	2.08439	−0.43768763	−0.71970883	
<i>e</i>	0.1264615	<i>i</i>	9.17833	−0.27414043	−0.46403601	
<i>P</i>	4.54	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1991 08 06	413	1.2−	0.0	1999 03 20	678	0.3−	0.4+	1999 04 14	704	0.2−	0.2+
1991 08 06	413	1.5+	1.3+	1999 03 20	678	0.1+	0.6+	1999 04 14	704	(0.3+	2.4+)
1992 10 02	675	0.1−	0.7+	1999 03 25	678	0.5−	0.4+	1999 04 14	704	1.5−	0.5−
1992 10 02	675	1.1−	0.5+	1999 03 25	678	0.2−	0.4+	1999 04 14	704	0.4−	0.4−
1995 06 04	413	0.7−	0.5+	1999 03 25	678	0.3−	0.2+	1999 04 15	704	0.5+	0.5+
1996 10 07	809	0.6+	0.2+	1999 04 06	704	0.0	1.0−	1999 04 15	704	0.1+	0.6+
1996 10 07	809	0.4−	0.2+	1999 04 06	704	0.5+	0.6−	1999 04 15	704	0.5−	1.1+
1996 10 07	809	0.7−	0.5+	1999 04 06	704	0.0	0.1+	1999 04 15	704	0.4+	0.5+
1999 02 20	699	0.8+	0.3+	1999 04 06	704	0.9+	0.3+	1999 04 15	704	0.2+	0.6−
1999 02 20	699	0.7+	0.9+	1999 04 06	678	0.3−	0.2+	1999 04 19	678	0.1+	0.4+
1999 02 20	699	0.9+	0.6+	1999 04 06	704	0.5−	0.4−	1999 04 19	678	0.5−	0.1−
1999 03 12	691	0.1+	0.8−	1999 04 06	678	0.6+	0.1+	1999 04 19	678	0.1−	0.3−
1999 03 12	691	0.3+	0.7−	1999 04 12	704	1.2+	0.0	1999 06 11	678	(1.9−	2.8−)
1999 03 12	691	0.3+	0.4−	1999 04 12	704	0.2−	0.0	1999 06 11	678	0.9−	0.3−
1999 03 19	678	(3.8−	6.0−)	1999 04 12	704	0.8+	0.2+				
1999 03 19	678	0.2−	0.4−	1999 04 14	704	0.3+	0.6+				

1999 FO₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Gnädig			
<i>M</i>	7.56441	(2000.0)	P		Q	
<i>n</i>	0.23244927	ω	37.47565	+0.25856042	+0.96123306	
<i>a</i>	2.6196942	Ω	247.68857	−0.90945745	+0.20879754	
<i>e</i>	0.0847521	<i>i</i>	5.94374	−0.32562809	+0.18009607	
<i>P</i>	4.24	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1982 04 20	413	0.4+	0.7−	1999 04 11	699	0.1+	0.5+	1999 05 13	704	0.8−	0.0
1982 04 20	413	0.9−	1.1−	1999 04 11	699	0.4+	0.5−	1999 05 13	704	0.9−	0.3+
1983 07 14	413	0.2−	0.5−	1999 04 23	428	0.7+	1.3−	1999 05 13	704	0.6−	0.3−
1983 07 14	413	1.0+	1.3−	1999 04 23	428	0.4+	1.2−	1999 05 14	704	0.6−	0.4+
1991 08 02	413	0.2−	0.7+	1999 05 10	704	0.7+	0.1−	1999 05 14	704	0.0	1.2−
1999 03 26	428	1.5+	0.0	1999 05 10	704	0.7−	0.4+	1999 05 14	704	0.7+	0.3−
1999 03 27	428	0.7−	0.4−	1999 05 10	704	(2.0−	1.7+)	1999 05 14	704	1.5−	0.9−
1999 03 27	428	0.2−	0.3−	1999 05 10	704	0.0	0.5+	1999 06 12	428	0.6+	1.2+
1999 03 29	428	0.2−	0.6−	1999 05 10	704	0.2−	1.1+	1999 06 12	428	0.1−	0.5+
1999 04 06	428	0.2+	0.2−	1999 05 11	428	0.1+	0.7+	1999 07 06	428	0.3−	0.6+
1999 04 06	428	0.3+	0.3+	1999 05 11	428	0.1+	0.8+	1999 07 06	428	0.4+	0.2+
1999 04 11	699	0.1+	0.4+	1999 05 13	704	1.0+	0.6+				

1999 FV₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Gnädig			
<i>M</i>	297.31147	(2000.0)	P		Q	
<i>n</i>	0.25998450	ω	279.96848	+0.96470445	+0.12526662	
<i>a</i>	2.4312955	Ω	73.11977	−0.00777380	+0.89277509	
<i>e</i>	0.2498457	<i>i</i>	14.00827	−0.26322023	+0.43273655	
<i>P</i>	3.79	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1951 09 08	675	0.4−	1

M.P.C. 39302

1998 01 28	675	1.1−	0.6+	1999 04 12	704	0.7−	1.7+	1999 05 09	683	0.8+	0.4+
1998 01 28	675	0.8+	0.6+	1999 04 12	704	0.1+	1.1−	1999 05 09	683	0.3−	0.1+
1999 03 22	568	0.1+	0.1+	1999 04 12	704	0.4−	0.4+	1999 07 08	568	0.1+	0.0
1999 03 22	568	0.3+	0.2+	1999 04 19	703	0.9+	0.8+	1999 07 08	568	0.0	0.0
1999 03 27	683	0.4−	0.5+	1999 04 19	703	0.9+	0.1+				

1999 GA₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	190.84781		(2000.0)		P		Q
n	0.23849270	ω	67.75401		−0.05230073		−0.99218473
a	2.5752496	Ω	26.03407		+0.79459236		−0.11006019
e	0.0708274	i	14.95818		+0.60488644		+0.05878955
P	4.13	H	14.2	G	0.15	U	2

Residuals in seconds of arc

1989 12 05	675	0.0	0.5−	1999 04 15	428	0.8−	0.6−	1999 05 18	704	1.6+	0.3+
1989 12 05	675	1.0−	0.7−	1999 04 15	428	0.2−	0.1−	1999 05 18	704	1.3+	1.3+
1991 04 13	413	0.4−	1.8−	1999 04 15	428	0.3+	0.8−	1999 05 18	704	1.2+	1.3+
1994 03 14	675	0.2+	0.3−	1999 04 15	428	1.2+	0.3−	1999 05 18	704	0.5−	0.2+
1994 03 14	675	0.0	0.7+	1999 04 16	428	0.5−	0.2+	1999 05 19	704	1.0+	0.7+
1997 10 10	327	0.1+	0.4+	1999 04 16	428	1.3+	0.5−	1999 05 19	704	0.3+	0.4+
1997 10 10	327	0.1−	0.5+	1999 04 23	428	0.3+	0.3−	1999 05 19	704	1.1+	0.2+
1997 10 10	327	0.1−	0.4+	1999 04 23	428	0.3+	0.3−	1999 05 19	704	0.1+	0.0
1999 03 25	704	1.6−	0.4+	1999 05 05	428	0.2+	1.6−	1999 05 19	704	1.2+	1.2+
1999 03 25	704	0.5+	0.4−	1999 05 05	428	0.2−	0.8−	1999 05 19	699	0.0	0.5−
1999 03 25	704	0.1+	1.2+	1999 05 09	699	0.1+	0.7−	1999 05 19	699	0.5+	0.0
1999 03 25	704	(4.9−	0.4+)	1999 05 09	699	0.1+	0.3−	1999 05 19	699	1.0+	1.7−
1999 04 13	428	0.1+	0.3−	1999 05 09	699	0.3+	0.4−	1999 05 23	428	0.4−	0.2+
1999 04 13	428	0.9−	0.3+	1999 05 13	704	0.9−	1.7+	1999 05 23	428	0.3−	0.7+
1999 04 14	428	0.0	0.4+	1999 05 13	704	1.2−	0.8+	1999 06 01	428	1.2−	0.1+
1999 04 15	704	0.4+	0.7+	1999 05 13	704	0.4−	1.0−	1999 06 12	428	1.1−	0.1−
1999 04 15	704	0.5+	0.6+	1999 05 13	704	0.9−	0.1+	1999 06 12	428	0.5−	0.0
1999 04 15	704	0.8−	0.6−	1999 05 13	704	1.4−	0.8+	1999 07 05	428	1.1−	0.4−
1999 04 15	704	0.9−	0.6−	1999 05 18	704	1.5+	0.3+	1999 07 05	428	0.4−	0.1+

1999 GK₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	110.21660		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.26983770	ω	25.35531		-0.93641269		-0.34024325
a	2.3717430	Ω	134.46755		+0.29797352		-0.90019067
e	0.1646800	i	6.90719		+0.18531878		-0.27182950
P	3.65	H	14.6	G	0.15	U	2

Residuals in seconds of arc

1986 09 01	675	0.3+	0.1+	1999 02 26	704	0.3−	0.2−	1999 04 15	704	0.6+	0.6−
1986 09 01	675	0.8+	0.4+	1999 02 26	704	1.2+	0.6+	1999 04 15	704	0.2−	0.4+
1986 09 05	675	0.6+	1.3−	1999 02 26	704	0.8−	0.5+	1999 04 15	704	0.4+	0.7+
1986 09 05	675	1.4−	0.8−	1999 02 26	704	0.2−	0.2+	1999 04 15	704	0.0	0.6−
1990 10 25	675	0.5−	0.6−	1999 04 06	699	0.5−	1.1+	1999 04 16	704	1.5+	0.4−
1990 10 25	675	1.0+	0.1−	1999 04 06	699	0.4−	0.5+	1999 04 16	704	0.5+	0.5+
1992 06 23	413	0.4−	0.3−	1999 04 06	699	0.7−	1.0+	1999 04 16	704	0.0	0.1−
1992 06 23	413	0.7+	1.7+	1999 04 12	704	0.5+	1.0−	1999 04 16	704	0.1−	0.1−
1999 02 20	704	(0.3+	3.1−)	1999 04 12	704	0.8−	0.4−	1999 04 16	704	1.2−	0.1+
1999 02 20	704	0.0	0.7−	1999 04 12	704	0.4+	0.9−	1999 06 08	704	0.4+	0.6−
1999 02 20	704	0.4−	1.6+	1999 04 12	704	0.1−	0.7−	1999 06 08	704	0.3+	0.9−
1999 02 20	704	(3.3−	0.6+)	1999 04 12	704	0.5−	0.9−	1999 06 08	704	0.4+	1.2−
1999 02 26	704	(2.4+	3.1−)	1999 04 15	704	0.1+	0.2+	1999 06 08	704	0.3−	1.5−

1999 GT₃₁ = 1990 SS₁₄ = 1997 WM₅₀

Id. A. Doppler

2000 MAR. 20

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	257.03169		(2000.0)		P		Q
n	0.28992209	ω	355.70487		+0.79652106		−0.59795765
a	2.2609025	Ω	41.45286		+0.55866711		+0.67132748
e	0.0893689	i	7.76534		+0.23118232		+0.43791102
P	3.40	H	15.2	G	0.15	U	4

Residuals in seconds of arc

1990 09 25	809	0.3−	0.4+	1997 11 29	704	0.8−	0.3+	1999 04 12	704	(2.4+	0.6−)
1990 09 25	809	0.2+	0.4+	1997 12 05	704	0.3−	0.2−	1999 04 12	704	0.7+	1.5−
1990 09 25	809	0.5+	0.4+	1997 12 05	704	0.9+	0.1+	1999 04 12	704	1.4+	0.9+
1990 09 26	809	0.8−	0.6−	1997 12 05	704	0.3+	0.5−	1999 04 12	704	0.5+	1.7−
1990 09 26	809	0.3−	0.3−	1997 12 05	704	0.2−	0.3−	1999 05 09	703	1.5−	1.2−
1990 09 26	809	0.6+	0.2−	1997 12 05	704	0.1−	1.1−	1999 05 09	703	0.1+	1.7+
1997 11 29	704	0.4−	0.1+	1999 04 07	704	0.7−	0.2−	1999 05 09	703	0.1+	0.1+
1997 11 29	704	0.4+	0.4+	1999 04 07	704	0.6−	0.8+	1999 05 09	703	0.5+	0.6+
1997 11 29	704	0.3+	0.3+	1999 04 07	704	1.0+	0.3+				
1997 11 29	704	0.2−	1.0+	1999 04 07	704	1.4−	0.6+				

1999 GK₄₀ = 1992 QF₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	269.33256		(2000.0)		P		Q
n	0.23512914	ω	222.61909		+0.98570355		−0.07888380
a	2.5997510	Ω	141.14764		+0.11037439		+0.96994788
e	0.1968362	i	13.72912		−0.12730285		+0.23017049
P	4.19	H	13.9	G	0.15	U	3

Residuals in seconds of arc

1992 08 23	675	0.7−	0.7+	1999 04 12	704	0.4+	1.2+	1999 04 16	704	0.2+	1.3−
1992 08 23	675	0.0	0.6+	1999 04 12	704	0.1−	0.3−	1999 04 16	704	1.1−	0.3−
1992 08 28	675	0.2+	0.0	1999 04 12	704	1.1−	1.7−	1999 04 19	703	1.1+	1.2+
1992 08 28	675	0.5+	1.3−	1999 04 12	704	0.2+	1.2+	1999 04 19	703	0.3−	0.1−
1997 12 29	566	0.1+	0.0	1999 04 12	704	0.5−	0.2−	1999 04 19	703	0.2+	0.6+
1997 12 29	566	0.1−	0.2+	1999 04 16	704	0.3−	0.2+	1999 04 19	703	0.2+	0.6−
1997 12 29	566	0.1−	0.1−	1999 04 16	704	1.1+	0.2+				

1999 GT₄₁ = 1995 CS₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	50.74145		(2000.0)		P		Q
n	0.28380464	ω	128.06236		−0.31819163		+0.94582528
a	2.2932763	Ω	123.26521		−0.89219034		−0.27572823
e	0.1646423	i	4.42866		−0.32054717		−0.17143070
P	3.47	H	15.1	G	0.15	U	5

Residuals in seconds of arc

1995 02 02	691	0.2−	0.1+	1999 04 10	699	0.6+	0.5+	1999 04 16	704	0.9−	0.2−
1995 02 02	691	0.1−	0.1+	1999 04 10	699	0.4+	0.0	1999 04 16	704	0.6−	1.9−
1995 02 02	691	0.2+	0.6+	1999 04 10	699	0.7+	0.5+	1999 05 10	699	0.6+	0.7+
1995 02 06	691	0.1−	0.0	1999 04 12	704	0.3+	0.3−	1999 05 10	699	(2.5+	0.3−)
1995 02 06	691	0.1+	0.3+	1999 04 12	704	0.4+	0.1+	1999 05 10	699	0.7+	1.4+
1995 02 06	691	0.3+	0.0	1999 04 12	704	0.7−	0.4+	1999 06 08	704	0.5−	0.5+
1999 03 23	703	1.0−	0.1−	1999 04 12	704	0.1−	0.2−	1999 06 08	704	0.0	0.4+
1999 03 23	703	1.1−	0.2+	1999 04 12	704	0.6+	0.2−	1999 06 08	704	0.2−	0.6−
1999 03 23	703	0.7−	0.6−	1999 04 16	704	0.7+	1.3−	1999 06 08	704	0.5+	1.2+
1999 03 23	703	0.8−	0.2−	1999 04 16	704	1.1+	0.1+				

2000 MAR. 20

M.P.C. 39303

1999 JD

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	37.12203		(2000.0)		P		Q
<i>n</i>	0.24266075	ω	183.46144	−0.68005543	+0.71490393		
<i>a</i>	2.5456754	Ω	43.78194	−0.66689213	−0.51104633		
<i>e</i>	0.1040271	<i>i</i>	13.59114	−0.30459725	−0.47722534		
<i>P</i>	4.06	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1953 12 10	675	0.0	1.3−	1999 04 12	704	0.1+	0.2+	1999 05 09	159	0.1−	0.2+
1953 12 10	675	(0.0	2.8−)	1999 04 12	704	1.5+	0.9−	1999 05 09	159	0.6−	0.1−
1980 10 29	413	1.3−	1.0+	1999 04 12	704	0.4−	1.1−	1999 05 09	159	0.0	1.2+
1980 10 29	413	1.6+	1.5−	1999 04 12	704	0.4+	1.0−	1999 05 09	159	0.5+	0.3+
1983 05 08	413	1.0−	0.1−	1999 04 12	704	0.2+	1.0−	1999 05 09	159	1.6+	0.0
1983 05 08	413	0.9+	1.1+	1999 05 01	159	1.0+	1.1−	1999 05 09	159	1.5+	0.3−
1989 11 24	675	0.8−	0.2−	1999 05 01	159	0.1+	0.6+	1999 05 16	159	0.7+	0.7−
1989 11 24	675	1.1+	0.2−	1999 05 01	159	0.2+	0.7−	1999 05 16	159	(2.4+	1.4−)
1999 02 11	704	0.1+	0.3+	1999 05 01	159	0.1−	0.9−	1999 05 16	159	1.6+	1.4−
1999 02 11	704	0.1+	1.4+	1999 05 01	159	0.2+	0.4+	1999 05 16	159	1.1+	0.3−
1999 02 11	704	0.2−	1.1+	1999 05 01	159	0.3−	1.1−	1999 06 05	159	0.7−	0.0
1999 02 11	704	(0.2+	2.5+)	1999 05 01	159	0.5−	0.1+	1999 06 05	159	0.6−	1.8−
1999 02 11	704	1.4−	0.8+	1999 05 02	159	1.0−	0.5+	1999 06 05	159	0.0	0.4−
1999 02 23	699	0.4−	0.5+	1999 05 02	159	0.8−	1.0−	1999 06 05	159	0.2+	1.3−
1999 02 23	699	0.5+	0.4+	1999 05 02	159	1.1−	0.6−	1999 06 05	159	0.4+	0.9+
1999 02 23	699	0.0	0.7+	1999 05 02	159	0.8−	0.4+	1999 06 05	159	(2.1+	0.3+)
1999 04 07	699	0.0	1.4+	1999 05 02	159	1.2−	0.7−	1999 06 05	159	0.3+	0.5−
1999 04 07	699	0.1+	1.1+	1999 05 02	159	1.0−	1.2+	1999 06 05	159	0.3−	0.2−
1999 04 07	699	0.4+	0.8+	1999 05 09	159	0.5−	0.3+				

1999 JV₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	71.50472		(2000.0)		P		Q
<i>n</i>	0.24320759	ω	68.54359	−0.52837297	+0.84799022		
<i>a</i>	2.5418581	Ω	169.26417	−0.83796681	−0.51298393		
<i>e</i>	0.1406254	<i>i</i>	12.91927	−0.13650502	−0.13326689		
<i>P</i>	4.05	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 06 16	675	1.0−	0.6+	1999 05 12	704	0.4−	0.2+	1999 06 12	704	0.2+	0.2−
1991 06 16	675	1.1+	1.3+	1999 05 15	704	1.4−	1.4−	1999 06 12	704	0.3+	0.0
1992 09 08	675	0.3+	1.5−	1999 05 15	704	0.1+	0.0	1999 06 12	704	0.4+	0.2+
1992 09 08	675	(3.6+	4.5+)	1999 05 15	704	0.6−	0.1−	1999 06 12	704	0.6+	0.5+
1997 11 06	675	0.0	0.3−	1999 05 15	704	0.9+	0.2−	1999 06 13	120	0.1+	0.0
1997 11 06	675	0.0	0.1+	1999 05 15	704	1.5−	0.2−	1999 06 13	120	0.1+	0.4−
1999 02 20	704	1.7+	1.0−	1999 05 17	704	0.2+	0.2−	1999 06 13	120	0.6+	0.3+
1999 02 20	704	0.6+	1.6−	1999 05 17	704	0.5−	0.0	1999 06 13	120	0.3−	0.0
1999 02 20	704	0.7−	0.7−	1999 05 17	704	0.2−	0.1−	1999 06 14	704	0.7+	0.8−
1999 03 24	704	0.8+	1.8+	1999 05 17	704	0.4−	0.4+	1999 06 14	704	0.1+	0.7−
1999 03 24	704	0.1+	0.9−	1999 05 17	704	1.0−	1.4−	1999 06 14	704	0.4−	0.1+
1999 03 24	704	0.3−	0.1−	1999 05 23	699	0.9+	0.2+	1999 06 14	704	0.1−	0.2+
1999 03 24	704	1.5−	0.6+	1999 05 23	699	1.0+	0.4+	1999 06 14	704	0.2+	0.1−
1999 03 24	704	0.1+	0.1+	1999 05 23	699	0.7+	0.6+	1999 06 15	704	0.2+	0.0
1999 05 08	327	0.7−	0.5+	1999 06 04	703	0.1+	1.6+	1999 06 15	704	0.1+	0.2−
1999 05 08	327	0.1−	0.2−	1999 06 04	703	0.6+	0.5+	1999 06 15	704	0.3+	0.0
1999 05 08	327	1.6−	1.1+	1999 06 04	703	0.7+	0.8+	1999 06 15	704	0.2+	0.0
1999 05 09	327	0.7−	0.1−	1999 06 04	703	1.4+	1.1−	1999 06 15	704	0.7+	0.6−
1999 05 09	327	0.7−	0.3−	1999 06 08	704	0.1−	0.2−	1999 06 15	704	1.2+	0.2−
1999 05 09	327	0.4−	0.2−	1999 06 08	704	0.0	0.2+	1999 06 15	704	1.0+	0.9−
1999 05 12	704	0.1+	0.1−	1999 06 08	704	0.1−	0.5+	1999 06 15	704	0.6−	1.3−
1999 05 12	704	0.8+	0.7+	1999 06 08	704	0.5−	0.3−	1999 06 15	704	1.0−	1.3−
1999 05 12	704	0.3−	1.0+	1999 06 08	704	1.0−	0.1−				
1999 05 12	704	0.4−	0.3+	1999 06 12	704	0.2−	0.2+				

1999 JA₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	56.26621		(2000.0)		P		Q
<i>n</i>	0.27670233	ω	154.37856	−0.12972719	+0.90591907		
<i>a</i>	2.3323524	Ω	105.94826	−0.96650577	−0.02474051		
<i>e</i>	0.1795437	<i>i</i>	24.78572	−0.22144404	−0.42272750		
<i>P</i>	3.56	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 05 01	675	1.1−	0.2−	1999 04 09	704	0.0	0.0	1999 06 07	704	0.3−	0.1+
1992 05 01	675	0.4+	0.2+	1999 05 13	704	1.0+	0.2+	1999 06 07	704	0.2−	0.3+
1992 05 01	675	1.1+	0.6+	1999 05 13	704	0.1+	0.3−	1999 06 08	704	0.2−	0.3+
1992 06 08	675	0.2+	0.3−	1999 05 13	704	0.7+	0.2−	1999 06 08	704	0.1−	0.1−
1992 06 08	675	0.5−	0.4−	1999 05 13	704	0.4+	0.6−	1999 06 08	704	0.2−	0.2+
1995 03 28	675	0.7−	0.8−	1999 05 13	704	1.2−	0.3−	1999 06 08	704	0.3−	0.3+
1995 03 28	675	0.8+	0.1−	1999 05 14	704	0.1−	0.6+	1999 06 08	704	0.4−	0.0
1996 09 15	413	1.1−	0.5−	1999 05 14	704	0.4−	1.0+	1999 06 11	704	0.2+	0.0
1996 09 15	413	1.0+	0.4+	1999 05 14	704	0.1+	0.0	1999 06 11	704	0.1+	0.1+
1996 09 18	413	0.7−	0.8−	1999 05 14	704	0.7−	0.6−	1999 06 11	704	0.5+	0.0
1996 09 18	413	0.8+	0.2+	1999 05 14	704	0.5+	0.2−	1999 06 11	704	0.1+	0.3−
1999 02 24	704	0.0	0.5−	1999 05 17	704	0.3+	0.2+	1999 06 11	704	0.0	0.7−
1999 02 24	704	0.6−	1.1−	1999 05 17	704	0.4−	0.6+	1999 06 12	704	0.2+	0.0
1999 02 24	704	(1.6+	2.5+)	1999 05 17	704	0.2+	0.0	1999 06 12	704	0.0	0.0
1999 02 24	704	(0.1+	2.3+)	1999 05 17	704	0.5+	0.0	1999 06 12	704	0.0	0.4−
1999 02 24	704	0.7−	1.9+	1999 05 17	704	0.1+	0.1−	1999 06 12	704	0.2+	0.1−
1999 04 09	704	0.0	0.1+	1999 06 07	704	0.2−	0.1−	1999 06 12	704	0.0	0.1+
1999 04 09	704	0.0	0.4−	1999 06 07	704	0.0	0.1+				
1999 04 09	704	0.2+	0.1−	1999 06 07	704	0.1+	0.1−				

1999 JB₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	43.28027		(2000.0)		P		Q
<i>n</i>	0.18930852	ω	10.95882	−0.41911678	+0.89555188		
<i>a</i>	3.0039264	Ω	234.42830	−0.84628691	−0.44494195		
<i>e</i>	0.3194717	<i>i</i>	10.58578	−0.32884586	+0.00367262		
<i>P</i>	5.21	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1983 03 08	413	0.0	1.5+	1999 04 15	699	0.1−	0.3−	1999 05 18	704	0.1+	0.8+
1983 03 08	413	1.1+	0.9−	1999 05 09	699	0.5+	0.4+	1999 05 18	704	0.8−	0.4+
1983 05 09	413	0.7−	0.7−	1999 05 09	699	0.6+	0.6+	1999 05 18	704	0.1−	1.0+
1983 05 09	413	0.8−	0.5−	1999 05 09	699	0.5+	0.2+	1999 05 19	704	0.2+	0.0
1992 12 01	675	0.6−	0.5−	1999 05 10	704	0.8+	0.2−	1999 05 19	704	0.8−	1.3+
1992 12 21	675	1.0−	0.2+	1999 05 10	704	1.2+	0.3−	1999 05 19	704	0.2−	0.1+
1992 12 21	675	1.1+	0.2−	1999 05 10	704	0.4−	0.5−	1999 05 19	704	0.1+	0.2−
1997 11 07	675	0.1−	1.0+	1999 05 10	704	1.1+	0.2+	1999 05 19	704	0.7+	0.1+
1997 11 07	675	0.3+	1.0−	1999 05 10	704	0.5−	0.8+	1999 06 09	704	0.2+	1.0−
1999 02 23	704	0.5−	1.5+	1999 05 13	704	0.2−	0.2−	1999 06 09	704	0.2+	1.4−
1999 02 23	704	0.6+	0.4−	1999 05 13	704	0.1−	0.2−	1999 06 09	704	0.6+	0.9−
1999 02 23	704	0.3+	0.7+	1999 05 13	704	1.4+	0.4+	1999 06 09	704	0.0	0.4−
1999 02 23	704	0.9−	0.0	1999 05 13	704	0.8+	0.2−	1999 06 09	704	0.8+	0.5+
1999 02 23	704	(2.0+	0.4−)	1999 05 13	704	0.4−	0.3−	1999 06 14	699	0.4−	0.5+
1999 04 15	704	0.4−	0.9−	1999 05 14	704	0.1−	0.2+	1999 06 14	699	0.1−	0.3−
1999 04 15	704	0.8−	0.2+	1999 05 14	704	0.2+	0.0	1999 06 14	699	0.1−	0.7+
1999 04 15	704	0.5−	0.2−	1999 05 14	704	0.1−	0.6−	1999 07 03	699	0.7−	0.2+
1999 04 15	704	0.4−	0.4−	1999 05 14	704	0.3+	0.3+	1999 07 03	699	0.3−	0.4+
1999 04 15	699	0.1+	0.3−	1999 05 14	704	1.0−	0.1+	1999 07 03	699	0.6−	0.4−
1999 04 15	704	0.6−	0.3+	1999 05 18	704	0.2+	0.3−				
1999 04 15	699	0.4−	0.4−	1999 05 18	704	0.7−	0.9−				

1999 JQ₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	95.26895		(2000.0)	P	Q
<i>n</i>	0.22005469	ω	128.19864	-0.97547888	+0.07188771
<i>a</i>	2.7171626	Ω	56.85692	-0.17087292	-0.84307532
<i>e</i>	0.1487084	<i>i</i>	14.38530	+0.13872057	-0.53296920
<i>P</i>	4.48	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1996 11 02	413	0.1+	0.6+	1999 05 13	704	0.1+	0.3+	1999 05 19	704	0.5+	0.4+
1996 11 02	413	0.5-	0.5+	1999 05 13	704	0.5-	0.1-	1999 05 19	704	0.3-	1.0-
1997 11 06	675	0.1+	1.5-	1999 05 13	704	0.4+	0.1+	1999 06 04	699	0.1+	0.2-
1999 02 23	704	0.6-	0.4+	1999 05 13	704	0.2-	0.3+	1999 06 04	699	0.6+	0.1+
1999 02 23	704	(2.9+	1.5+)	1999 05 13	704	(2.2+	0.6+)	1999 06 04	699	0.5-	0.6-
1999 02 23	704	1.9+	1.0-	1999 05 14	704	(3.2+	0.7-)	1999 06 07	703	0.2+	0.2+
1999 02 23	704	1.2+	1.0+	1999 05 14	704	0.7+	0.7+	1999 06 07	703	0.5-	0.1-
1999 02 23	704	0.0	1.5-	1999 05 14	704	0.0	1.4-	1999 06 07	703	0.3-	0.1+
1999 04 14	699	0.5+	0.6+	1999 05 14	704	0.7-	0.2-	1999 06 07	703	0.4-	0.4+
1999 04 14	699	0.5+	0.9+	1999 05 14	704	0.9-	0.6+	1999 06 09	704	0.1-	0.9-
1999 04 14	699	0.6+	0.9+	1999 05 17	699	0.7+	1.3+	1999 06 09	704	0.3-	1.3-
1999 04 15	704	0.3+	0.3+	1999 05 17	699	0.6+	0.9+	1999 06 09	704	0.7-	0.6-
1999 04 15	704	0.4+	0.1+	1999 05 17	699	0.8+	1.0+	1999 06 09	704	0.4-	1.5-
1999 04 15	704	0.2-	0.0	1999 05 18	704	0.2+	0.8+	1999 06 09	704	1.0-	1.6-
1999 04 15	704	0.4+	1.0+	1999 05 18	704	0.8-	0.3+	1999 06 14	699	0.6-	0.4-
1999 04 15	704	0.6+	1.0-	1999 05 18	704	0.0	0.4+	1999 06 14	699	0.3-	0.6+
1999 05 10	704	0.6-	0.5-	1999 05 18	704	0.5-	0.4+	1999 06 14	699	0.1-	0.8+
1999 05 10	704	0.3-	0.8-	1999 05 18	704	0.3+	0.8-	1999 07 04	699	1.0-	0.8+
1999 05 10	704	0.5+	0.7-	1999 05 19	704	0.1-	0.1-	1999 07 04	699	0.6-	0.0
1999 05 10	704	0.8+	0.1+	1999 05 19	704	0.1-	0.3-	1999 07 04	699	0.5-	1.2+
1999 05 10	704	0.3-	0.4-	1999 05 19	704	0.2+	0.3-				

1999 JY₄₉ = 1996 SL₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	40.00036		(2000.0)	P	Q
<i>n</i>	0.27441106	ω	100.25928	+0.25879423	+0.96590972
<i>a</i>	2.3453175	Ω	184.75476	-0.91458831	+0.24282404
<i>e</i>	0.1505837	<i>i</i>	4.58805	-0.31073103	+0.08974912
<i>P</i>	3.59	<i>H</i>	16.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1996 09 20	691	0.4-	0.0	1999 05 10	704	1.4-	0.0	1999 06 05	703	0.5+	0.8+
1996 09 20	691	0.2-	0.2-	1999 05 13	704	0.2+	0.6+	1999 06 05	703	0.7+	0.4-
1996 09 20	691	0.3-	0.1+	1999 05 13	704	1.9+	1.5+	1999 06 05	703	0.3+	0.5-
1996 09 21	691	0.1+	0.1+	1999 05 13	704	0.5-	0.2-	1999 06 14	704	0.6+	0.4-
1996 09 21	691	0.4+	0.0	1999 05 18	704	1.0+	0.4-	1999 06 14	704	0.1+	0.2-
1996 09 21	691	0.4+	0.0	1999 05 18	704	0.2-	0.1+	1999 06 14	704	1.0-	0.8+
1999 05 10	704	0.7+	0.8-	1999 05 18	704	0.6+	0.5-	1999 06 14	704	0.7-	0.9-
1999 05 10	704	0.6+	0.7-	1999 05 18	704	1.6-	0.5-	1999 06 14	704	0.4-	0.5+
1999 05 10	704	1.5-	0.4-	1999 05 18	704	0.4-	0.7-				
1999 05 10	704	0.3-	1.1+	1999 06 05	703	0.7+	1.0+				

1999 JG₅₃ = 1982 DJ₂

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	70.66014		(2000.0)	P	Q
<i>n</i>	0.24149470	ω	60.83504	-0.58127029	+0.81365148
<i>a</i>	2.5538633	Ω	173.59846	-0.77377618	-0.54897514
<i>e</i>	0.1510519	<i>i</i>	5.04458	-0.25178417	-0.19130488
<i>P</i>	4.08	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1982 02 21	046	1.6-	0.4+	1999 05 10	704	0.4+	1.8-	1999 05 19	704	0.2+	0.6-
1982 02 21	046	(2.7+	4.3-)	1999 05 10	704	(0.3+	2.2-)	1999 05 19	704	0.4-	0.0
1986 02 10	675	1.8+	0.3+	1999 05 10	704	(0.2-	3.1-)	1999 05 19	704	(2.2+	0.0)

1992 10 05	675	0.0	0.2-	1999 05 10	704	1.3-	0.5-	1999 06 05	106	0.4-	0.2-
1992 10 05	675	1.2+	1.0+	1999 05 12	699	0.1+	0.4+	1999 06 05	106	0.8+	0.4-
1993 11 21	675	0.4+	0.0	1999 05 12	699	0.3+	0.3+	1999 06 05	106	0.7+	0.4-
1993 11 21	675	1.0+	0.4+	1999 05 12	699	0.1+	0.4+	1999 06 06	703	0.0	0.0
1996 09 15	566	0.6-	1.0+	1999 05 13	704	0.0	0.2+	1999 06 06	703	0.2+	0.0
1996 09 15	566	0.8-	0.9+	1999 05 13	704	1.1+	0.2+	1999 06 06	703	0.7-	0.5-
1996 09 15	566	0.5-	1.0+	1999 05 13	704	0.2+	0.5+	1999 06 06	703	0.0	0.4-
1996 10 12	566	0.1+	0.9-	1999 05 13	704	0.7+	0.5+	1999 06 06	106	0.2+	0.3-
1996 10 12	566	0.1+	0.9-	1999 05 13	704	0.6-	0.0	1999 06 06	106	0.1-	0.4-
1996 10 12	566	0.3+	0.8-	1999 05 14	704	0.3+	0.1+	1999 06 06	106	0.6-	0.5-
1998 01 02	675	1.9-	0.7+	1999 05 14	704	0.1-	0.4+	1999 06 08	704	(2.1+	0.6+)
1998 01 02	675	0.6+	0.6-	1999 05 14	704	0.3+	0.8+	1999 06 08	704	0.0	1.5+
1999 02 23	704	0.3+	1.9-	1999 05 14	704	1.3+	0.5+	1999 06 08	704	0.1+	0.2-
1999 02 23	704	(0.5+	2.2-)	1999 05 14	704	0.7-	0.6+	1999 06 08	704	0.3-	0.7+
1999 02 23	704	0.5+	1.7-	1999 05 18	704	0.7+	0.3-	1999 06 08	704	1.8-	0.4-
1999 02 23	704	0.8-	0.4-	1999 05 18	704	0.3+	0.2-	1999 06 14	704	0.0	0.0
1999 03 29	699	0.0	1.0+	1999 05 18	704	0.4+	0.8+	1999 06 14	704	0.2-	0.2-
1999 03 29	699	0.2-	1.4+	1999 05 18	704	0.1+	0.6+	1999 06 14	704	0.3-	0.0
1999 03 29	699	0.5+	0.5+	1999 05 18	704	0.6-	0.0	1999 06 14	704	0.3-	0.6-
1999 05 10	704	0.5+	0.1-	1999 05 19	704	0.1-	0.6+	1999 06 14	704	0.6-	0.1-

1999 JS₅₅ = 1990 HA₇

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	11.12051		(2000.0)	P	Q
<i>n</i>	0.21223067	ω	214.43595	+0.51252337	+0.84014388
<i>a</i>	2.7835388	Ω	86.99746	-0.74244306	+0.53739053
<i>e</i>	0.1354516	<i>i</i>	10.23375	-0.43139088	+0.07327809
<i>P</i>	4.64	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1990 04 29	413	0.0	0.2-	1999 05 10	704	0.1-	1.2-	1999 05 19	704	1.0+	1.0+
1991 10 16	675	1.7-	0.1+	1999 05 10	704	0.1+	0.0	1999 05 19	704	1.0+	1.2+
1991 10 16	675	1.2+	1.0+	1999 05 10	704	0.3-	0.7-	1999 05 19	704	0.8+	1.0-
1995 08 29	413	0.6-	0.4-	1999 05 10	704	1.6-	0.1-	1999 05 19	704	1.1-	0.3-
1995 08 29	413	0.6+	0.5+	1999 05 10	699	0.6+	0.0	1999 06 06	703	0.5+	0.2+
1998 02 24	566	0.2+	0.2-	1999 05 10	699	1.1+	0.3+	1999 06 06	703	0.8+	0.3-
1998 02 24	566	0.1+	0.2-	1999 05 10	699	1.1+	0.2-	1999 06 06	703	0.6+	0.1-
1998 02 24	566	0.1-	0.1+	1999 05 13	704	0.7-	0.2+	1999 06 06	703	0.5-	0.8-
1998 04 23	675	0.3-	0.0	1999 05 13	704	0.6-	0.4+	1999 06 09	704	0.1+	0.5-
1998 04 23	675	0.2+	0.5+	1999 05 13	704	0.1-	0.5+	1999 06 09	704	0.2+	0.2+
1999 02 23	704	0.3-	0.8-	1999 05 13	704	0.3+	0.4+	1999 06 09	704	0.2-	0.4+
1999 02 23	704	0.3+	0.2-	1999 05 13	704	(2.7-	0.3+)	1999 06 09	704	0.2-	0.5+
1999 02 23	704	0.5-	0.7+	1999 05 18	704	0.7-	0.0	1999 06 09	704	1.2-	0.4+
1999 02 23	704	1.5+	1.6+	1999 05 18	704	0.5+	0.2-	1999 06 14	704	0.0	0.2-
1999 04 19	699	0.1-	0.1-	1999 05 18	704	0.6-	0.1+	1999 06 14	704	0.0	0.4-
1999 04 19	699	0.5+	0.6+	1999 05 18	704	0.9-	0.1-	1999 06 14	704	0.1-	0.0
1999 04 19	699	(2.2+	0.2-)	1999 05 18	704	0.8-	0.1+	1999 06 14	704	0.1-	0.2+
1999 05 10	704	0.2-	1.0-	1999 05 19	704	0.7+	0.4+	1999 06 14	704	0.2-	0.3+

1999 JJ₅₈ = 1989 AN₇

Id. A. Gnädig, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	212.51181		(2000.0)	P	Q
<i>n</i>	0.23664480	ω	39.67740	-0.05089799	-0.97741374
<i>a</i>	2.5886385	Ω	54.20619	+0.84001835	-0.15298137
<i>e</i>	0.0384673	<i>i</i>	14.64773	+0.54016531	+0.14580492
<i>P</i>	4.16	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1989 01 09	033	0.4+	0.3+	1999 05 10	704	0.0	1.6+	1999 06 09	704	0.4+	0.2+
1989 01 09	033	0.2-	0.6-	1999 05 13	704	0.4-	0.1+	1999 06 09	704	0.2+	0.9+
1996 11 02	413	0.5-	0.7+	1999 05 13	704	0.2-	0.0	1999 06 09	704	0.6+	0.4+
1996 11 02	413	0.1+	0.1+	1999 05 13	704	0.7-	0.1+	1999 06 09	704	0.2-	0.1+
1998 04 18	699	0.2-	0.0	1999 05 13	704	0.2+	0.2+	1999 06 09	704	0.4-	0.6+
1998 04 18	699	0.0	0.2+	1999 05 13	704	0.6+	0.9+	1999 06 12	699	0.8+	0.7-

2000 MAR. 20

M.P.C. 39305

1998 04 18	699	0.4+	0.4+	1999 05 18	704	0.1−	0.1+	1999 06 12	699	0.2+	0.1+
1999 02 26	704	1.0+	1.8+	1999 05 18	704	0.2−	0.5−	1999 06 12	699	1.0+	0.5+
1999 02 26	704	(0.3+	2.5+)	1999 05 18	704	0.5+	1.1−	1999 06 15	704	0.3−	0.1−
1999 02 26	704	1.0+	0.5−	1999 05 18	704	0.4−	1.8−	1999 06 15	704	0.3+	0.1+
1999 02 26	704	0.7−	0.3+	1999 05 18	704	0.1+	0.9−	1999 06 15	704	0.1+	0.1−
1999 05 10	704	0.1−	0.4+	1999 05 19	704	0.4+	0.7−	1999 06 15	704	0.3+	0.3+
1999 05 10	704	0.8−	0.6−	1999 05 19	704	0.9−	0.4+	1999 06 15	704	0.1+	0.2−
1999 05 10	704	0.7−	0.0	1999 05 19	704	0.1+	0.8−				
1999 05 10	704	1.4−	0.0	1999 05 19	704	0.0	0.3−				

1999 JU₆₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	65.57294	(2000.0)	
<i>n</i>	0.22296095	<i>ω</i> 60.73658	−0.51174002 +0.85913913
<i>a</i>	2.6934992	<i>Ω</i> 178.48131	−0.80602140 −0.47951496
<i>e</i>	0.1448351	<i>i</i> 3.13768	−0.29740821 −0.17873265
<i>P</i>	4.42	<i>H</i> 14.3	<i>G</i> 0.15 <i>U</i> 3

Residuals in seconds of arc

1996 09 21	327	0.2+	0.3−	1999 05 13	704	0.2−	0.4+	1999 06 09	704	0.1−	0.0
1996 09 21	327	0.1−	0.2−	1999 05 13	704	0.8+	0.1−	1999 06 09	704	0.6−	0.2−
1996 09 21	327	0.3+	0.5−	1999 05 14	704	1.1+	1.8−	1999 06 09	704	0.5−	0.5+
1998 01 18	910	0.4+	0.3−	1999 05 14	704	(2.6+	0.3+)	1999 06 09	704	1.3−	0.1−
1998 01 18	910	0.3+	0.2−	1999 05 14	704	0.2+	0.8+	1999 06 09	120	0.7−	0.5−
1998 01 18	910	0.3+	0.2−	1999 05 14	704	0.9+	0.3+	1999 06 09	120	0.5−	0.3−
1998 01 28	675	1.3−	0.5+	1999 05 14	704	0.7+	0.4+	1999 06 09	120	0.3−	0.6−
1998 01 28	675	0.0	0.8−	1999 05 18	704	0.3+	0.2−	1999 06 11	703	1.5+	0.7+
1999 02 26	704	0.9+	0.1−	1999 05 18	704	0.8+	0.6−	1999 06 11	703	0.1+	0.1−
1999 02 26	704	0.3+	0.1+	1999 05 18	704	0.4+	0.4−	1999 06 11	703	0.5+	0.0
1999 02 26	704	1.3−	0.9+	1999 05 18	704	0.0	0.8−	1999 06 11	703	0.0	0.3+
1999 02 26	704	0.4+	1.8+	1999 05 18	704	0.6−	0.6−	1999 06 11	703	0.2−	0.3+
1999 05 10	704	1.2+	0.3−	1999 05 19	704	0.3+	0.9−	1999 06 11	703	0.0	1.4+
1999 05 10	704	0.4+	0.1−	1999 05 19	704	0.1−	0.7+	1999 06 11	703	0.3+	0.9+
1999 05 10	704	1.0−	0.6−	1999 05 19	704	0.8−	0.3+	1999 06 11	703	0.3+	0.4+
1999 05 10	704	0.2+	0.0	1999 05 19	704	0.8+	0.1−	1999 06 15	704	0.4−	0.2−
1999 05 10	704	0.0	0.0	1999 05 19	704	0.7−	1.1−	1999 06 15	704	0.4−	0.3+
1999 05 13	704	0.2−	0.3−	1999 06 06	120	0.7−	0.4−	1999 06 15	704	0.3−	0.2+
1999 05 13	704	0.8−	0.2−	1999 06 06	120	0.7−	0.2−	1999 06 15	704	0.5−	0.3+
1999 05 13	704	0.4+	0.4−	1999 06 09	704	0.5+	0.4−	1999 06 15	704	0.3−	0.4+

1999 JP₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	61.56971	(2000.0)	
<i>n</i>	0.28532786	<i>ω</i> 59.33645	+0.00434158 +0.99951817
<i>a</i>	2.2851073	<i>Ω</i> 210.95759	−0.93670391 −0.00669517
<i>e</i>	0.1769691	<i>i</i> 3.42529	−0.35009561 +0.03030852
<i>P</i>	3.45	<i>H</i> 14.9	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1982 08 12	413	1.0−	0.3−	1999 05 13	704	0.3−	0.1+	1999 06 06	699	0.8+	0.6−
1982 08 12	413	1.2+	1.1+	1999 05 13	704	0.2−	0.1+	1999 06 09	704	0.3+	0.0
1982 09 12	413	0.3−	0.9−	1999 05 13	704	0.1−	0.2−	1999 06 09	704	0.1+	0.2+
1982 09 12	413	0.0	0.2−	1999 05 13	704	0.1+	0.9−	1999 06 09	704	0.2+	0.5+
1985 03 03	413	0.6+	0.1+	1999 05 13	704	0.1+	1.3−	1999 06 09	704	0.0	0.2+
1986 09 30	675	1.7−	0.3+	1999 05 14	704	0.0	0.2−	1999 06 09	704	0.2−	0.0
1986 09 30	675	0.2+	0.0	1999 05 14	704	0.2−	0.6+	1999 06 11	703	0.5+	0.2−
1995 03 29	675	0.5+	0.3−	1999 05 14	704	0.8−	1.5+	1999 06 11	703	0.3+	0.2−
1995 03 29	675	0.1−	0.4−	1999 05 14	704	0.9−	0.5+	1999 06 11	703	0.4+	0.3+
1996 08 17	566	0.7+	0.1−	1999 05 14	704	0.6−	0.3+	1999 06 11	703	0.3+	0.0
1996 08 17	566	0.6+	0.2−	1999 05 18	704	(4.1−	0.5+)	1999 06 11	703	0.3+	0.3+
1996 08 17	566	0.1+	0.1−	1999 05 18	704	0.4−	0.3+	1999 06 11	703	0.2−	1.0+
1999 03 24	704	0.3−	1.3+	1999 05 18	704	0.3−	0.3−	1999 06 11	703	0.1+	0.4+
1999 03 24	704	0.8+	1.1+	1999 05 18	704	0.2−	0.7−	1999 06 11	703	0.0	0.8+
1999 03 24	704	(2.2−	1.0+)	1999 05 18	704	0.3−	0.4−	1999 06 15	704	0.1+	0.1−
1999 03 24	704	(1.6−	2.9+)	1999 05 19	704	0.1−	1.2−	1999 06 15	704	0.3+	0.2−
1999 03 24	704	1.3−	0.8+	1999 05 19	704	0.8+	0.1−	1999 06 15	704	0.2+	0.1−

1999 05 10	704	1.0+	0.2+	1999 05 19	704	0.1+	0.2−	1999 06 15	704	0.4+	0.3−
1999 05 10	704	0.8−	0.6−	1999 05 19	704	0.4+	0.7−	1999 06 15	704	0.3−	0.2+
1999 05 10	704	0.7+	1.0−	1999 05 19	704	0.1−	0.9−	1999 07 16	699	0.1+	0.0
1999 05 10	704	0.1−	0.2−	1999 06 06	699	0.7+	0.2−	1999 07 16	699	1.2−	1.0+
1999 05 10	704	1.7−	0.2−	1999 06 06	699	0.5+	0.1+	1999 07 16	699	0.1−	1.0+

1999 JB₆₄ = 1982 VP₅

Id. A. Gnädig, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig			
<i>M</i>	72.38478	(2000.0)	
<i>n</i>	0.27191755	<i>ω</i> 179.81071	−0.30959238 +0.93448447
<i>a</i>	2.3596335	<i>Ω</i> 72.15136	−0.87264806 −0.20581194
<i>e</i>	0.1824589	<i>i</i> 10.64052	−0.37767435 −0.29048275
<i>P</i>	3.62	<i>H</i> 15.5	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1982 11 14	381	0.9−	1.1+	1999 05 13	704	0.3−	0.1−	1999 06 09	704	0.3+	1.3+
1982 11 14	381	0.3+	0.5+	1999 05 13	704	1.6+	0.1−	1999 06 09	704	0.1−	0.3+
1996 11 02	413	0.1+	0.2+	1999 05 14	704	1.1−	1.2−	1999 06 09	704	0.0	0.5−
1996 11 02	413	0.2+	0.5−	1999 05 14	704	0.5+	0.1−	1999 06 09	704	0.1+	0.3+
1999 03 24	704	0.8+	0.0	1999 05 14	704	0.5−	0.0	1999 06 09	704	0.2−	0.3+
1999 03 24	704	0.8+	1.6+	1999 05 14	704	0.5−	1.4−	1999 06 15	704	0.4−	0.8+
1999 03 24	704	0.5−	1.7+	1999 05 18	704	1.4+	0.5−	1999 06 15	704	0.2−	1.3+
1999 05 10	704	0.5−	0.0	1999 05 18	704	(2.9+	0.7−)	1999 06 15	704	0.1−	0.9+
1999 05 10	704	0.2+	0.0	1999 05 18	704	0.9−	1.1+	1999 06 15	704	0.1−	1.0+
1999 05 10	704	0.9−	0.2−	1999 05 19	704	0.2+	0.0	1999 06 15	704	0.3+	0.8+
1999 05 10	704	0.3−	0.1+	1999 05 19	704	(2.4−	1.5+)	1999 07 14	704	0.1+	0.4−
1999 05 10	704	0.6−	0.1+	1999 05 19	704	0.1−	1.3−	1999 07 14	704	0.1−	0.5+
1999 05 13	704	1.2+	0.3−	1999 05 19	704	0.6+	0.6−	1999 07 14	704	0.1+	0.3−
1999 05 13	704	0.3+	1.0−	1999 05 19	704	0.9−	0.8−	1999 07 14	704	0.6+	1.2−

1999 JK₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig			
<i>M</i>	61.05756	(2000.0)	
<i>n</i>	0.18881295	<i>ω</i> 155.31884	−0.71453246 +0.65100401
<i>a</i>	3.0091802	<i>Ω</i> 67.82615	−0.67901375 −0.55714238
<i>e</i>	0.2672957	<i>i</i> 16.06086	−0.16847461 −0.51554451
<i>P</i>	5.22	<i>H</i> 14.7	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1988 02 18	675	0.5−	1.1+	1999 05 14	704	0.3−	0.3+	1999 06 09	704	0.2−	0.9−
1988 02 18	675	0.7+	0.2−	1999 05 14	704	0.2−	0.2+	1999 06 09	704	0.7−	0.2−
1995 11 24	413	1.4−	1.7+	1999 05 14	704	0.1+	1.8+	1999 06 09	704	0.1+	0.7−
1995 11 24	413	0.4+	0.6+	1999 05 14	704	0.0	0.7+	1999 06 09	704	0.3−	0.6−
1999 02 23	704	0.1+	1.9+	1999 05 18	704	0.4−	0.1+	1999 06 09	704	0.7−	0.6−
1999 02 23	704	0.6+	0.0	1999 05 18	704	0.4−	0.5−	1999 06 15	704	0.0	0.0
1999 02 23	704	0.8+	0.0	1999 05 18	704	1.1−	0.3−	1999 06 15	704	0.1+	0.2−
1999 02 23	704	(3.1−	0.1+)	1999 05 18	704	0.6−	0.3−	1999 06 15	704	0.4−	0.6−
1999 05 10	704	1.0+	0.4−	1999 05 18	704	1.0−	1.0−	1999 06 15	704	0.3−	0.4−
1999 05 10	704	0.8+	0.8−	1999 05 19	704	0.0	0.7−	1999 06 15	704	0.1−	0.6−
1999 05 10	704	0.2+	0.6−	1999 05 19	704	0.4+	0.2+	1999 06 22	691	0.2+	0.7−
1999 05 10	704	0.9+	0.2+	1999 05 19	704	0.5−	0.2−	1999 06 22	691	0.3+	0.3−
1999 05 10	704	0.1−	0.4−	1999 05 19	704	0.1−	0.6+	1999 06 22	691	0.6−	0.2+
1999 05 12	699	0.7+	0.4−	1999 05 19	704	0.1+	0.1+	1999 07 04	699	1.0+	1.3+
1999 05 12	699	1.0+	0.1+	1999 06 04	699	0.3+	0.6+	1999 07 04	699	0.5−	1.6+
1999 05 12	699	0.6+	0.2−	1999 06 04	699	0.3+	1.0+	1999 07 04	699	0.1−	1.8+
1999 05 14	704	0.3−	0.3+	1999 06 04	699	0.7+	1.0+				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	104.74523		(2000.0)	P	Q
<i>n</i>	0.27645297	ω	55.76367	−0.98362574	+0.08969818
<i>a</i>	2.3337547	Ω	128.86967	−0.13044512	−0.95281909
<i>e</i>	0.1560868	<i>i</i>	11.58208	+0.12435623	−0.28998280
<i>P</i>	3.57	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1982 08 21	413	1.0−	0.4+	1999 02 23	704	1.4−	0.5−	1999 05 14	704	0.2+	0.0
1982 08 21	413	0.1−	1.4+	1999 02 23	704	0.2+	1.1−	1999 05 14	704	0.6−	0.7−
1988 02 11	675(10.6−	0.8+)		1999 02 23	704	0.2+	0.1−	1999 05 14	704	0.1−	0.3+
1988 02 11	675(10.9−	0.8−)		1999 04 10	704	0.5+	0.5+	1999 05 17	704	0.1+	0.3+
1988 02 13	054	0.7+	1.7+	1999 04 10	704	0.3−	0.5−	1999 05 17	704	0.7+	0.7+
1988 02 13	054	1.2+	1.5+	1999 04 10	704	0.7+	0.1−	1999 05 17	704	2.0−	1.1+
1988 02 19	399	0.6−	0.7−	1999 04 10	704	0.6+	1.1−	1999 05 17	704	0.3−	2.7−)
1988 02 19	399	1.0−	0.6+	1999 04 10	704	0.9+	0.6−	1999 05 17	704	0.1−	0.6+
1988 02 19	399	(2.6+	1.6−)	1999 05 13	704	0.3+	1.0+	1999 06 07	704	0.1+	0.1+
1990 12 18	675	1.1−	0.3+	1999 05 13	704	0.6−	0.5+	1999 06 07	704	1.1+	0.0
1990 12 18	675	1.9+	1.4−	1999 05 13	704	0.7−	1.2−	1999 06 07	704	1.3+	0.3−
1992 06 05	413	0.4−	0.2−	1999 05 13	704	0.5−	2.1−	1999 06 07	704	1.0+	0.6−
1992 06 05	413	1.3+	1.2+	1999 05 13	704	1.3−	0.2−	1999 06 07	704	0.8+	0.1+
1999 02 23	704	0.3−	0.5+	1999 05 14	704	0.6−	0.2−				
1999 02 23	704	1.6−	1.2+	1999 05 14	704	0.0	0.2+				

1999 JK₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	167.40768		(2000.0)	P	Q
<i>n</i>	0.26394861	ω	23.12344	−0.61656869	−0.76062731
<i>a</i>	2.4068912	Ω	105.56465	+0.68537503	−0.64556950
<i>e</i>	0.1179296	<i>i</i>	12.17701	+0.38743272	−0.06845517
<i>P</i>	3.73	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1950 05 10	675	0.2−	0.7−	1999 05 12	704	0.3−	0.1−	1999 05 21	704	1.9+	0.1+
1950 05 10	675	0.6+	2.1+	1999 05 12	704	0.3+	0.4+	1999 06 08	703	0.1−	0.9+
1984 07 18	413	1.6+	0.1−	1999 05 15	704	0.2+	0.2+	1999 06 08	703	0.7−	0.7+
1984 07 18	413	0.6−	0.8+	1999 05 15	704	0.9−	0.8−	1999 06 08	703	0.2+	0.4+
1988 07 12	413	0.4−	2.1−	1999 05 15	704	1.5−	0.4−	1999 06 08	703	0.4−	0.1−
1988 07 12	413	0.7−	0.1+	1999 05 15	704	0.2+	0.7−	1999 06 08	704	0.1+	0.2−
1997 12 26	566	0.5+	0.9−	1999 05 15	704	0.3+	0.2+	1999 06 08	704	0.5−	0.1−
1997 12 26	566	0.1+	1.1−	1999 05 17	704	0.0	0.1−	1999 06 08	704	0.1+	0.3−
1997 12 26	566	0.4+	1.0−	1999 05 17	704	0.2+	0.4−	1999 06 08	704	0.0	0.2+
1999 02 20	704	(0.1−	2.2+)	1999 05 17	704	0.2+	0.2−	1999 06 08	704	0.5−	0.1+
1999 02 20	704	0.4−	0.3−	1999 05 17	704	1.4+	0.4−	1999 06 14	704	0.0	0.3+
1999 02 20	704	1.9−	1.5−	1999 05 17	704	0.5+	0.2+	1999 06 14	704	0.4+	0.5−
1999 02 20	704	1.4−	1.1+	1999 05 21	704	0.4+	0.2−	1999 06 14	704	0.3−	0.3+
1999 05 12	704	0.4+	0.2+	1999 05 21	704	0.8+	1.7−	1999 06 14	704	0.4−	0.1+
1999 05 12	704	0.3+	0.3+	1999 05 21	704	(2.4−	0.4−)	1999 06 14	704	0.0	0.0
1999 05 12	704	0.6−	0.1−	1999 05 21	704	0.6−	0.4−				

1999 JO₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	52.77828		(2000.0)	P	Q
<i>n</i>	0.24012018	ω	72.45696	−0.23179849	+0.97260605
<i>a</i>	2.5636001	Ω	184.25778	−0.95779042	−0.23134128
<i>e</i>	0.1418226	<i>i</i>	13.64888	−0.17002050	−0.02277462
<i>P</i>	4.10	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1950 07 19	675	1.0−	0.4+	1999 05 15	704	0.3−	0.3+	1999 06 10	699	0.2−	0.2+
1950 07 19	675	(4.7+	1.9+)	1999 05 15	704	1.7−	0.0	1999 06 10	699	0.2+	0.5+
1954 07 31	675	0.4+	1.1−	1999 05 15	704	0.1+	0.4+	1999 06 10	699	0.2−	0.3+
1954 07 31	675	0.3+	1.2+	1999 05 17	704	0.2−	0.1−	1999 06 11	703	0.1+	0.3−
1983 06 14	413	0.5+	1.8+	1999 05 17	704	0.3−	1.3−	1999 06 11	703	0.1−	0.6+
1983 06 14	413	0.3+	1.3−	1999 05 17	704	0.1+	0.7−	1999 06 11	703	0.1−	0.4+

1986 01 10	413	0.9−	0.1+	1999 05 17	704	0.4+	0.9−	1999 06 11	703	0.5−	0.6+
1986 01 10	413	0.6+	0.1+	1999 05 17	704	0.2−	0.2+	1999 06 12	704	0.6+	0.2+
1999 02 26	704	1.3+	0.6+	1999 05 21	704	1.3−	0.9−	1999 06 12	704	0.5+	0.1+
1999 02 26	704	1.3+	1.3+	1999 05 21	704	0.5−	0.6−	1999 06 12	704	0.1+	0.4−
1999 02 26	704	1.3+	0.0	1999 05 21	704	0.1−	0.4−	1999 06 12	704	0.7+	0.0
1999 02 26	704	(1.3−	0.7−)	1999 05 21	704	0.9+	0.1−	1999 06 12	704	0.4−	0.1−
1999 05 12	704	0.3+	0.3−	1999 05 21	704	0.1+	0.1+	1999 06 14	704	1.0+	0.3+
1999 05 12	704	0.1−	0.2−	1999 06 08	704	0.5+	0.1+	1999 06 14	704	0.6+	0.3−
1999 05 12	704	1.0+	0.1+	1999 06 08	704	0.1−	0.0	1999 06 14	704	0.0	0.8+
1999 05 12	704	0.5−	0.0	1999 06 08	704	0.8−	0.4−	1999 06 14	704	0.5+	0.1+
1999 05 15	704	0.7−	0.9+	1999 06 08	704	0.5−	0.8−	1999 06 14	704	0.4+	0.1−
1999 05 15	704	0.7−	1.0+	1999 06 08	704	1.3−	1.0−				

1999 JD₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	133.72065		(2000.0)	P	Q
<i>n</i>	0.23012687	ω	30.53007	−0.85512378	−0.44412968
<i>a</i>	2.6372896	Ω	120.72767	+0.39014508	−0.89099374
<i>e</i>	0.1307981	<i>i</i>	18.12513	+0.34139439	−0.09422835
<i>P</i>	4.28	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1982 07 17	413	0.3−	1.1−	1999 05 12	704	0.2+	0.2−	1999 05 17	704	0.9−	1.1+
1982 07 17	413	0.2+	0.7+	1999 05 12	704	0.5+	0.5+	1999 05 17	704	0.4−	1.0+
1984 11 23	413	1.4−	0.1−	1999 05 12	704	1.2+	0.3−	1999 06 08	704	0.5−	0.2+
1984 11 23	413	1.1+	0.6+	1999 05 12	704	1.3+	0.5+	1999 06 08	704	0.3−	0.8+
1996 09 08	413	0.8−	0.8−	1999 05 15	704	1.4+	0.6−	1999 06 08	704	0.2−	0.0
1996 09 08	413	1.1+	0.0	1999 05 15	704	0.6−	0.9+	1999 06 08	704	0.0	0.8+
1999 02 24	704	0.4+	1.6−	1999 05 15	704	0.4−	1.1−	1999 06 12	704	0.5−	0.3+
1999 02 24	704	0.9+	0.5−	1999 05 15	704	0.5−	0.4−	1999 06 12	704	0.1−	0.2+
1999 02 24	704	(3.0−	0.9−)	1999 05 15	704	1.1−	0.2−	1999 06 12	704	0.3−	0.0
1999 02 24	704	0.7+	0.6−	1999 05 17	704	0.8+	0.3+	1999 06 12	704	0.2−	0.1+
1999 02 24	704	1.6−	1.3−	1999 05 17	704	0.2−	0.4−	1999 06 12	704	0.3−	0.2−
1999 05 12	704	0.8+	0.4−	1999 05 17	704	0.0	0.5+				

1999 JP₁₁₁ = 1998 DY₁₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	326.48272		(2000.0)	P	Q
<i>n</i>	0.29127653	ω	225.19600	+0.98488324	−0.16476836
<i>a</i>	2.2538883	Ω	144.18767	+0.17316259	+0.92861615
<i>e</i>	0.1796769	<i>i</i>	5.24062	+0.00443982	+0.33245063
<i>P</i>	3.38	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 01 26	566	0.3−	0.0	1999 05 13	704	1.2+	0.2+	1999 05 19	704	1.3+	1.0−
1998 01 26	566	0.1−	0.1−	1999 05 13	704	0.7−	1.1+	1999 06 05	703	0.6−	0.9+
1998 01 26	566	0.7−	0.2+	1999 05 13	704	(2.0−	2.1+)	1999 06 05	703	0.2−	0.4+
1998 02 20	910	0.3−	0.0	1999 05 18	704	(0.8+	2.6+)	1999 06 05	703	0.1+	0.1−
1998 02 20	910	0.0	0.1+	1999 05 18	704	0.1+	0.4−	1999 06 05	703	0.4−	0.5−
1998 02 20	910	0.0	0.3−	1999 05 18	704	0.4+	0.8+	1999 06 14	704	0.4−	0.3+
1998 02 28	910	0.8+	0.5−	1999 05 18	704	1.7−	0.2+	1999 06 14	704	0.9+	0.9+
1998 02 28	910	0.4+	0.0	1999 05 18	704	0.0	0.6−	1999 06 14	704	0.5−	0.4−
1998 02 28	910	0.2+	0.6+	1999 05 19	704	0.4−	1.8+	1999 06 14	704	0.1+	0.9−
1999 05 13	704	0.4+	0.8−	1999 05 19	704	0.6−	1.2−				
1999 05 13	704	1.0+	0.8−	1999 05 19	704	(1.2−	2.6−)				

1999 KP₆ = 1983 QK₁

Id. A. Gnädig

2000 MAR. 20

M.P.C. 39307

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	10.23326		(2000.0)	P		Q	
<i>n</i>	0.23594772	ω	135.95614	+0.41226535	+0.90583949		
<i>a</i>	2.5937346	Ω	157.83287	-0.89090451	+0.42320280		
<i>e</i>	0.1209132	<i>i</i>	14.96423	-0.19059495	-0.01882026		
<i>P</i>	4.18	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1983 07 16	413	0.6-	0.6-	1999 05 12	704	0.4+	0.9-
1983 07 16	413	1.1+	1.3+	1999 05 12	704	0.4+	0.1+
1983 08 16	095	0.5-	0.9-	1999 05 12	704	0.5+	0.4-
1988 10 08	675	0.0	0.9-	1999 05 12	704	0.3+	0.1+
1988 10 08	675	0.4+	0.6+	1999 05 12	704	1.5-	0.6-
1998 01 29	566	0.2-	0.2-	1999 05 15	704	0.3-	0.6-
1998 01 29	566	0.1+	0.3-	1999 05 15	704	0.1-	0.9-
1998 01 29	566	0.2-	0.2-	1999 05 15	704	1.1-	0.5+
1999 02 23	704	0.9-	0.5-	1999 05 15	704	1.2-	0.2-
1999 02 23	704	1.9-	1.1+	1999 05 17	704	0.3+	1.4-
1999 02 23	704	0.1-	0.2+	1999 05 17	704	(2.2+ 2.6-)	
1999 02 23	704	1.3+	0.9+	1999 05 17	704	0.9-	0.3-
1999 04 10	704	0.2-	0.1-	1999 05 17	704	0.3-	1.0-
1999 04 10	704	0.3-	0.5-	1999 05 17	704	1.5-	0.2-
1999 04 10	704	0.0	1.6+	1999 05 21	327	0.3+	0.2-
1999 04 10	704	0.8-	1.2+	1999 05 21	327	0.6+	0.0
				1999 06 12	704	0.4-	0.8-

1999 MO

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	81.74814		(2000.0)	P		Q	
<i>n</i>	0.26464741	ω	242.31256	-0.15840176	+0.98729066		
<i>a</i>	2.4026524	Ω	18.58669	-0.89106392	-0.13731705		
<i>e</i>	0.1767981	<i>i</i>	2.31685	-0.42533982	-0.08000735		
<i>P</i>	3.72	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1989 12 28	675	1.1-	0.6+	1999 06 15	704	0.8-	0.1+
1989 12 28	675	0.7+	1.9+	1999 06 20	428	1.6-	0.3-
1990 01 01	675	0.3+	0.4+	1999 06 20	428	0.1-	0.2-
1996 10 12	566	0.4-	0.5-	1999 06 21	428	0.5-	0.0
1996 10 12	566	0.1+	0.2-	1999 06 21	428	0.4-	0.1+
1996 10 12	566	1.3-	0.3+	1999 06 21	428	0.1-	0.2-
1998 02 21	327	0.3+	0.3+	1999 06 23	428	0.0	0.2+
1998 02 21	327	0.1-	0.1+	1999 06 23	428	1.4-	0.4-
1998 02 21	327	0.4+	0.3+	1999 07 01	428	0.7-	0.4-
1999 05 18	699	1.2-	0.5+	1999 07 01	428	0.4-	0.8-
1999 05 18	699	0.7-	0.2-	1999 07 01	428	0.3-	0.3-
1999 05 18	699	0.6-	0.6-	1999 07 10	428	0.0	0.1+
1999 05 23	699	0.6-	0.9+	1999 07 14	704	0.4+	0.3+
1999 05 23	699	0.3-	2.0+	1999 07 14	704	0.7+	0.3-
1999 05 23	699	0.3-	0.8+	1999 07 14	704	0.1-	0.4+
1999 06 11	703	0.3-	1.1-	1999 07 14	704	0.6+	0.5-
1999 06 11	703	0.3-	0.4-	1999 07 14	704	0.1-	0.3+
1999 06 11	703	0.5-	0.4-	1999 07 16	704	0.1-	0.4-
1999 06 11	703	0.4-	0.1+	1999 07 16	704	0.0	0.0
1999 06 15	704	0.4+	0.1+	1999 07 16	704	0.3+	0.1+
1999 06 15	704	0.2-	0.6+	1999 07 16	704	0.1+	0.1+
1999 06 15	704	0.5-	0.5-	1999 07 16	704	0.3+	0.0
1999 06 15	704	0.2-	0.1-	1999 07 16	704	0.1+	0.6+
				1999 10 08	428	0.6+	0.1+

1999 NP₈ = 1998 HW₁₂₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	126.97635		(2000.0)	P		Q	
<i>n</i>	0.24085499	ω	306.84438	-0.65818917	+0.75000593		
<i>a</i>	2.5583833	Ω	281.86030	-0.66770824	-0.62167779		
<i>e</i>	0.0826732	<i>i</i>	3.83217	-0.34778257	-0.22584914		
<i>P</i>	4.09	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1998 02 25	566	1.0+	0.8+	1998 04 18	704	0.6-	0.8-
1998 02 25	566	1.1+	0.9+	1998 04 19	704	0.0	1.4-
1998 02 25	566	0.8+	0.6+	1998 04 19	704	0.7-	1.1-
1998 03 24	704	0.4+	0.1-	1998 04 19	704	0.3-	1.5-
1998 03 24	704	0.3-	0.3+	1998 04 19	704	0.6+	0.6-
1998 03 24	704	0.6+	0.3+	1998 04 19	704	0.8-	0.3-
1998 03 24	704	0.8-	0.1-	1999 07 13	704	0.2-	0.1-
1998 03 24	704	0.8-	0.2+	1999 07 13	704	0.1+	0.3-
1998 03 25	566	0.3-	1.1+	1999 07 13	704	0.2+	0.5+
1998 03 25	566	0.2-	1.0+	1999 07 13	704	0.2-	0.4+
1998 03 25	566	0.1-	0.9+	1999 07 13	704	0.1+	0.3+
1998 04 18	704	1.4+	0.1+	1999 07 16	704	0.5+	0.4+
1998 04 18	704	0.2+	0.0	1999 07 16	704	0.1+	0.2-
1998 04 18	704	1.2-	0.5-	1999 07 16	704	0.1-	0.3-

1999 NS₃₄ = 1998 BR₄₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	72.55708		(2000.0)	P		Q	
<i>n</i>	0.29772693	ω	220.39672	+0.35717379	+0.93184018		
<i>a</i>	2.2212152	Ω	70.61654	-0.83851186	+0.35009429		
<i>e</i>	0.1441732	<i>i</i>	3.89252	-0.41149088	+0.09543510		
<i>P</i>	3.31	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 01 28	566	0.3+	0.0	1999 07 14	704	0.3-	0.3-
1998 01 28	566	0.4+	0.6-	1999 07 16	704	0.3+	0.2+
1998 01 28	566	0.7+	0.5-	1999 07 16	704	0.1-	0.3+
1998 01 29	566	0.9-	0.4-	1999 07 16	704	0.2-	0.0
1998 01 29	566	0.2-	0.1+	1999 07 16	704	0.3+	0.3-
1998 01 29	566	0.8-	0.5-	1999 09 11	704	0.0	0.3-
1999 07 14	704	0.3-	0.0	1999 09 11	704	0.5+	0.7-
1999 07 14	704	0.7+	0.3-	1999 09 11	704	0.2+	0.1-
1999 07 14	704	0.0	0.0	1999 09 11	704	0.4+	0.3-

1999 NC₃₆ = 1998 AY₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	47.05720		(2000.0)	P		Q	
<i>n</i>	0.29902492	ω	197.04475	+0.83469238	+0.54762135		
<i>a</i>	2.2147827	Ω	129.60651	-0.49603874	+0.79358640		
<i>e</i>	0.1034821	<i>i</i>	4.34016	-0.23923670	+0.26520082		
<i>P</i>	3.30	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 01 08	910	0.2+	0.3-	1999 07 14	704	0.2+	0.4+
1998 01 08	910	0.1-	0.2+	1999 07 14	704	0.2+	0.1-
1998 01 08	910	0.3-	0.0	1999 07 14	704	0.3-	0.0
1998 01 09	910	0.2-	0.2+	1999 07 14	704	0.3-	0.5-
1998 01 09	910	0.1+	0.1+	1999 07 14	704	0.0	0.0
1998 01 09	910	0.3+	0.2-	1999 07 16	704	0.4+	0.2-
				1999 07 16	704	0.1-	0.0
				1999 07 16	704	0.1-	0.4+
				1999 08 07	699	0.7-	0.1+
				1999 08 07	699	0.4-	0.4-
				1999 08 07	699	1.2+	0.4+

1999 NV₃₆ = 1986 WM₂ = 1996 VY₄₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	20.89133		(2000.0)	P		Q	
<i>n</i>	0.29391510	ω	306.34565	+0.98397313	−0.16638874		
<i>a</i>	2.2403788	Ω	63.31161	+0.17776131	+0.88693155		
<i>e</i>	0.2220391	<i>i</i>	4.11555	+0.01406372	+0.43089118		
<i>P</i>	3.35	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1986 11 30	046	0.8+	1.3−	1998 03 29	704	(2.8+	2.3−)	1999 07 14	704	0.3−	0.1+
1986 11 30	046	0.5−	0.5−	1998 03 29	704	0.8−	0.2+	1999 07 14	704	0.3−	0.1−
1986 12 01	046	(3.8+	0.6−)	1998 03 29	704	0.3−	1.7−	1999 07 14	704	0.2−	0.1+
1986 12 01	046	(3.9+	0.9−)	1998 03 29	704	0.7+	0.6+	1999 07 14	704	0.3+	0.1+
1986 12 03	046	(4.9−	1.6−)	1999 06 23	703	1.2+	0.2−	1999 07 16	704	0.5+	0.5−
1986 12 03	046	0.4+	1.5−	1999 06 23	703	0.2+	0.6+	1999 07 16	704	0.0	0.7−
1996 11 12	095	0.7−	0.6+	1999 06 23	703	0.8−	1.0−	1999 07 16	704	0.1+	0.0
1996 11 15	095	0.1+	1.3+	1999 06 23	703	(2.3−	0.8−)				
1996 11 15	095	(3.3−	1.5+)	1999 07 14	704	0.1−	0.2−				

1999 NT₃₈ = 1998 FH₈₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	71.82949		(2000.0)	P		Q	
<i>n</i>	0.22120734	ω	182.77072	+0.05257557	+0.99439794		
<i>a</i>	2.7077155	Ω	90.25471	−0.91444089	+0.08483996		
<i>e</i>	0.1939589	<i>i</i>	5.26136	−0.40129000	−0.06304689		
<i>P</i>	4.46	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 03 24	704	0.1+	0.4+	1999 05 21	704	0.6+	1.8−	1999 07 16	704	0.5+	0.1+
1998 03 24	704	0.8−	1.6−	1999 05 21	704	0.6−	0.9−	1999 07 16	704	0.3+	0.3+
1998 03 24	704	0.6−	0.8+	1999 06 22	703	0.3+	1.0−	1999 07 16	704	0.4−	1.3+
1998 03 24	704	1.4+	1.0+	1999 06 22	703	1.0−	0.6−	1999 08 12	699	0.1−	0.2−
1998 03 25	704	0.4−	0.1−	1999 06 22	703	0.1−	1.1+	1999 08 12	699	0.3−	0.0
1998 03 25	704	0.6+	0.3+	1999 06 22	703	0.4+	1.4+	1999 08 12	699	0.6−	0.2+
1998 03 25	704	(3.2+	0.2−)	1999 07 14	704	0.1−	0.0	1999 09 29	704	1.0+	0.1−
1998 03 25	704	0.4−	1.0−	1999 07 14	704	0.2−	0.2+	1999 09 29	704	0.0	1.0−
1998 03 25	704	0.1−	0.2−	1999 07 14	704	0.1−	0.1+	1999 09 29	704	0.5+	1.6−
1999 05 21	704	1.2+	0.5−	1999 07 14	704	0.2−	0.5+	1999 09 29	704	(1.0+	3.0−)
1999 05 21	704	(2.5+	1.1+)	1999 07 14	704	0.4−	0.8+				

1999 NA₃₉ = 1992 OD₁₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	42.44881		(2000.0)	P		Q	
<i>n</i>	0.28092858	ω	335.81541	+0.90356709	+0.42844614		
<i>a</i>	2.3089017	Ω	358.81501	−0.38779319	+0.81718562		
<i>e</i>	0.1953492	<i>i</i>	1.80094	−0.18216191	+0.38554062		
<i>P</i>	3.51	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1992 07 31	809	0.2+	0.1+	1998 03 29	704	(3.4+	0.8+)	1999 07 14	704	0.5+	0.1+
1992 07 31	809	0.6+	0.2+	1998 03 29	704	0.6+	0.2+	1999 07 14	704	0.6+	0.4+
1992 07 31	809	0.9+	0.0	1998 03 29	704	0.1+	0.3−	1999 07 14	704	0.3+	0.2+
1992 08 01	809	0.6−	1.5−	1998 03 29	704	0.4−	0.9−	1999 07 16	704	0.7+	0.4+
1992 08 01	809	0.1−	1.8−	1999 06 22	703	1.3−	0.5+	1999 07 16	704	0.5+	0.4+
1992 08 01	809	0.6+	1.7−	1999 06 22	703	0.6−	0.4−	1999 07 16	704	0.6+	0.2+
1998 03 20	704	0.8−	0.7+	1999 06 22	703	1.5−	0.4+	1999 09 30	704	0.9−	0.6+
1998 03 20	704	1.0+	1.2+	1999 06 22	703	1.0−	0.2+	1999 09 30	704	1.2−	1.2+
1998 03 20	704	(2.4+	2.1+)	1999 07 14	704	0.6+	0.5+	1999 09 30	704	0.4−	0.4+
1998 03 20	704	(3.9−	0.3−)	1999 07 14	704	0.1+	0.3+	1999 09 30	704	0.5−	1.0+

1999 NQ₅₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	44.99373		(2000.0)	P		Q	
<i>n</i>	0.21862301	ω	150.14887	+0.69038452	+0.71982589		
<i>a</i>	2.7290122	Ω	163.15208	−0.70326578	+0.69119611		
<i>e</i>	0.1973892	<i>i</i>	14.43481	−0.16966573	+0.06402047		
<i>P</i>	4.51	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 07 26	413	0.5−	0.0	1999 07 22	704	0.5+	0.6−	1999 09 13	704	0.2+	0.2+
1981 07 26	413	0.5+	0.4−	1999 07 22	704	0.7+	0.2−	1999 09 13	704	0.0	0.4−
1994 05 04	675	1.6−	0.0	1999 07 22	704	0.8+	0.1−	1999 09 13	704	(0.1+	2.4−)
1994 05 04	675	1.8+	1.1−	1999 09 05	699	0.8−	0.3+	1999 09 28	699	(0.5+	3.1+)
1998 03 02	809	(4.6+	0.0)	1999 09 05	699	0.0	0.1+	1999 09 28	699	0.5+	0.0
1998 03 02	809	(4.8+	0.2−)	1999 09 05	699	0.1−	0.1+	1999 09 28	699	0.5−	0.6+
1998 03 24	566	0.1+	0.2+	1999 09 07	704	0.2−	0.3+	1999 09 30	704	0.7+	0.2−
1998 03 24	566	0.5+	0.1−	1999 09 07	704	0.5+	0.5+	1999 09 30	704	0.2−	0.4−
1998 03 24	566	0.1−	0.3+	1999 09 07	704	0.1−	0.4−	1999 09 30	704	1.0+	0.8−
1998 04 20	704	0.1+	1.0+	1999 09 07	704	0.3−	0.2+	1999 09 30	704	0.2−	0.3+
1998 04 20	704	0.1−	0.7−	1999 09 08	704	0.1−	0.2+	1999 09 30	704	0.4−	0.5−
1998 04 20	704	0.1+	0.7+	1999 09 08	704	0.1−	0.5+	1999 10 06	704	0.3−	0.5−
1998 04 20	704	(0.3−	2.5+)	1999 09 08	704	0.2+	0.3+	1999 10 06	704	0.1−	0.4−
1998 04 20	704	0.7−	0.4+	1999 09 08	704	0.1−	0.2+	1999 10 06	704	0.1−	0.4−
1999 07 13	704	0.4−	0.1+	1999 09 08	704	0.8−	0.0	1999 10 06	704	0.2+	0.3−
1999 07 13	704	0.6−	0.4+	1999 09 09	704	0.1+	0.5+	1999 10 06	704	0.0	0.3−
1999 07 13	704	0.6−	0.3+	1999 09 09	704	0.5−	0.5+	1999 10 15	704	0.1+	0.0
1999 07 13	704	0.5−	0.0	1999 09 09	704	0.2−	0.1−	1999 10 15	704	0.6+	0.4+
1999 07 13	704	0.5−	0.9−	1999 09 09	704	0.2−	0.1+	1999 10 15	704	0.3+	0.4+
1999 07 22	704	0.1+	0.5+	1999 09 09	704	0.0	0.1+	1999 10 15	704	0.2−	0.4+
1999 07 22	704	0.0	0.0	1999 09 13	704	0.7+	0.3+	1999 10 15	704	0.8+	0.2+

1999 NP₆₄ = 1998 HS₁₁₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	50.59477		(2000.0)	P		Q	
<i>n</i>	0.19151176	ω	170.29768	+0.44017665	+0.88324953		
<i>a</i>	2.9808428	Ω	125.64307	−0.83657398	+0.46878807		
<i>e</i>	0.0621919	<i>i</i>	11.46991	−0.32617250	−0.01039352		
<i>P</i>	5.15	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 02 08	566	0.1−	0.0	1998 04 24	704	(2.0+	0.7−)	1998 05 28	704	(4.1−	1.1−)
1997 02 08	566	0.3−	0.6−	1998 04 24	704	0.7+	0.1−	1999 07 14	704	0.3+	0.8−
1997 02 08	566	0.4+	0.4−	1998 04 24	704	0.2−	0.8−	1999 07 14	704	0.3+	0.1−
1998 03 24	704	0.3+	0.0	1998 04 25	566	(2.8−	0.9+)	1999 07 14	704	0.1+	0.4−
1998 03 24	704	1.1−	1.2−	1998 04 25	566	0.1−	0.1+	1999 07 14	704	0.1+	0.3+
1998 03 24	704	1.4+	0.2+	1998 04 25	566	0.3−	0.2−	1999 07 14	704	0.4−	0.3+
1998 03 24	704	(0.4+	2.8−)	1998 05 16	704	0.4+	1.1−	1999 07 20	699	1.1+	1.0+
1998 03 24	704	1.2−	0.0	1998 05 16	704	1.5−	1.1−	1999 07 20	699	0.1−	0.2−
1998 04 23	704	0.2+	0.3−	1998 05 16	704	0.2+	1.0+	1999 07 20	699	0.1+	0.2−
1998 04 23	704	0.1+	0.2−	1998 05 16	704	1.7+	1.1+	1999 08 07	699	0.5−	0.2−
1998 04 23	704	0.2+	1.6+	1998 05 28	704	0.4+	1.1+	1999 08 07	699	0.5−	0.7−
1998 04 23	704	0.3+	1.2+	1998 05 28	704	0.6−	0.8−	1999 08 07	699	0.4−	0.0
1998 04 23	704	1.2−	0.0	1998 05 28	704	(2.1+	1.6+)				
1998 04 24	704	0.4+	0.4−	1998 05 28	704	0.2−	0.1−				

1999 RP₂₃ = 1992 UC₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	13.18719		(2000.0)	P		Q	
<i>n</i>	0.27467564	ω	25.71319	+0.72719564	−0.68579780		
<i>a</i>	2.3438112	Ω	17.68682	+0.61186886	+0.62815629		
<i>e</i>	0.1957775	<i>i</i>	5.56450	+0.31113181	+0.36756094		
<i>P</i>	3.59	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

2000 MAR. 20

M.P.C. 39309

Residuals in seconds of arc

1992 10 31	033	0.2+	0.3+	1999 09 07	704	0.3+	0.0	1999 09 14	703	0.4-	0.6+
1992 10 31	033	0.3-	0.3-	1999 09 08	704	0.2+	0.4+	1999 09 14	703	0.2-	0.1+
1992 11 01	033	0.0	0.2+	1999 09 08	704	0.4-	0.4-	1999 10 02	704	0.1-	0.8-
1999 09 07	704	0.1+	0.1-	1999 09 08	704	0.2+	0.7-	1999 10 02	704	0.4+	0.1+
1999 09 07	704	0.7-	0.3+	1999 09 08	704	0.1-	0.3+	1999 10 02	704	0.5+	0.3-
1999 09 07	704	0.3+	0.2+	1999 09 14	703	0.0	0.0	1999 10 02	704	0.2+	0.4+
1999 09 07	704	0.2-	0.0	1999 09 14	703	0.2-	0.3-				

1999 RB₃₁ = 1998 FV₁₂₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	96.56581	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.28711716	ω	312.98329	+0.55431912	+0.82901390
<i>a</i>	2.2756036	Ω	349.86431	-0.58739736	+0.32673007
<i>e</i>	0.1656706	<i>i</i>	24.84268	-0.58965638	+0.45385395
<i>P</i>	3.43	<i>H</i>	15.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 03 24	704	0.3+	0.9-	1998 04 01	704	(2.6+	0.5-)	1999 09 09	704	1.2+	0.4-
1998 03 24	704	0.1+	0.4+	1998 04 01	704	1.7+	0.3-	1999 09 09	704	0.3+	0.2-
1998 03 24	704	0.1-	0.0	1999 09 06	703	0.5-	0.0	1999 09 18	704	0.3+	0.2+
1998 03 24	704	0.3-	0.3-	1999 09 06	703	0.2+	0.1+	1999 09 18	704	0.0	0.3+
1998 03 24	704	(2.2-	1.4+)	1999 09 06	703	0.4-	0.7+	1999 09 18	704	0.4-	0.8+
1998 03 25	704	0.3-	0.9+	1999 09 06	703	(2.2+	1.3+)	1999 09 18	704	0.6-	0.7+
1998 03 25	704	0.2-	0.3+	1999 09 08	704	0.2-	0.1+	1999 09 18	704	0.1-	0.2-
1998 03 25	704	0.2-	0.0	1999 09 08	704	0.3+	0.1-	1999 10 03	704	0.5+	0.6-
1998 03 25	704	0.1-	0.4+	1999 09 08	704	0.6-	0.0	1999 10 03	704	0.6-	0.6+
1998 03 25	704	(3.1-	1.4-)	1999 09 08	704	0.5+	0.8-	1999 10 03	704	0.2+	0.2-
1998 04 01	704	1.2-	0.8-	1999 09 08	704	0.2-	0.5-	1999 10 03	704	0.1-	0.6-
1998 04 01	704	0.3+	0.3+	1999 09 09	704	0.3+	0.1-				

1999 RD₄₇ = 1998 HP₁₀₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	185.89571	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.23731129	ω	41.72736	-0.95852992	-0.05353554
<i>a</i>	2.5837894	Ω	132.82317	+0.01750769	-0.99140418
<i>e</i>	0.0231134	<i>i</i>	22.43553	+0.28445365	-0.11938051
<i>P</i>	4.15	<i>H</i>	13.7	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 04 22	566	0.8+	1.4-	1998 05 11	566	0.3-	0.2-	1999 09 07	704	0.4+	0.2+
1998 04 22	566	0.1-	0.3-	1998 05 11	566	0.4+	0.2-	1999 09 07	704	0.3+	1.0+
1998 04 22	566	0.3+	0.8-	1998 05 11	566	0.4-	0.3-	1999 09 07	704	0.5+	0.1-
1998 04 28	704	0.3-	0.4+	1998 05 29	704	0.4+	1.5+	1999 09 07	704	0.4+	0.8+
1998 04 28	704	0.1+	0.0	1998 05 29	704	1.4+	1.0+	1999 09 11	699	0.0	0.4-
1998 04 28	704	0.3-	1.2+	1998 05 29	704	0.2+	0.4-	1999 09 11	699	0.8-	0.4-
1998 04 28	704	0.1+	0.9+	1998 05 29	704	0.7+	1.7-	1999 09 11	704	0.3-	0.7-
1998 04 28	704	1.5-	1.0-	1998 05 29	704	(2.2-	1.2+)	1999 09 11	699	0.3-	0.6-
1998 04 30	704	0.1-	0.2-	1999 08 07	699	0.1-	0.3+	1999 09 11	704	0.1+	0.5-
1998 04 30	704	0.7-	0.3+	1999 08 07	699	0.1+	0.0	1999 09 11	704	0.1-	0.3+
1998 04 30	704	0.3-	1.1+	1999 08 07	699	0.2-	0.2+	1999 09 11	704	0.2-	0.3-
1998 04 30	704	(0.1+	3.7+)	1999 09 07	704	0.0	0.2-	1999 09 11	704	0.0	0.3+

1999 RM₄₉ = 1981 RF₆ = 1986 XU₂ = 1993 FW₂₁ = 1995 TH₇

Id. A. Doppler, G. V. Williams; 1994 TK₁₅ = 1981 RF₆ (*MPC* 25220) is invalid

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	350.32926	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.21760180	ω	14.31637	+0.88433240	-0.46660442
<i>a</i>	2.7375437	Ω	13.52950	+0.42160797	+0.78403801
<i>e</i>	0.1693843	<i>i</i>	3.76919	+0.20050666	+0.40934669
<i>P</i>	4.53	<i>H</i>	13.8	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1981 09 01	675	1.1+	0.3-	1998 05 01	704	0.2+	0.8-	1999 09 07	704	0.1+	1.3+
1981 09 02	675	0.7+	0.8-	1998 05 01	704	(0.2-	2.2-)	1999 09 07	704	0.2-	1.1+
1986 12 03	010	(5.6-	1.5-)	1998 05 24	704	0.9-	0.9+	1999 09 07	704	0.2+	0.8+
1986 12 03	010	0.6-	0.1+	1998 05 24	704	0.3-	0.8+	1999 09 11	704	0.5-	0.8+
1986 12 03	010	2.4-	0.7+	1998 05 24	704	0.1-	1.1-	1999 09 11	704	0.3-	0.4+
1993 03 21	809	0.4+	1.2+	1998 05 24	704	0.2-	0.3-	1999 09 11	704	0.0	1.0+
1993 03 22	809	1.3+	1.2+	1999 07 14	704	0.1+	0.2-	1999 09 11	704	0.1-	0.8+
1993 03 26	809	0.5+	0.6+	1999 07 14	704	0.5-	1.0-	1999 09 11	704	0.6-	1.1+
1993 03 27	809	0.5+	1.0+	1999 07 14	704	0.6+	0.7-	1999 11 06	703	1.0-	0.1-
1995 10 15	691	0.3+	0.1+	1999 07 14	704	0.0	0.8-	1999 11 06	703	0.4+	0.1+
1995 10 15	691	0.2+	0.0	1999 07 14	704	1.1+	0.2-	1999 11 06	703	1.1-	0.4+
1995 10 15	691	0.2+	0.0	1999 08 13	703	0.1-	1.2-	1999 11 06	703	0.6-	1.2+
1995 10 22	691	0.4+	0.2+	1999 08 13	703	1.0-	0.2+	1999 11 10	704	1.1+	0.1-
1995 10 22	691	0.7+	0.0	1999 08 13	703	(2.7-	0.6+)	1999 11 10	704	0.2-	0.0
1995 10 22	691	0.6+	0.1+	1999 08 13	703	(3.2-	0.4+)	1999 11 10	704	0.0	0.7-
1998 05 01	704	0.0	0.0	1999 09 07	704	0.1-	0.9+	1999 11 10	704	0.8-	1.1-
1998 05 01	704	0.4+	0.5-	1999 09 07	704	0.4+	0.3+	1999 11 10	704	0.2-	0.8-

1999 RF₅₀ = 1998 FU₃₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	73.29063	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.22898821	ω	107.88089	+0.19706046	+0.98031482
<i>a</i>	2.6460251	Ω	173.44756	-0.93522976	+0.19171650
<i>e</i>	0.1640754	<i>i</i>	6.16193	-0.29413003	+0.04719789
<i>P</i>	4.30	<i>H</i>	14.2	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 03 20	704	0.3+	0.3-	1998 04 19	704	0.4+	1.2+	1999 09 07	704	0.6+	0.6+
1998 03 20	704	0.5-	0.4-	1998 04 19	704	1.2-	1.9+	1999 09 13	704	0.6+	0.3+
1998 03 20	704	0.2-	0.6-	1999 07 13	704	0.7+	0.3-	1999 09 13	704	0.5-	0.3+
1998 03 20	704	1.4-	0.2-	1999 07 13	704	0.0	0.5-	1999 09 13	699	1.5-	1.4+
1998 03 20	704	0.1-	0.4+	1999 07 13	704	0.0	0.5-	1999 09 13	704	1.7+	0.0
1998 03 22	704	0.7+	0.7-	1999 07 13	704	0.4-	0.9-	1999 09 13	704	0.2+	1.1-
1998 03 22	704	1.0+	0.8-	1999 07 13	704	0.0	0.3-	1999 09 13	704	0.8-	0.8-
1998 03 22	704	0.9-	0.6+	1999 07 23	704	0.2+	0.5-	1999 09 13	699	1.3-	1.3+
1998 03 22	704	0.7+	1.5+	1999 07 23	704	0.1-	0.5-	1999 09 13	699	0.0	0.6+
1998 03 22	704	0.6+	0.2-	1999 07 23	704	0.5-	0.4-	1999 10 06	704	0.6-	0.1+
1998 03 29	704	0.3-	0.6+	1999 09 04	703	0.2-	0.1-	1999 10 06	704	0.6-	0.5+
1998 03 29	704	1.4+	0.4-	1999 09 04	703	0.2+	0.4+	1999 10 06	704	0.1+	0.6+
1998 03 29	704	0.4+	0.4-	1999 09 04	703	0.6-	0.5+	1999 10 06	704	0.4+	0.3+
1998 03 29	704	0.3+	0.5-	1999 09 04	703	0.5+	0.8+	1999 10 06	704	0.8+	0.0
1998 03 29	704	0.8+	0.9-	1999 09 07	704	0.0	0.1+	1999 11 10	704	0.9-	1.1-
1998 04 19	704	1.6-	0.6-	1999 09 07	704	0.2+	0.0	1999 11 10	704	0.5+	1.1-
1998 04 19	704	(0.0	2.9+)	1999 09 07	704	0.1+	0.1+	1999 11 10	704	0.2+	1.5-
1998 04 19	704	0.4-	0.6+	1999 09 07	704	0.3+	1.0+	1999 11 10	704	0.9+	0.2-

1999 RX₅₆ = 1998 FF₂₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	108.72639	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.24515849	ω	317.87409	-0.30655537	+0.95005199
<i>a</i>	2.5283552	Ω	294.19825	-0.85529566	-0.30191928
<i>e</i>	0.1582254	<i>i</i>	3.67870	-0.41772377	-0.07903140
<i>P</i>	4.02	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 02 24	566	0.0	0.2-	1998 03 22	704	0.5-	1.4-	1999 09 07	704	0.7+	1.3-
1998 02 24	566	0.1+	0.5-	1998 03 22	704	0.1+	0.7+	1999 09 07	704	0.3+	0.3+
1998 02 24	566	0.1-	0.5-	1998 03 26	704	0.9-	0.5+	1999 09 07	704	0.3-	0.6-
1998 03 20	704	0.5-	0.3-	1998 03 26	704	0.8-	0.8+	1999 09 07	704	0.4-	0.4-
1998 03 20	704	0.5+	0.1-	1998 03 26	704	0.6+	0.0	1999 09 14	704	1.2-	0.2+
1998 03 20	704	0.4+	1.4-	1999 08 22	703	0.0	0.2-	1999 09 14	704	1.0+	0.4+
1998 03 20	704	0.1-	0.4+	1999 08 22	703	0.0	0.4-	1999 09 14	704	0.3+	1.0+
1998 03 20	704	1.0-	0.1-	1999 08 22	703	0.4-	0.5+	1999 09 14	704	0.2+	0.7+

M.P.C. 39310

2000 MAR. 20

1998 03 22 704 1.4+ 1.1+ 1999 08 22 703 0.0 0.4+
 1998 03 22 704 0.6+ 0.5+ 1999 09 07 704 0.2+ 1.0-

1999 RO₆₉ = 1999 RZ₁₅₈ = 1998 HO₁₄₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	40.97859	(2000.0)	P	Q	
<i>n</i>	0.26755628	ω 195.66525	+0.98461366	+0.16399583	
<i>a</i>	2.3852063	Ω 154.65669	-0.14133394	+0.95044489	
<i>e</i>	0.1243015	<i>i</i> 8.10430	-0.10276508	+0.26412096	
<i>P</i>	3.68	<i>H</i> 15.3	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1998 04 21	704	0.5+	1.1-	1999 09 07	699	0.3+	0.7+	1999 09 09	704	0.0	0.2+
1998 04 21	704	0.1+	0.3+	1999 09 07	704	0.5-	0.3-	1999 09 13	704	0.5-	0.2-
1998 04 21	704	(2.3+	2.5-)	1999 09 07	704	0.5-	0.5-	1999 09 13	704	0.7+	0.6-
1998 04 21	704	0.3-	1.0-	1999 09 07	704	0.0	0.5-	1999 09 13	704	1.3-	0.8-
1998 04 24	704	0.8-	1.1+	1999 09 07	699	0.0	0.8+	1999 09 13	704	0.2+	0.2-
1998 04 24	704	0.0	0.9-	1999 09 07	704	0.1-	0.4-	1999 09 30	704	0.3+	0.9-
1998 04 24	704	1.1+	1.7+	1999 09 08	703	0.0	0.2+	1999 09 30	704	0.7-	0.3+
1998 04 24	704	0.8-	0.2-	1999 09 08	703	0.1+	0.4+	1999 09 30	704	0.5-	0.3+
1998 04 24	704	(1.6-	2.2+)	1999 09 08	703	0.4-	0.1+	1999 09 30	704	0.6-	0.6+
1999 07 16	704	0.7-	0.2+	1999 09 08	703	0.2+	1.1+	1999 10 04	703	0.7+	0.1-
1999 07 16	704	0.5+	0.0	1999 09 09	704	0.3+	0.2-	1999 10 04	703	0.2-	0.4-
1999 07 16	704	0.6+	0.1-	1999 09 09	704	0.1-	0.0	1999 10 04	703	1.1+	0.0
1999 09 07	699	0.2+	0.4+	1999 09 09	704	0.0	0.1-	1999 10 04	703	0.4+	0.2+
1999 09 07	704	0.0	0.5-	1999 09 09	704	0.7+	0.2+				

1999 RM₇₀ = 1998 KV₆₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	114.97123	(2000.0)	P	Q	
<i>n</i>	0.21433156	ω 20.43008	-0.24246181	+0.96835899	
<i>a</i>	2.7653194	Ω 235.58174	-0.89975743	-0.24723290	
<i>e</i>	0.0967919	<i>i</i> 4.10850	-0.36283444	-0.03401122	
<i>P</i>	4.60	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 6	

Residuals in seconds of arc

1998 05 22	704	0.4+	0.6-	1999 09 05	703	0.7+	0.2-	1999 09 07	704	0.2-	1.3-
1998 05 22	704	0.2+	0.6+	1999 09 05	703	1.1+	0.6+	1999 09 09	704	0.3+	1.5+
1998 05 22	704	1.3-	1.8-	1999 09 05	703	1.0-	1.5+	1999 09 09	704	0.1-	0.3+
1998 05 22	704	1.0+	1.1+	1999 09 05	703	0.7-	0.0	1999 09 09	704	0.9-	0.3-
1998 05 23	704	1.3-	0.3+	1999 09 07	704	0.5-	0.8-	1999 09 09	704	0.1-	0.5+
1998 05 23	704	0.7+	0.5+	1999 09 07	704	0.2-	0.5-	1999 09 09	704	1.2+	0.2-
1998 05 23	704	1.2+	0.6+	1999 09 07	704	0.3-	0.8-				
1998 05 23	704	0.9-	0.8-	1999 09 07	704	0.7+	0.4-				

1999 RQ₇₁ = 1998 HE₃₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	37.72643	(2000.0)	P	Q	
<i>n</i>	0.20900502	ω 202.60027	+0.95316122	+0.29692682	
<i>a</i>	2.8121052	Ω 139.98335	-0.26200633	+0.90570965	
<i>e</i>	0.1152075	<i>i</i> 5.13967	-0.15111707	+0.30253014	
<i>P</i>	4.72	<i>H</i> 15.8	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1998 04 22	691	0.3-	0.1-	1999 09 07	704	0.1-	0.3+	1999 09 08	703	0.1+	1.9-
1998 04 22	691	0.9+	0.5+	1999 09 07	704	0.8-	0.2-	1999 09 08	703	(2.3+	0.9-)
1998 04 22	691	0.2-	0.1-	1999 09 07	704	0.3-	1.1+	1999 09 13	704	0.2+	0.1+
1998 04 30	691	0.3-	0.0	1999 09 07	704	0.2+	0.1-	1999 09 13	704	0.1-	0.0
1998 04 30	691	0.2-	0.2-	1999 09 08	703	0.1-	0.8+	1999 09 13	704	0.0	0.4+
1998 04 30	691	0.2+	0.0	1999 09 08	703	0.8+	0.6-				

1999 RU₇₄ = 1998 HE₉₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	131.94652	(2000.0)	P	Q	
<i>n</i>	0.24365799	ω 174.09284	-0.32467499	+0.94305707	
<i>a</i>	2.5387247	Ω 76.94452	-0.87078875	-0.26819662	
<i>e</i>	0.0388957	<i>i</i> 4.25722	-0.36920605	-0.19675855	
<i>P</i>	4.05	<i>H</i> 15.2	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1995 08 30	809	0.7+	0.4+	1998 05 01	704	0.5+	0.1-	1999 09 08	703	0.1-	0.8-
1995 08 31	809	1.3+	0.1-	1998 05 01	699	0.7+	0.4-	1999 09 14	704	0.2+	0.7+
1995 08 31	809	0.8-	1.0-	1998 05 01	704	0.5+	0.8+	1999 09 14	704	0.6+	1.0+
1995 09 01	809	0.7-	0.4-	1998 05 01	704	(1.6-	2.3-)	1999 09 14	704	0.6+	0.2+
1998 04 21	704	0.2-	0.1+	1998 05 22	704	0.5+	1.2-	1999 09 14	704	0.4-	0.3+
1998 04 21	704	1.0-	1.0+	1998 05 22	704	(4.5-	2.8-)	1999 09 14	704	0.9+	0.5+
1998 04 21	704	0.8-	0.4-	1998 05 22	704	1.6-	0.6+	1999 09 14	704	0.0	0.1+
1998 04 21	704	0.2-	0.7-	1998 05 22	704	0.8-	0.4-	1999 09 14	704	0.2+	0.5-
1998 04 22	704	1.0+	0.6-	1999 09 07	704	0.5-	1.1+	1999 09 14	704	0.2+	0.6+
1998 04 22	704	0.5+	0.3+	1999 09 07	704	0.2-	0.7+	1999 09 14	704	0.4+	1.0-
1998 04 22	704	0.9+	1.2+	1999 09 07	704	0.9-	0.2-	1999 09 14	704	1.0-	1.2-
1998 04 22	704	0.7-	0.5-	1999 09 07	704	0.4-	0.7+	1999 09 14	704	0.4+	0.1-
1998 04 22	704	0.1+	0.4-	1999 09 07	704	0.4-	0.9+	1999 09 14	704	0.0	0.6-
1998 05 01	704	0.3-	0.1+	1999 09 08	703	0.1-	0.2-	1999 09 14	704	0.1-	0.0
1998 05 01	699	1.1+	0.5+	1999 09 08	703	0.2+	0.7-				
1998 05 01	699	(0.6+	2.4+)	1999 09 08	703	0.1-	0.1+				

1999 RF₈₀ = 1997 EY₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	14.72476	(2000.0)	P	Q	
<i>n</i>	0.22040278	ω 52.49817	+0.95021054	-0.29773249	
<i>a</i>	2.7143010	Ω 324.55543	+0.21152710	+0.83298678	
<i>e</i>	0.0775738	<i>i</i> 9.12346	+0.22881481	+0.46635651	
<i>P</i>	4.47	<i>H</i> 16.0	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1997 03 03	691	0.0	0.4+	1999 09 04	703	0.7-	1.3-	1999 09 09	704	1.1+	0.5+
1997 03 03	691	0.1-	0.0	1999 09 04	703	0.2+	0.3+	1999 09 09	704	0.0	0.4-
1997 03 03	691	0.0	0.2+	1999 09 04	703	0.9-	0.2+	1999 09 09	704	0.5+	0.1-
1997 03 09	691	0.2+	0.2-	1999 09 07	704	0.6+	0.4-	1999 09 09	704	0.3-	1.4+
1997 03 09	691	0.1+	0.4-	1999 09 07	704	0.0	1.3-	1999 09 09	704	0.8-	0.6+
1997 03 09	691	0.2-	0.1-	1999 09 07	704	0.9+	0.2-				
1999 09 04	703	0.0	0.5-	1999 09 07	704	0.5-	1.1+				

1999 RN₈₆ = 1998 DD₃₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	159.76192	(2000.0)	P	Q	
<i>n</i>	0.27030799	ω 86.14364	-0.71109795	+0.69989634	
<i>a</i>	2.3689912	Ω 138.25684	-0.67838987	-0.65796798	
<i>e</i>	0.1658161	<i>i</i> 5.77286	-0.18473463	-0.27789071	
<i>P</i>	3.65	<i>H</i> 14.9	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 01 28	566	0.3+	0.4-	1999 08 22	703	0.6-	0.2+	1999 09 14	704	0.1+	0.1+
1998 01 28	566	0.2+	0.3-	1999 08 22	703	0.0	0.4-	1999 09 14	704	0.1+	0.1-
1998 01 28	566	0.2+	0.3-	1999 08 22	703	0.7-	0.5-	1999 09 14	704	0.5+	0.1+
1998 02 28	809	0.4-	0.5-	1999 08 22	703	0.5+	0.7-	1999 09 14	704	0.0	0.0
1998 02 28	809	0.6+	0.7-	1999 09 07	704	0.3-	0.3-	1999 09 14	704	0.1+	0.3+
1998 03 02	809	0.5-	1.6+	1999 09 07	704	0.2+	0.4+	1999 09 14	704	0.3-	0.6-
1998 03 02	809	0.1-	0.7+	1999 09 07	704	0.3+	0.3+	1999 09 14	704	0.5-	0.2-
1999 08 12	699	1.6+	0.4+	1999 09 07	704	0.5-	0.4+	1999 09 14	704	0.2-	0.2+

2000 MAR. 20

M.P.C. 39311

1999 08 12 699 0.3- 0.1+ 1999 09 07 704 1.1- 1.3+
1999 08 12 699 1.5+ 0.6- 1999 09 14 704 0.2- 0.3-

1999 RR₈₇ = 1998 CK₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	154.91561	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.29488879	ω	82.16708	-0.60913391	+0.79263951
<i>a</i>	2.2354444	Ω	150.25702	-0.74674857	-0.56218795
<i>e</i>	0.1728063	<i>i</i>	3.00965	-0.26706264	-0.23593922
<i>P</i>	3.34	<i>H</i>	15.3	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 02 06	809	0.4-	0.6-	1999 08 22	703	0.3+	0.5-	1999 09 14	704	0.0	1.1-
1998 02 06	809	0.5-	0.4+	1999 09 07	704	0.2-	0.2+	1999 09 14	704	0.5+	0.8-
1998 02 06	809	0.1-	0.2+	1999 09 07	704	0.1+	0.2+	1999 10 13	012	0.1-	0.5+
1998 02 07	809	0.8+	0.2+	1999 09 07	704	0.2-	0.2+	1999 10 13	012	0.5+	0.3+
1998 02 07	809	0.0	0.0	1999 09 07	704	0.0	0.6+	1999 10 13	012	0.1-	0.0
1998 02 07	809	0.2+	0.2-	1999 09 07	704	1.4-	0.1+	1999 10 13	012	0.3-	0.1+
1999 08 22	703	1.1-	0.0	1999 09 14	704	0.1+	0.6-	1999 10 13	012	0.3-	0.0
1999 08 22	703	1.0+	1.4+	1999 09 14	704	0.7+	0.0				
1999 08 22	703	0.3+	0.3+	1999 09 14	704	0.2+	0.8-				

1999 RY₁₀₁ = 1998 FT₁₂₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	66.23154	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.26774498	ω	82.09450	+0.64949228	+0.75649627
<i>a</i>	2.3840855	Ω	228.70197	-0.73162821	+0.59431253
<i>e</i>	0.1062755	<i>i</i>	5.85476	-0.20707472	+0.27295788
<i>P</i>	3.68	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 03 24	704	0.9+	0.7+	1998 04 01	704	0.3+	0.5-	1999 09 14	704	0.0	0.8-
1998 03 24	704	0.5-	0.4-	1998 04 01	704	1.7+	0.6-	1999 09 14	704	0.2-	0.1+
1998 03 24	704	0.1-	1.9+	1998 04 01	704	0.8-	0.7-	1999 09 14	704	0.0	0.4-
1998 03 24	704	0.2-	0.5+	1998 04 01	704	0.2-	0.8-	1999 09 14	704	0.3+	0.5-
1998 03 24	704	0.2-	1.2-	1999 09 08	704	0.5+	0.7+	1999 09 14	704	0.2-	0.5-
1998 03 25	704	0.1-	0.6-	1999 09 08	704	0.3-	0.7+	1999 09 14	703	0.6-	0.2-
1998 03 25	704	0.1+	0.5-	1999 09 08	704	0.6+	1.2+	1999 09 14	703	0.2-	0.4-
1998 03 25	704	0.2+	0.3+	1999 09 09	704	(1.1+ 2.3+)		1999 09 14	703	0.0	0.1-
1998 03 25	704	0.1-	1.0+	1999 09 09	704	0.7-	1.4+	1999 09 14	703	0.2-	0.5-
1998 03 25	704	0.1-	1.1+	1999 09 09	704	0.3+	0.2-				
1998 04 01	704	0.8-	0.4-	1999 09 09	704	0.7+	0.6-				

1999 RR₁₀₄ = 1996 XM₃₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	355.69247	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.29279474	ω	150.88906	+0.61875530	-0.77965328
<i>a</i>	2.2460902	Ω	260.71818	+0.70054832	+0.60311098
<i>e</i>	0.1183443	<i>i</i>	5.60240	+0.35549112	+0.16851677
<i>P</i>	3.37	<i>H</i>	15.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1996 12 08	327	0.1-	0.3-	1998 04 22	704	1.2-	0.7-	1999 09 08	704	0.2-	0.1-
1996 12 08	327	0.4-	0.4+	1998 04 22	704	(4.5- 1.1+)		1999 09 09	704	0.2+	0.2-
1996 12 08	327	0.5-	0.3-	1999 09 05	703	0.1+	1.1-	1999 09 09	704	0.2+	0.3-
1996 12 17	327	0.2+	0.1+	1999 09 05	703	0.8-	0.4+	1999 09 09	704	0.1-	0.3+
1996 12 17	327	0.7+	0.1-	1999 09 05	703	0.6-	0.1+	1999 09 09	704	0.4+	0.7+
1996 12 17	327	0.1+	0.1+	1999 09 05	703	0.1+	0.6+	1999 09 09	704	(0.9- 2.7+)	
1998 04 22	704	1.1+	0.4+	1999 09 08	704	0.4+	0.4-				
1998 04 22	704	(4.5+ 0.2-)		1999 09 08	704	0.3+	0.2-				

1999 RA₁₀₅ = 1993 QH₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	237.45734	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.17799897	ω	302.91289	-0.97744731	-0.20573657
<i>a</i>	3.1298563	Ω	225.26535	+0.20913513	-0.91172593
<i>e</i>	0.0921098	<i>i</i>	3.84503	+0.02931297	-0.35556757
<i>P</i>	5.54	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1993 08 16	010	1.0+	0.2-	1999 09 08	704	0.3-	0.3-	1999 10 30	703	0.4+	1.0+
1993 08 16	010	0.1+	1.4-	1999 09 08	704	0.3+	0.3+	1999 10 30	703	0.2-	0.4+
1993 08 16	010	0.2+	1.7-	1999 09 08	704	0.2-	0.3-	1999 10 30	703	0.1+	0.1-
1993 08 17	010	(0.2+ 2.4-)		1999 09 08	704	0.6+	0.4-	1999 11 05	704	0.2-	0.1-
1998 08 17	704	0.3+	0.5+	1999 09 09	704	0.4+	0.1+	1999 11 05	704	0.0	0.7-
1998 08 17	704	0.4+	0.2+	1999 09 09	704	0.1-	0.1-	1999 11 05	704	0.1+	0.3-
1998 08 17	704	0.2-	0.2+	1999 09 09	704	0.3+	0.2-	1999 11 05	704	0.0	0.2-
1998 08 17	704	0.7-	0.4+	1999 09 09	704	0.8+	0.2-	1999 11 14	704	0.8+	0.6-
1998 08 17	704	0.4+	0.7-	1999 09 09	704	0.1+	0.3+	1999 11 14	704	0.1-	0.4-
1998 08 19	566	0.8-	0.4+	1999 09 18	703	1.0+	0.2+	1999 11 14	704	0.0	0.0
1998 08 19	566	0.4+	0.5+	1999 09 18	703	1.1-	0.6+	1999 11 14	704	0.0	0.2-
1998 08 19	566	0.5-	0.6+	1999 09 18	703	0.2+	0.5+	1999 11 14	704	0.5-	0.5-
1999 07 23	704	0.4+	0.0	1999 09 18	703	0.9-	0.1-	1999 11 16	704	0.6+	0.4-
1999 07 23	704	0.3-	0.4+	1999 10 04	704	0.4+	0.3+	1999 11 16	704	0.8-	0.3+
1999 07 23	704	0.0	0.1-	1999 10 04	704	0.1-	0.1-	1999 11 16	704	0.1+	1.4+
1999 07 23	704	0.8-	0.7+	1999 10 04	704	0.4+	0.8-	1999 11 16	704	0.7-	1.4+
1999 09 08	704	0.6-	0.2-	1999 10 30	703	1.1-	0.5+				

1999 RU₁₁₄ = 1998 HC₇₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	354.86261	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.28842557	ω	201.99920	+0.65952507	-0.74993520
<i>a</i>	2.2687164	Ω	206.82038	+0.70546705	+0.64106283
<i>e</i>	0.0970934	<i>i</i>	6.51880	+0.25950516	+0.16320430
<i>P</i>	3.42	<i>H</i>	16.0	<i>G</i>	0.15
				<i>U</i>	6

Residuals in seconds of arc

1998 04 21	704	0.0	0.1+	1999 09 05	703	0.3-	1.5+	1999 09 09	704	0.9+	0.8+
1998 04 21	704	0.3+	0.3-	1999 09 08	704	0.2+	0.6+	1999 09 09	704	0.5+	0.8-
1998 04 21	704	0.1+	0.8-	1999 09 08	704	0.4-	0.2+	1999 09 09	704	0.1-	0.3+
1998 04 21	704	0.7-	0.7-	1999 09 08	704	0.3-	0.5-	1999 09 09	704	0.1+	0.3-
1998 04 22	704	1.7+	1.1+	1999 09 08	704	1.0+	0.3-	1999 09 09	704	0.7+	0.9-
1998 04 22	704	0.1+	1.3+	1999 09 09	704	0.4+	1.2-	1999 09 14	704	0.0	0.2+
1998 04 22	704	1.5-	0.8-	1999 09 09	704	0.6-	0.5-	1999 09 14	704	0.1+	0.3+
1999 09 05	703	0.1-	0.7-	1999 09 09	704	1.2-	0.8-	1999 09 14	704	0.5-	0.2+
1999 09 05	703	0.1-	0.3+	1999 09 09	704	0.2+	0.0	1999 09 14	704	0.5+	0.1+
1999 09 05	703	0.2-	1.3+	1999 09 09	704	0.5-	0.4-	1999 09 14	704	0.2-	0.5+

1999 RC₁₂₃ = 1998 HN₆₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	205.01798	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.27133269	ω	327.15727	-0.99190826	+0.10816944
<i>a</i>	2.3630231	Ω	219.22216	-0.08140378	-0.94362012
<i>e</i>	0.0493593	<i>i</i>	6.03344	-0.09742397	-0.31285849
<i>P</i>	3.63	<i>H</i>	15.2	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 04 01	704	0.0	0.2-	1998 04 28	566	0.6-	0.6+	1999 09 09	704	0.1+	0.3-
1998 04 01	704	0.2+	1.3+	1998 04 28	566	0.7-	0.7+	1999 09 09	704	0.5-	0.1-
1998 04 01	704	0.8-	0.4-	1998 04 28	566	0.7-	0.6+	1999 09 09	704	0.4+	0.1+
1998 04 01	704	(5.2- 2.5-)		1999 09 05	703	0.6+	0.5+	1999 09 09	704	0.5+	1.7-
1998 04 21	704	0.5+	0.4-	1999 09 05	703	1.6-	0.2+	1999 09 09	704	0.8-	0.4-
1998 04 21	704	0.6+	0.3-	1999 09 05	703	(2.8- 0.0)		1999 09 09	704	1.5+	0.4+
1998 04 21	704	0.1+	0.5-	1999 09 05	703	(2.4- 1.1+)		1999 09 09	704	0.1-	1.1-

M.P.C. 39312

1998 04 21	704	0.8+	1.1−	1999 09 08	704	0.8−	0.4+	1999 09 09	704	0.8+	0.0
1998 04 21	704	(2.7+	0.0)	1999 09 08	704	0.6+	0.2+	1999 09 14	704	0.6−	0.1+
1998 04 22	704	0.1−	0.0	1999 09 08	704	0.2+	0.4+	1999 09 14	704	0.5−	0.0
1998 04 22	704	0.2+	0.2−	1999 09 08	704	0.3+	0.4+	1999 09 14	704	0.5−	0.8+
1998 04 22	704	0.2+	0.0	1999 09 08	704	0.5+	0.3+	1999 09 14	704	0.2−	1.1+
1998 04 22	704	0.1+	0.0	1999 09 09	704	0.1+	0.6−	1999 09 14	704	0.0	0.4+
1998 04 22	704	0.2+	0.2−	1999 09 09	704	0.1−	1.0−				

1999 RL₁₃₃ = 1991 EC₉ = 1998 MO₁₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q		
<i>n</i>	0.17038955	ω	332.08689	−0.98313570	−0.16877315						
<i>a</i>	3.2223602	Ω	198.60073	+0.17953233	−0.96403518						
<i>e</i>	0.1015158	<i>i</i>	12.75550	−0.03481864	−0.20530902						
<i>P</i>	5.78	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	1				

Residuals in seconds of arc

1991 03 11	413	0.1+	0.7−	1998 06 25	704	0.9+	0.8−	1999 09 10	704	0.0	0.6+
1991 03 11	413	0.5−	1.2−	1998 06 25	704	0.8+	1.1−	1999 09 10	704	0.9−	0.2+
1997 06 03	566	0.4−	0.1−	1998 06 25	704	0.4−	0.5−	1999 09 10	704	0.2−	0.5+
1997 06 03	566	0.1−	0.1−	1998 06 25	704	0.3−	0.0	1999 09 14	704	0.3+	0.8−
1997 06 03	566	0.5+	0.1−	1999 07 23	704	1.8−	1.0−	1999 09 14	704	0.0	0.2−
1998 05 28	704	0.2+	1.1−	1999 07 23	704	0.5+	0.4+	1999 09 14	704	0.5−	0.3−
1998 05 28	704	(2.4+	0.6+)	1999 07 23	704	0.7−	1.2+	1999 09 14	704	0.5+	0.9−
1998 05 28	704	0.3−	0.1+	1999 09 04	703	(1.2−	2.2+)	1999 10 02	703	0.5+	0.5−
1998 05 28	704	0.9+	0.1+	1999 09 04	703	0.1−	0.2−	1999 10 02	703	0.2+	1.0−
1998 05 28	704	1.3−	0.2+	1999 09 04	703	0.0	0.4+	1999 10 02	703	0.1+	0.3+
1998 06 19	704	0.3−	0.8+	1999 09 04	703	0.4−	1.3−	1999 10 02	703	0.2−	0.8+
1998 06 19	704	0.4−	1.7+	1999 09 09	704	0.7+	0.2−	1999 10 02	704	0.7+	0.1−
1998 06 19	704	(0.6−	2.2+)	1999 09 09	704	0.7−	0.8+	1999 10 02	704	0.9+	0.4+
1998 06 19	704	0.5+	0.8+	1999 09 09	704	0.4+	0.0	1999 10 02	704	0.7+	0.8−
1998 06 19	704	0.0	0.3+	1999 09 09	704	0.3+	0.3−	1999 10 02	704	0.7+	0.4+
1998 06 25	704	0.3−	0.4−	1999 09 09	704	0.9−	0.1+	1999 10 02	704	0.6+	0.7−

1999 RK₁₄₄ = 1996 VF₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q		
<i>n</i>	0.29880894	ω	138.05040	+0.97415850	+0.21924721						
<i>a</i>	2.2158499	Ω	209.41612	−0.22521521	+0.92467012						
<i>e</i>	0.1619825	<i>i</i>	6.34460	−0.01712670	+0.31131308						
<i>P</i>	3.30	<i>H</i>	17.5	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

1996 11 12	684	0.3+	0.4+	1999 09 05	703	0.0	0.3−	1999 09 09	704	0.3−	0.3−
1996 11 12	684	0.1+	0.2+	1999 09 05	703	1.9−	1.2+	1999 09 14	704	0.0	0.2+
1996 11 13	684	0.4−	0.4−	1999 09 05	703	0.1+	1.5+	1999 09 14	704	0.2+	0.3+
1996 11 13	684	0.1−	0.0	1999 09 09	704	0.9+	1.0−	1999 09 14	704	0.7+	0.9+
1996 11 13	684	0.0	0.2−	1999 09 09	704	0.4+	0.3−	1999 09 14	704	0.5−	0.1−
1999 09 05	703	1.5+	1.0−	1999 09 09	704	0.5−	1.3−	1999 09 14	704	0.4−	0.2+

1999 RF₁₄₇ = 1998 KR₂₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q		
<i>n</i>	0.21399351	ω	300.05083	−0.81245484	+0.56708291						
<i>a</i>	2.7682309	Ω	274.81881	−0.47713007	−0.78017791						
<i>e</i>	0.0845538	<i>i</i>	7.80973	−0.33505825	−0.26408219						
<i>P</i>	4.61	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4				

Residuals in seconds of arc

1998 05 22	704	0.1−	0.0	1998 06 16	704	0.8+	1.1+	1999 09 09	704	0.3+	0.8+
1998 05 22	704	0.4−	0.8+	1998 06 16	704	(3.5−	0.6−)	1999 09 09	704	0.5−	0.4−

2000 MAR. 20

1998 05 22	704	0.2−	1.5−	1998 06 16	704	1.3−	0.1+	1999 09 09	704	1.7+	0.0
1998 05 22	704	0.2+	0.3−	1998 06 16	704	0.7−	0.7+	1999 09 14	704	0.4−	0.2+
1998 05 22	704	0.1+	0.7−	1999 09 05	703	0.2−	1.1−	1999 09 14	704	0.4+	0.2−
1998 05 24	704	1.9+	0.3−	1999 09 05	703	0.1−	0.4+	1999 09 14	704	0.2+	1.0−
1998 05 24	704	0.2−	0.0	1999 09 05	703	0.3−	0.4+	1999 09 14	704	0.2+	0.5+
1998 05 24	704	1.2−	1.2+	1999 09 05	703	1.0−	0.5+	1999 09 14	704	0.1−	0.0
1998 05 24	704	0.2+	0.8+	1999 09 09	704	0.0	0.8−				
1998 06 16	704	0.7+	1.8−	1999 09 09	704	0.2−	0.5+				

1999 RS₁₅₃ = 1991 TJ₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q		
<i>n</i>	0.23912495	ω	224.84734	−0.41570965	−0.90530650						
<i>a</i>	2.5707082	Ω	249.89711	+0.85833267	−0.35880757						
<i>e</i>	0.2079021	<i>i</i>	5.32863	+0.30074993	−0.22732636						
<i>P</i>	4.12	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	7				

Residuals in seconds of arc

1991 10 04	033	0.2−	0.0	1999 09 05	703	0.2−	1.0+	1999 09 14	704	0.2+	0.2−
1991 10 04	033	0.1+	0.3+	1999 09 09	704	0.3+	0.2−	1999 09 14	704	0.2+	0.1−
1991 10 05	033	0.4+	0.1−	1999 09 09	704	0.5+	0.1+	1999 09 14	704	0.2+	0.1−
1999 09 05	703	0.2+	0.5+	1999 09 09	704	0.3−	1.3−	1999 09 14	704	0.3−	0.2−
1999 09 05	703	0.4−	0.4−	1999 09 09	704	0.1−	0.4−				
1999 09 05	703	0.0	0.1+	1999 09 09	704	0.1−	1.0+				

1999 RS₁₆₀ = 1991 HB₂ = 1998 FU₁₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q		
<i>n</i>	0.26939806	ω	242.73549	+0.49449837	+0.86811102						
<i>a</i>	2.3743227	Ω	56.96607	−0.77819113	+0.46425916						
<i>e</i>	0.2076861	<i>i</i>	2.94454	−0.38715620	+0.17563228						
<i>P</i>	3.66	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	3				

Residuals in seconds of arc

1991 04 19	809	1.1+	0.0	1999 07 16	704	0.4+	0.9−	1999 09 09	704	0.3+	0.0
1991 04 19	809	0.5+	1.1+	1999 08 12	699	1.1+	0.0	1999 09 09	704	0.4−	0.6+
1991 04 19	809	0.7−	0.8+	1999 08 12	699	0.7+	0.4+	1999 09 09	704	0.2−	0.1+
1998 03 20	704	0.4+	0.3+	1999 08 12	699	0.3−	0.8+	1999 09 13	704	0.1+	0.0
1998 03 20	704	1.2+	1.1−	1999 09 07	704	0.2−	0.4+	1999 09 13	704	0.2+	0.2+
1998 03 20	704	0.2+	0.4+	1999 09 07	704	0.6−	0.2+	1999 09 13	704	0.4+	0.5+
1998 03 20	704	(0.7+	2.5+)	1999 09 07	704	0.4−	0.2+	1999 09 13	704	0.3+	0.5+
1998 03 22	704	0.8+	0.6−	1999 09 07	704	0.2−	0.4+	1999 09 30	704	0.1−	0.2−
1998 03 22	704	1.5−	0.8+	1999 09 08	703	0.0	0.6+	1999 09 30	704	1.8−	1.0−
1998 03 22	704	0.8−	1.1+	1999 09 08	703	0.0	0.0	1999 09 30	704	0.3−	0.0
1998 03 22	704	(2.9−	0.8+)	1999 09 08	703	0.1+	0.1−	1999 11 15	704	0.2+	0.1−
1999 07 16	704	0.5−	1.1−	1999 09 08	703	0.5−	0.2−	1999 11 15	704	0.8+	0.6+
1999 07 16	704	0.1+	0.6−	1999 09 09	704	0.1+	0.3+	1999 11 15	704	0.1+	0.2−
1999 07 16	704	0.3+	0.6−	1999 09 09	704	0.2+	0.0	1999 11 15	704	0.5−	0.7+

1999 RW₁₆₀ = 1994 VT₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q		
<i>n</i>	0.19306452	ω	350.80268	+0.99994195	+0.01004063						
<i>a</i>	2.9648387	Ω	8.62490	−0.00745986	+0.90689932						
<i>e</i>	0.1957078	<i>i</i>	1.49330	−0.00777419	+0.42122774						
<i>P</i>	5.11	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

1994 11 09	691	0.3+	0.3−

2000 MAR. 20

M.P.C. 39313

1994 11 10	691	0.2−	0.2−	1999 09 09	704	0.0	1.1+	1999 09 14	703	0.4−	0.1−
1994 11 10	691	0.1−	0.2+	1999 09 09	704	0.3+	0.5−	1999 09 14	703	0.2+	0.5+
1994 11 10	691	0.0	0.4+	1999 09 09	704	0.0	1.0+	1999 09 14	703	0.9−	0.7−
1999 08 22	703	0.4−	0.1+	1999 09 09	704	1.1+	0.8−	1999 09 14	703	0.4+	0.3−
1999 08 22	703	0.1+	0.0	1999 09 14	704	0.7−	0.1−	1999 09 14	703	1.0−	1.1−
1999 08 22	703	0.1+	0.2−	1999 09 14	704	0.3+	0.6−	1999 09 14	703	1.2+	0.0
1999 08 22	703	0.2−	0.4+	1999 09 14	704	0.0	0.3−				
1999 09 07	704	0.1−	0.6+	1999 09 14	704	0.1+	0.4+				

1999 RW₁₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q			Williams		
<i>n</i>	0.21549396	ω	204.99307	+0.43284086	−0.89953361									
<i>a</i>	2.7553662	Ω	219.43282	+0.84192414	+0.42679738									
<i>e</i>	0.0343653	<i>i</i>	5.33521	+0.32219954	+0.09318414									
<i>P</i>	4.57	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>			5					

Residuals in seconds of arc

1995 10 15	327	0.1−	0.3+	1995 10 28	327	0.1+	0.1−	1999 09 07	704	0.2−	0.3−
1995 10 15	327	0.1−	0.1−	1999 09 05	703	0.6+	0.8+	1999 09 09	704	0.5+	1.2−
1995 10 15	327	0.3−	0.2+	1999 09 05	703	0.2+	0.3−	1999 09 09	704	0.2+	0.1+
1995 10 15	327	0.2+	0.0	1999 09 05	703	2.0−	1.1+	1999 09 09	704	0.3−	0.1+
1995 10 15	327	0.0	0.5−	1999 09 05	703	0.3+	0.5+	1999 09 09	704	0.9+	0.8+
1995 10 15	327	0.1−	0.3+	1999 09 07	704	0.1−	0.4−	1999 09 14	704	0.3+	0.2−
1995 10 15	327	0.2+	0.1+	1999 09 07	704	0.5−	0.7−	1999 09 14	704	0.2+	0.8+
1995 10 28	327	0.3−	0.5−	1999 09 07	704	0.4−	0.6−	1999 09 14	704	0.4−	0.2−
1995 10 28	327	0.3+	0.5+	1999 09 07	704	0.6+	0.4−				

1999 RF₁₆₃ = **1998 HZ**₇₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q			Williams		
<i>n</i>	0.21859256	ω	132.83493	+0.76811315	+0.63997287									
<i>a</i>	2.7292656	Ω	187.46107	−0.62436237	+0.74133728									
<i>e</i>	0.1585883	<i>i</i>	9.26329	−0.14203458	+0.20212314									
<i>P</i>	4.51	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>			5					

Residuals in seconds of arc

1998 04 21	704	1.3+	0.3−	1999 09 05	703	0.4−	0.3−	1999 09 09	704	0.3−	0.2+
1998 04 21	704	1.8−	0.2−	1999 09 05	703	0.6−	1.1+	1999 09 09	704	0.8−	1.9−
1998 04 21	704	0.1−	0.1−	1999 09 05	703	0.7+	0.3+	1999 09 09	704	0.2−	1.9−
1998 04 21	704	0.8+	0.2+	1999 09 07	704	0.3−	0.6−	1999 09 14	704	0.9+	1.0+
1998 04 21	704	1.5−	0.0	1999 09 07	704	0.1+	0.0	1999 09 14	704	0.1−	0.2+
1998 04 22	704	0.1−	1.7+	1999 09 07	704	0.6+	0.0	1999 09 14	704	0.2−	0.3−
1998 04 22	704	1.0−	0.9+	1999 09 07	704	0.4+	0.3+	1999 09 14	703	0.4−	0.1+
1998 04 22	704	1.1+	1.4−	1999 09 07	704	0.3+	0.1+	1999 09 14	703	0.2−	0.6−
1998 04 22	704	1.5+	0.8−	1999 09 09	704	0.7+	0.1+	1999 09 14	703	0.3+	0.9+
1999 09 05	703	0.4+	1.3+	1999 09 09	704	0.9−	0.4−	1999 09 14	703	0.0	0.4+

1999 RX₁₆₄ = **1994 WA**₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q			Williams		
<i>n</i>	0.17111889	ω	208.09811	+0.75787003	−0.65137488									
<i>a</i>	3.2131975	Ω	192.75174	+0.62536664	+0.74132098									
<i>e</i>	0.0973692	<i>i</i>	9.55981	+0.18587518	+0.16172190									
<i>P</i>	5.76	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>			5					

Residuals in seconds of arc

1994 11 28	691	0.3−	0.3+	1999 09 04	703	0.3+	0.1−	1999 09 09	704	1.8−	0.5−
1994 11 28	691	0.3−	0.3+	1999 09 07	704	0.6−	0.5−	1999 09 14	704	0.2+	0.1−
1994 11 28	691	0.2+	0.1+	1999 09 07	704	0.5+	0.8+	1999 09 14	704	0.1−	0.2+
1994 12 03	691	0.3+	0.2−	1999 09 07	704	0.1−	1.1+	1999 09 14	704	0.7+	1.1−
1994 12 03	691	0.1+	0.3−	1999 09 07	704	0.8+	0.4−	1999 09 14	704	0.3+	0.7+
1994 12 03	691	0.1−	0.2−	1999 09 09	704	0.7+	0.5−	1999 09 14	704	0.9+	1.0−

1999 09 04	703	0.7−	0.1+	1999 09 09	704	0.6+	0.0	1999 09 14	704	0.4−	0.4+
1999 09 04	703	0.1+	0.7−	1999 09 09	704	0.9−	1.1+	1999 09 14	704	0.4+	0.5−
1999 09 04	703	0.1+	0.2−	1999 09 09	704	0.4−	0.8+	1999 09 14	704	0.6−	0.6+

1999 RJ₁₆₉ = **1998 FW**₁₁₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q			Williams		
<i>n</i>	0.28606591	ω	192.74444	−0.95784618	−0.28101236									
<i>a</i>	2.2811752	Ω	330.72190	+0.27312559	−0.82635810									
<i>e</i>	0.0380702	<i>i</i>	7.01048	+0.08906806	−0.48802084									
<i>P</i>	3.45	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>			5					

Residuals in seconds of arc

1998 03 31	704	0.1+	1.1−	1998 04 01	704	(2.9−	0.3−)	1999 09 09	704	0.6+	0.2−
1998 03 31	704	0.6+	0.0	1999 09 04	703	0.6+	0.0	1999 09 14	704	0.7+	0.8+
1998 03 31	704	0.3+	0.3+	1999 09 04	703	0.3+	0.1+	1999 09 14	704	1.0+	0.0
1998 03 31	704	0.9+	0.3+	1999 09 04	703	0.1−	0.2−	1999 09 14	704	0.4−	1.0+
1998 04 01	704	0.6+	0.9+	1999 09 04	703	1.3−	0.7+	1999 09 14	704	1.3−	0.9−
1998 04 01	704	2.0−	0.1+	1999 09 09	704	0.2+	0.3−	1999 09 14	704	0.0	0.4−
1998 04 01	704	(2.4+	0.0)	1999 09 09	704	0.1−	0.1−				
1998 04 01	704	0.7−	0.5−	1999 09 09	704	0.2−	0.6−				

1999 RK₁₆₉ = **1978 WM**₁₇ = **1996 BE**₉ = **1997 HM**₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q			Williams		
<i>n</i>	0.18027647	ω	237.21720	−0.45121137	−0.89115445									
<i>a</i>	3.1034400	Ω	239.67472	+0.83606372	−0.40352355									
<i>e</i>	0.1190423	<i>i</i>	3.15161	+0.31209895	−0.20739453									
<i>P</i>	5.47	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>			0					

Residuals in seconds of arc

1978 11 30	675	0.2−	0.2−	1997 04 30	704	0.1+	0.3+	1999 09 07	704	(2.3+	0.0)
1978 12 01	675	0.2+	0.0	1997 04 30	704	0.2+	0.2+	1999 09 07	704	0.4+	0.8−
1996 01 20	691	0.0	0.4+	1997 04 30	704	0.0	1.5−	1999 09 07	704	0.2−	0.6−
1996 01 20	691	0.0	0.2+	1997 05 01	704	0.1+	0.1+	1999 09 09	704	0.1−	0.5−
1996 01 20	691	0.1−	0.2−	1997 05 01	704	0.3+	0.3+	1999 09 09	704	0.1+	0.3+
1996 01 21	691	0.1+	0.1−	1997 05 01	704	0.2−	0.1+	1999 09 09	704	0.4−	0.1+
1996 01 21	691	0.2+	0.0	1997 05 01	704	0.2+	0.1−	1999 09 14	704	0.4−	0.5−
1996 01 21	691	0.2−	0.1−	1997 05 01	704	0.3+	0.4−	1999 09 14	704	0.4+	0.5+
1997 04 02	704	0.5+	0.6+	1999 09 04	703	0.0	0.0	1999 09 14	704	0.1−	0.2−
1997 04 02	704	0.5−	0.6+	1999 09 04	703	0.6+	0.2+	1999 09 14	704	0.2−	0.4+
1997 04 30	704	0.8−	0.1−	1999 09 04	703	0.2+	0.3+	1999 09 14	704	0.2+	0.0
1997 04 30	704	0.3−	0.1+	1999 09 04	703	0.6−	1.0+				

1999 RD₁₉₁ = **1996 XF**₃₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q			Williams		
<i>n</i>	0.21640883	ω	322.36644	−0.05061505	+0.98555738									
<i>a</i>	2.7475951	Ω	304.17390	−0.86230659	−0.12475753									
<i>e</i>	0.1086329	<i>i</i>	11.26379	−0.50385064	+0.11450855									
<i>P</i>	4.55	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>			4					

Residuals in seconds of arc

1996 12 08	691	0.2−	0.2+	1999 09 09	704	0.0

M.P.C. 39314

1999 09 05	703	0.9−	0.0	1999 09 11	704	0.2+	0.4−	1999 09 30	703	0.0	1.9+
1999 09 05	703	1.1−	0.9+	1999 09 11	704	0.3−	0.2−	1999 09 30	703	0.1−	0.3+
1999 09 09	704	1.3+	0.6−	1999 09 11	704	0.0	0.2+	1999 09 30	703	0.7−	0.2−
1999 09 09	704	1.0+	0.2−	1999 09 11	704	0.5−	0.0				
1999 09 09	704	0.1−	0.1−	1999 09 11	704	1.4+	0.9−				

1999 RH₁₉₁ = 1998 HF₁₃₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		105.14705		(2000.0)		P		Q	
<i>n</i>		0.23622000	ω	168.08239		−0.11781339		+0.98906658	
<i>a</i>		2.5917411	Ω	95.10454		−0.91825117		−0.07449979	
<i>e</i>		0.1368063	<i>i</i>	5.10902		−0.37806718		−0.12726777	
<i>P</i>		4.17	<i>H</i>	15.1		<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 04 19	704	2.0+	0.3+	1999 09 08	703	1.7−	0.4+	1999 09 11	704	0.6+	0.5−
1998 04 19	704	1.2−	1.4+	1999 09 08	703	0.8+	0.0	1999 09 11	704	0.2+	0.8−
1998 04 19	704	0.5+	0.8−	1999 09 09	704	0.6+	0.2+	1999 09 11	704	0.4+	0.4−
1998 04 19	704	0.9+	0.1+	1999 09 09	704	1.6+	0.4−	1999 09 11	704	0.6−	0.8−
1998 04 20	704	0.5−	0.3+	1999 09 09	704	0.1−	0.7+	1999 09 13	704	0.0	0.4+
1998 04 20	704	0.2−	0.9−	1999 09 11	704	0.2+	0.7−	1999 09 13	704	0.5−	1.2+
1998 04 20	704	0.1+	0.8+	1999 09 11	704	0.3+	0.0	1999 09 13	704	0.8+	0.2−
1998 04 20	704	1.7−	1.2−	1999 09 11	704	0.0	0.9+	1999 09 13	704	1.1−	0.2+
1999 09 08	703	1.2−	0.1−	1999 09 11	704	0.4+	0.1+				
1999 09 08	703	0.2−	0.3+	1999 09 11	704	0.7−	0.5−				

1999 RQ₁₉₂ = 1997 CB₁₁ = 1997 CD₃₀ = 1998 KB₁₃

Id. A. Doppler, G. V. Williams (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		104.20901		(2000.0)		P		Q	
<i>n</i>		0.18937732	ω	302.99276		−0.28790969		+0.95688389	
<i>a</i>		3.0031987	Ω	310.22567		−0.86095935		−0.27622753	
<i>e</i>		0.1880945	<i>i</i>	2.88938		−0.41935308		−0.08984188	
<i>P</i>		5.20	<i>H</i>	14.6		<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 02 03	691	0.1+	0.1+	1998 05 22	704	0.6−	0.2+	1999 09 14	704	1.0−	0.6+
1997 02 03	691	0.2+	0.3−	1998 05 22	704	0.8+	0.1+	1999 09 14	703	0.2+	0.2−
1997 02 03	691	0.1+	0.2−	1998 05 24	704	1.6+	0.2+	1999 09 14	704	0.3+	1.2−
1997 02 07	691	0.4+	0.3−	1998 05 24	704	(2.5+	0.2+)	1999 09 14	704	0.1−	0.8+
1997 02 07	691	0.1+	0.3−	1998 05 24	704	0.5+	0.3+	1999 09 14	703	0.0	0.4+
1997 02 07	691	0.3+	0.2+	1998 05 24	704	0.2−	1.6−	1999 09 14	691	0.2−	0.6+
1997 02 14	691	0.8−	0.2−	1998 05 24	704	0.6+	0.3+	1999 09 14	704	0.6−	0.6−
1997 02 14	691	0.6−	0.3+	1999 09 13	704	0.8+	0.5−	1999 09 14	704	0.6+	0.3−
1998 04 21	704	1.0−	0.1+	1999 09 13	704	0.1+	0.2+	1999 09 14	703	1.3−	0.1+
1998 04 21	704	(0.6−	3.0−)	1999 09 13	704	1.2+	0.3+	1999 09 14	703	0.0	0.8+
1998 04 21	704	0.2−	1.7−	1999 09 13	704	0.2+	0.8+	1999 09 14	704	0.3+	1.8−
1998 04 21	704	0.4+	0.7+	1999 09 13	704	0.5+	0.2+	1999 09 14	704	0.5+	1.4−
1998 04 21	704	(1.6−	3.0+)	1999 09 13	704	0.3+	0.2+	1999 09 14	691	0.3−	0.2+
1998 05 01	704	0.1−	0.2−	1999 09 13	704	0.9+	1.2−	1999 09 14	691	0.1+	0.2+
1998 05 01	704	0.2+	0.3−	1999 09 13	704	0.9−	1.7+	1999 10 06	704	0.7−	0.1−
1998 05 01	704	0.7+	0.0	1999 09 14	704	1.4+	0.6+	1999 10 06	704	0.6−	0.2−
1998 05 01	704	1.2−	0.4+	1999 09 14	704	0.1−	0.3−	1999 10 06	704	0.6−	0.6−
1998 05 22	704	1.1−	0.3+	1999 09 14	704	0.7−	0.2−	1999 10 06	704	0.2−	0.4−
1998 05 22	704	0.4+	0.2+	1999 09 14	704	0.2+	0.1−	1999 10 06	704	0.8−	0.2−
1998 05 22	704	1.0−	0.2+	1999 09 14	704	0.5+	0.6+				

1999 RM₁₉₄ = 1998 FK₄₂

Id. A. Doppler

2000 MAR. 20

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>		62.99063		(2000.0)		P		Q	
<i>n</i>		0.29263004	ω	6.36506		+0.90379396		+0.42482355	
<i>a</i>		2.2469329	Ω	328.33430		−0.39687452		+0.78669534	
<i>e</i>		0.1800992	<i>i</i>	5.66088		−0.16014707		+0.44792341	
<i>P</i>		3.37	<i>H</i>	14.9		<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 03 20	704	0.9+	0.5+	1998 04 18	704	0.8−	1.6+	1999 09 07	704	0.0	0.1+
1998 03 20	704	(2.3+	2.2+)	1998 04 18	704	1.7−	0.6−	1999 09 16	704	0.0	0.2+
1998 03 20	704	0.4+	0.8+	1998 04 18	704	(2.1−	2.2−)	1999 09 16	704	0.4−	0.7−
1998 03 20	704	1.1+	0.8−	1999 07 16	704	0.2−	0.5−	1999 09 16	704	0.0	0.4+
1998 03 20	704	1.8−	0.2+	1999 07 16	704	0.2+	0.3−	1999 09 16	704	0.6−	0.1−
1998 03 22	704	0.3+	0.8+	1999 07 16	704	0.3+	0.1+	1999 10 04	704	0.6+	0.0
1998 03 22	704	(0.5−	2.3+)	1999 07 16	704	0.6−	0.5−	1999 10 04	704	0.2+	0.1−
1998 03 22	704	0.0	0.5+	1999 07 16	704	1.2+	0.2+	1999 10 04	704	0.3+	0.1−
1998 03 22	704	1.7+	0.0	1999 08 12	699	0.4−	0.7+	1999 10 04	704	0.0	0.2−
1998 03 22	704	1.3−	0.9−	1999 08 12	699	0.7−	1.2+	1999 10 04	704	0.1+	0.1+
1998 03 28	704	1.2+	1.7−	1999 08 12	699	0.0	0.8+	1999 11 08	704	0.9−	0.4+
1998 03 28	704	0.2+	1.0+	1999 09 07	704	0.3+	0.2−	1999 11 08	704	0.2−	0.3−
1998 03 28	704	0.7+	1.7+	1999 09 07	704	0.1−	0.0	1999 11 08	704	0.0	0.1−
1998 03 28	704	(5.8−	0.1+)	1999 09 07	704	0.3−	0.4−	1999 11 08	704	0.1+	1.1+
1998 04 18	704	0.1+	0.6−	1999 09 07	704	0.1+	0.1+				

1999 RQ₁₉₅ = 1983 UP = 1994 UV₁ = 1998 MS₁₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>		299.87022		(2000.0)		P		Q	
<i>n</i>		0.17745789	ω	237.94762		+0.16152387		−0.98109333	
<i>a</i>		3.1362150	Ω	203.47147		+0.97142736		+0.17710162	
<i>e</i>		0.1190670	<i>i</i>	15.52568		+0.17389344		−0.07804415	
<i>P</i>		5.55	<i>H</i>	13.2		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1983 10 30	675	0.3−	0.2−	1999 09 04	703	0.3−	0.3+	1999 09 30	703	0.4−	0.3+
1983 11 04	675	0.5+	0.9−	1999 09 04	703	0.7−	0.5+	1999 10 02	704	1.3−	0.3−
1994 10 29	114	0.9+	0.3−	1999 09 04	703	0.9−	0.9+	1999 10 02	704	0.1−	0.2−
1994 10 29	114	0.5+	0.3+	1999 09 08	699	1.3−	0.1+	1999 10 02	704	0.1−	0.3−
1994 11 01	114	1.0−	1.6−	1999 09 08	699	0.5−	0.1+	1999 10 02	704	0.2−	0.2−
1994 11 01	114	0.2−	1.7−	1999 09 08	699	0.2+	0.7+	1999 10 02	704	0.1+	0.1−
1998 06 19	704	1.6+	0.4+	1999 09 08	704	0.9+	0.2+	1999 11 07	704	0.5+	0.0
1998 06 19	704	1.3+	1.2−	1999 09 08	704	0.4+	0.5−	1999 11 07	704	0.4+	0.1+
1998 06 19	704	0.2−	1.1−	1999 09 08	704	0.6+	0.8+	1999 11 07	704	0.4+	0.7+
1998 06 19	704	0.1+	0.0	1999 09 16	704	0.7+	0.0	1999 11 07	704	0.8−	0.9−
1998 06 19	704	0.7−	1.6−	1999 09 16	704	0.4+	1.7−	1999 12 03	704	1.1−	0.7+
1998 06 25	704	1.3−	0.4+	1999 09 16	704	0.7+	0.7+	1999 12 03	704	1.1−	0.9+
1998 06 25	704	1.7−	0.2+	1999 09 16	704	1.2+	0.8+	1999 12 03	704	0.2−	0.0
1998 06 25	704	0.9+	0.6−	1999 09 16	704	1.3+	0.1+	1999 12 03	704	0.8−	0.7+
1998 06 25	704	(1.3+	2.4+)	1999 09 30	703	0.4−	0.1+	1999 12 03	704	0.2−	0.1+
1998 06 25	704	(1.5−	2.2+)	1999 09 30	703	0.2+	0.4+				
1999 09 04	703	0.7+	0.1−	1999 09 30	703	0.3+	0.0				

1999 RS₁₉₇ = 1998 FJ₉₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>		102.58820		(2000.0)		P		Q	
<i>n</i>		0.25225676	ω	345.09156		+0.02880883		+0.99259403	
<i>a</i>		2.4806996	Ω	286.45181		−0.90404834		−0.02449640	
<i>e</i>		0.1762275	<i>i</i>	7.06823		−0.42645827		+0.11898326	
<i>P</i>		3.91	<i>H</i>	14.8		<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

2000 MAR. 20

M.P.C. 39315

1998 03 31	704	0.4−	0.7−	1999 09 04	703	0.9−	0.1+	1999 10 01	703	0.4−	0.5+
1998 04 01	704	0.4−	1.9+	1999 09 04	703	0.4+	0.6+	1999 10 01	703	0.3−	0.3+
1998 04 01	704	0.6+	0.4−	1999 09 04	703	0.6+	0.2−	1999 10 01	703	0.3−	0.2+
1998 04 01	704	0.3−	0.6+	1999 09 08	704	0.0	0.1−	1999 10 04	704	0.2+	0.5+
1998 04 01	704	1.2+	0.1−	1999 09 08	704	0.4+	0.5−	1999 10 04	704	0.4+	0.8−
1998 04 01	704	0.9−	1.1+	1999 09 08	704	0.2+	0.4−	1999 10 04	704	0.5+	0.6−
1999 07 23	704	0.3+	0.0	1999 09 08	704	0.4+	0.5+	1999 10 04	704	1.1+	0.4−
1999 07 23	704	0.4−	0.5−	1999 09 16	704	0.0	0.1−				
1999 07 23	704	0.7+	0.2+	1999 09 16	704	0.2−	0.5+				

1999 RC₁₉₉ = 1997 AT₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	45.91785		(2000.0)	P	Q		
<i>n</i>	0.22728081	ω	30.63143	+0.88657129	+0.42963375		
<i>a</i>	2.6592605	Ω	302.95344	−0.45494687	+0.74268147		
<i>e</i>	0.1946352	<i>i</i>	11.79212	−0.08375374	+0.51365269		
<i>P</i>	4.34	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 01 02	691	0.1−	0.2+	1999 09 05	703	1.0−	0.4−	1999 09 30	703	0.2+	1.1+
1997 01 02	691	0.3−	0.1−	1999 09 05	703	1.1−	0.2+	1999 09 30	703	(4.1+	2.5+)
1997 01 02	691	0.0	0.1−	1999 09 10	704	0.2+	0.0	1999 09 30	703	1.7+	0.4+
1997 01 10	691	0.3+	0.1−	1999 09 10	704	0.9+	0.8+	1999 09 30	703	0.6−	0.3−
1997 01 10	691	0.3−	0.1−	1999 09 10	704	0.4−	0.8−	1999 10 04	704	0.1−	1.5+
1997 01 10	691	0.2+	0.2−	1999 09 16	704	0.8+	1.4−	1999 10 04	704	1.6−	0.4+
1999 09 05	703	0.6+	0.6+	1999 09 16	704	0.5+	0.4−	1999 10 04	704	0.6−	0.5−
1999 09 05	703	0.2−	0.3+	1999 09 16	704	0.6+	1.7−				

1999 RJ₂₁₀ = 1996 CA₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	356.50982		(2000.0)	P	Q		
<i>n</i>	0.19123223	ω	92.74315	+0.57025356	−0.81526760		
<i>a</i>	2.9837470	Ω	321.90992	+0.67378784	+0.53436008		
<i>e</i>	0.0943585	<i>i</i>	9.39902	+0.46991576	+0.22315475		
<i>P</i>	5.15	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 02 15	566	0.0	0.1−	1999 09 05	703	0.1+	0.9+	1999 10 03	704	0.0	0.1−
1996 02 15	566	0.3+	0.3+	1999 09 05	703	0.8+	0.9+	1999 10 03	704	0.1−	0.4+
1996 02 15	566	0.3−	0.0	1999 09 08	704	0.0	0.3−	1999 10 03	704	0.0	0.3+
1996 02 16	566	0.1−	0.3−	1999 09 08	704	0.0	0.2+	1999 10 03	704	0.1+	0.1+
1996 02 16	566	0.2−	0.3−	1999 09 08	704	0.3+	0.2+	1999 11 04	704	0.2+	0.4−
1996 02 16	566	0.0	0.3−	1999 09 08	704	0.1+	1.0+	1999 11 04	704	0.2−	0.7−
1999 07 23	704	0.2+	0.2−	1999 09 08	704	0.4−	0.7+	1999 11 04	704	0.1−	0.8−
1999 07 23	704	1.0+	1.2−	1999 09 18	704	0.3−	0.0	1999 11 04	704	0.1−	0.8−
1999 07 23	704	0.2+	1.1−	1999 09 18	704	0.5−	0.2+	1999 11 04	704	1.0−	0.8−
1999 07 23	704	1.4+	1.1−	1999 09 18	704	0.7−	0.7+	1999 11 12	703	0.3+	0.5+
1999 07 23	704	1.0+	1.4−	1999 09 18	704	0.7−	0.1+	1999 11 12	703	0.2+	0.4+
1999 09 05	703	0.2+	0.1+	1999 09 18	704	0.9−	0.1−	1999 11 12	703	0.1+	0.1−
1999 09 05	703	0.0	0.7+	1999 10 03	704	0.0	0.1−	1999 11 12	703	0.1+	0.3+

1999 RK₂₁₀ = 1998 KU₃₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	38.00990		(2000.0)	P	Q		
<i>n</i>	0.25350579	ω	122.59603	+0.96186407	−0.24497341		
<i>a</i>	2.4725446	Ω	251.83343	+0.18769345	+0.91471335		
<i>e</i>	0.0679254	<i>i</i>	7.35758	+0.19896903	+0.32138376		
<i>P</i>	3.89	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 05 22	704	0.9−	0.7−	1999 09 08	704	1.1+	0.0	1999 11 04	704	0.1−	0.2−
1998 05 22	704	0.3−	1.3+	1999 09 18	704	0.1−	0.0	1999 11 04	704	0.2−	0.3−
1998 05 22	704	0.8+	0.6−	1999 09 18	704	0.2−	0.4+	1999 11 04	704	0.4−	0.3−
1998 05 22	704	0.7−	1.1−	1999 09 18	704	0.5−	0.7−	1999 11 04	704	1.2−	0.3+
1998 05 24	704	0.9+	1.0−	1999 09 18	704	0.3+	0.2+	1999 11 12	703	0.9−	1.4+
1998 05 24	704	0.8−	0.2+	1999 09 18	704	0.7−	0.6−	1999 11 12	703	0.4+	0.8+
1998 05 24	704	0.9+	0.2+	1999 10 03	704	1.2+	0.4−	1999 11 12	703	0.4+	0.6+
1998 05 24	704	0.7+	1.5+	1999 10 03	704	0.4−	0.3+	1999 11 12	703	0.1−	0.2+
1998 05 24	704	0.6−	1.1+	1999 10 03	704	0.2+	1.2−	1999 11 13	699	0.5−	0.1+
1999 09 05	703	0.4−	0.1−	1999 10 03	704	0.9+	0.2+	1999 11 13	699	1.2−	0.1−
1999 09 05	703	0.4−	0.4+	1999 10 03	704	0.8−	0.6−	1999 11 13	699	0.6−	0.1−
1999 09 05	703	0.3+	0.6+	1999 10 30	703	0.0	0.1−	1999 12 05	704	0.4+	0.6+
1999 09 05	703	0.6+	0.2+	1999 10 30	703	0.6+	0.2−	1999 12 05	704	0.1−	1.0+
1999 09 08	704	0.4+	0.3−	1999 10 30	703	0.2−	1.0+	1999 12 05	704	1.2+	0.9+
1999 09 08	704	0.1+	0.1+	1999 10 30	703	0.0	0.2+	1999 12 05	704	0.0	1.1−
1999 09 08	704	0.1−	0.8−	1999 11 04	704	0.3+	0.5−	1999 12 05	704	0.4+	1.1−

1999 RA₂₁₁ = 1998 FA₁₁₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	127.94689		(2000.0)	P	Q		
<i>n</i>	0.26772482	ω	348.50584	+0.06966237	+0.99192581		
<i>a</i>	2.3842052	Ω	285.42188	−0.90631882	+0.01854546		
<i>e</i>	0.1198919	<i>i</i>	6.31137	−0.41681333	+0.12545617		
<i>P</i>	3.68	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 03 31	704	0.9+	1.1−	1999 09 05	703	2.0−	0.5+	1999 09 18	704	0.3+	0.0
1998 03 31	704	0.3−	0.9−	1999 09 05	703	0.3+	1.1−	1999 09 18	704	0.2−	0.6+
1998 03 31	704	0.7−	0.3−	1999 09 05	703	0.8+	1.1−	1999 09 18	704	0.1−	0.0
1998 03 31	704	0.1−	1.4−	1999 09 08	704	0.1−	0.1−	1999 09 18	704	0.7+	0.4−
1998 04 01	704	0.6+	0.1+	1999 09 08	704	0.8−	0.3+	1999 10 03	704	0.3+	0.3−
1998 04 01	704	1.4+	1.7+	1999 09 08	704	0.1−	0.6+	1999 10 03	704	0.6+	0.1−
1998 04 01	704	1.3−	0.1−	1999 09 08	704	0.2+	0.7+	1999 10 03	704	0.3+	0.5+
1998 04 01	704	0.6−	1.7+	1999 09 08	704	0.3+	0.0	1999 10 03	704	0.1−	0.1+
1999 09 05	703	0.6−	0.1+	1999 09 18	704	0.3+	0.2−	1999 10 03	704	0.1−	0.4−

1999 RL₂₁₁ = 1978 WQ₂₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	28.69454		(2000.0)	P	Q		
<i>n</i>	0.18799686	ω	137.31919	+0.95455415	−0.27475587		
<i>a</i>	3.0178825	Ω	238.97100	+0.22394044	+0.91688456		
<i>e</i>	0.1540351	<i>i</i>	7.74495	+0.19666484	+0.28953741		
<i>P</i>	5.24	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1978 11 28	675	0.2−	0.6+	1999 10 01	703	0.1+	0.1+	1999 11 16	704	0.7+	0.6+
1978 11 29	675	0.4+	1.2−	1999 10 01	703	0.1+	0.0	1999 11 16	704	0.0	0.6−
1999 07 23	704	0.8−	0.2+	1999 10 03	704	0.5+	1.1−	1999 11 16	704	0.1+	0.4−
1999 07 23	704	0.8−	0.1+	1999 10 03	704	0.3+	0.3−	1999 11 16	704	1.1+	0.2+
1999 07 23	704	0.5−	0.3+	1999 10 03	704	0.3+	0.4−	1999 11 16	704	0.3−	0.4−
1999 07 23	704	1.7−	1.5+	1999 10 03	704	0.6+	0.5−	1999 11 27	699	0.7−	0.7+
1999 09 08	704	1.0+	0.3−	1999 10 03	704	0.2+	0.3−	1999 11 27	699	1.0−	0.7−
1999 09 08	704	0.7−	0.7−	1999 11 04	703	0.1−	0.2+	1999 11 27	699	0.2−	0.8+
1999 09 08	704	1.3−	0.1−	1999 11 04	703	0.1+	0.0	1999 12 13	699	0.4−	0.5−
1999 09 18	704	0.4+	0.6+	1999 11 04	704	0.3+	0.1−	1999 12 13	699	0.2−	0.9+
1999 09 18	704	0.5+	0.1−	1999 11 04	703	0.1+	0.1−	1999 12 13	699	0.1+	0.4+
1999 09 18	704	0.1−	0.3+	1999 11 04	704	0.3+	0.1−	2000 01 07	704	1.3−	0.9+
1999 09 18	704	0.6+	0.5−	1999 11 04	703	0.1−	0.1−	2000 01 07	704	0.2−	0.7+
1999 09 18	704	0.1−	0.0	1999 11 04	704	0.5+	0.0	2000 01 07	704	0.7−	0.5−
1999 10 01	703	0.3+	0.2+	1999 11 04	704	0.4+	0.0				
1999 10 01	703	0.0	0.4+	1999 11 04	704	0.2+	0.4+				

1999 SG₇ = 1998 HN₁₁₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	12.29756		(2000.0)		P		Q
<i>n</i>	0.25547006	ω	266.29294		+0.92953510		-0.35103708
<i>a</i>	2.4598542	Ω	114.23009		+0.36789272		+0.86224656
<i>e</i>	0.1531125	<i>i</i>	7.10935		+0.02488867		+0.36510798
<i>P</i>	3.86	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 04 21	704	0.0	0.3+	1998 04 23	704	0.1-	1.3-	1998 05 28	704	1.2-	0.8-
1998 04 21	704	0.1+	1.3-	1998 04 23	704	1.1-	0.4+	1998 05 28	704	0.9-	0.9+
1998 04 21	704	0.4-	1.4+	1998 04 24	704	1.1+	1.1-	1999 09 29	704	0.2+	0.2-
1998 04 21	704	0.9+	0.8+	1998 04 24	704	(0.5-	2.4-)	1999 09 29	704	0.5+	1.9-
1998 04 21	704	(5.8-	0.1-)	1998 04 24	704	0.8-	1.7-	1999 09 29	704	0.1+	0.0
1998 04 23	704	0.5+	0.7+	1998 04 24	704	0.1-	0.5+	1999 09 29	704	0.2+	0.7-
1998 04 23	704	0.9-	0.0	1998 05 23	704	1.6+	0.2+	1999 09 30	704	0.1+	0.4+
1998 04 23	704	0.0	0.2+	1998 05 23	704	0.3+	0.1-	1999 09 30	704	0.2-	0.3+
1998 04 23	704	1.4+	0.6+	1998 05 23	704	0.6+	0.7-	1999 09 30	704	0.4-	0.5+
1998 04 23	704	0.6-	0.3-	1998 05 23	704	(3.8-	3.0-)	1999 09 30	704	0.4-	0.9+
1998 04 23	704	0.2+	0.5+	1998 05 28	704	0.5+	0.1+	1999 09 30	704	0.2-	0.7+
1998 04 23	704	0.6-	0.6-	1998 05 28	704	(2.5-	4.1-)				
1998 04 23	704	0.5+	0.9+	1998 05 28	704	0.8-	0.3+				

1999 TL₁₉ = 1995 WN₁₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	100.95313		(2000.0)		P		Q
<i>n</i>	0.23183717	ω	133.28599		+0.60161972		+0.79872996
<i>a</i>	2.6243031	Ω	173.68001		-0.75488394		+0.57227406
<i>e</i>	0.0856797	<i>i</i>	4.78061		-0.26115886		+0.18583017
<i>P</i>	4.25	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1995 11 16	691	0.1+	0.2+	1998 05 22	704	1.0-	1.8-	1999 11 05	704	0.6+	0.5-
1995 11 16	691	0.3+	0.0	1998 05 22	704	1.1-	0.5-	1999 11 05	704	0.4+	0.5+
1995 11 16	691	0.1+	0.1+	1999 10 04	703	0.6-	0.2+	1999 11 05	704	0.2+	0.1+
1995 11 21	691	0.3-	0.1-	1999 10 04	703	1.0-	0.7+	1999 11 05	704	0.2+	0.2-
1995 11 21	691	0.0	0.0	1999 10 04	703	0.7-	0.4+	1999 11 15	704	0.0	0.1-
1995 11 21	691	0.1-	0.1+	1999 10 04	703	0.3-	0.0	1999 11 15	704	0.1-	0.1-
1997 02 08	566	0.1-	0.2-	1999 10 09	365	0.0	1.0-	1999 11 15	704	0.3+	0.4-
1997 02 08	566	0.0	0.4-	1999 10 09	365	0.7+	0.1-	1999 11 15	704	0.2-	0.2-
1997 02 08	566	0.2-	0.3-	1999 10 17	365	0.6+	0.1-	1999 11 15	704	0.1+	0.1+
1998 05 22	704	1.2+	0.2-	1999 10 17	365	0.5+	0.2-				
1998 05 22	704	0.8+	1.2+	1999 11 05	704	0.2-	0.7-				

1999 TK₂₅ = 1995 QW₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	184.89788		(2000.0)		P		Q
<i>n</i>	0.25925743	ω	228.07503		-0.65639484		+0.75441708
<i>a</i>	2.4358390	Ω	0.90068		-0.67576810		-0.58747975
<i>e</i>	0.1602268	<i>i</i>	2.99737		-0.33538528		-0.29278390
<i>P</i>	3.80	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 08 23	327	0.7-	0.3-	1999 10 06	704	0.1+	0.4+	1999 11 05	704	0.3+	1.2+
1995 08 23	327	0.1-	0.5+	1999 10 06	704	0.4+	0.0	1999 11 05	704	0.4+	0.0
1995 08 23	327	0.7+	0.2+	1999 10 06	704	0.3-	0.1-	1999 11 14	704	0.2+	0.1-
1995 08 23	327	0.1-	0.0	1999 10 06	704	0.1+	0.2+	1999 11 14	704	0.0	0.4-
1995 08 25	327	0.1+	0.1+	1999 10 20	704	0.6+	0.0	1999 11 14	704	0.4-	0.2-
1995 08 25	327	0.3-	0.3-	1999 10 20	704	0.0	0.0	1999 11 14	704	1.2-	0.0
1995 08 25	327	0.3+	0.2-	1999 10 20	704	0.0	0.3-	1999 11 14	704	0.5-	0.1+
1999 10 03	704	0.4-	0.2-	1999 10 20	704	0.5-	0.9-	1999 11 16	704	1.2+	0.3-
1999 10 03	704	0.6-	1.0+	1999 10 20	704	0.1+	1.5-	1999 11 16	704	0.5+	0.4-
1999 10 03	704	0.1-	0.4-	1999 11 05	704	(0.9+	2.3+)	1999 11 16	704	0.4+	0.0

1999 10 03	704	0.3+	0.2+	1999 11 05	704	0.4-	0.4+	1999 11 16	704	0.2-	0.7+
1999 10 06	704	0.0	0.3+	1999 11 05	704	0.0	0.4+				

1999 TJ₂₇ = 1997 GQ₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	93.90633		(2000.0)		P		Q
<i>n</i>	0.22537158	ω	326.58436		+0.82032118		+0.57190245
<i>a</i>	2.6742578	Ω	358.53179		-0.51704550		+0.74098839
<i>e</i>	0.0742861	<i>i</i>	1.93286		-0.24441178		+0.35194289
<i>P</i>	4.37	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 04 08	684	0.1+	0.0	1999 10 29	703	0.8-	0.7+	1999 11 14	704	0.1-	0.4-
1997 04 08	684	0.0	0.5-	1999 10 29	703	0.6-	0.4+	1999 11 16	704	0.6+	0.2+
1997 04 08	684	0.1+	0.1-	1999 11 04	704	0.5+	0.3-	1999 11 16	704	0.5+	0.0
1997 04 09	684	0.1-	0.0	1999 11 04	704	0.3+	0.0	1999 11 16	704	1.3+	0.0
1997 04 09	684	0.1-	0.2+	1999 11 04	704	0.1+	0.6+	1999 11 16	704	0.1+	0.2-
1997 04 09	684	0.0	0.2+	1999 11 04	704	0.8+	0.3+	1999 11 16	704	0.1+	0.4+
1999 10 03	704	0.5-	0.3+	1999 11 04	704	0.3+	0.8+	1999 12 04	703	0.1-	0.3-
1999 10 03	704	0.1+	0.2+	1999 11 11	703	0.8-	0.1+	1999 12 04	699	0.4-	0.5+
1999 10 03	704	0.3-	0.7-	1999 11 11	703	0.6+	0.1-	1999 12 04	703	0.7-	0.7+
1999 10 03	704	0.5-	0.3+	1999 11 11	703	0.5-	0.1-	1999 12 04	703	0.5-	0.3-
1999 10 03	704	0.0	0.4-	1999 11 11	703	0.3-	0.1-	1999 12 04	699	0.7+	0.0
1999 10 06	704	0.1+	0.2-	1999 11 12	699	0.0	0.2+	1999 12 04	703	1.0-	1.4+
1999 10 06	704	0.3+	0.8-	1999 11 12	699	0.7+	0.3-	1999 12 04	699	0.8+	0.3-
1999 10 06	704	0.2+	0.1-	1999 11 12	699	1.0-	0.3-	1999 12 07	704	0.1-	0.3+
1999 10 06	704	0.1-	0.3-	1999 11 14	704	0.0	0.1-	1999 12 07	704	0.2+	0.1+
1999 10 06	704	0.1+	0.4-	1999 11 14	704	0.4-	0.1-	1999 12 07	704	0.3+	0.6-
1999 10 29	703	0.3-	0.6+	1999 11 14	704	0.0	0.3-	1999 12 07	704	0.8+	0.8-
1999 10 29	703	0.1+	0.1+	1999 11 14	704	0.4+	0.4-	1999 12 07	704	0.8-	0.7-

1999 TA₂₈ = 1995 SH₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	58.51622		(2000.0)		P		Q
<i>n</i>	0.25919593	ω	356.29918		+0.99822060		+0.05962873
<i>a</i>	2.4362242	Ω	0.28260		-0.05347885		+0.89691390
<i>e</i>	0.1864183	<i>i</i>	2.59826		-0.02637515		+0.43816649
<i>P</i>	3.80	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 08 24	809	0.6+	0.6+	1995 09 27	691	0.1-	0.4+	1999 11 04	704	0.2+	1.0-
1995 08 26	809	1.1-	0.0	1995 09 27	691	0.2-	0.1+	1999 11 04	704	0.7-	0.7-
1995 09 18	809	1.0+	0.3-	1999 10 03	704	0.2+	0.2+	1999 11 14	704	0.5-	0.7+
1995 09 19	809	1.4+	0.1+	1999 10 03	704	0.9+	0.0	1999 11 14	704	0.3+	0.2+
1995 09 19	809	0.4-	0.6-	1999 10 03	704	0.3-	0.9-	1999 11 14	704	0.0	0.5+
1995 09 20	809	0.1-	0.4-	1999 10 06	704	0.1+	0.3-	1999 11 14	704	0.3-	0.6+
1995 09 22	809	0.2+	0.3-	1999 10 06	704	0.3+	0.3-	1999 11 14	704	0.2-	0.4+
1995 09 22	691	1.1-	0.3+	1999 10 06	704	0.2-	0.4-	1999 11 16	704	0.1+	0.3+
1995 09 22	691	0.8-	0.0	1999 10 06	704	0.1+	0.2+	1999 11 16	704	0.2-	1.2+
1995 09 22	691	0.6-	0.3-	1999 10 06	704	0.3+	0.0	1999 11 16	704	0.2-	0.8-
1995 09 23	809	1.4+	0.7+	1999 11 04	704	0.4-	0.6-	1999 11 16	704	0.0	1.2+
1995 09 23	809	(7.6+	3.6-)	1999 11 04	704	0.1+	0.4-	1999 11 16	704	0.4+	0.2-
1995 09 27	691	0.7-	0.5+	1999 11 04	704	0.3+	0.4-				

1999 TC₃₀ = 1998 HA₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	66.19931		(2000.0)		P		Q
<i>n</i>	0.20318360	ω	115.39483		+0.67091084		+0.74037877
<i>a</i>	2.8655651	Ω	196.94962		-0.72115405		+0.63843295
<i>e</i>	0.2414682	<i>i</i>	8.17361		-0.17267163		+0.21033935
<i>P</i>	4.85	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 04 21	704	0.5-	1.6+	1998 04 22	704	0.6-	0.1-	1999 10 04	704	0.5-	0.5+
1998 04 21	704	(1.5-	2.5+)	1998 04 22	704	1.0+	1.0+	1999 10 06	704	0.1+	0.3-

2000 MAR. 20

M.P.C. 39317

1998 04 21	704	(2.1−	3.0+)	1998 04 22	704	(0.5+ 2.0−)	1999 10 06	704	0.1−	0.3−
1998 04 21	704	1.3−	0.9−	1999 10 04	704	0.8+ 0.0	1999 10 06	704	0.2−	0.0
1998 04 22	704	0.9+ 1.0−		1999 10 04	704	0.7+ 0.5−	1999 10 06	704	0.2−	0.1−
1998 04 22	704	0.4+ 0.6−		1999 10 04	704	0.3− 0.6+	1999 10 06	704	0.3−	0.0

1999 TP₃₀ = 1995 SB₃₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	30.50484		(2000.0)		P		Q
n	0.25571602	ω	63.10887		+0.92354236		−0.38323759
a	2.4582767	Ω	319.42122		+0.34372147		+0.84348811
e	0.2129679	i	1.24094		+0.17007371		+0.37637315
P	3.85	H	16.1	G	0.15	U	4

Residuals in seconds of arc

1995 09 21	691	0.0	0.1+	1999 10 04	704	0.3+	0.0	1999 11 05	704	0.1+	0.3+
1995 09 21	691	0.1−	0.1−	1999 10 04	704	0.1−	0.4−	1999 11 05	704	0.0	0.4−
1995 09 21	691	0.1+	0.1−	1999 10 04	704	0.4−	0.2+	1999 11 05	704	0.0	0.5−
1995 09 26	691	0.1+	0.1−	1999 10 06	704	0.1+	0.2+	1999 11 27	699	0.8−	0.3−
1995 09 26	691	0.1+	0.1−	1999 10 06	704	0.1−	0.4+	1999 11 27	699	0.2+	0.8+
1995 09 26	691	0.1+	0.1−	1999 10 06	704	0.0	0.4+	1999 11 27	699	1.1−	0.6+
1999 10 01	703	0.3−	0.1+	1999 10 06	704	0.3+	0.2+	1999 12 07	704	(1.3−	2.3+)
1999 10 01	703	0.4−	0.4−	1999 10 30	703	1.1−	0.1+	1999 12 07	704	0.4−	0.1+
1999 10 01	703	0.1+	0.3+	1999 10 30	703	0.1−	0.4−	1999 12 07	704	1.1+	0.8−
1999 10 01	703	0.3−	0.3−	1999 10 30	703	0.2−	0.2−	1999 12 07	704	0.6+	1.2−
1999 10 04	704	0.2+	0.2−	1999 10 30	703	0.5+	0.3−				
1999 10 04	704	0.3+	0.0	1999 11 05	704	1.5+	1.6+				

1999 UD₃₁ = 1996 XT₁₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	71.25009		(2000.0)		P		Q	
n	0.27382378	ω	203.67613		+0.86571018		+0.49978077	
a	2.3486697	Ω	126.30960		−0.45358463		+0.80665965	
e	0.1906678	i	1.96704		−0.21167631		+0.31546694	
P	3.60	H	15.7		G	0.15	U	5

Residuals in seconds of arc

1996 12 12	046	0.0	0.4−	1999 10 02	703	0.2+	0.3+	1999 11 01	703	0.4−	0.1+
1996 12 12	046	0.3+	0.1+	1999 10 04	704	0.8+	0.2+	1999 11 01	703	0.4−	0.6+
1996 12 12	046	0.2−	0.4−	1999 10 04	704	1.7+	1.9−	1999 11 05	691	0.4+	0.1+
1996 12 12	046	0.1+	0.7−	1999 10 04	704	0.0	1.0−	1999 11 05	691	0.3+	0.1−
1996 12 13	046	0.0	0.1−	1999 10 04	704	0.8−	1.1−	1999 11 05	691	0.4+	0.1−
1996 12 13	046	0.1+	0.5+	1999 10 31	691	0.6+	0.2−	1999 12 07	704	0.1−	1.2+
1996 12 13	046	0.4−	0.4+	1999 10 31	691	0.5+	0.2−	1999 12 07	704	0.1−	0.1+
1999 10 02	703	1.1−	0.7+	1999 10 31	691	0.6+	0.1−	1999 12 07	704	0.4−	0.5+
1999 10 02	703	0.1−	0.6+	1999 11 01	703	1.3−	0.2+	1999 12 07	704	0.5+	0.1−
1999 10 02	703	0.4−	0.5+	1999 11 01	703	0.3−	0.7+	1999 12 07	704	0.8−	0.6−

1999 UQ₃₅ = 1997 EY₄₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	311.53550		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.26403135	ω	256.73160		−0.62649739		−0.77780315
a	2.4063884	Ω	232.17506		+0.73746965		−0.57068344
e	0.0628020	i	3.64613		+0.25226877		−0.26332996
P	3.73	H	16.3	G	0.15	U	5

Residuals in seconds of arc

1997 03 10	704	0.1−	0.5−	1999 11 06	691	0.3+	0.5−	1999 11 12	704	0.6−	0.1+
1997 03 10	704	0.6−	0.0	1999 11 09	704	0.6−	0.0	1999 11 14	704	0.0	0.2−
1997 03 12	704	0.7+	0.6+	1999 11 09	704	0.4+	0.5+	1999 11 14	704	0.6+	0.2−
1997 03 12	704	0.1+	0.0	1999 11 09	704	0.5−	0.4−	1999 11 14	704	0.5+	0.1−
1999 10 30	691	0.1−	0.0	1999 11 09	704	0.2−	0.6+	1999 11 14	704	0.6+	0.2+

1999 10 30	691	0.1−	0.3−	1999 11 12	704	0.6−	0.5+	1999 11 14	704	0.7−	0.5−
1999 10 30	691	0.1+	0.0	1999 11 12	704	0.4+	0.7+	1999 11 17	691	0.1+	0.4−
1999 11 06	691	0.4+	0.4−	1999 11 12	704	0.1−	0.7+	1999 11 17	691	0.2+	0.6−
1999 11 06	691	0.3+	0.4−	1999 11 12	704	0.4−	1.3+	1999 11 17	691	0.0	0.5−

1999 VW₁₁ = 1984 UR₄ = 1989 SU₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler

M	10.52721		(2000.0)		P		Q
n	0.19181858	ω	330.72291		+0.94562232		−0.27447464
a	2.9776634	Ω	46.32191		+0.32503446		+0.77711548
e	0.1104991	i	13.96477		+0.01228922		+0.56635254
P	5.14	H	13.2	G	0.15	U	3

Residuals in seconds of arc

1984 10 20	095	0.8−	0.9+	1999 09 30	704	0.2+	0.2−	1999 11 11	678	0.5+	0.1+
1989 09 29	675	0.5+	1.4−	1999 09 30	704	0.1−	0.0	1999 11 11	678	1.0+	0.3−
1989 09 29	675	0.7+	0.1+	1999 09 30	704	0.0	0.1+	1999 11 11	678	0.0	0.6−
1999 09 09	699	0.7−	0.4+	1999 11 09	699	0.3−	0.6+	1999 11 17	678	0.6+	1.1+
1999 09 09	699	1.0−	0.1+	1999 11 09	699	0.4−	0.1+	1999 11 17	678	0.0	0.8+
1999 09 09	699	0.9−	0.3+	1999 11 09	699	0.0	0.2+	1999 11 27	678	0.1+	0.0
1999 09 11	704	0.2+	0.1+	1999 11 10	678	0.2−	0.2+	1999 11 27	678	1.0−	0.2+
1999 09 11	704	0.1+	0.1+	1999 11 10	678	0.4+	0.9−	1999 12 01	704	0.7−	0.1+
1999 09 11	704	0.1+	0.3+	1999 11 10	678	0.8−	1.2−	1999 12 01	704	1.1−	0.9+
1999 09 11	704	0.5+	0.2+	1999 11 10	704	0.7+	0.7−	1999 12 01	704	0.2+	0.2+
1999 09 11	704	0.3+	0.1−	1999 11 10	704	0.5+	0.9−	1999 12 01	704	0.2−	0.2−
1999 09 30	704	0.0	0.2−	1999 11 10	704	0.7+	0.4−	1999 12 01	704	0.1+	0.8+
1999 09 30	704	0.1+	0.2−	1999 11 10	704	0.7+	0.5−				

1999 VJ₁₆ = 1984 JJ₁

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	64.23442		(2000.0)		P		Q
n	0.21756260	ω	123.41803		+0.96096718		+0.23873517
a	2.7378725	Ω	223.23816		−0.26776890		+0.92967603
e	0.0774880	i	11.77661		+0.06958369		+0.28054945
P	4.53	H	14.2	G	0.15	U	2

Residuals in seconds of arc

1984 05 02	691	0.0	0.2−	1999 11 02	691	0.0	0.1−	1999 11 14	704	0.5+	0.3+
1984 05 02	691	0.4−	0.3−	1999 11 02	691	0.0	0.2−	1999 11 14	704	0.4+	0.1+
1984 05 02	691	0.4+	0.6−	1999 11 02	691	0.1+	0.3−	1999 11 14	704	0.6+	0.4+
1990 10 13	675	0.5−	0.4+	1999 11 03	691	0.2−	0.1−	1999 11 14	704	0.0	0.0
1990 10 13	675	1.2+	0.2+	1999 11 03	691	0.2−	0.1−	1999 11 16	704	0.3−	0.1+
1990 10 14	675	0.8−	0.3+	1999 11 03	691	0.1−	0.3+	1999 11 16	704	0.6+	0.6+
1990 10 14	675	0.5+	1.3+	1999 11 04	704	0.2−	0.1+	1999 11 16	704	0.2+	0.4+
1990 11 18	675	0.7−	0.1−	1999 11 04	704	0.1+	0.0	1999 11 16	704	0.4+	0.3−
1990 11 18	675	0.1−	0.2−	1999 11 04	704	0.4−	0.0	1999 11 16	704	0.2−	0.2+
1994 08 05	675	(6.3−	1.2−)	1999 11 04	703	0.1−	0.7+	1999 12 02	699	0.2−	0.6+
1998 06 19	704	(0.4−	2.9+)	1999 11 04	704	0.3−	0.2−	1999 12 02	699	1.0−	0.1−
1998 06 19	704	(2.2+	0.4+)	1999 11 04	703	0.2−	0.5+	1999 12 02	699	0.3−	0.4+
1998 06 19	704	0.8−	1.2+	1999 11 04	704	0.6−	0.1+	1999 12 07	704	0.5−	0.4+
1998 06 19	704	0.6+	0.7−	1999 11 04	703	0.5−	0.2−	1999 12 07	704	0.6+	1.3−
1999 10 03	704	0.5+	0.3+	1999 11 04	703	0.0	0.5+	1999 12 07	704	1.3−	0.3+
1999 10 03	704	1.4+	0.3−	1999 11 06	691	0.0	0.0	1999 12 07	704	0.6+	1.7−
1999 10 03	704	0.6+	0.9−	1999 11 06	691	0.1−	0.3−	1999 12 07	704	0.0	1.7−
1999 10 03	704	0.5+	0.8−	1999 11 06	691	0.0	0.1−				
1999 10 03	704	0.6−	1.0−	1999 11 14	704	0.8+	0.3+				

1999 VR₃₃ = 2000 AS₂₁₆ = 1993 SC₁₀ = 1998 RN₄₉Id. G. V. Williams (d, *MPC* 38572), A. Doppler (*MPC* 38572), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	220.86540	(2000.0)	P		Q	
<i>n</i>	0.19099989	ω 127.71963	-0.69586981	+0.71808691		
<i>a</i>	2.9861662	Ω 98.18009	-0.66228826	-0.63584296		
<i>e</i>	0.1080031	<i>i</i> 0.62452	-0.27773991	-0.28293978		
<i>P</i>	5.16	<i>H</i> 13.8	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

1993 09 22	809	0.2-	2.1-	1999 11 03	704	1.1+	0.6-	1999 12 04	703	0.8-	0.2+
1993 09 22	809	0.1-	2.1-	1999 11 09	704	0.3-	0.0	1999 12 04	703	0.3-	1.2+
1993 09 22	809	0.8-	1.8-	1999 11 09	704	0.1-	0.5-	1999 12 04	703	0.4-	0.9+
1993 09 24	809	3.2+	1.2+	1999 11 09	704	0.1-	0.7-	1999 12 04	703	0.3+	1.1+
1993 09 24	809	1.1+	1.4-	1999 11 09	704	0.4-	0.3+	1999 12 07	704	0.2+	0.1-
1993 09 24	809	0.3+	1.9-	1999 11 09	704	0.2-	0.0	1999 12 07	704	0.5-	0.1+
1998 09 14	704	1.3-	1.3+	1999 11 12	704	0.0	0.7+	1999 12 07	704	0.0	0.0
1998 09 14	704	0.2+	1.1-	1999 11 12	704	0.2+	0.5+	1999 12 07	704	0.1+	0.2-
1998 09 14	704	1.0-	1.1+	1999 11 12	704	0.9-	0.5-	1999 12 07	704	0.3-	0.5+
1998 09 14	704	0.4+	0.9+	1999 11 12	704	1.1-	1.1-	2000 01 08	691	0.1-	0.5-
1998 09 18	704	2.3-	1.3-	1999 11 16	704	0.4-	1.1-	2000 01 08	691	0.1-	0.3-
1998 09 18	704	0.0	2.4+	1999 11 16	704	0.4-	1.0-	2000 01 08	691	0.0	0.3-
1998 09 18	704	0.1-	2.1+	1999 11 16	704	1.4-	1.2-	2000 01 10	691	0.2-	0.3-
1998 09 18	704	1.1+	1.7+	1999 11 16	704	0.2-	0.9-	2000 01 10	691	0.0	0.0
1999 11 03	704	0.3+	3.2+	1999 11 27	049	1.4+	0.5+	2000 01 10	691	0.1-	0.1-
1999 11 03	704	1.4+	0.4+	1999 11 27	049	1.3+	0.3+				
1999 11 03	704	0.4+	0.8+	1999 11 27	049	1.6+	0.5+				

1999 VM₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	43.43766	(2000.0)	P		Q	
<i>n</i>	0.28075280	ω 354.17778	+0.69509887	-0.68825973		
<i>a</i>	2.3098653	Ω 51.56001	+0.66982871	+0.51510531		
<i>e</i>	0.4848553	<i>i</i> 15.37670	+0.26108822	+0.51084739		
<i>P</i>	3.51	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

1974 08 13	413	0.6+	0.3-	1999 12 29	402	0.4+	0.0	2000 02 10	610	0.3+	0.0
1974 08 13	413	0.7-	0.1-	1999 12 30	704	0.8+	0.1+	2000 02 10	610	1.1-	0.2+
1999 10 20	699	0.1-	0.9+	1999 12 30	704	0.9+	0.1-	2000 02 10	610	(2.5-	0.3+)
1999 10 20	699	0.2-	0.1+	1999 12 30	704	0.9+	0.3-	2000 02 10	610	(3.9-	0.6+)
1999 10 20	699	0.4-	1.4+	1999 12 30	704	1.3+	0.4-	2000 02 11	355	0.3+	0.2-
1999 11 09	703	0.5+	0.6+	1999 12 30	704	1.3+	0.8-	2000 02 11	355	0.1+	0.0
1999 11 09	703	0.3+	0.4+	1999 12 30	900	0.6-	1.5+	2000 02 11	355	0.1+	0.2-
1999 11 09	703	0.4+	0.1-	1999 12 30	900	0.8-	1.5+	2000 02 12	610	0.1+	0.6-
1999 11 09	703	0.2+	0.2+	2000 01 01	726	0.5+	1.3-	2000 02 12	610	0.3+	0.5-
1999 11 10	703	0.2+	0.3+	2000 01 01	726	0.4+	0.6-	2000 02 12	610	0.5+	0.4-
1999 11 10	703	0.8+	0.5+	2000 01 01	726	1.0+	0.3-	2000 02 12	610	0.7+	0.3-
1999 11 12	699	0.0	0.3+	2000 01 01	726	0.4+	0.8-	2000 02 12	610	0.9+	0.2-
1999 11 12	699	0.1+	0.4+	2000 01 01	726	0.9+	0.3+	2000 02 15	704	0.5+	0.1+
1999 11 12	699	0.0	0.4+	2000 01 03	670	0.1-	0.2-	2000 02 15	704	0.9+	0.9-
1999 11 21	046	0.0	0.1+	2000 01 03	670	0.1+	0.0	2000 02 15	704	0.7+	0.5-
1999 11 21	046	0.1+	0.0	2000 01 03	670	0.2+	0.0	2000 02 15	704	1.8-	1.6-
1999 11 21	046	0.0	0.0	2000 01 10	049	0.3+	0.1-	2000 02 15	355	0.6+	0.1-
1999 11 21	046	0.0	0.1+	2000 01 10	049	0.2+	0.0	2000 02 15	355	0.6+	0.2+
1999 11 21	557	0.3+	0.2-	2000 01 10	049	0.0	0.2-	2000 02 15	355	0.8+	0.0
1999 11 21	557	0.0	0.1-	2000 01 16	049	0.2+	0.2-	2000 02 19	610	0.3-	0.2-
1999 11 21	557	0.1+	0.2-	2000 01 16	049	0.2+	0.2-	2000 02 19	610	0.4-	0.7-
1999 11 21	557	0.3-	0.4-	2000 01 16	049	0.1+	0.2-	2000 02 19	610	0.5-	1.3-
1999 11 21	693	1.1+	0.7+	2000 01 19	151	0.6+	0.2-	2000 02 19	610	0.6-	1.8-
1999 11 21	693	0.1+	0.2+	2000 01 19	151	0.4-	0.6-	2000 02 19	610	(0.8-	2.4-)
1999 11 22	734	0.6+	0.7-	2000 01 19	151	1.5+	0.6-	2000 02 20	611	0.7-	0.1+
1999 11 22	734	0.4+	1.4-	2000 01 19	151	1.0-	0.8+	2000 02 20	611	0.0	0.4+
1999 11 22	734	0.2+	0.8-	2000 01 19	151	0.7-	0.6+	2000 02 21	151	0.0	0.7+
1999 11 22	734	0.4-	0.5-	2000 01 19	151	1.0-	0.2-	2000 02 21	151	0.5-	0.5-
1999 11 26	903	0.0	0.2-	2000 01 19	151	0.5+	0.3+	2000 02 21	151	0.9-	0.7-
1999 11 26	903	0.9-	0.5-	2000 01 21	615	0.5+	0.4-	2000 02 21	151	0.3-	0.2-
1999 11 26	903	0.1-	0.8-	2000 01 21	615	0.5+	0.6-	2000 02 21	151	0.4-	0.6+

1999 11 26	557	0.1+	0.1+	2000 01 21	615	0.2+	0.3-	2000 02 22	151	0.4-	0.3-
1999 11 26	557	0.2-	0.1-	2000 01 21	615	0.2+	0.2-	2000 02 22	151	0.1+	0.6+
1999 11 26	557	0.3-	0.5-	2000 01 21	610	0.0	1.3-	2000 02 22	151	0.3+	0.2-
1999 11 27	611	0.2+	0.4+	2000 01 21	610	0.0	0.9-	2000 02 22	151	0.1-	0.3-
1999 11 27	611	1.6-	0.5+	2000 01 21	610	0.1+	0.3-	2000 02 22	151	0.2+	0.1-
1999 11 27	046	0.1+	0.1-	2000 01 21	610	0.2+	0.2+	2000 02 22	151	0.6-	0.0
1999 11 27	595	0.5-	0.4-	2000 01 21	610	0.2+	0.6+	2000 02 23	610	0.5+	0.3+
1999 11 27	046	0.3+	0.3-	2000 01 25	610	1.0+	1.9+	2000 02 23	610	0.4+	0.3+
1999 11 27	046	0.1+	0.2-	2000 01 25	610	1.0+	1.9+	2000 02 23	610	0.3+	0.3+
1999 11 27	595	0.4-	0.5-	2000 01 25	610	1.0+	2.0+	2000 02 23	610	0.2+	0.3+
1999 11 27	046	0.1+	0.2-	2000 01 25	610	(1.0+	2.0+)	2000 02 23	610	0.1+	0.3+
1999 11 27	595	0.3-	0.7-	2000 01 25	610	1.1+	2.0+	2000 02 25	610	0.2+	0.2-
1999 11 27	734	0.8-	0.7-	2000 01 27	704	0.2+	0.4-	2000 02 25	610	0.0	0.3-
1999 11 27	734	0.1+	0.1-	2000 01 27	704	0.6+	0.5-	2000 02 25	610	0.2-	0.4-
1999 11 27	734	0.4-	1.2-	2000 01 27	704	0.9+	0.4-	2000 02 25	610	0.5-	0.5-
1999 11 27	587	1.2-	1.6-	2000 01 27	151	0.4+	0.8+	2000 02 25	610	0.7-	0.6-
1999 11 27	587	1.4-	1.0-	2000 01 27	151	0.1+	0.8+	2000 02 26	704	0.1-	0.4+
1999 11 27	587	1.5-	0.6-	2000 01 27	151	0.4-	0.1+	2000 02 26	704	0.0	0.4+
1999 11 28	046	0.1-	0.1+	2000 01 27	151	0.6-	0.4+	2000 02 26	704	0.5+	0.4+
1999 11 28	046	0.0	0.0	2000 01 27	151	0.3-	0.0	2000 02 26	704	0.3+	0.2+
1999 11 28	046	0.1-	0.2+	2000 01 27	610	0.3+	0.6+	2000 02 27	610	0.4-	1.1-
1999 11 28	046	0.0	0.0	2000 01 27	610	0.1+	0.5+	2000 02 27	610	0.6-	0.8-
1999 11 28	046	0.2-	0.1+	2000 01 27	610	0.0	0.4+	2000 02 27	610	0.7-	0.6-
1999 11 30	611	0.0	0.7+	2000 01 27	610	0.1-	0.4+	2000 02 27	610	0.9-	0.4-
1999 11 30	046	0.1+	0.1+	2000 01 27	610	0.2-	0.2+	2000 02 27	610	1.2-	0.1-
1999 11 30	046	0.0	0.1+	2000 01 28	704	0.2+	0.2+	2000 02 27	151	0.6-	0.2+
1999 11 30	046	0.1-	0.0	2000 01 28	704	0.5+	0.0	2000 02 27	151	0.3-	0.8+
1999 11 30	046	0.2+	0.1+	2000 01 28	704	0.2-	0.5-	2000 02 27	151	0.1-	0.1-
1999 12 02	557	0.2-	0.2+	2000 01 28	704	0.2+	0.1+	2000 02 27	151	0.0	0.6+
1999 12 03	557	0.4-	0.0	2000 01 28	704	0.2+	0.1+	2000 02 27	151	1.0-	0.2-
1999 12 03	557	0.1+	0.0	2000 01 28	900	0.7-	0.2+	2000 02 27	151	0.8-	0.4+
1999 12 03	557	0.4-	0.1-	2000 01 28	900	0.5-	0.4+	2000 03 02	670	1.3-	0.6+
1999 12 05	670	1.1-	0.4+	2000 01 29	670	0.2-	0.6+	2000 03 02	670	0.6-	0.2+
1999 12 05	670	1.0-	0.6+	2000 01 29	704	0.0	0.1+	2000 03 02	610	0.2+	0.5+
1999 12 05	670	0.6-	0.5+	2000 01 29	704	0.0	0.2+	2000 03 02	610	0.4+	0.5+
1999 12 07	703	0.3+	0.6+	2000 01 29	704	0.1-	0.3+	2000 03 02	610	0.4+	0.5+
1999 12 07	703	0.4+	0.4+	2000 01 29	670	0.5-	0.6+	2000 03 02	610	0.5+	0.5+
1999 12 07	703	0.4+	0.3+	2000 01 29	704	0.1-	0.0	2000 03 02	610	0.5+	0.6+
1999 12 07	703	0.2+	0.5+	2000 01 29	704	0.1-	0.3+	2000 03 04	610	0.1+	0.5+
1999 12 12	670	0.1+	0.3+	2000 01 29	670	1.2-	0.2-	2000 03 04	610	0.1-	0.6+
1999 12 12	670	0.4+	0.3+	2000 01 30	610	0.6-	0.0	2000 03 04	610	0.3-	0.7+
1999 12 12	670	0.3+	0.4+	2000 01 30	610	0.5-	0.1+	2000 03 04	610	0.6-	0.9+
1999 12 13	670	0.2+	0.3+	2000 01 30	610	0.5-	0.2+	2000 03 04	610	0.8-	0.9+
1999 12 13	670	0.4-	0.1+	2000 01 30	610	0.4-	0.3+	2000 03 05	610	0.2+	0.4+
1999 12 13	670	0.3+	0.0	2000 01 30	610	0.3-	0.3+	2000 03 05	610	0.1+	0.4+
1999 12 14	118	0.2+	0.4+	2000 01 31	151	0.1-	0.0	2000 03 05	610	0.1+	0.3+
1999 12 14	118	0.1+	0.0	2000 01 31	151	0.2-	0.6-	2000 03 05	610	0.1-	0.1+
1999 12 14	670	0.3+	0.1-	2000 01 31	151	0.1-	0.1+	2000 03 05	610	0.2-	0.0
1999 12 14	670	0.3-	0.3+	2000 01 31	151	0.3-	0.3-	2000 03 06	151	0.7-	0.1-
1999 12 17	670	1.6-	0.2+	2000 01 31	151	0.8-	0.1-	2000 03 06	151	0.5-	0.1-
1999 12 17	670	0.4-	0.1-	2000 01 31	151	0.4+	0.4-	2000 03 06	151	0.4+	0.4+
1999 12 18	610	0.4-	0.8-	2000 02 02	670	0.7-	0.2-	2000 03 06	610	0.2-	0.0
1999 12 18	610	0.3-	0.5-	2000 02 02	670	0.2-	0.2-	2000 03 06	151	0.1+	0.3-
1999 12 18	610	0.3-	0.2-	2000 02 02	355	0.2+	0.1-	2000 03 06	610	0.2-	0.0
1999 12 18	610	0.2-	0.1+	2000 02 02	355	0.1+	0.2-	2000 03 06	610	0.1-	0.1+
1999 12 18	610	0.1-	0.4+	2000 02 02	355	0.0	0.6-	2000 03 06	610	0.1-	0.1+
1999 12 19	670	0.2+	0.5-	2000 02 05	151	0.4+	0.1+	2000 03 06	610	0.1-	0.1+
1999 12 19	670	0.1-	0.3-	2000 02 05	151	0.8-	0.7-	2000 03 07	360	0.0	0.2-
1999 12 19	670	0.3-	0.2-	2000 02 05	151	0.2+	0.9-	2000 03 07	360	0.2+	0.2-
1999 12 19	900	0.1-	0.4+	2000 02 05	151	0.6-	0.7-	2000 03 07	360	0.1+	0.1-
1999 12 19	900	0.3-	0.1+	2000 02 05	151	0.2-	0.8-	2000 03 10	610	0.3+	0.6+
1999 12 21	670	1.1+	0.1-	2000 02 05	151	0.1+	0.2-	2000 03 10	610	0.3+	0.3+
1999 12 21	670	0.9+	0.7+	2000 02 08	294	1.0+	0.5-	2000 03 10	610	0.3+	0.0
1999 12 22	118	0.2+	0.0	2000 02 08	294	1.6+	0.8-	2000 03 10	610	0.2+	0.3-
1999 12 22	118	0.2+	0.1+	2000 02 09	294	(3.5-	1.9-)	2000 03 10	610	0.1+	0.7-
1999 12 29	402	0.4+	0.2-	2000 02 09	294	(4.4-	0.5-)				
1999 12 29	402	0.5+	0.1-	2000 02 10	610	1.7+	0.1-				

2000 MAR. 20

M.P.C. 39319

1999 VN₄₇ = 1990 OD₃

Id. G. V. Williams, T. B. Spahr, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	82.70995		(2000.0)		P		Q
<i>n</i>	0.23181785	ω	41.02959		+0.83475588		+0.51433315
<i>a</i>	2.6244490	Ω	286.98264		-0.54345312		+0.71217840
<i>e</i>	0.1854205	<i>i</i>	11.86134		-0.08855125		+0.47776913
<i>P</i>	4.25	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1990 07 25	675	0.9+	2.4+	1999 11 04	704	0.1-	0.2-	1999 12 13	703	0.8-	0.1+
1990 07 25	675	1.0+	0.2+	1999 11 04	704	0.3-	0.3-	1999 12 13	703	0.4-	0.5-
1990 07 27	675	2.0+	4.5-	1999 11 04	704	0.5-	0.2-	1999 12 13	703	0.2+	0.1-
1990 07 27	675	1.2-	2.1-	1999 11 04	704	0.7-	0.0	1999 12 13	703	1.2-	0.2-
1990 07 29	675	3.4-	1.9+	1999 12 05	699	0.3-	0.6+	1999 12 15	704	0.1-	0.1+
1990 07 29	675	0.7+	2.2+	1999 12 05	699	0.5-	0.6+	1999 12 15	704	0.1-	0.0
1999 11 03	704	0.2-	0.2-	1999 12 05	699	0.1-	0.6+	1999 12 15	704	0.4+	0.7-
1999 11 03	704	0.5+	0.0	1999 12 10	704	1.5+	0.9+	2000 01 31	704	0.8-	0.5+
1999 11 03	704	0.5+	0.1-	1999 12 10	704	0.4+	0.0	2000 01 31	704	0.2-	0.7-
1999 11 03	704	0.4+	0.1+	1999 12 10	704	0.2-	0.7-	2000 01 31	704	0.1+	0.7+
1999 11 03	704	0.3+	0.2+	1999 12 10	704	0.8+	0.2-	2000 01 31	704	0.3+	0.0
1999 11 04	704	0.0	0.4-	1999 12 10	704	0.2+	0.2+	2000 01 31	704	0.8+	0.2-

1999 VL₅₃ = 1989 AQ₇ = 1991 PK₂₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	86.35923		(2000.0)		P		Q
<i>n</i>	0.27680537	ω	327.20103		+0.93788881		-0.34445336
<i>a</i>	2.3317735	Ω	53.00257		+0.32843933		+0.84306083
<i>e</i>	0.0532277	<i>i</i>	2.97353		+0.11176847		+0.41303792
<i>P</i>	3.56	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1989 01 09	033	1.0-	0.4-	1999 11 04	704	0.4+	0.2+	2000 01 04	704	0.4+	1.1+
1989 01 09	033	0.7+	0.5+	1999 11 04	704	0.7+	0.2+	2000 01 04	704	0.3+	0.3+
1991 08 06	675	0.0	0.1+	1999 12 07	704	0.1-	1.3-	2000 01 04	704	0.4-	0.0
1991 08 06	675	0.2+	0.0	1999 12 07	704	0.5+	0.2-	2000 01 04	704	0.1-	0.1+
1998 07 16	699	0.4+	0.6+	1999 12 07	704	0.0	0.4-	2000 01 30	704	0.3-	0.5+
1998 07 16	699	0.8-	0.0	1999 12 07	704	0.2-	0.8-	2000 01 30	704	0.2+	0.0
1998 07 16	699	0.1-	0.5+	1999 12 10	704	0.3-	0.9-	2000 01 30	704	0.0	0.8+
1999 11 03	704	0.5+	0.2+	1999 12 10	704	0.1-	0.5-	2000 01 30	704	0.3-	0.5+
1999 11 03	704	0.8-	0.1+	1999 12 10	704	0.0	0.2-	2000 01 30	704	0.5-	0.3+
1999 11 03	704	0.4+	0.3+	2000 01 03	704	0.4+	0.4+	2000 01 31	704	0.5-	0.8+
1999 11 04	704	0.2-	0.2-	2000 01 03	704	0.3+	0.3-	2000 01 31	704	0.3-	0.5+
1999 11 04	704	0.2+	0.4+	2000 01 03	704	0.1+	0.0	2000 01 31	704	0.2+	0.3-
1999 11 04	704	0.0	0.1+	2000 01 03	704	0.4-	0.2+	2000 01 31	704	0.1-	0.5-

1999 VB₆₂ = 1998 KZ₆₂

Id. A. Doppler, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	140.41441		(2000.0)		P		Q
<i>n</i>	0.26629657	ω	52.82694		+0.10139176		+0.97931603
<i>a</i>	2.3927225	Ω	224.02230		-0.97383510		+0.06171866
<i>e</i>	0.1566729	<i>i</i>	14.59377		-0.20338363		+0.19269387
<i>P</i>	3.70	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 05 22	704	0.5+	0.6+	1998 05 28	699	1.0+	0.5-	1999 11 12	704	0.3+	0.0
1998 05 22	704	1.9-	0.5-	1999 11 04	704	0.6-	0.4-	1999 11 12	704	0.5+	0.4-
1998 05 22	704	1.1-	1.7+	1999 11 04	704	0.4-	0.4+	1999 11 12	704	0.0	0.4-
1998 05 22	704	0.8+	1.3+	1999 11 04	704	0.3-	1.1+	1999 11 16	691	0.0	0.5+
1998 05 24	704	0.4+	0.7-	1999 11 04	704	0.3-	0.4+	1999 11 16	691	0.1+	0.2+
1998 05 24	704	0.8-	1.0-	1999 11 04	704	0.4+	0.6-	1999 11 16	691	0.1-	0.3+
1998 05 24	704	0.6+	0.0	1999 11 09	704	0.4+	0.3-	1999 11 17	704	2.0-	0.6-

1998 05 24	704	0.6-	0.9-	1999 11 09	704	1.1+	0.1-	1999 11 17	704	0.5-	0.5-
1998 05 24	704	0.6+	1.1+	1999 11 09	704	0.3+	0.1+	1999 11 17	704	0.8+	0.8+
1998 05 28	699	0.3+	0.7-	1999 11 12	704	0.2-	0.0				
1998 05 28	699	0.2+	0.1-	1999 11 12	704	0.4+	0.2-				

1999 VF₆₈ = 1978 UP₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	71.06242		(2000.0)		P		Q
<i>n</i>	0.23748371	ω	129.52836		+0.99493214		+0.07255329
<i>a</i>	2.5825386	Ω	226.43353		-0.09182966		+0.93766591
<i>e</i>	0.1460896	<i>i</i>	5.51320		+0.04095543		+0.33988037
<i>P</i>	4.15	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1978 10 27	675	0.3-	0.2-	1999 11 12	704	0.6-	0.1-	1999 11 13	704	0.4+	0.1-
1978 10 28	675	0.1-	0.2+	1999 11 12	704	0.1+	0.2+	1999 11 13	704	0.6-	0.4+
1978 10 29	675	0.3+	0.2+	1999 11 12	704	0.6-	0.1-	1999 11 13	704	0.4+	0.5+
1999 11 04	704	0.4-	0.6+	1999 11 12	704	0.1+	0.1-	1999 11 13	704	0.1-	0.4-
1999 11 04	704	1.0+	0.7-	1999 11 13	704	0.6+	0.1+	1999 11 13	704	0.8+	0.4+
1999 11 04	704	0.0	0.7+	1999 11 13	704	0.7-	0.9-	1999 11 17	691	0.0	0.1+
1999 11 04	704	0.4+	0.6+	1999 11 13	704	0.8-	0.5-	1999 11 17	691	0.0	0.1+
1999 11 04	704	0.2+	0.3+	1999 11 13	704	0.4-	0.6-	1999 11 17	691	0.0	0.0
1999 11 09	704	0.3-	0.2+	1999 11 13	704	0.1-	0.3+	1999 12 07	704	0.5-	0.0
1999 11 09	704	0.1-	0.3-	1999 11 13	704	0.4-	0.1+	1999 12 07	704	0.2-	0.2+
1999 11 09	704	0.4+	0.5-	1999 11 13	704	0.3+	0.0	1999 12 07	704	1.5+	0.0
1999 11 09	704	0.5-	0.6-	1999 11 13	704	0.1-	0.3+	1999 12 07	704	0.8+	0.3+
1999 11 09	704	0.5-	0.9-	1999 11 13	704	0.8+	0.5-	1999 12 07	704	0.6-	0.4+
1999 11 12	704	0.5-	0.2+	1999 11 13	704	0.2+	0.1+				

1999 VX₇₃ = 1982 XG₁ = 1998 QH₆₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	203.09505		(2000.0)		P		Q
<i>n</i>	0.16692863	ω	120.13223		-0.95172296		+0.30419373
<i>a</i>	3.2667470	Ω	77.60357		-0.29412035		-0.86538397
<i>e</i>	0.0773709	<i>i</i>	2.41205		-0.08784438		-0.39821697
<i>P</i>	5.90	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1982 12 13	381	0.9-	0.8+	1998 08 17	704	(1.3-	2.7+)	1999 10 02	703	0.1+	0.3-
1982 12 13	381	0.9+	1.4+	1998 08 17	704	(1.2+	2.4+)	1999 11 01	703	0.8-	0.2+
1982 12 14	381	0.5+	0.2+	1998 08 23	704	0.7-	1.0+	1999 11 01	703	0.6+	0.2-
1982 12 14	381	1.1-	0.7-	1998 08 23	704	(3.2+	1.4+)	1999 11 01	703	0.4+	0.6+
1993 10 15	010	(1.0+	2.7+)	1998 08 23	704	(0.3-	2.7+)	1999 11 01	703	0.9-	0.1-
1993 10 15	010	0.1+	0.3-	1998 08 23	704	0.1+	0.1+	1999 11 01	691	0.1+	0.4-
1993 10 15	010	0.4+	0.6-	1998 08 30	428	0.3-	0.2+	1999 11 01	691	0.1+	0.4-
1998 07 24	566	0.3+	0.3-	1998 08 30	428	0.4-	0.2+	1999 11 01	691	0.0	0.4-
1998 07 24	566	0.8+	0.0	1998 09 01	428	0.8-	0.3+	1999 11 05	691	0.2+	0.2-
1998 07 24	566	0.7-	0.2-	1998 09 01	428	0.3-	0.8+	1999 11 05	691	0.3+	0.0
1998 08 17	704	1.8+	0.7-	1999 10 02	703	0.3-	0.1-	1999 11 05	691	0.4+	0.2-
1998 08 17	704	(1.4+	3.3+)	1999 10 02	703	0.0	0.3+				
1998 08 17	704	(1.4-	2.3+)	1999 10 02	703	0.3+	0.0				

1999 VP₇₅ = 1994 JU₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	191.02863		(2000.0)		P		Q
<i>n</i>	0.26820536	ω	26.24692		-0.39250171		+0.91781835
<i>a</i>	2.3813565	Ω	220.71796		-0.85911221		-0.38899220
<i>e</i>	0.0896802	<i>i</i>	5.24188		-0.32843359		-0.07933819
<i>P</i>	3.67	<i>H</i>	16.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 05 04	691	0.3-	0.0	1999 11 05	691	0.3+	0.5-	1999 11 12	691	0.2-	0.2+
1994 05 04	691	0.0	0.4+	1999 11 05	691	0.5+	0.0	1999 11 12	691	0.1-	0.6+

M.P.C. 39320

1994 05 04	691	0.6−	0.1+	1999 11 05	691	0.3−	0.6−	1999 11 12	691	0.1+	0.4+
1994 05 11	691	0.0	0.3−	1999 11 12	704	0.1−	0.2+	1999 11 16	691	0.3−	0.5−
1994 05 11	691	1.0+	1.0−	1999 11 12	704	1.0+	0.9+	1999 11 16	691	0.3−	0.4−
1994 05 11	691	0.2−	0.5+	1999 11 12	704	0.4−	0.2−	1999 11 16	691	0.3−	0.4−

1999 VP₇₇ = 1994 GZ₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	69.62048		(2000.0)	P	Q		
<i>n</i>	0.26646314	ω	341.82083	+0.99386414	+0.11019186		
<i>a</i>	2.3917253	Ω	11.86503	−0.09481621	+0.89337671		
<i>e</i>	0.2141983	<i>i</i>	2.67120	−0.05695568	+0.43558675		
<i>P</i>	3.70	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 04 06	691	0.3+	0.5−	1999 11 05	704	0.1+	0.0	1999 11 16	704	0.9+	0.6+
1994 04 06	691	0.4+	0.2+	1999 11 05	704	0.3+	0.3+	1999 11 16	704	0.2−	0.5−
1994 04 06	691	0.5+	0.1+	1999 11 05	704	0.4+	0.5+	1999 11 16	704	0.0	0.6−
1994 04 11	691	0.1−	0.2+	1999 11 05	704	0.3−	0.4+	1999 11 16	704	0.1+	0.2−
1994 04 11	691	0.5−	0.2+	1999 11 12	699	0.3+	0.2−	1999 11 16	704	0.3+	0.3−
1994 04 11	691	0.5−	0.0	1999 11 12	699	0.2−	1.5+	1999 12 08	704	0.1+	0.0
1999 11 03	704	0.4−	0.1+	1999 11 12	699	0.1−	0.2+	1999 12 08	704	0.2+	0.7−
1999 11 03	704	0.1+	0.0	1999 11 14	704	0.2−	0.3−	1999 12 08	704	0.0	0.5−
1999 11 03	704	0.2−	0.4−	1999 11 14	704	0.5−	0.4−	1999 12 08	704	0.5+	0.5+
1999 11 03	704	0.2+	0.0	1999 11 14	704	0.3−	0.2−	1999 12 08	704	0.5−	0.7+
1999 11 03	704	0.2+	0.1+	1999 11 14	704	0.4−	0.1+				
1999 11 05	704	0.3−	0.4−	1999 11 14	704	0.1−	0.2−				

1999 VR₇₈ = 1998 QD₆₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	283.71943		(2000.0)	P	Q		
<i>n</i>	0.16944216	ω	236.59849	−0.75314246	−0.65336460		
<i>a</i>	3.2343603	Ω	262.48166	+0.62636160	−0.67651911		
<i>e</i>	0.0630426	<i>i</i>	4.44024	+0.20111584	−0.33975961		
<i>P</i>	5.82	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.9+	0.1+	1999 10 31	703	0.4−	0.0	1999 11 14	704	0.2+	0.1−
1998 08 17	704	0.4−	0.1−	1999 11 04	704	0.7+	0.4−	1999 11 14	704	0.3−	0.3+
1998 08 17	704	0.5−	0.4+	1999 11 04	704	0.9+	0.7−	1999 11 14	704	0.3−	0.1+
1998 08 17	704	0.6−	0.9+	1999 11 04	704	0.6+	0.3+	1999 11 14	704	0.1+	0.0
1998 08 17	704	1.2+	0.4−	1999 11 04	704	0.5+	0.1+	1999 11 14	704	0.3−	0.1+
1998 08 23	699	0.1+	0.5−	1999 11 04	704	0.4+	0.1+	1999 11 16	704	0.4−	0.1−
1998 08 23	699	0.2−	0.7+	1999 11 05	704	0.3+	0.1−	1999 11 16	704	0.7−	0.1−
1998 08 23	699	0.0	0.9−	1999 11 05	704	0.9+	0.1−	1999 11 16	704	1.1−	0.4−
1998 08 30	699	0.1−	0.0	1999 11 05	704	0.4+	0.2−	1999 11 16	704	0.7−	0.1+
1998 08 30	699	1.4−	0.2−	1999 11 05	704	0.7+	0.4−	1999 11 16	704	0.9−	0.4+
1998 08 30	699	1.0+	0.1+	1999 11 05	704	0.1+	0.4−	1999 12 03	699	0.0	0.4+
1999 10 03	704	0.5−	0.3−	1999 11 11	703	0.1+	0.5+	1999 12 03	699	0.4+	0.1−
1999 10 03	704	0.1−	0.5−	1999 11 11	703	0.2−	0.0	1999 12 03	699	0.7+	0.5−
1999 10 03	704	0.1−	0.3−	1999 11 11	703	0.2−	0.5+	2000 01 07	704	0.2−	0.2−
1999 10 03	704	0.6−	0.4−	1999 11 11	703	0.3−	0.3+	2000 01 07	704	0.4−	0.2+
1999 10 31	703	0.3+	0.1+	1999 11 12	699	0.6+	1.5+	2000 01 07	704	0.6−	1.0−
1999 10 31	703	0.1+	0.1+	1999 11 12	699	0.3−	0.0	2000 01 07	704	1.1+	0.2−
1999 10 31	703	0.1−	0.0	1999 11 12	699	0.1−	0.9+				

1999 VO₈₀ = 1995 US₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	34.90700		(2000.0)	P	Q		
<i>n</i>	0.24669508	ω	319.32605	+0.75908946	−0.64576986		
<i>a</i>	2.5178454	Ω	81.09283	+0.61677294	+0.67301218		
<i>e</i>	0.0371482	<i>i</i>	4.77542	+0.20826506	+0.36060488		
<i>P</i>	4.00	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	6

2000 MAR. 20

Residuals in seconds of arc

1995 10 17	691	0.2−	0.0	1999 11 01	703	0.3−	0.5+	1999 11 05	704	0.4+	0.5+
1995 10 17	691	0.0	0.3−	1999 11 01	703	0.3+	0.6+	1999 11 05	704	0.3+	0.0
1995 10 17	691	0.3+	0.0	1999 11 04	704	0.1+	0.7−	1999 11 05	704	0.4−	0.4+
1995 10 25	691	0.0	0.1+	1999 11 04	704	0.2−	0.8−	1999 11 15	704	0.2−	0.6+
1995 10 25	691	0.1−	0.1+	1999 11 04	704	0.1+	0.2+	1999 11 15	704	0.2−	0.1−
1995 10 25	691	0.1−	0.1+	1999 11 04	704	1.1−	0.2+	1999 11 15	704	0.4−	0.2−
1999 11 01	703	0.2−	0.5−	1999 11 04	704	0.6+	0.1+	1999 11 15	704	0.8+	0.2−
1999 11 01	703	0.1+	0.3−	1999 11 05	704	0.3+	0.3−	1999 11 15	704	0.2+	0.1−

1999 VS₈₁ = 1995 WT₄₁ = 1997 EE₅₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	335.87962		(2000.0)	P	Q		
<i>n</i>	0.22990621	ω	244.91089	+0.08127079	−0.99654145		
<i>a</i>	2.6389769	Ω	200.44988	+0.93138286	+0.08212308		
<i>e</i>	0.0968412	<i>i</i>	2.84246	+0.35485352	+0.01268602		
<i>P</i>	4.29	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1995 11 16	399	1.5−	1.1−	1999 11 04	703	0.1+	0.6+	1999 11 12	704	0.0	0.3+
1995 11 16	399	1.0−	0.6+	1999 11 04	703	0.2+	0.7+	1999 11 12	704	0.2+	0.3−
1995 11 17	399	0.3+	0.3+	1999 11 04	703	0.7+	0.2+	1999 11 16	704	0.1+	0.3−
1995 11 17	399	0.2+	0.5+	1999 11 04	703	0.2+	0.2+	1999 11 16	704	0.3−	0.2−
1995 11 21	399	1.1+	0.3−	1999 11 05	704	0.3+	0.5+	1999 11 16	704	0.6+	0.2−
1995 11 21	399	0.8+	0.7+	1999 11 05	704	0.0	0.1+	1999 11 16	704	0.6−	0.5+
1997 03 08	809	0.4+	0.1+	1999 11 05	704	0.1+	0.8+	1999 11 16	704	1.4−	0.0
1997 03 08	809	0.0	0.2−	1999 11 05	704	0.6+	0.7+	1999 12 07	704	0.3−	1.3−
1997 03 08	809	0.6−	0.4−	1999 11 05	704	0.5−	0.1+	1999 12 07	704	0.1−	1.4−
1997 03 09	809	(0.9−	3.8+)	1999 11 09	704	0.1+	0.1−	1999 12 07	704	0.6−	0.0
1997 03 09	809	(0.8−	4.0+)	1999 11 09	704	0.3−	0.1−	1999 12 07	704	0.8+	0.3+
1997 03 09	809	(1.0−	2.9+)	1999 11 09	704	0.1+	0.3−	1999 12 13	699	0.6−	0.1+
1999 10 04	704	0.2+	0.0	1999 11 09	704	0.4+	1.3−	1999 12 13	699	0.6−	0.5+
1999 10 04	704	0.2+	0.1−	1999 11 09	704	0.1−	1.1−	1999 12 13	699	0.4−	0.2+
1999 10 04	704	0.6+	0.7−	1999 11 12	704	0.1+	0.2+	2000 01 08	704	0.1−	0.5+
1999 10 04	704	0.6−	0.1−	1999 11 12	704	0.4−	0.2+	2000 01 08	704	0.9+	1.6−
1999 10 04	704	0.1+	0.4+	1999 11 12	704	0.0	0.1−	2000 01 08	704	0.6+	0.2+

1999 VT₈₁ = 1995 UB₁₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	351.73863		(2000.0)	P	Q		
<i>n</i>	0.24428760	ω	226.84364	+0.33586279	−0.93967932		
<i>a</i>	2.5343607	Ω	203.76388	+0.90411984	+0.34091506		
<i>e</i>	0.1066280	<i>i</i>	9.25363	+0.26412782	+0.02792304		
<i>P</i>	4.03	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 10 17	691	0.7+	0.3−	1999 10 06	704	0.5+	0.2−	1999 11 09	704	0.3−	0.4+
1995 10 17	691	0.4+	0.5−	1999 10 06	704	0.6+	0.1+	1999 11 09	704	1.5−	1.2−
1995 10 17	691	0.3+	0.2−	1999 11 01	703	0.4−	1.0+	1999 11 09	704	0.4−	1.2−
1995 10 21	691	1.0−	0.1−	1999 11 01	703	1.0−	1.3+	1999 11 09	704	1.0−	0.7−
1995 10 21	691	0.1+	0.5+	1999 11 01	703	1.6−	0.5+	1999 11 12	704	0.8+	0.0
1995 10 21	691	0.3−	0.1+	1999 11 01	703	0.0	0.4+	1999 11 12	704	0.9+	0.5−
1999 10 06	704	0.7−	0.6−	1999 11 05	704	0.7+	0.9+	1999 11 12	704	2.0+	0.3+
1999 10 06	704	0.3+	0.1+	1999 11 05	704	0.2+	0.2−	1999 11 12	704	0.0	0.8+
1999 10 06	704	0.4+	0.0	1999 11 05	704	(0.3+	2.1+)	1999 11 12	704	0.5+	0.9−

1999 VU₈₁ = 1991 PF₇ = 1

2000 MAR. 20

M.P.C. 39321

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	184.40402	(2000.0)	P		Q	
<i>n</i>	0.26376195	ω	184.83955	-0.71962435	+0.69365740	
<i>a</i>	2.4080266	Ω	39.14238	-0.63539014	-0.63965130	
<i>e</i>	0.1579491	<i>i</i>	2.84289	-0.28003600	-0.33118821	
<i>P</i>	3.74	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1991 08 06	809	0.2+	1.6-	1998 05 22	704	0.4-	0.2+	1999 11 01	703	0.0	0.2+
1991 08 06	809	0.8+	0.2+	1998 05 24	704	0.4+	0.3+	1999 11 01	703	1.5-	0.1-
1991 08 06	809	0.3-	0.5-	1998 05 24	704	0.1+	0.8+	1999 11 05	704	0.1+	0.4-
1991 09 06	809	0.4+	1.3-	1998 05 24	704	0.1+	0.6+	1999 11 05	704	0.9-	0.6+
1991 09 06	809	(2.4- 1.5-)		1998 05 24	704	0.2-	0.3+	1999 11 05	704	0.4-	0.8+
1991 09 06	809	(3.4- 1.8-)		1998 05 24	704	0.3-	0.1+	1999 11 05	704	0.5-	0.5+
1995 08 28	809	0.9-	0.5-	1999 10 02	703	0.2+	0.2+	1999 11 05	704	0.1+	0.4+
1995 08 29	809	0.4-	0.3-	1999 10 02	703	1.3-	0.8+	1999 11 09	704	0.1+	0.3+
1995 09 19	809	0.6+	1.0+	1999 10 02	703	0.3+	0.1+	1999 11 09	704	0.4-	0.4+
1995 09 20	809	0.1+	0.6+	1999 10 02	703	0.0	1.0+	1999 11 09	704	0.1-	0.2+
1995 09 23	809	(7.1+ 0.3-)		1999 10 04	704	0.3+	1.3+	1999 11 09	704	0.6-	0.4+
1995 09 24	809	0.3+	0.6+	1999 10 04	704	1.0+	0.2+	1999 11 12	704	0.8+	0.5-
1998 05 22	704	0.4+	0.4+	1999 10 04	704	0.2-	1.7-	1999 11 12	704	0.2-	0.5-
1998 05 22	704	0.2+	0.4+	1999 10 04	704	0.5+	0.9-	1999 11 12	704	0.3-	0.5-
1998 05 22	704	0.0	0.2+	1999 11 01	703	(1.6- 2.2+)		1999 11 12	704	0.0	0.4-
1998 05 22	704	0.3+	0.4-	1999 11 01	703	0.8+	0.8+	1999 11 12	704	0.4+	0.0

1999 VW₈₃ = 1997 EG₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	338.23495	(2000.0)	P		Q	
<i>n</i>	0.23040388	ω	191.07792	-0.00354263	-0.99954433	
<i>a</i>	2.6351754	Ω	259.13009	+0.91979348	+0.00850538	
<i>e</i>	0.0768516	<i>i</i>	1.74916	+0.39238681	-0.02896175	
<i>P</i>	4.28	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1997 03 11	809	0.1-	0.4+	1999 10 03	704	0.2-	0.5-	1999 11 06	691	0.6+	0.1-
1997 03 11	809	0.4+	0.6-	1999 11 03	691	0.2-	0.2-	1999 11 06	691	0.3+	0.0
1997 03 11	809	0.0	0.5+	1999 11 03	691	0.7-	0.5+	1999 11 06	691	0.5+	0.0
1997 03 12	809	0.3-	0.8-	1999 11 03	691	0.2-	0.2-	1999 11 14	704	0.2+	0.0
1997 03 12	809	0.7-	0.1+	1999 11 04	704	0.3-	0.0	1999 11 14	704	0.0	0.7+
1997 03 12	809	0.7+	0.5+	1999 11 04	704	0.6-	0.2+	1999 11 14	704	0.2+	0.4+
1999 10 02	703	0.5-	0.1+	1999 11 04	704	0.3-	0.4-	1999 11 14	704	0.1+	0.7+
1999 10 02	703	0.1+	0.0	1999 11 04	703	0.1-	0.3+	1999 11 14	704	0.2-	0.3+
1999 10 02	703	0.3+	0.1-	1999 11 04	704	0.8-	0.4+	1999 11 16	704	0.7-	1.9-
1999 10 02	703	0.0	0.0	1999 11 04	703	0.2-	0.2-	1999 11 16	704	0.7+	0.2-
1999 10 03	704	1.5+	0.7+	1999 11 04	704	0.0	0.7-	1999 11 16	704	0.4+	0.5+
1999 10 03	704	0.3-	0.7+	1999 11 04	703	0.6+	0.4+				
1999 10 03	704	0.5-	0.8-	1999 11 04	703	0.2+	0.6-				

1999 VS₈₆ = 1998 MR₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	44.87160	(2000.0)	P		Q	
<i>n</i>	0.23774413	ω	224.38108	+0.96914351	-0.22561631	
<i>a</i>	2.5806524	Ω	148.26094	+0.24350136	+0.93887407	
<i>e</i>	0.0930995	<i>i</i>	10.87939	-0.03831382	+0.26002454	
<i>P</i>	4.15	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1998 06 19	910	0.2-	0.0	1999 09 14	704	0.5+	0.9+	1999 11 07	704	1.1-	0.5-
1998 06 19	910	0.1+	0.1+	1999 09 14	704	0.6-	0.0	1999 11 10	704	0.1+	0.5+
1998 06 19	910	0.2+	0.1-	1999 09 14	704	0.7-	0.1+	1999 11 10	704	0.5-	0.6-
1998 06 25	910	0.1-	0.1+	1999 09 14	704	0.4+	0.8-	1999 11 10	704	0.1-	0.1+
1998 06 25	910	0.0	0.0	1999 11 07	704	0.7+	0.2+	1999 11 10	704	0.4+	0.2-
1998 06 26	910	0.0	0.1-	1999 11 07	704	0.2+	0.3-				
1999 09 14	704	0.5+	0.3-	1999 11 07	704	0.3+	0.8+				

1999 VQ₈₉ = 1989 SV₄ = 1989 TD₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	101.25627	(2000.0)	P		Q	
<i>n</i>	0.29794107	ω	267.41537	+0.64110040	+0.76272942	
<i>a</i>	2.2201508	Ω	42.85788	-0.64504837	+0.59557240	
<i>e</i>	0.1782805	<i>i</i>	7.18337	-0.41581592	+0.25206616	
<i>P</i>	3.31	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1989 09 26	809	0.0	0.3-	1999 10 01	703	(1.8- 2.9+)	1999 11 09	704	0.7-	0.2-	
1989 09 26	809	0.2-	0.5-	1999 10 20	704	0.2+	0.1-	1999 11 09	704	0.4+	0.2+
1989 09 26	809	0.2-	1.3-	1999 10 20	704	0.2-	0.1-	1999 11 12	704	0.7+	0.1+
1989 10 07	809	0.4+	0.5+	1999 10 20	704	0.0	0.8-	1999 11 12	704	0.6+	0.2-
1989 10 07	809	0.1-	0.1+	1999 10 20	704	1.4-	0.3-	1999 11 12	704	0.1-	0.1-
1989 10 07	809	1.9-	0.0	1999 10 29	703	1.1+	0.3-	1999 11 12	704	0.3+	0.6-
1989 10 08	809	2.2+	0.3+	1999 10 29	703	0.5-	0.6+	1999 11 12	704	0.4+	0.5-
1989 10 08	809	1.0+	0.7+	1999 10 29	703	0.5-	0.1+	1999 11 16	704	0.3+	0.2-
1989 10 08	809	1.1-	0.4+	1999 10 29	703	0.9-	0.0	1999 11 16	704	0.3-	0.1-
1998 04 20	704	1.2+	0.3+	1999 11 05	704	0.3+	0.3-	1999 11 16	704	0.3+	0.2-
1998 04 20	704	1.6-	1.3+	1999 11 05	704	0.2+	0.1-	1999 11 16	704	0.3+	0.0
1998 04 20	704	0.0	0.3-	1999 11 05	704	0.9+	0.7+	1999 11 16	704	0.4+	0.3+
1998 04 20	704	0.6+	0.9-	1999 11 05	704	1.1+	0.1+	1999 12 07	704	0.9+	0.0
1998 04 20	704	(6.6-	1.4+)	1999 11 05	704	0.3+	0.6+	1999 12 07	704	0.7-	0.4-
1999 10 01	703	0.2-	0.2-	1999 11 09	704	0.2-	0.0	1999 12 07	704	0.0	0.2-
1999 10 01	703	0.7-	1.4+	1999 11 09	704	0.4+	0.2+	1999 12 07	704	0.2-	1.1+
1999 10 01	703	0.7-	0.3+	1999 11 09	704	1.2-	0.1+				

1999 VD₉₀ = 1995 AF₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	344.14181	(2000.0)	P		Q	
<i>n</i>	0.17110621	ω	39.08003	+0.32724879	-0.94292948	
<i>a</i>	3.2133562	Ω	31.95545	+0.83517115	+0.25813369	
<i>e</i>	0.1265723	<i>i</i>	6.68169	+0.44203777	+0.21035922	
<i>P</i>	5.76	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1995 01 04	010	1.4+	0.8+	1999 11 01	703	0.1-	0.6+	1999 11 16	704	0.2-	0.9-
1995 01 04	010	1.0+	0.2+	1999 11 01	703	0.1+	0.3+	1999 11 16	704	0.3+	0.7-
1995 01 04	010	0.5+	0.2+	1999 11 05	704	0.3+	0.1+	1999 11 16	704	0.3-	0.5-
1995 01 04	010	0.1+	0.2+	1999 11 05	704	0.2-	1.0-	1999 11 16	704	0.7-	0.9-
1995 01 05	010	1.4-	0.2+	1999 11 05	704	0.2-	0.1-	1999 11 27	699	0.7+	0.4+
1995 01 05	010	1.6-	0.1+	1999 11 05	704	0.7-	0.1-	1999 11 27	699	0.2-	0.5+
1999 10 03	703	0.3-	0.4+	1999 11 05	704	0.4-	0.1+	1999 11 27	699	0.3-	0.2-
1999 10 03	703	0.1-	0.4+	1999 11 09	704	0.1+	0.0	1999 12 13	699	0.8-	0.3-
1999 10 03	703	0.0	0.0	1999 11 09	704	0.2-	0.0	1999 12 13	699	0.4+	0.1+
1999 10 03	703	0.1+	0.2+	1999 11 09	704	0.5+	0.2-	1999 12 13	699	0.4-	1.4+
1999 10 04	704	0.6-	0.9+	1999 11 09	704	0.7-	0.1-	2000 01 07	704	1.1+	1.2-
1999 10 04	704	0.1+	1.0+	1999 11 12	704	0.8+	0.5+	2000 01 07	704	1.9+	1.0-
1999 10 04	704	0.2+	0.1+	1999 11 12	704	0.1+	0.4+	2000 01 07	704	0.8+	1.1-
1999 10 04	704	0.8-	0.0	1999 11 12	704	0.4+	0.1-	2000 01 07	704	0.9+	1.6-
1999 10 04	704	0.4-	0.3+	1999 11 12	704	0.1+	0.3+	2000 01 07	704	1.0+	1.6-
1999 11 01	703	0.1-	1.1+	1999 11 12	704	0.6-	0.1-				
1999 11 01	703	0.2-	0.0	1999 11 16	704	0.4+	0.4+				

1999 VW₉₉ = 1999 XC₂₃₂ = 1995 WA₃₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	48.30700	(2000.0)	P		Q	
<i>n</i>	0.24070942	ω	322.83851	+0.93396400	-0.35030999	
<i>a</i>	2.5594147	Ω	57.81193	+0.34465984	+0.83070214	
<i>e</i>	0.0688742	<i>i</i>	4.78998	+0.09445020	+0.43268564	
<i>P</i>	4.09	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1995 11 21	691	0.0	0.1+	1999 11 09	704	0.1+	0.1+	1999 11 16	691	0.4+	0.6−
1995 11 21	691	0.3−	0.1−	1999 11 09	704	0.7+	0.3−	1999 11 16	691	0.4+	0.5−
1995 11 21	691	0.3−	0.1−	1999 11 09	704	0.1−	0.6−	1999 12 05	691	0.3−	0.3+
1995 11 27	691	0.0	0.1−	1999 11 12	704	0.7−	0.2+	1999 12 05	691	0.2+	0.1−
1995 11 27	691	0.4+	0.0	1999 11 12	704	0.5+	0.1−	1999 12 05	691	0.1+	0.0
1995 11 27	691	0.2+	0.3+	1999 11 12	704	0.3−	0.6+				
1999 11 09	704	1.2−	1.0+	1999 11 16	691	0.2+	0.1−				

1999 VE₁₀₀ = 1997 GT₁₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	342.10666		(2000.0)	P	Q
<i>n</i>	0.25827540	ω	232.69081	−0.33283623	−0.94264343
<i>a</i>	2.4420095	Ω	236.76880	+0.87448267	−0.29848088
<i>e</i>	0.1521753	<i>i</i>	1.73775	+0.35284573	−0.14944074
<i>P</i>	3.82	<i>H</i>	16.6	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 04 03	704	0.4+	0.3+	1999 11 01	703	0.4−	0.4+	1999 11 12	704	0.2+	0.2−
1997 04 03	704	0.4−	0.2−	1999 11 09	704	1.1+	0.0	1999 11 12	704	0.1+	0.1−
1997 04 07	704	0.5−	0.5−	1999 11 09	704	0.2+	0.1+	1999 11 15	691	0.1−	0.1+
1997 04 07	704	0.5+	0.4+	1999 11 09	704	0.2+	0.3+	1999 11 15	691	0.1+	0.0
1999 11 01	703	0.1−	0.1−	1999 11 12	704	0.6−	0.9+	1999 11 15	691	0.1−	0.1+
1999 11 01	703	0.7−	0.3−	1999 11 12	704	0.0	0.0				
1999 11 01	703	0.5+	0.4−	1999 11 12	704	0.5−	0.8−				

1999 VG₁₁₄ = 1998 FY₁₀₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	112.23426		(2000.0)	P	Q
<i>n</i>	0.26448199	ω	345.34034	+0.28577179	+0.94985701
<i>a</i>	2.4036542	Ω	301.12157	−0.86362314	+0.19787540
<i>e</i>	0.2016267	<i>i</i>	8.52534	−0.41531862	+0.24210946
<i>P</i>	3.73	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 02 27	566	0.1+	0.6−	1999 10 05	704	0.5+	0.0	1999 11 09	699	0.1+	0.7+
1998 02 27	566	0.2+	0.5−	1999 10 05	704	0.2+	0.4−	1999 11 09	699	0.3+	0.3+
1998 02 27	566	0.0	0.1−	1999 10 05	704	0.5+	0.7+	1999 11 11	703	0.0	0.1+
1998 03 31	704	0.7−	0.6−	1999 10 05	704	0.2+	0.1−	1999 11 11	703	0.2+	0.1−
1998 03 31	704	0.3−	0.2−	1999 10 05	704	0.3+	0.0	1999 11 11	703	0.2−	0.0
1998 03 31	704	0.1−	0.7−	1999 11 03	704	0.2−	0.5−	1999 11 11	703	1.1−	0.1−
1998 03 31	704	(1.2+ 3.2−)		1999 11 03	704	0.7+	1.0−	1999 12 08	703	0.6−	0.5+
1998 04 01	704	0.3−	0.3−	1999 11 03	704	0.0	0.4−	1999 12 08	703	0.3+	0.1−
1998 04 01	704	0.0	0.1−	1999 11 03	704	0.2+	0.4−	1999 12 08	703	0.5−	0.4−
1998 04 01	704	0.6−	0.5+	1999 11 03	704	0.3+	0.0	1999 12 08	703	0.6+	0.5+
1998 04 01	704	0.1+	0.1+	1999 11 09	703	0.4−	0.1−	2000 01 06	704	0.2+	0.2+
1998 04 01	704	0.3−	0.0	1999 11 09	703	0.3−	0.4+	2000 01 06	704	1.4−	0.7+
1998 04 28	566	0.5+	0.9+	1999 11 09	703	0.5−	0.4−	2000 01 06	704	0.1+	0.2+
1998 04 28	566	0.9+	0.9+	1999 11 09	699	0.1+	0.7+				
1998 04 28	566	0.9+	1.0+	1999 11 09	703	0.1−	0.2−				

1999 VJ₁₁₄ = 1997 EB₄₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	338.41948		(2000.0)	P	Q
<i>n</i>	0.24076441	ω	99.53810	−0.06990742	−0.99731149
<i>a</i>	2.5590250	Ω	354.33044	+0.80559765	−0.04345185
<i>e</i>	0.1273502	<i>i</i>	12.85022	+0.58832421	−0.05900618
<i>P</i>	4.09	<i>H</i>	12.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 03 11	809	1.2−	0.7−	1999 10 28	703	0.5−	0.4+	1999 11 09	703	0.5−	0.3+
1997 03 11	809	0.9−	0.5−	1999 10 28	703	0.8−	0.5+	1999 11 09	703	0.2−	0.2−
1997 03 11	809	0.9−	0.5−	1999 10 28	703	0.5−	0.3+	1999 11 11	703	0.1−	0.1+
1997 03 12	809	1.7+	1.3+	1999 10 28	703	0.4−	0.4+	1999 11 11	703	0.3−	0.1+
1997 03 12	809	1.6+	1.1+	1999 11 03	704	0.6+	0.2+	1999 11 11	703	0.3−	0.1+
1997 03 12	809	1.5+	1.8+	1999 11 03	704	0.3+	0.1−	1999 11 11	703	0.2−	0.0
1999 10 03	704	0.1+	0.5+	1999 11 03	704	0.5+	0.1−	2000 01 06	704	0.4+	1.0−
1999 10 03	704	0.1+	0.6+	1999 11 03	704	0.1+	0.2−	2000 01 06	704	0.4+	0.6−
1999 10 03	704	0.0	0.5+	1999 11 03	704	0.4+	0.4−	2000 01 06	704	0.6+	0.9−
1999 10 03	704	0.2−	0.5+	1999 11 09	703	0.5−	0.1+	2000 01 06	704	0.7+	0.9−
1999 10 03	704	0.2−	0.6+	1999 11 09	703	0.2−	0.4+				

1999 VT₁₁₄ = 1998 FC₁₁₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	89.74340		(2000.0)	P	Q
<i>n</i>	0.27607525	ω	58.50956	+0.71478563	+0.68187928
<i>a</i>	2.3358829	Ω	257.98989	−0.68335436	+0.63378378
<i>e</i>	0.1681858	<i>i</i>	9.13660	−0.14868866	+0.36518321
<i>P</i>	3.57	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 03 31	704	1.5+	1.4+	1999 10 28	703	0.1+	0.2+	1999 11 11	703	0.2+	0.1+
1998 03 31	704	0.7+	0.9−	1999 10 28	703	0.1−	0.5+	1999 11 11	703	0.4−	0.6+
1998 03 31	704	0.8+	1.1+	1999 10 28	703	0.4−	0.2+	1999 12 03	699	0.2−	0.4+
1998 03 31	704	(1.3+ 2.4+)		1999 11 03	704	0.2+	0.4+	1999 12 03	699	0.9−	0.7+
1998 04 01	704	1.2−	0.0	1999 11 03	704	0.1+	0.1+	1999 12 03	699	0.9−	0.5+
1998 04 01	704	1.5−	0.4+	1999 11 03	704	0.4+	0.5+	1999 12 06	704	0.3−	0.0
1998 04 01	704	1.3+	0.4+	1999 11 03	704	0.1+	0.4−	1999 12 06	704	0.4+	0.1−
1998 04 01	704	0.7−	0.1−	1999 11 03	704	0.7+	0.8−	1999 12 06	704	0.3−	0.6−
1999 10 05	704	0.1+	0.3+	1999 11 09	703	0.3+	0.2+	1999 12 06	704	0.7+	0.1+
1999 10 05	704	1.3−	0.1+	1999 11 09	703	0.1+	0.1+	1999 12 06	704	0.2+	0.2−
1999 10 05	704	0.6+	0.4+	1999 11 09	703	0.4−	1.0+	2000 01 04	704	0.2−	1.0−
1999 10 05	704	0.7+	0.2+	1999 11 09	703	0.2+	0.2+	2000 01 04	704	0.3−	1.4−
1999 10 05	704	0.5+	0.1+	1999 11 11	703	0.1−	0.1+	2000 01 04	704	1.0−	1.4−
1999 10 28	703	0.2−	0.2−	1999 11 11	703	0.1+	0.4+				

1999 VZ₁₁₄ = 1998 MQ₂₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	100.32388		(2000.0)	P	Q
<i>n</i>	0.19159426	ω	43.06811	+0.55203302	+0.81745387
<i>a</i>	2.9799872	Ω	261.08733	−0.80308171	+0.46820042
<i>e</i>	0.0832361	<i>i</i>	9.57935	−0.22431966	+0.33549596
<i>P</i>	5.14	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 06 24	704	0.5+	0.0	1999 10 28	703	0.3+	0.2−	1999 11 11	703	0.1−	0.5+
1998 06 24	704	(1.8− 2.4+)		1999 10 28	703	0.3−	0.2+	1999 11 11	703	0.9−	0.1−
1998 06 24	704	0.5−	0.1−	1999 10 28	703	0.7+	0.5−	1999 11 12	699	1.6+	0.9−
1998 06 24	704	1.7+	1.2−	1999 10 28	703	0.3−	0.5+	1999 11 12	699	0.1+	1.7+
1998 06 26	704	0.2+	1.8+	1999 11 03	704	0.4−	0.7−	1999 11 12	699	0.8+	0.2−
1998 06 26	704	0.8−	0.6−	1999 11 03	704	0.0	0.4−	1999 12 08	704	0.2+	0.8+
1998 06 26	704	0.3−	1.4+	1999 11 03	704	0.3+	1.2−	1999 12 08	704	0.4−	1.0+
1998 06 26	704	1.0−	1.1−	1999 11 09	703	1.1−	0.9+	1999 12 08	704	0.0	0.4−
1999 10 03	704	0.2−	0.2−	1999 11 09	703	0.9−	0.2+	2000 01 06	704	0.8−	0.6−
1999 10 03	704	0.1+	0.9−	1999 11 09	703	0.7−	0.0	2000 01 06	704	0.7−	0.3−
1999 10 03	704	0.5+	0.4−	1999 11 09	703	0.2+	1.0+	2000 01 06	704	0.9+	0.2−
1999 10 03	704	0.1+	0.3−	1999 11 11	703	0.7−	1.4+	2000 01 06	704	1.5+	0.6−
1999 10 03	704	0.4+	0.9−	1999 11 11	703	0.3−	0.6+				

2000 MAR. 20

M.P.C. 39323

1999 VL₁₃₀ = 1998 KV₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28519579	ω	234.22095	+0.10495125	+0.95533302		
<i>a</i>	2.2858127	Ω	44.46492	-0.73662143	+0.26131259		
<i>e</i>	0.1720890	<i>i</i>	23.22871	-0.66811235	-0.13803824		
<i>P</i>	3.46	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 04 05	426	0.4-	1.0-	1998 05 01	704	0.4+	0.1-	1999 11 09	703	0.7+	0.9-
1998 04 05	426	0.1-	0.4+	1998 05 22	704	0.3+	0.9+	1999 11 09	703	0.4-	0.4-
1998 04 05	426	0.3+	0.4+	1998 05 22	704	0.6+	0.1-	1999 11 09	703	0.1-	0.5+
1998 04 22	704	0.0	0.6-	1998 05 22	704	0.7-	0.4-	1999 11 09	703	0.2-	0.1-
1998 04 22	704	0.2+	0.6+	1998 05 22	704	0.9+	1.5-	1999 11 13	703	0.0	0.6+
1998 04 22	704	0.3+	0.2+	1998 05 22	704	0.7-	0.0	1999 11 13	703	0.6-	0.3+
1998 04 22	704	0.5-	0.2+	1998 05 24	704	0.3+	0.2-	1999 11 13	703	0.2-	0.1-
1998 04 22	704	0.6-	0.5-	1998 05 24	704	1.6+	0.3-	1999 11 13	703	0.3-	0.5+
1998 04 30	566	0.2-	0.6+	1998 05 24	704	1.1-	1.4+	1999 11 16	704	0.3+	0.1+
1998 04 30	566	0.2-	0.3+	1998 05 24	704	0.5+	0.4-	1999 11 16	704	1.1-	0.9-
1998 04 30	566	0.2-	0.4+	1998 05 24	704	0.4-	0.3-	1999 11 16	704	0.4+	0.7-
1998 05 01	704	0.1-	0.6+	1999 11 03	704	0.7+	0.0	1999 11 16	704	0.3-	0.4-
1998 05 01	704	0.4+	0.1-	1999 11 03	704	0.3+	0.2-	1999 11 16	704	0.8-	0.8+
1998 05 01	704	0.0	0.0	1999 11 03	704	0.8+	0.7+				
1998 05 01	704	0.1-	0.3-	1999 11 03	704	0.2+	0.7+				

1999 VJ₁₃₅ = 1998 HY₄₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28269706	ω	203.38975	+0.75224349	+0.65397559		
<i>a</i>	2.2992623	Ω	115.51902	-0.58959792	+0.72251461		
<i>e</i>	0.1755511	<i>i</i>	5.10401	-0.29411565	+0.22425114		
<i>P</i>	3.49	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 03 24	704	1.3+	0.3+	1998 04 24	704	0.4-	0.9+	1999 11 14	699	0.4+	0.3-
1998 03 24	704	1.2-	0.9+	1999 10 03	703	0.3+	0.2+	1999 11 14	699	0.4-	0.4-
1998 03 24	704	0.1+	1.3-	1999 10 03	703	0.5+	0.0	1999 11 14	699	0.4+	0.7-
1998 03 24	704	0.2+	0.2-	1999 10 03	703	0.4+	0.2+	1999 12 04	699	0.2+	1.0+
1998 03 24	704	(3.9-	0.9+)	1999 10 03	703	0.2+	0.1+	1999 12 04	699	0.0	0.7+
1998 04 20	704	0.3-	0.3-	1999 10 30	703	0.3-	1.5+	1999 12 04	699	0.0	0.1-
1998 04 20	704	0.5-	1.9-	1999 10 30	703	0.0	0.1+	1999 12 05	704	0.4-	0.2-
1998 04 20	704	1.4+	0.9+	1999 10 30	703	0.1+	0.1+	1999 12 05	704	0.1-	0.1-
1998 04 20	704	(3.2-	0.2-)	1999 10 30	703	0.6-	1.4-	1999 12 05	704	1.0-	0.4+
1998 04 21	704	0.3-	0.3-	1999 11 05	704	0.1+	0.1-	1999 12 14	704	0.7+	0.3-
1998 04 21	704	1.2-	0.5+	1999 11 05	704	0.1-	0.2+	1999 12 14	704	0.6+	0.1+
1998 04 21	704	0.5-	0.9-	1999 11 05	704	0.1+	0.0	1999 12 14	704	0.7+	0.8+
1998 04 21	704	0.6+	0.0	1999 11 05	704	0.1-	0.3-	2000 01 05	704	0.5-	0.3+
1998 04 24	704	0.6-	0.5-	1999 11 05	704	0.1-	0.8-	2000 01 05	704	0.2+	0.9-
1998 04 24	704	0.6+	0.7+	1999 11 13	699	0.4-	0.2+	2000 01 05	704	0.5-	0.1+
1998 04 24	704	0.4-	0.7-	1999 11 13	699	0.3+	0.1-				
1998 04 24	704	1.1+	1.5+	1999 11 13	699	0.6-	0.2-				

1999 VL₁₃₅ = 1990 BE₄ = 1994 GF₁

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28274621	ω	56.01080	-0.99136830	-0.09958675		
<i>a</i>	2.2989959	Ω	118.14078	+0.06327614	-0.93307691		
<i>e</i>	0.1071728	<i>i</i>	5.54938	+0.11482604	-0.34561534		
<i>P</i>	3.49	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1990 01 24	033	0.7+	0.8-	1999 10 30	703	0.8-	0.4+	1999 12 05	704	0.6+	0.9-
1990 01 24	033	0.7-	0.2-	1999 10 30	703	0.4-	0.3-	1999 12 05	704	0.4+	0.5+

1992 10 03	675	(3.6-	0.4-)	1999 11 05	704	1.1+	0.5-	1999 12 14	704	0.4-	0.2-
1992 10 03	675	0.2+	0.6-	1999 11 05	704	0.5-	0.9-	1999 12 14	704	0.1-	0.3+
1994 04 08	400	0.1+	0.1-	1999 11 05	704	0.1-	0.2+	1999 12 14	704	0.1-	1.1+
1994 04 08	400	0.3-	0.6-	1999 11 05	704	0.8-	1.0+	2000 01 05	704	0.4+	0.6-
1998 06 24	704	0.5-	1.1-	1999 11 13	699	0.7-	0.0	2000 01 05	704	0.8-	0.0
1998 06 24	704	0.6+	0.6-	1999 11 13	699	0.4-	0.2+	2000 01 05	704	0.4+	0.4-
1998 06 24	704	0.5+	1.2+	1999 11 13	699	0.9+	0.3+	2000 01 05	704	0.1+	0.5-
1998 06 24	704	0.4-	1.0-	1999 11 14	699	1.3+	0.4+	2000 01 05	704	0.1+	0.5+
1998 06 24	704	(3.3-	1.6-)	1999 11 14	699	0.2-	0.1+	2000 01 08	704	0.5-	0.8-
1999 10 02	703	1.0+	0.3+	1999 11 14	699	0.3-	1.1+	2000 01 08	704	0.0	0.2-
1999 10 02	703	0.5-	0.2-	1999 12 04	699	0.1+	0.9+	2000 01 08	704	0.4+	0.3-
1999 10 02	703	0.8-	0.6-	1999 12 04	699	0.1+	0.4+	2000 01 08	704	0.6-	1.1-
1999 10 02	703	0.2+	0.9-	1999 12 04	699	0.9+	0.9+	2000 01 08	704	1.2+	0.6-
1999 10 30	703	0.2+	0.2-	1999 12 05	704	0.2-	1.0-				
1999 10 30	703	0.6-	0.2-	1999 12 05	704	0.1-	0.4+				

1999 VW₁₄₀ = 1997 GL₃₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17760334	ω	331.64175	+0.32257559	+0.94653607		
<i>a</i>	3.1345026	Ω	317.17671	-0.86737656	+0.29398534		
<i>e</i>	0.1380005	<i>i</i>	0.32051	-0.37894971	+0.13282353		
<i>P</i>	5.55	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 04 03	704	0.2+	0.4+	1999 11 10	691	0.1+	0.2+	1999 11 15	691	0.1+	0.1+
1997 04 03	704	0.4-	1.5-	1999 11 10	691	0.3-	0.1-	1999 11 15	691	0.1+	0.1+
1997 04 11	704	0.5+	1.2+	1999 11 12	704	0.3-	0.4-	1999 11 15	691	0.2+	0.1+
1997 04 11	704	0.2-	0.1-	1999 11 12	704	0.8-	0.3+				
1999 11 10	691	0.1+	0.1+	1999 11 12	704	0.7+	0.3-				

1999 VG₁₄₁ = 1997 HO₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20032438	ω	309.00196	-0.40005059	+0.91629878		
<i>a</i>	2.8927673	Ω	297.40695	-0.83415871	-0.37256347		
<i>e</i>	0.0158452	<i>i</i>	1.21796	-0.37965612	-0.14694561		
<i>P</i>	4.92	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 04 30	704	0.0	0.1+	1999 10 29	703	0.7-	0.2+	1999 11 14	704	1.4+	0.6-
1997 04 30	704	0.4-	0.8-	1999 10 29	703	(2.8-	0.7+)	1999 11 14	703	0.2+	0.5+
1997 04 30	704	0.5-	0.4-	1999 11 04	704	0.2+	0.0	1999 11 14	704	0.2+	0.2+
1997 04 30	704	0.2-	0.1+	1999 11 04	704	0.1+	0.4-	1999 11 14	703	0.1+	0.2-
1997 04 30	704	0.5+	1.1+	1999 11 04	704	0.4+	0.1-	1999 11 14	703	0.5+	0.0
1997 05 01	704	0.2-	0.1+	1999 11 04	704	1.2+	0.5+	1999 11 15	691	0.1-	0.1-
1997 05 01	704	0.4-	0.3+	1999 11 10	691	0.1+	0.1-	1999 11 15	691	0.3-	0.0
1997 05 01	704	0.0	0.5+	1999 11 10	691	0.2+	0.1-	1999 11 15	691	0.2-	0.0
1997 05 01	704	0.3+	0.2-	1999 11 10	691	0.3+	0.1-	1999 11 16	704	0.5-	0.3-
1997 05 01	704	0.8+	0.9-	1999 11 11	703	1.2-	0.4+	1999 11 16	704	0.0	0.2+
1999 10 06	704	0.0	0.0	1999 11 11	703	0.4-	0.1-	1999 11 16	704	0.5+	0.3-
1999 10 06	704	0.1+	0.5-	1999 11 11	703	0.7-	0.2+	1999 11 16	704	0.1+	0.5-
1999 10 06	704	0.4+	0.2+	1999 11 11	703	0.4-	0.2+	1999 12 07	704	0.2-	0.5-
1999 10 06	704	0.2-	0.0	1999 11 14	704	0.1+	0.1+	1999 12 07	704	0.0	0.8+
1999 10 06	704	0.5-	0.2-	1999 11 14	704	0.2+	0.2-	1999 12 07	704	0.3-	0.5-
1999 10 29	703	0.5-	0.5-	1999 11 14	704	0.0	0.2-				
1999 10 29	703	0.0	1.1+	1999 11 14	703	0.1+	0.6+				

1999 VU₁₄₃ = 1998 OT

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	163.69482		(2000.0)	P		Q	
<i>n</i>	0.21473450	ω	14.33168	−0.16572036	+0.98402158		
<i>a</i>	2.7618590	Ω	246.16259	−0.91165946	−0.17803771		
<i>e</i>	0.0428199	<i>i</i>	4.08140	−0.37605025	−0.00202805		
<i>P</i>	4.59	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 07 20	910	0.4+	0.3−	1999 11 04	704	0.4+	0.0	1999 11 14	703	0.4−	0.3+
1998 07 20	910	0.1+	0.1−	1999 11 04	704	1.9+	1.0+	1999 11 14	704	0.3+	0.5−
1998 07 20	910	0.1−	0.2−	1999 11 11	703	0.7−	0.4+	1999 11 14	703	0.6−	0.2−
1998 07 21	910	0.1−	0.1+	1999 11 11	703	0.4−	0.4−	1999 11 14	703	0.9+	1.9+
1998 07 21	910	0.1−	0.1+	1999 11 11	703	0.2+	0.1−	1999 11 16	704	0.4+	0.0
1998 07 21	910	0.2−	0.3+	1999 11 11	703	0.1+	0.6+	1999 11 16	704	0.1+	0.9−
1999 10 29	703	0.4−	0.5+	1999 11 14	704	0.1+	0.1+	1999 11 16	704	0.1+	0.5−
1999 10 29	703	0.1+	0.6−	1999 11 14	704	0.1+	0.5+	1999 11 16	704	0.1−	0.4−
1999 10 29	703	1.4−	0.1+	1999 11 14	703	0.8−	0.2+	1999 11 16	704	0.2−	0.2−
1999 10 29	703	0.0	0.9−	1999 11 14	704	0.3+	0.2−				
1999 11 04	704	0.6+	0.4−	1999 11 14	704	0.8−	0.1−				

1999 VB₁₄₄ = 1989 RW₂ = 1998 KL₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	84.33412		(2000.0)	P		Q	
<i>n</i>	0.20402866	ω	65.86079	+0.60358272	+0.79302669		
<i>a</i>	2.8576471	Ω	241.52066	−0.76132722	+0.54255180		
<i>e</i>	0.3110330	<i>i</i>	5.38174	−0.23678844	+0.27703107		
<i>P</i>	4.83	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1989 09 07	046	0.9−	0.8+	1998 05 22	699	(4.1+	1.3−)	1999 11 14	704	0.6+	0.0
1989 09 07	046	0.8−	1.3−	1998 05 22	699	1.4+	0.7−	1999 11 14	704	0.5+	0.2−
1989 09 09	046	1.3+	0.6+	1998 05 22	704	0.8−	1.8−	1999 11 14	704	0.6+	0.4−
1989 09 09	046	0.3+	0.2+	1998 05 22	699	0.8+	1.5−	1999 11 14	703	0.5−	0.2+
1998 04 21	704	1.0−	0.1−	1998 05 22	704	1.4−	0.3+	1999 11 14	704	0.7+	0.0
1998 04 21	704	0.2−	0.1−	1998 05 24	704	1.0+	1.3−	1999 11 14	703	0.1−	1.1+
1998 04 21	704	0.3−	0.6+	1998 05 24	704	0.5−	0.1−	1999 11 14	704	0.4+	0.1−
1998 04 21	704	1.3−	0.2+	1998 05 24	704	0.3+	1.2+	1999 11 14	703	0.2−	0.3+
1998 04 21	704	0.7−	0.5+	1998 05 24	704	1.1−	0.9+	1999 11 14	703	0.6−	0.5−
1998 04 25	699	0.1+	1.0−	1999 10 29	703	0.6−	0.1−	1999 11 16	704	0.2−	0.1−
1998 04 25	699	0.5+	1.4+	1999 10 29	703	0.0	0.2+	1999 11 16	704	0.6+	0.2−
1998 04 25	699	1.0+	0.5+	1999 10 29	703	1.1+	0.3+	1999 11 16	704	0.7+	0.3+
1998 04 30	566	1.2−	0.6−	1999 10 29	703	0.3+	0.3−	1999 12 06	704	0.0	0.1−
1998 04 30	566	0.1+	0.5−	1999 11 04	704	0.4−	1.1−	1999 12 06	704	0.6−	0.1+
1998 04 30	566	0.2−	0.2−	1999 11 04	704	0.0	0.1+	1999 12 06	704	1.0+	0.1−
1998 05 01	704	1.5+	0.0	1999 11 04	704	0.4−	0.7+	1999 12 06	704	1.1−	0.3−
1998 05 01	704	0.2+	0.2+	1999 11 04	704	0.0	0.1−	1999 12 12	703	0.2+	0.7+
1998 05 01	704	0.7+	0.4+	1999 11 04	704	0.5+	0.4−	1999 12 12	703	(2.1−	2.1+)
1998 05 01	704	0.1−	0.2+	1999 11 11	703	0.4+	0.9−	1999 12 12	703	0.7−	1.3−
1998 05 22	704	1.0+	0.6−	1999 11 11	703	0.5−	0.4−	1999 12 12	703	0.2+	0.3+
1998 05 22	704	0.1−	0.5−	1999 11 11	703	1.1−	0.7+				
1998 05 22	704	0.1−	1.1+	1999 11 11	703	0.3−	0.2−				

1999 VJ₁₄₄ = 1990 OC₃ = 1990 RS₁₀ = 1998 ML₂₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	153.83530		(2000.0)	P		Q	
<i>n</i>	0.23868620	ω	11.71023	−0.11134359	+0.98687717		
<i>a</i>	2.5738576	Ω	251.98145	−0.92141781	−0.14660120		
<i>e</i>	0.1653071	<i>i</i>	7.06388	−0.37227922	+0.06768711		
<i>P</i>	4.13	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 07 25	675	0.5+	1.1−	1999 10 03	704	0.3+	0.9−	1999 11 14	703	0.7−	0.4+
1990 07 25	675	0.7+	1.6−	1999 10 03	704	0.5−	0.0	1999 11 14	703	0.4+	0.1−

1990 07 27	675	(0.8+	3.9−)	1999 10 03	704	0.5−	0.1−	1999 11 16	704	0.2−	0.5−
1990 07 27	675	(1.9−	3.7−)	1999 10 29	703	0.6−	0.4+	1999 11 16	704	0.5+	0.1+
1990 07 29	675	0.1−	1.7+	1999 10 29	703	0.7−	0.3+	1999 11 16	704	0.5+	0.1−
1990 09 14	675	0.3+	1.1−	1999 10 29	703	0.6−	0.1+	1999 11 16	704	0.2+	0.1+
1990 09 14	675	0.6−	0.1−	1999 10 29	703	0.6−	0.2+	1999 11 16	704	1.0+	0.6−
1998 06 24	704	0.2+	1.1−	1999 11 03	704	0.4+	0.3−	1999 12 08	704	0.3+	0.5−
1998 06 24	704	0.4−	0.6−	1999 11 03	704	0.9+	0.4+	1999 12 08	704	0.4+	1.0−
1998 06 24	704	1.3+	0.2−	1999 11 03	704	0.0	0.7−	1999 12 08	704	0.1+	0.8−
1998 06 24	704	0.8−	0.1+	1999 11 03	704	0.7+	0.0	1999 12 08	704	0.2−	0.1−
1998 06 26	704	1.4+	0.9−	1999 11 03	704	0.7+	0.4−	1999 12 08	704	0.2−	1.2−
1998 06 26	704	1.0+	0.3+	1999 11 09	699	0.2−	0.1+	1999 12 12	703	0.1+	0.2+
1998 06 26	704	1.3−	0.8+	1999 11 09	699	0.1−	0.3+	1999 12 12	703	0.3−	0.1+
1998 07 21	704	0.8−	1.7+	1999 11 09	699	0.4−	0.4+	1999 12 12	703	0.3+	0.4+
1998 07 21	704	1.0−	1.4+	1999 11 11	703	0.4−	0.3+	1999 12 12	703	0.5+	0.6+
1998 07 21	704	0.1−	0.0	1999 11 11	703	0.2−	0.5+	2000 01 06	704	0.5−	0.1+
1998 07 21	704	0.2−	0.7−	1999 11 11	703	0.7−	0.2+	2000 01 06	704	0.3+	0.8+
1998 07 21	704	0.5+	1.5+	1999 11 11	703	0.7−	0.4+	2000 01 06	704	0.2−	0.6−
1999 10 03	704	0.8+	1.0+	1999 11 14	703	0.1+	0.5+	2000 01 06	704	0.2+	0.5+
1999 10 03	704	0.1−	0.2+	1999 11 14	703	0.4−	0.8+	2000 01 06	704	0.4+	0.2−

1999 VS₁₄₅ = 1997 EO₁₀ = 1998 MO₂₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	311.81127		(2000.0)	P		Q	
<i>n</i>	0.26209447	ω	348.46705	−0.80824179	−0.58881018		
<i>a</i>	2.4182293	Ω	155.45634	+0.54157488	−0.74790968		
<i>e</i>	0.0965352	<i>i</i>	0.95356	+0.23117495	−0.30648603		
<i>P</i>	3.76	<i>H</i>	16.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 03 07	691	0.3+	0.2+	1998 06 26	568	0.2+	0.3+	1999 11 09	704	0.7−	0.1+
1997 03 07	691	0.1+	0.2+	1998 06 26	568	0.4+	0.2+	1999 11 09	704	0.4+	0.1+
1997 03 07	691	0.2+	0.1−	1998 06 27	568	0.2−	0.1−	1999 11 15	704	0.3−	0.6−
1997 03 09	691	0.3−	0.0	1998 06 27	568	0.4−	0.1−	1999 11 15	704	0.3−	0.4+
1997 03 09	691	0.0	0.0	1999 11 09	704	0.7+	0.1−	1999 11 15	704	0.1−	0.5+
1997 03 09	691	0.2−	0.1−	1999 11 09	704	0.1+	0.1−				

1999 VY₁₅₃ = 1977 KX = 1993 UK₇ = 1998 WB₁₆

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	354.37822		(2000.0)	P		Q	
<i>n</i>	0.21106967	ω	99.73658	−0.98871004	−0.01253622		
<i>a</i>	2.7937368	Ω	79.65558	−0.05165427	−0.90689693		
<i>e</i>	0.1624467	<i>i</i>	8.73028	+0.14065661	−0.42116600		
<i>P</i>	4.67	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1977 05 19	095	1.4−	1.1−	1998 11 21	704	0.4−	1.3−	2000 02 04	704	0.0	1.8−
1993 10 10	809	1.0+	0.5+	1998 11 24	704	1.3−	0.1−	2000 02 04	704	0.9+	0.7−
1993 10 10	809	0.5+	0.6+	1998 11 24	704	0.9−	0.3−	2000 02 04	704	0.3+	0.1+
1993 10 10	809	0.2−	0.0	1998 11 24	704	0.5−	0.4+	2000 02 04	704	1.9+	0.3−
1993 10 20	809	0.7+	1.0+	1998 11 24	704	0.5−	1.6+	2000 02 04	704	0.9+	1.8+
1993 10 20	809	1.1+	0.8+	1999 11 10	703	0.7+	0.7+	2000 02 29	411	(1.2−	2.6+)
1993 10 20	809	0.6+	0.7+	1999 11 10	703	0.8+	0.0	2000 02 29	411	0.8−	0.7+
1993 10 21	809	(2.3+	0.6−)	1999 11 10	703	1.6+	0.3+	2000 03 01	411	0.4−	0.1−
1993 10 21	809	1.9+	0.3−	1999 11 10	703	0.8+	0.7−	2000 03 01	411	0.2−	0.4−
1993 10 21	809	1.0+	0.6−	1999 11 16	703	0.4+	0.3−	2000 03 05	704	0.2−	0.1+
1998 11 11	704	1.1−	0.2−	1999 11 16	703	1.2+	0.7+	2000 03 05	704	0.6−	0.0
1998 11 11	704	0.8−	0.1−	1999 11 16	703	0.5+	0.1−	2000 03 05	704	0.4−	0.3+
1998 11 11	704	0.4−	0.1−	1999 11 16	703	0.7+	1.0−	2000 03 05	704	0.7−	0.1+
1998 11 11	704	0.7+	1.6−	2000 01 07	704	0.1+	0.1−	2000 03 12	704	0.4−	0.5+
1998 11 21	704	0.8−	0.6−	2000 01 07	704	0.2+	0.3−	2000 03 12	704	0.5−	0.4+
1998 11 21	704	0.2−	0.6−	2000 01 07	704	0.6+	0.2−	2000 03 12	704	1.1−	0.2−
1998 11 21	704	0.1−	1.2−	2000 01 07	704	0.6+	0.5−	2000 03 12	704	1.3−	0.2−
1998 11 21	704	0.4−	0.7−	2000 01 07	704	0.5+	0.4−				

2000 MAR. 20

M.P.C. 39325

1999 WC₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	3.43793		(2000.0)		P		Q
<i>n</i>	0.29881641	ω	286.89026	−0.83230831			+0.25796431
<i>a</i>	2.2158129	Ω	270.28752	−0.08365523			−0.93343076
<i>e</i>	0.6384529	<i>i</i>	29.38237	−0.54796412			−0.24932194
<i>P</i>	3.30	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1990 07 27	675	0.7−	0.1−	1999 11 21	046	0.3+	0.2−	1999 12 17	670	0.8+	1.8−
1990 07 27	675	0.5+	0.7+	1999 11 21	046	0.2−	0.5+	1999 12 17	670	0.9−	0.5+
1999 11 17	704	0.5−	0.5+	1999 11 21	046	0.0	0.7+	1999 12 18	428	1.7+	0.4+
1999 11 17	704	1.2−	0.4−	1999 11 21	046	0.6−	0.3−	1999 12 18	428	0.1−	0.4+
1999 11 17	704	0.6−	0.4+	1999 11 21	046	0.5+	0.0	1999 12 30	413	0.3−	0.2−
1999 11 17	704	0.1−	0.5+	1999 11 27	046	1.2−	1.5+	1999 12 30	413	0.5−	0.4+
1999 11 19	557	0.0	0.6−	1999 11 27	046	0.0	0.1+	2000 02 07	413	0.2−	0.2+
1999 11 19	557	0.7−	0.1−	1999 11 27	046	1.8+	0.3+	2000 02 07	413	0.0	0.3+
1999 11 19	557	0.2+	1.4−	1999 11 27	046	0.1−	0.6−	2000 02 10	422	0.1−	0.0
1999 11 19	557	0.5+	0.7−	1999 12 16	670	(2.5−	0.0)	2000 02 10	422	0.1+	0.8−
1999 11 20	587	0.9+	0.6+	1999 12 16	670	(0.6−	2.2−)	2000 02 10	422	0.6−	0.2+

1999 XX₂ = 4276 T-3 = 1986 UX₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	345.34395		(2000.0)		P		Q
<i>n</i>	0.22580137	ω	58.97891	−0.10254446			−0.98566838
<i>a</i>	2.6708634	Ω	37.64134	+0.82143711			−0.15985379
<i>e</i>	0.1369596	<i>i</i>	12.66978	+0.56100420			+0.05389443
<i>P</i>	4.36	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1977 10 11	675	0.6+	0.9−	1999 10 29	703	0.5−	0.0	1999 11 14	704	0.3+	0.9−
1977 10 11	675	0.9+	0.3+	1999 10 29	703	0.7+	1.1−	1999 11 14	703	0.6−	0.4+
1977 10 12	675	0.3+	1.1−	1999 10 29	703	1.2+	0.7+	1999 11 14	704	0.2+	0.6−
1977 10 12	675	1.3−	0.4−	1999 11 04	704	0.2+	0.1−	1999 11 14	703	0.5−	0.0
1977 10 16	675	1.4+	1.1+	1999 11 04	704	0.6−	1.1+	1999 11 14	703	(2.3+	0.5+)
1977 10 16	675	0.7−	1.6+	1999 11 04	704	0.1+	1.4−	1999 11 16	704	0.4+	0.1−
1977 10 17	675	0.9−	0.4−	1999 11 04	704	0.5−	0.0	1999 11 16	704	0.1+	0.5−
1977 10 17	675	0.5−	1.0+	1999 11 04	704	0.2−	0.4+	1999 11 16	704	0.9+	0.8+
1977 10 21	675	0.4+	0.2+	1999 11 04	704	1.1+	0.2−	1999 11 16	704	0.4−	1.0−
1977 10 21	675	0.0	1.7−	1999 11 04	704	0.9−	0.2+	1999 11 16	704	0.3+	0.1−
1986 10 31	675(23.6−	2.7+)		1999 11 04	704	0.1+	0.2−	1999 12 04	703	0.3−	0.1+
1986 10 31	675(21.9−	0.9+)		1999 11 11	703	0.1−	0.3+	1999 12 04	703	0.3−	0.7+
1986 11 05	675 (5.4−	1.9+)		1999 11 11	703	0.0	0.0	1999 12 04	703	0.1−	0.0
1986 11 05	675	0.1−	0.2+	1999 11 11	703	0.2+	0.4−	1999 12 04	703	0.4−	0.5+
1999 10 03	703	0.8−	0.2+	1999 11 11	703	0.5−	0.1−	1999 12 05	703	1.8+	0.1+
1999 10 03	703	0.1−	0.0	1999 11 14	704	0.5+	0.5−	1999 12 05	703	0.6+	0.1+
1999 10 03	703	0.9−	0.4+	1999 11 14	704	0.3+	0.4−	1999 12 05	703	0.1+	0.3−
1999 10 03	703	0.7−	1.0+	1999 11 14	704	0.2+	1.0−	1999 12 05	703	0.9−	1.0+
1999 10 29	703	0.2+	0.1+	1999 11 14	703	0.4−	1.0+				

1999 XP₆ = 1997 ER₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	236.39511		(2000.0)		P		Q
<i>n</i>	0.27597603	ω	287.88469	−0.80253504			+0.59442581
<i>a</i>	2.3364428	Ω	288.61701	−0.52500746			−0.74420518
<i>e</i>	0.0843602	<i>i</i>	3.08163	−0.28338080			−0.30465818
<i>P</i>	3.57	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 03 07	552	0.1+	0.4+	1997 03 11	552	0.0	0.4+	1999 12 04	703	0.2−	0.4+
1997 03 07	552	0.2−	0.1+	1999 11 03	704	0.9−	0.1+	1999 12 04	703	0.0	0.1−
1997 03 08	552	0.0	0.3−	1999 11 03	704	0.5+	0.0	1999 12 04	703	0.4−	0.0
1997 03 08	552	0.8−	0.9−	1999 11 03	704	0.3−	0.2−	1999 12 05	703	0.9−	0.8+
1997 03 08	552	1.0+	1.3−	1999 11 03	704	0.0	0.1+	1999 12 05	703	0.4−	0.2−
1997 03 09	552	0.1+	0.3−	1999 11 03	704	0.7+	0.3−	1999 12 05	703	0.6−	0.3+

1997 03 09	552	0.2−	0.2+	1999 11 14	704	0.0	0.0	1999 12 05	703	0.5−	0.4+
1997 03 09	552	0.3−	0.8−	1999 11 14	704	0.1+	0.6−	2000 01 04	704	0.7+	0.7+
1997 03 09	552	0.2−	0.4+	1999 11 14	704	0.6+	0.2−	2000 01 04	704	0.0	0.5+
1997 03 10	691	0.3+	0.3−	1999 11 14	704	0.2+	1.2−	2000 01 04	704	0.3+	1.2−
1997 03 10	691	0.2+	0.4−	1999 11 14	704	0.4+	0.6−	2000 01 04	704	0.4+	0.8−
1997 03 10	691	0.0	0.2−	1999 11 16	704	0.3+	0.3−	2000 01 04	704	0.6−	0.5−
1997 03 10	552	0.1+	0.1+	1999 11 16	704	0.3+	0.4−	2000 01 30	704	0.2+	0.3+
1997 03 10	552	0.2−	1.3+	1999 11 16	704	0.3+	0.2+	2000 01 30	704	0.1+	0.7+
1997 03 10	552	0.2+	0.9+	1999 11 16	704	0.6+	0.1+	2000 01 30	704	0.2−	1.1+
1997 03 11	552	0.0	0.4+	1999 11 16	704	0.5−	0.1−	2000 01 30	704	0.6+	0.2+
1997 03 11	552	0.4−	0.4−	1999 12 04	703	0.0	0.7+	2000 01 30	704	0.8−	0.7+

1999 XE₇ = 1991 VF₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	27.65101		(2000.0)		P		Q
<i>n</i>	0.12446635	ω	345.16826	+0.80478916			−0.57979281
<i>a</i>	3.9728431	Ω	50.98242	+0.55988164			+0.67041185
<i>e</i>	0.2737936	<i>i</i>	9.41529	+0.19709631			+0.46302078
<i>P</i>	7.92	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1991 11 08	691	0.1+	0.2−	1999 11 14	704	0.2−	0.0	1999 12 04	703	1.3+	0.3+
1991 11 08	691	0.1+	0.1−	1999 11 14	704	0.8−	0.0	1999 12 04	703	0.1+	0.1+
1991 11 08	691	0.0	0.2+	1999 11 14	704	0.9−	0.2−	1999 12 05	703	0.0	0.0
1991 11 12	691	0.3−	0.1−	1999 11 14	704	0.5−	0.0	1999 12 05	703	0.8−	0.8+
1991 11 12	691	0.1+	0.0	1999 11 16	704	0.1−	0.2−	1999 12 05	703	0.4−	0.3+
1991 11 12	691	0.0	0.1+	1999 11 16	704	0.6+	0.7−	1999 12 05	703	0.6+	0.3−
1999 11 03	704	0.2+	0.1+	1999 11 16	704	0.4−	0.5+	1999 12 15	704	0.2+	0.4+
1999 11 03	704	0.1−	0.1−	1999 11 16	704	0.4+	1.0+	1999 12 15	704	0.5−	0.1+
1999 11 03	704	0.1+	0.1+	1999 11 16	704	0.1+	0.6+	1999 12 15	704	0.3+	0.3−
1999 11 03	704	0.8+	1.3−	1999 12 04	703	0.2+	0.2+	1999 12 15	704	0.4+	0.2−
1999 11 14	704	0.0	0.3−	1999 12 04	703	0.0	0.7+	1999 12 15	704	0.4−	1.9−

1999 XX₁₃ = 1996 HU₁₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	336.64192		(2000.0)		P		Q
<i>n</i>	0.17780217	ω	263.40453	−0.42486942			−0.89228339
<i>a</i>	3.1321653	Ω	213.11474	+0.90096791			−0.40040244
<i>e</i>	0.1406445	<i>i</i>	16.23049	+0.08799322			−0.20858629
<i>P</i>	5.54	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 18	809	1.0−	0.1−	1999 11 05	704	0.3+	0.3+	1999 12 05	704	0.2+	0.3−
1996 04 18	809	2.4−	0.0	1999 11 05	704	0.7+	0.6−	1999 12 05	704	0.1+	0.9+
1996 04 18	809	2.5−	0.7−	1999 11 16	703	0.4+	0.8+	1999 12 06	704	0.2−	0.1−
1996 04 20	809	1.7+	1.0+	1999 11 16	703	0.3−	1.5−	1999 12 06	704	0.2−	0.1−
1996 04 20	809	2.1+	0.3+	1999 11 16	703	0.4−	1.0−	1999 12 06	704	0.1−	0.4−
1996 04 20	809	2.1+	0.4−	1999 11 16	703	1.1+	0.5−	1999 12 06	704	0.0	0.4−
1999 11 05	704	0.1+	0.5+	1999 12 05	704	0.3−	0.8−	1999 12 06	704	0.1+	0.0
1999 11 05	704	0.5−	0.5+	1999 12 05	704	0.5+	1.0+				
1999 11 05	704	0.8−	0.8+	1999 12 05	704	0.7−	1.0+				

1999 XC₁₅

Id. A. Gnädig (1977, 1986, 1995 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	342.69357		(2000.0)		P		Q
n	0.37258458	ω	42.72792		-0.71312790		-0.53146883
a	1.9127261	Ω	99.39509		+0.44981022		-0.84706956
e	0.0681512	i	27.60473		+0.53769821		+0.00374800
P	2.65	H	15.4	G	0.15	U	2

1986 12 30	675	(6.6+	0.5−)	1999 12 14	704	0.3+	0.2−	2000 01 04	704	0.0	0.4+
1986 12 30	675	(8.2+	4.8−)	1999 12 14	704	0.6−	0.4+	2000 01 04	704	0.1+	0.4+
1995 03 28	675	1.1−	1.9−	1999 12 14	704	0.3−	0.1+	2000 01 04	704	0.5+	0.1+
1995 03 28	675	0.2−	0.6−	1999 12 14	704	0.3−	0.4+	2000 01 04	704	0.1+	0.3+
1998 06 19	910	1.2+	1.8+	1999 12 15	704	0.3+	0.1−	2000 01 06	106	0.3+	0.2+
1998 06 19	910	1.1+	1.8+	1999 12 15	704	0.1+	0.3−	2000 01 06	106	0.3+	0.7+
1998 06 19	910	0.9+	1.5+	1999 12 15	704	0.1+	0.4−	2000 01 06	106	0.0	0.4+
1999 12 06	704	0.1+	0.1+	1999 12 15	704	0.2+	0.1+	2000 01 25	704	0.1+	0.1+
1999 12 06	704	0.3−	0.1−	1999 12 15	704	0.1+	0.1−	2000 01 25	704	0.3+	0.8+
1999 12 06	704	0.3−	0.2+	1999 12 15	704	0.1−	0.3−	2000 01 25	704	0.1−	0.4+
1999 12 07	704	0.1−	0.0	1999 12 15	704	0.1−	0.2−	2000 01 25	704	0.7−	0.4+
1999 12 07	704	0.2−	0.0	1999 12 15	704	0.2+	0.1+	2000 01 25	704	0.2+	0.4+
1999 12 07	704	0.6−	0.0	1999 12 15	704	0.1−	0.3−	2000 02 26	704	0.4+	0.4+
1999 12 07	704	0.2−	0.5+	1999 12 15	704	0.0	0.3−	2000 02 26	704	0.5+	0.4−
1999 12 08	704	0.5−	0.1+	2000 01 03	704	0.3+	0.7+	2000 02 26	704	0.0	0.6−
1999 12 08	704	0.6−	0.1−	2000 01 03	704	0.2−	0.1+				
1999 12 08	704	0.3−	0.1−	2000 01 03	704	0.1+	0.3+				

1999 XS₁₇ = 1975 XO₁ = 1979 WS₆ = 1979 WB = 1991 RF₈

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	355.04037		(2000.0)	P		Q	
<i>n</i>	0.24404776	ω	28.96858	+0.37114276		−0.92590406	
<i>a</i>	2.5360209	Ω	39.36236	+0.82914096		+0.29631747	
<i>e</i>	0.2693539	<i>i</i>	6.37215	+0.41806498		+0.23430242	
<i>P</i>	4.04	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1975 12 01	095	0.3+	1.3+	1999 09 14	704	0.0	0.4−	1999 11 15	704	0.5+	0.1+
1979 11 17	095	0.3−	1.8−	1999 09 14	704	0.3+	0.0	1999 12 02	704	0.7+	0.9+
1979 11 25	046	1.5−	0.7−	1999 09 14	704	0.2+	0.1−	1999 12 02	704	0.3+	0.9+
1979 11 25	046	1.4+	0.3−	1999 09 14	704	0.3+	0.3+	1999 12 02	704	0.2+	1.7+
1991 09 12	675	1.1+	0.2−	1999 10 02	704	0.6−	0.1+	1999 12 07	704	0.7−	0.1+
1991 09 12	675	0.1+	0.4+	1999 10 02	704	0.6−	1.5−	1999 12 07	704	0.6−	0.4−
1991 09 14	675	0.9+	0.5−	1999 10 02	704	0.2−	0.3−	1999 12 07	704	0.7−	0.2−
1991 09 14	675	0.6+	0.1−	1999 10 02	704	0.2−	0.2−	1999 12 07	704	0.0	0.4−
1999 09 08	703	0.6−	0.8+	1999 10 02	704	0.1+	0.4−	1999 12 07	704	0.6−	1.0−
1999 09 08	703	0.4−	0.2+	1999 11 15	704	0.1+	0.1+	1999 12 30	699	0.1−	0.9+
1999 09 08	703	0.1+	0.7+	1999 11 15	704	0.5−	0.3−	1999 12 30	699	0.4−	1.0+
1999 09 08	703	0.0	0.5+	1999 11 15	704	0.2−	0.0	1999 12 30	699	(1.5−	2.2+)
1999 09 14	704	0.3+	0.1−	1999 11 15	704	0.2+	0.3+				

1999 XY₁₇ = 1990 TN₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	36.77545		(2000.0)	P		Q	
<i>n</i>	0.21792232	ω	140.59588	+0.99843976		+0.03000845	
<i>a</i>	2.7348588	Ω	217.76481	−0.04429938		+0.93908087	
<i>e</i>	0.1769472	<i>i</i>	4.40998	+0.03399421		+0.34238372	
<i>P</i>	4.52	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 10 11	033	0.1+	0.4−	1999 10 04	704	0.8+	0.4−	1999 11 16	704	0.1−	1.3−
1990 10 12	033	1.0−	0.1−	1999 10 04	704	0.2+	0.0	1999 11 16	704	0.7−	0.4+
1990 10 12	033	0.2+	0.3−	1999 10 04	704	0.1+	1.3+	1999 11 16	704	0.1−	1.3+
1990 10 13	033	0.9+	0.1−	1999 10 04	704	0.2−	0.5+	1999 12 03	704	0.2−	0.6+
1990 10 14	033	0.5+	1.0−	1999 10 04	704	0.6+	0.2−	1999 12 03	704	0.5+	0.1+
1999 09 07	704	0.3+	0.2−	1999 10 04	704	0.6+	0.2+	1999 12 03	704	0.8−	0.3+
1999 09 07	704	0.2+	0.4+	1999 10 04	704	1.5−	1.2+	1999 12 03	704	0.1+	0.4+
1999 09 07	704	0.1+	0.5−	1999 10 04	704	0.4−	0.0	1999 12 03	704	0.3−	0.6+
1999 09 07	704	0.7+	0.1−	1999 10 04	704	0.5−	0.1−	1999 12 07	704	0.3+	1.1+
1999 09 07	704	0.4−	0.1−	1999 10 04	704	(3.1−	0.2+)	1999 12 07	704	0.3−	0.2−
1999 09 29	703	0.3−	0.1+	1999 11 14	704	0.8−	0.2+	1999 12 07	704	0.7−	0.1−
1999 09 29	703	0.0	0.3−	1999 11 14	704	0.4+	1.4−	1999 12 07	704	1.4+	0.0
1999 09 29	703	0.5−	0.1+	1999 11 14	704	0.9+	1.0−				
1999 09 29	703	0.2+	0.0	1999 11 16	704	0.5−	0.6−				

1999 XV₁₉ = 1986 WR₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	47.27380		(2000.0)	P		Q	
<i>n</i>	0.22482764	ω	123.93832	+0.98778054		+0.05818506	
<i>a</i>	2.6785694	Ω	233.14797	−0.09875199		+0.95136608	
<i>e</i>	0.2035572	<i>i</i>	10.40971	+0.12057214		+0.30251791	
<i>P</i>	4.38	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1986 11 30	381	(0.4−	5.8−)	1999 10 03	704	0.1+	0.4−	1999 11 16	704	1.6+	0.2+
1986 11 30	381	0.3−	0.0	1999 10 03	704	0.5+	1.1−	1999 11 16	704	(2.5+	0.5+)
1986 12 01	381	(3.7+	2.0+)	1999 10 03	704	0.7+	0.4−	1999 11 16	704	1.3+	0.2−
1986 12 01	381	0.3+	0.6+	1999 10 03	704	0.7+	0.4−	1999 11 16	704	0.9+	0.1−
1999 07 23	704	0.3−	0.2+	1999 11 04	703	0.1−	0.2−	1999 12 05	704	0.3−	0.5+
1999 07 23	704	0.2+	0.5+	1999 11 04	704	0.1−	0.1+	1999 12 05	704	1.1−	0.4+
1999 07 23	704	0.1−	0.4−	1999 11 04	703	0.1+	0.4+	1999 12 05	704	0.8−	0.5−
1999 07 23	704	0.4−	0.8+	1999 11 04	704	0.0	0.2−	1999 12 05	704	0.9−	1.1+
1999 09 18	704	0.8−	0.2−	1999 11 04	703	0.0	0.3+	1999 12 07	704	0.6+	0.7−
1999 09 18	704	0.4−	1.2+	1999 11 04	704	0.1+	0.1+	1999 12 07	704	0.5−	0.1−
1999 09 18	704	1.2−	0.3+	1999 11 04	703	0.4−	0.1+	1999 12 07	704	0.3−	0.3−
1999 09 18	704	0.7−	0.0	1999 11 04	704	0.3−	0.3+	1999 12 07	704	0.4−	0.3+
1999 10 03	704	0.5+	0.8−	1999 11 04	704	0.7+	0.2−	1999 12 07	704	0.5+	0.4−

1999 XH₂₄ = 1998 KK₂₄

Id. A. Doppler, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	91.54681		(2000.0)	P		Q	
<i>n</i>	0.22252654	ω	68.96943	+0.66164326		+0.74498517	
<i>a</i>	2.6970035	Ω	242.74705	−0.71855520		+0.59757564	
<i>e</i>	0.2396039	<i>i</i>	5.48676	−0.21425832		+0.29648011	
<i>P</i>	4.43	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 04 22	704	0.6−	0.2+	1998 05 24	704	1.3+	0.9+	1999 11 14	704	0.2+	0.2−
1998 04 22	704	1.1+	1.9−	1998 05 24	704	1.4−	0.9+	1999 11 16	704	0.2−	0.4+
1998 04 22	704	1.2−	1.6−	1999 10 03	703	0.2+	0.2+	1999 11 16	704	0.5+	1.0−
1998 04 22	704	0.8+	0.9−	1999 10 03	703	0.9−	0.3−	1999 11 16	704	0.4+	0.2−
1998 04 25	809	2.8+	1.6+	1999 10 03	703	0.3+	0.7+	1999 11 16	704	1.1+	0.2−
1998 04 25	809	1.5+	1.0+	1999 10 03	703	0.4−	0.3−	1999 11 16	704	0.8+	0.3−
1998 04 25	809	0.8+	0.3−	1999 10 29	703	0.3−	1.0−	1999 12 04	703	1.0−	0.1−
1998 05 01	704	0.1−	1.4−	1999 10 29	703	2.2−	0.2+	1999 12 04	703	0.6−	1.0+
1998 05 01	704	0.4−	0.6−	1999 10 29	703	0.7−	0.7−	1999 12 04	703	0.1+	0.1−
1998 05 01	704	1.1−	0.8+	1999 10 29	703	0.5−	1.4−	1999 12 04	703	0.3+	0.0
1998 05 01	704	0.7−	0.3−	1999 11 03	704	0.0	0.2−	1999 12 06	704	0.0	0.2+
1998 05 22	704	0.0	1.2−	1999 11 03	704	0.0	0.0	1999 12 06	704	0.6+	0.4+
1998 05 22	704	0.8−	0.5−	1999 11 03	704	0.1−	0.1−	1999 12 06	704	0.6+	0.2+
1998 05 22	704	0.8+	1.2+	1999 11 03	704	0.0	0.8+	1999 12 07	704	0.1+	0.6−
1998 05 22	704	1.4−	0.6+	1999 11 03	704	0.6−	0.0	1999 12 07	704	1.0+	1.0−
1998 05 22	704	0.3+	0.3+	1999 11 14	704	0.6+	0.1−	1999 12 07	704	0.3−	0.5−
1998 05 24	704	0.4−	0.3−	1999 11 14	704	0.6+	0.1+	1999 12 07	704	0.1+	0.1+
1998 05 24	704	1.4−	0.7−	1999 11 14	704	0.2+	0.2+	1999 12 07	704	0.4+	0.3+
1998 05 24	704	0.0	1.0−	1999 11 14	704	0.4+	0.0				

1997 06 07	809	1.0−	0.0	1999 11 15	704	0.2−	0.2−	1999 12 06	704	0.8−	0.3+
1997 06 08	809	0.3+	1.0+	1999 11 15	704	0.1+	0.6−	1999 12 07	704	2.0−	0.3−
1997 06 08	809	0.5+	0.4+	1999 11 15	704	0.3+	0.8−	1999 12 07	704	0.7−	1.8+
1997 06 08	809	0.7+	0.3+	1999 11 15	704	1.1+	1.6−	1999 12 07	704	0.5−	0.7+
1999 10 20	704	0.4+	1.0+	1999 11 15	704	0.4−	1.0−	1999 12 08	704	1.1+	0.5+
1999 10 20	704	0.1+	0.4+	1999 11 16	704	0.6+	0.7−	1999 12 08	704	0.2+	0.1+
1999 10 20	704	0.4−	0.7+	1999 11 16	704	0.5+	1.1−	1999 12 08	704	0.8+	0.0
1999 10 20	704	0.2−	0.6+	1999 11 16	704	0.4−	0.6−	1999 12 08	704	0.5+	0.5+
1999 11 01	703	0.5−	1.7+	1999 11 16	704	0.4−	0.9−	1999 12 08	704	0.5+	1.1+
1999 11 01	703	0.4+	0.4+	1999 11 16	704	0.3−	1.5−	1999 12 12	703	0.9+	0.4+
1999 11 01	703	0.6−	0.7+	1999 12 04	703	0.2−	0.0	1999 12 12	703	1.4+	0.9+
1999 11 01	703	0.9−	0.4+	1999 12 04	703	1.5−	0.4+	1999 12 12	703	0.7+	0.0
1999 11 04	704	0.0	0.1+	1999 12 04	703	0.6−	0.1−	1999 12 12	703	0.6+	0.3−
1999 11 04	704	0.0	0.4−	1999 12 04	703	1.8−	0.3+				
1999 11 04	704	0.4+	0.4−	1999 12 06	704	0.5−	0.0				

1999 XN₄₂ = 1991 NJ₇ = 1995 WD₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	107.72352		(2000.0)		P		Q
<i>n</i>	0.26675376	ω	26.86590	+0.67011649			+0.74164456
<i>a</i>	2.3899878	Ω	285.22656	−0.68649488			+0.60383313
<i>e</i>	0.1814507	<i>i</i>	1.78886	−0.28225640			+0.29214533
<i>P</i>	3.69	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 07 12	809	1.2−	0.3−	1995 11 27	046	0.5+	0.6−	1999 11 03	704	0.3+	0.2−
1991 07 12	809	0.8−	0.2−	1995 11 27	046	0.9+	1.0−	1999 11 14	704	0.1+	0.2−
1991 07 12	809	0.5−	0.5−	1995 11 27	046	1.7+	0.0	1999 11 14	704	0.1+	0.0
1991 07 14	809	0.6+	0.5−	1995 11 27	046	1.3+	0.5+	1999 11 14	704	0.2+	0.7−
1991 07 14	809	0.8+	0.5−	1998 05 01	704	0.7+	1.0−	1999 11 14	704	0.2+	0.9−
1991 07 14	809	1.2+	0.6−	1998 05 01	704	0.7−	0.3+	1999 11 14	704	0.1+	0.7−
1991 07 15	809	1.2−	0.1−	1998 05 01	704	0.5+	0.7+	1999 11 16	704	0.1+	0.4−
1991 07 15	809	0.5−	0.1+	1998 05 01	704	1.1−	0.3+	1999 11 16	704	0.9+	0.4−
1991 07 15	809	0.2−	0.0	1998 05 24	704	0.2+	0.9+	1999 11 16	704	0.8+	0.9−
1991 07 16	809	0.5+	0.3−	1998 05 24	704	0.1−	0.0	1999 11 16	704	0.6+	0.2+
1991 07 16	809	0.7+	0.1+	1998 05 24	704	0.4+	1.1−	1999 11 16	704	0.2+	0.3−
1991 07 16	809	1.4+	0.1+	1998 05 24	704	0.7−	2.0−	1999 12 07	704	0.3−	0.3−
1995 11 26	046	0.7−	1.3+	1999 10 06	704	0.4+	0.1−	1999 12 07	704	0.0	0.1−
1995 11 26	046	1.5−	1.5+	1999 10 06	704	1.1+	0.1+	1999 12 07	704	1.1−	0.2−
1995 11 26	046	1.3−	1.3+	1999 10 06	704	0.1−	0.4+	1999 12 07	704	0.4−	0.3+
1995 11 26	046	1.0−	1.1+	1999 10 06	704	0.3+	0.1−	1999 12 08	704	1.2−	0.3−
1995 11 26	046	1.3−	1.6+	1999 10 06	704	0.2−	0.1−	1999 12 08	704	0.7−	1.0−
1995 11 26	046	1.6−	0.7+	1999 11 03	704	0.5−	1.2−	1999 12 08	704	0.6+	0.6+
1995 11 26	046	1.9−	1.3+	1999 11 03	704	0.0	0.8−	1999 12 08	704	0.6+	0.1−
1995 11 27	046	1.2+	0.7−	1999 11 03	704	0.3+	1.8−				

1999 XB₄₅ = 1990 TO₅ = 1998 MP₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	159.90600		(2000.0)		P		Q
<i>n</i>	0.23759536	ω	25.35340	−0.03107545			+0.99392430
<i>a</i>	2.5817296	Ω	243.01990	−0.93603785			−0.06598594
<i>e</i>	0.1715917	<i>i</i>	6.80457	−0.35052455			+0.08809280
<i>P</i>	4.15	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1990 10 09	413	0.1−	0.3+	1999 11 09	703	0.1+	1.3+	1999 12 02	691	0.2+	0.2−
1998 06 24	704	0.7+	0.2−	1999 11 09	703	1.1−	0.1+	1999 12 04	703	0.1−	0.1+
1998 06 24	704	0.8−	0.8+	1999 11 09	703	0.0	0.4−	1999 12 04	703	0.3−	0.3−
1998 06 24	704	1.2+	1.5+	1999 11 14	704	0.3−	0.7−	1999 12 04	703	0.6−	0.7+
1998 06 24	704	0.1+	0.9−	1999 11 14	704	0.3+	0.7−	1999 12 04	703	0.5+	0.4−
1998 06 26	704	0.3−	0.4−	1999 11 14	704	0.5+	0.5−	1999 12 07	704	0.3−	0.9+
1998 06 26	704	0.4−	0.6+	1999 11 14	704	0.3+	0.3−	1999 12 07	704	0.1+	0.4+
1998 06 26	704	0.2−	0.6−	1999 11 14	704	0.6+	0.3−	1999 12 07	704	0.4−	1.6+
1998 06 26	704	0.3−	1.0−	1999 11 16	704	0.7+	0.6−	1999 12 07	704	0.2+	0.0
1999 11 05	704	1.0+	1.2+	1999 11 16	704	1.3+	0.6−	1999 12 08	704	1.2+	0.2−
1999 11 05	704	0.6+	1.6+	1999 11 16	704	(2.6+	0.8−)	1999 12 08	704	0.2−	0.7−

1999 11 05	704	0.6−	0.2−	1999 11 16	704	0.9+	1.6−	1999 12 08	704	0.7−	0.3+
1999 11 05	704	1.8−	1.3−	1999 12 02	691	0.2+	0.2−	1999 12 08	704	0.8−	0.4+
1999 11 09	703	1.7−	0.8+	1999 12 02	691	0.3+	0.4−				

1999 XK₄₇ = 1993 RQ₁₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	149.08272		(2000.0)		P		Q
<i>n</i>	0.18829852	ω	322.47894	+0.23434530			+0.97210531
<i>a</i>	3.0146584	Ω	321.07142	−0.88816295			+0.21004305
<i>e</i>	0.0714755	<i>i</i>	0.88191	−0.39528325			+0.10437037
<i>P</i>	5.23	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1993 09 15	809	0.2−	0.3+	1999 11 16	704	1.3+	0.6−	1999 12 07	704	0.2+	0.1−
1993 09 15	809	0.8−	0.4−	1999 11 16	704	0.2+	0.3−	1999 12 07	704	0.4+	0.8−
1993 09 15	809	2.6−	1.3−	1999 11 16	704	1.7−	1.5+	1999 12 07	704	0.5−	0.9+
1993 09 22	809	1.5+	1.5+	1999 12 02	699	0.3+	0.3+	1999 12 07	704	0.2−	0.5−
1993 09 22	809	1.1+	0.1+	1999 12 02	699	0.7+	1.9+	1999 12 07	704	0.6−	0.3−
1993 09 22	809	0.8+	0.2+	1999 12 02	699	0.5+	1.1+	1999 12 08	704	1.6+	0.4+
1999 11 14	704	0.5−	1.8−	1999 12 05	703	0.5+	1.0+	1999 12 08	704	0.7+	0.6+
1999 11 14	704	1.1−	1.9−	1999 12 05	703	0.7+	0.2−	1999 12 08	704	1.5−	0.9+
1999 11 14	704	0.6−	1.3−	1999 12 05	703	0.5+	0.4+				
1999 11 14	704	1.2−	1.8−	1999 12 05	703	0.0	0.9+				

1999 XF₅₂ = 1981 UU₂ = 1997 AW₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	94.26031		(2000.0)		P		Q
<i>n</i>	0.27548633	ω	71.81942	+0.90629664			+0.42082877
<i>a</i>	2.3392107	Ω	263.27848	−0.40112671			+0.82732089
<i>e</i>	0.1859610	<i>i</i>	2.25689	−0.13313061			+0.37207968
<i>P</i>	3.58	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 10 30	381	0.4+	0.5−	1999 11 03	704	0.1−	0.7−	1999 12 07	704	0.2+	0.3+
1981 10 30	381	0.2+	2.2−	1999 11 03	704	0.8−	0.7+	1999 12 07	704	0.2+	0.5−
1997 01 02	691	0.4−	0.0	1999 11 03	704	0.7+	0.3+	1999 12 07	704	1.5−	0.5−
1997 01 02	691	0.3−	0.1−	1999 11 14	704	0.8−	0.3+	1999 12 07	704	0.2+	0.0
1997 01 02	691	0.7−	0.2−	1999 11 14	704	0.6−	1.2+	1999 12 07	704	0.4−	0.1−
1997 01 10	691	0.3+	0.0	1999 11 14	704	(0.9−	2.1+)	1999 12 08	704	(2.3+	1.1−)
1997 01 10	691	0.3+	0.2−	1999 11 16	704	0.1+	1.3+	1999 12 08	704	0.9+	1.1−
1997 01 10	691	0.5+	0.1−	1999 11 16	704	0.2+	0.3+	1999 12 08	704	0.2+	0.3−
1999 11 03	704	0.9+	0.6+	1999 11 16	704	0.2+	0.2+				
1999 11 03	704	0.2−	0.9+	1999 11 16	704	0.4+	0.0				

1999 XS₅₉ = 1997 GT₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	354.51757		(2000.0)		P		Q
<i>n</i>	0.27318112	ω	236.87848	−0.34583178			−0.93810293
<i>a</i>	2.3523518	Ω	233.36568	+0.86858937			−0.31239039
<i>e</i>	0.1670229	<i>i</i>	1.36098	+0.35489841			−0.14958319
<i>P</i>	3.61	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 04 03	704	0.2+	0.3+	1999 11 16	704	0.6−	0.3+	1999 12 08	704	0.1−	0.1−
1997 04 03	704	0.6+	0.3−	1999 11 16	704	0.3−	1.2+	1999 12 08	704	0.1−	0.0
1997 04 07	704	0.7−	0.3+	1999 11 16	704	0.7+	0.1+	1999 12 08	704	0.1+	0.6+
1997 04 07	704	0.1+	0.1−	1999 11 16	704	0.4−	0.9+	1999 12 08	704	0.3−	0.1−
1999 11 12	704	0.1+	0.6−	1999 12 07	704	0.4−	0.6+	1999 12 08	704	0.3−	0.2−
1999 11 12	704	0.6+	0.7−	1999 12 07	704	0.0	0.0	2000 01 06	704	0.2−	0.2+
1999 11 12	704	0.0	0.3−	1999 12 07	704	0.1−	0.6+	2000 01 06	704	1.0+	1.1−
1999 11 12	704	0.2+	0.3−	1999 12 07	704	0.5−	0.4+	2000 01 06	704	0.0	0.4−
1999 11 12	704	0.6+	1.1−	1999 12 07	704	0.1−	0.3+	2000 01 06	704	0.0	0.6−

1999 XW₇₄ = 2000 AJ₇₁ = 1985 SU₂ = 1994 SJ₁₃ = 1998 MH₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	81.72218		(2000.0)	P		Q	
<i>n</i>	0.21877957	ω	97.21673	+0.98563094	+0.10587490		
<i>a</i>	2.7277100	Ω	256.77039	-0.14754962	+0.91894824		
<i>e</i>	0.2129749	<i>i</i>	7.77029	+0.08222379	+0.37990082		
<i>P</i>	4.51	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1985 09 19	095	0.5-	1.4+	1998 06 24	704	0.3-	0.4+	1999 12 08	704	0.0	0.3-
1994 09 30	327	1.2+	0.1-	1998 06 24	704	1.1-	0.0	1999 12 08	704	0.3+	0.2-
1994 09 30	327	(2.6-	1.8-)	1998 06 26	704	1.0+	1.1-	1999 12 08	704	0.3-	0.7-
1994 09 30	327	0.5-	0.1-	1998 06 26	704	0.1-	1.1-	2000 01 05	704	0.0	0.3+
1994 09 30	327	1.0-	1.2-	1998 06 26	704	1.5+	1.8-	2000 01 05	704	0.1-	0.3-
1994 09 30	327	1.0+	0.7-	1998 06 26	704	(1.0+	2.4-)	2000 01 05	704	0.2+	0.5-
1994 09 30	327	0.8+	1.2+	1999 12 07	704	0.8+	1.8+	2000 01 05	704	0.2+	0.4-
1994 10 01	327	(2.1+	2.4+)	1999 12 07	704	1.2-	0.7+	2000 01 05	704	0.1-	0.4-
1994 10 01	327	0.8-	0.4+	1999 12 07	704	0.8+	0.2-	2000 01 06	704	0.0	0.4-
1994 10 01	327	0.4-	0.1-	1999 12 07	704	0.6-	0.3-	2000 01 06	704	0.1-	0.9-
1998 06 24	704	0.5-	0.1+	1999 12 08	704	0.2-	0.2-	2000 01 06	704	0.2+	1.1-
1998 06 24	704	0.4+	0.6+	1999 12 08	704	0.1+	0.4-	2000 01 06	704	0.5-	1.2-

1999 XC₈₆ = 1994 NW₁₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	66.78870		(2000.0)	P		Q	
<i>n</i>	0.24321137	ω	112.78977	+0.89418698	-0.44494914		
<i>a</i>	2.5418317	Ω	273.66076	+0.39041419	+0.82910933		
<i>e</i>	0.2440443	<i>i</i>	2.84291	+0.21910365	+0.33852324		
<i>P</i>	4.05	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 07 08	809	(0.5+	3.2+)	1999 12 03	699	0.7+	0.3+	1999 12 08	704	0.3-	0.5+
1994 07 08	809	(1.1+	2.9+)	1999 12 03	699	0.3+	0.7+	2000 01 05	704	0.3+	0.0
1994 07 08	809	(1.9+	2.8+)	1999 12 03	699	0.8+	0.0	2000 01 05	704	0.2+	0.1-
1994 07 09	809	0.5-	0.4+	1999 12 07	704	0.4+	0.4-	2000 01 05	704	0.3-	0.0
1994 07 09	809	0.0	0.1+	1999 12 07	704	0.7+	0.1-	2000 01 05	704	0.0	0.2-
1994 07 09	809	0.4+	0.2+	1999 12 07	704	0.2+	0.3-	2000 01 05	704	0.0	0.4-
1999 11 12	703	0.6-	0.2-	1999 12 07	704	0.1+	1.1+	2000 02 02	704	0.1+	0.6-
1999 11 12	703	0.4-	0.5-	1999 12 07	704	0.2-	0.3-	2000 02 02	704	0.8+	0.3-
1999 11 12	703	0.3-	0.1+	1999 12 08	704	0.6+	0.1+	2000 02 02	704	0.2-	0.1-
1999 11 12	703	1.0-	0.6-	1999 12 08	704	0.2+	0.5+	2000 02 02	704	0.4+	1.0-
1999 11 14	703	0.3-	0.1-	1999 12 08	704	0.2+	0.3+	2000 02 03	704	0.7+	0.4+
1999 11 14	703	0.2-	0.4-	1999 12 08	704	0.4-	1.2+	2000 02 03	704	0.5-	0.0
1999 11 14	703	0.7-	0.0	1999 12 08	704	0.1+	0.2+	2000 02 03	704	0.2-	0.1+
1999 11 14	703	0.6+	0.1-	1999 12 08	704	0.4-	1.2+	2000 02 03	704	0.1+	0.3+
1999 11 16	704	0.4+	0.2-	1999 12 08	704	0.0	0.2+	2000 02 03	704	1.6-	0.3+
1999 11 16	704	0.5+	0.9-	1999 12 08	704	1.0-	0.9+				
1999 11 16	704	1.2+	1.1-	1999 12 08	704	0.9-	0.3-				

1999 XW₉₄ = 1993 TL₁₅ = 1998 XW₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	184.81886		(2000.0)	P		Q	
<i>n</i>	0.21745359	ω	311.69812	+0.89846101	+0.43746373		
<i>a</i>	2.7387875	Ω	22.43723	-0.36816647	+0.79699313		
<i>e</i>	0.0736691	<i>i</i>	5.61242	-0.23920966	+0.41644620		
<i>P</i>	4.53	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 10 09	809	(1.4+	3.3+)	1998 12 17	704	0.7+	0.7-	2000 02 25	703	0.6-	0.4-
1993 10 09	809	(1.1+	3.1+)	1998 12 17	704	0.7+	0.7-	2000 02 25	703	0.8-	0.2-
1993 10 09	809	(1.3+	3.4+)	1998 12 17	704	0.5+	0.1+	2000 02 25	703	0.6-	0.2-
1993 10 10	809	0.4+	0.5+	1999 12 07	704	0.7+	0.5+	2000 03 02	703	0.3-	0.2-
1993 10 10	809	0.9-	0.0	1999 12 07	704	0.1+	0.2-	2000 03 02	703	0.1+	0.1+
1993 10 10	809	1.7-	0.3-	1999 12 07	704	0.5-	0.1+	2000 03 02	703	0.0	0.5-

1993 10 10	675	1.5-	1.0-	1999 12 07	704	0.4+	0.1+	2000 03 02	703	0.1+	0.2+
1993 10 10	675	(2.9-	1.9-)	1999 12 08	704	0.3+	0.4-	2000 03 05	704	0.2-	0.2+
1993 10 11	809	0.6+	1.7+	1999 12 08	704	0.1-	0.2+	2000 03 05	704	0.3-	0.2+
1993 10 11	809	0.5-	1.7+	1999 12 08	704	0.2-	0.9+	2000 03 05	704	0.4+	0.7+
1993 10 11	809	0.8-	1.3+	1999 12 08	704	0.6+	0.1-	2000 03 05	704	0.0	0.4+
1993 10 20	809	1.4+	0.2+	1999 12 08	704	0.8+	0.9-	2000 03 05	704	0.3+	0.2+
1993 10 20	809	0.6+	0.2+	2000 02 04	704	0.6+	0.2+	2000 03 11	699	0.4-	0.1+
1993 10 20	809	0.7+	0.2+	2000 02 04	704	1.1+	0.0	2000 03 11	699	0.0	0.1+
1993 10 22	809	0.7+	0.9-	2000 02 04	704	1.4+	0.5+	2000 03 11	699	0.1+	0.3+
1993 10 22	809	0.8-	0.4-	2000 02 04	704	1.2+	0.3-	2000 03 11	699	0.6-	0.1-
1993 10 22	809	(2.1-	0.3-)	2000 02 04	704	0.7-	0.4+	2000 03 12	704	0.0	0.4+
1998 12 14	704	1.0-	1.0-	2000 02 11	704	0.3-	0.3-	2000 03 12	704	0.2-	0.5+
1998 12 14	704	0.4-	1.0-	2000 02 11	704	0.2-	0.1-	2000 03 12	704	0.1-	0.5+
1998 12 14	704	0.7+	1.5+	2000 02 11	704	0.3+	0.4-	2000 03 12	704	0.1-	0.3+
1998 12 14	704	0.8-	0.2-	2000 02 11	704	0.3+	0.4-	2000 03 12	704	0.6+	0.7+
1998 12 17	704	0.3-	0.0	2000 02 11	704	0.3-	0.1-				
1998 12 17	704	0.5+	0.6-	2000 02 25	703	0.7-	0.1-				

1999 XQ₉₅ = 1977 UR₂

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	101.93960		(2000.0)	P		Q	
<i>n</i>	0.27424846	ω	66.00964	+0.97218552	+0.10058413		
<i>a</i>	2.3462444	Ω	287.66067	-0.18816530	+0.87316570		
<i>e</i>	0.1519346	<i>i</i>	12.82510	+0.13946014	+0.47693238		
<i>P</i>	3.59	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1976 05 30	413	0.5-	0.0	1999 12 10	704	0.1-	0.0	2000 01 04	704	0.1-	0.1-
1976 05 30	413	0.8+	1.5-	1999 12 10	704	0.0	0.1+	2000 01 04	704	0.0	0.0
1976 05 31	413	0.8-	2.0+	1999 12 15	704	0.5-	0.1-	2000 01 04	704	0.5-	0.1-
1976 05 31	413	0.1+	1.6-	1999 12 15	704	0.5-	0.2-	2000 01 30	704	0.2+	0.1+
1977 10 18	033	0.2+	0.5+	1999 12 15	704	0.2-	0.2+	2000 01 30	704	0.1+	0.0
1977 10 18	033	0.2-	0.2+	1999 12 15	704	0.2-	0.5+	2000 01 30	704	0.6+	0.1-
1977 10 18	033	0.6-	0.0	1999 12 15	704	0.7-	0.3+	2000 01 30	704	0.5+	0.6-
1977 10 18	033	0.0	0.2+	1999 12 19	411	0.0	0.4+	2000 01 30	704	0.8+	0.6-
1977 10 18	033	0.2+	0.1-	1999 12 19	411	1.3+	1.5-	2000 02 11	704	0.3+	0.7+
1977 10 19	033	0.3+	0.3-	2000 01 03	704	0.4-	0.4-	2000 02 11	704	0.1+	0.1+
1999 12 07	411	0.1-	0.2-	2000 01 03	704	0.2-	0.2-	2000 02 11	704	0.2-	0.1+
1999 12 07	411	0.0	0.1+	2000 01 03	704	0.7-	0.2-	2000 02 11	704	0.2+	0.2+
1999 12 09	411	0.2-	0.9-	2000 01 03	704	0.1-	0.4-	2000 02 11	704	0.3-	0.2+
1999 12 09	411	0.7-	0.0	2000 01 03	411	0.5-	0.0	2000 03 04	704	1.6+	1.3+
1999 12 10	704	0.3-	0.4-	2000 01 03	411	0.4-	0.0	2000 03 04	704	0.9+	0.8+
1999 12 10	704	0.1-	0.2-	2000 01 04	704	0.0	0.2-	2000 03 04	704	1.2+	0.7+
1999 12 10	704	0.2+	0.1-	2000 01 04	704	0.0	0.1-	2000 03 04	704	0.5+	1.4+

1999 XJ₉₉ = 1992 AL₄

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	37.50881		(2000.0)	P		Q	
<i>n</i>	0.24607007	ω	343.84368	+0.40632498	-0.90925334		
<i>a</i>	2.5221071	Ω	82.11011	+0.84809937	+0.33850589		
<i>e</i>	0.0588569	<i>i</i>	5.23190	+0.34004041	+0.24222331		
<i>P</i>	4.01	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1992 01 02	033	0.5+	1.0-	1999 12 07	704	0.1+	0.1+	2000

2000 MAR. 20

M.P.C. 39329

1998 08 17 704 0.1− 0.9+ 2000 01 03 704 0.1+ 0.4+
1999 12 07 704 0.3+ 0.1+ 2000 01 04 704 0.4+ 0.1−

1999 XZ₁₀₀ = 1991 RY₃₄

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	58.70030		(2000.0)	P	Q
<i>n</i>	0.26240329	ω	109.64417	+0.82884198	−0.54335105
<i>a</i>	2.4163316	Ω	283.47900	+0.44806259	+0.78741012
<i>e</i>	0.2337301	<i>i</i>	7.88351	+0.33505357	+0.29112700
<i>P</i>	3.76	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1954 12 22	675	0.0	0.3−	1999 12 10	704	0.4−	0.4+	2000 01 25	704	0.7+	0.7−
1954 12 22	675	0.5−	1.7−	1999 12 10	704	0.7+	0.0	2000 02 02	704	0.0	0.2−
1982 04 20	413	0.7−	0.7+	2000 01 03	704	0.1+	0.6−	2000 02 02	704	0.3+	0.2+
1982 04 20	413	0.6+	2.0−	2000 01 03	704	0.1−	0.2+	2000 02 02	704	0.3+	0.2+
1988 12 11	675	1.3−	1.5+	2000 01 03	704	0.4−	0.5−	2000 02 02	704	0.3+	0.3−
1988 12 11	675	(0.1− 2.9+)		2000 01 03	704	0.5−	0.0	2000 02 02	704	0.5+	0.0
1991 09 12	675	0.1−	0.9−	2000 01 03	704	0.4−	0.5−	2000 02 03	704	0.3+	0.3+
1991 09 12	675	0.5+	0.2−	2000 01 04	704	0.2−	0.2−	2000 02 03	704	0.0	0.4+
1999 12 07	704	0.4−	0.4+	2000 01 04	704	0.4−	0.2−	2000 02 03	704	0.4+	0.1−
1999 12 07	704	0.1−	0.1+	2000 01 04	704	0.3−	0.2−	2000 02 03	704	0.3+	0.6+
1999 12 07	704	0.1+	0.4+	2000 01 04	704	0.3−	0.2+	2000 02 03	704	0.5+	0.5+
1999 12 07	704	0.4+	0.5+	2000 01 04	704	0.3−	0.5−	2000 03 04	704	0.7+	0.2−
1999 12 07	704	0.0	0.2+	2000 01 25	704	0.5+	1.4+	2000 03 04	704	0.1−	0.6−
1999 12 10	704	0.2−	0.2−	2000 01 25	704	0.5−	0.8+	2000 03 04	704	0.2−	0.6−
1999 12 10	704	0.3+	0.5−	2000 01 25	704	0.2−	0.0				

1999 XA₁₀₈ = 1998 HF₁₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	120.06434		(2000.0)	P	Q
<i>n</i>	0.28295870	ω	225.08354	+0.40364755	+0.90730368
<i>a</i>	2.2978448	Ω	69.05388	−0.79989068	+0.41244739
<i>e</i>	0.2060117	<i>i</i>	7.24419	−0.44412111	+0.08177517
<i>P</i>	3.48	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 03 24	704	0.4+	0.6+	1999 11 01	703	0.9−	0.8+	1999 11 16	704	0.3+	0.4−
1998 03 24	704	0.2−	0.3+	1999 11 01	703	1.4−	1.0+	1999 11 16	704	0.1−	0.3+
1998 03 24	704	0.5−	0.3−	1999 11 01	703	0.3−	0.3+	1999 11 16	704	0.0	0.9−
1998 03 24	704	(5.5− 0.5+)		1999 11 01	703	0.5−	0.9+	1999 12 04	703	0.6+	1.6+
1998 04 20	704	0.4+	1.4−	1999 11 04	704	1.7+	0.5−	1999 12 04	703	0.7−	0.6+
1998 04 20	704	0.7+	0.4+	1999 11 04	704	0.2+	0.9−	1999 12 04	703	0.0	0.5−
1998 04 20	704	0.8−	0.2+	1999 11 04	704	1.1+	0.3−	1999 12 04	703	0.2−	0.3+
1998 04 20	704	0.2+	0.1−	1999 11 04	704	0.6+	0.4−	1999 12 07	704	0.1+	0.2+
1998 04 20	704	(2.2− 2.0+)		1999 11 04	704	0.1−	0.8−	1999 12 07	704	0.3−	0.2−
1998 04 24	704	0.1−	0.8+	1999 11 15	704	0.4−	0.3−	1999 12 07	704	0.3−	0.5−
1998 04 24	704	0.3−	1.1−	1999 11 15	704	0.8+	1.2+	1999 12 12	703	0.8+	0.0
1998 04 24	704	1.4+	0.6+	1999 11 15	704	0.2−	0.4+	1999 12 12	703	0.0	0.1−
1998 04 24	704	0.0	0.1+	1999 11 15	704	0.1+	0.6−	1999 12 12	703	0.1−	0.5−
1998 04 24	704	1.2−	0.1−	1999 11 15	704	0.5−	0.5−	1999 12 12	703	0.3−	0.1−

1999 XW₁₀₈ = 1998 MP₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	105.49703		(2000.0)	P	Q
<i>n</i>	0.18008611	ω	5.65802	+0.54360608	+0.83921482
<i>a</i>	3.1056266	Ω	297.27224	−0.77071918	+0.49223606
<i>e</i>	0.1689055	<i>i</i>	0.93620	−0.33239190	+0.23113229
<i>P</i>	5.47	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1993 09 15	809	0.7+	1.6−	1998 08 17	704	1.5+	0.1+	1999 11 14	704	0.1+	0.2−
1993 09 15	809	0.9−	0.8−	1998 08 17	704	0.2−	0.3+	1999 11 14	704	0.2+	0.5−
1993 09 15	809	(2.2− 1.3−)		1998 08 17	704	0.3−	0.2+	1999 11 14	704	0.1−	0.1−

1993 09 23	809	(2.5+ 2.4+)		1998 08 17	704	0.2+	0.7+	1999 11 14	704	0.1−	0.0
1993 09 23	809	(3.0+ 0.5+)		1998 08 23	704	1.2−	0.6+	1999 11 16	704	1.0+	1.2+
1993 09 23	809	1.7+	0.9−	1998 08 23	704	0.3+	1.6−	1999 11 16	704	0.7−	0.9+
1997 03 12	809	(0.6− 2.6−)		1998 08 23	704	1.2−	0.6−	1999 11 16	704	1.0+	0.3+
1997 03 12	809	0.1−	1.4−	1998 08 23	704	(7.8− 0.4+)		1999 11 16	704	0.1−	0.5+
1997 03 12	809	(0.4− 3.0−)		1999 10 06	704	0.1−	0.2−	1999 11 16	704	0.4+	0.1−
1997 04 11	704	0.3+	1.0+	1999 10 06	704	0.1−	0.4−	1999 12 04	703	1.1−	0.4+
1997 04 11	704	0.5−	1.0−	1999 10 06	704	0.4−	0.5−	1999 12 04	703	0.1+	0.8+
1997 04 11	704	0.0	1.3+	1999 10 06	704	0.3−	0.8−	1999 12 04	703	0.2−	1.0+
1997 04 11	704	0.4+	0.0	1999 10 06	704	0.9−	0.6−	1999 12 04	703	0.7−	0.9+
1998 06 24	699	0.9−	0.2+	1999 11 01	703	0.3−	0.5+	1999 12 07	704	0.4+	0.2−
1998 06 24	699	0.3−	1.1+	1999 11 01	703	0.3−	0.4+	1999 12 07	704	0.2−	1.0−
1998 06 24	699	1.6+	0.4+	1999 11 01	703	0.3−	0.3+	1999 12 07	704	1.9−	1.2+
1998 07 02	699	0.0	0.3+	1999 11 01	703	0.7−	0.5+	1999 12 07	704	0.4−	0.2+
1998 07 02	699	0.0	0.6+	1999 11 04	704	1.0+	0.6−	1999 12 07	704	0.1+	1.2+
1998 07 02	699	0.5−	0.3+	1999 11 04	704	0.6+	0.2−	1999 12 12	703	0.6−	1.1+
1998 07 24	566	0.4−	0.2+	1999 11 04	704	0.5+	0.2−	1999 12 12	703	0.2−	0.9+
1998 07 24	566	0.0	0.2+	1999 11 04	704	0.9+	1.2−	1999 12 12	703	0.3+	1.0−
1998 07 24	566	0.1−	0.2+	1999 11 04	704	1.5+	0.0	1999 12 12	703	0.2−	0.9−
1998 08 17	704	0.5+	0.2+	1999 11 14	704	0.4+	0.4+				

1999 XH₁₁₅ = 1994 WY₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	339.86106		(2000.0)	P	Q
<i>n</i>	0.19217925	ω	105.43044	−0.37950393	−0.92515892
<i>a</i>	2.9739367	Ω	6.88690	+0.82269539	−0.34120748
<i>e</i>	0.1504914	<i>i</i>	3.63317	+0.42326005	−0.16630823
<i>P</i>	5.13	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1994 11 27	010	1.1+	0.6−	1999 11 14	704	0.5+	0.2+	1999 12 04	703	0.2−	1.0−
1994 11 27	010	0.3−	1.0−	1999 11 14	704	0.4+	0.6−	1999 12 04	703	0.1−	1.1+
1994 11 28	010	(0.1+ 2.5−)		1999 11 16	704	0.5−	0.1+	1999 12 04	703	0.6−	0.0
1994 11 28	010	0.1−	0.2−	1999 11 16	704	0.3−	0.9+	1999 12 13	703	0.7+	0.9−
1994 11 28	010	0.0	1.4+	1999 11 16	704	0.4+	0.5−	1999 12 13	703	0.6−	1.6+
1994 11 29	010	0.7−	0.4+	1999 11 16	704	0.9+	0.0	1999 12 13	703	0.2+	0.6−
1999 11 14	704	0.2−	0.2+	1999 11 16	704	0.6−	0.2−	1999 12 13	703	0.6+	0.1+
1999 11 14	704	0.0	0.3+	1999 12 04	703	0.5−	0.7−				

1999 XK₁₁₈ = 1998 MF₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	223.65566		(2000.0)	P	Q
<i>n</i>	0.28773594	ω	286.32189	−0.71138735	+0.70139751
<i>a</i>	2.2723400	Ω	298.24262	−0.62404769	−0.65945658
<i>e</i>	0.1143714	<i>i</i>	2.88763	−0.32325303	−0.27047839
<i>P</i>	3.43	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1998 06 24	704	0.3−	0.3−	1999 11 03	704	0.9−	0.6−	1999 12 05	703	0.1−	0.6+
1998 06 24	704	0.7−	0.3+	1999 11 14	704	0.2+	0.2−	1999 12 05	703	0.7+	0.8+
1998 06 24	704	0.3+	1.0+	1999 11 14	704	0.2+	0.5−	1999 12 08	704	0.7−	0.2+
1998 06 24	704	0.8−	1.5−	1999 11 14	704	0.3+	0.0	1999 12 08	704	0.6+	0.8−
1998 06 24	704	0.3−	0.3−	1999 11 14	704	0.4+	0.3−	1999 12 08	704	0.6−	0.6−
1998 06 26	704	0.6−	1.2−	1999 11 14	704	0.5+	0.7−	1999 12 08	704	0.5−	0.0
1998 06 26	704	0.7+	0.4−	1999 11 16	704	1.1+	0.3−	1999 12 08	704	0.4−	0.6+
1998 06 26	704	0.1−	0.2+	1999 11 16	704	0.1−	0.4+	1999 12 13	703	0.2−	0.4+
1998 06 26	704	0.1+	0.8+	1999 11 16	704	0.2+	0.4+	1999 12 13	703	0.6+	0.0
1998 06 26	704	1.6+	1.4+	1999 11 16	704	0.1+	0.1−	1999 12 13	703	0.3−	0.7−
1999 11 03	704	0.5+	0.3−	1999 11 16	704	0.1−	0.1−	1999 12 13	703	0.2+	0.4−
1999 11 03	704	0.7−	0.9+	1999 12 05	703	(0.3− 2.2+)					
1999 11 03	704	0.7−	0.2+	1999 12 05							

1999 XV₁₁₉ = 1997 GP₄₂ = 1998 UN₁₇
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	209.30058	ω	191.32515	−0.64432121	+0.75737821		
<i>a</i>	2.7662714	Ω	38.69301	−0.68774347	−0.51325138		
<i>e</i>	0.0990856	<i>i</i>	9.75891	−0.33445343	−0.40367223		
<i>P</i>	4.60	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 04 11	809	1.0−	1.8−	1999 11 09	703	0.0	0.1+	1999 11 16	704	1.2+	1.2−
1997 04 11	809	(1.4−	3.7−)	1999 11 09	703	0.1+	0.0	1999 12 02	699	0.0	0.0
1997 04 11	809	(2.8−	3.9−)	1999 11 09	703	0.4−	0.3+	1999 12 02	699	0.7−	1.0+
1997 04 12	809	(1.3−	3.5−)	1999 11 09	703	0.3−	1.1+	1999 12 02	699	0.3−	0.4+
1997 04 12	809	(1.4−	2.9−)	1999 11 12	699	0.9−	0.3+	1999 12 05	703	0.3−	0.4−
1997 04 12	809	(1.7−	2.2−)	1999 11 12	699	0.3−	0.1−	1999 12 05	703	0.3−	0.4−
1998 08 20	699	0.2−	0.6−	1999 11 12	699	0.0	0.9+	1999 12 05	703	0.4+	0.9+
1998 08 20	699	0.5+	0.4−	1999 11 14	704	0.2+	0.8−	1999 12 05	703	0.3+	0.1−
1998 08 20	699	0.1+	0.0	1999 11 14	704	0.7+	0.4−	1999 12 13	703	0.3−	0.2−
1998 09 17	699	0.5+	0.2−	1999 11 14	704	0.4+	0.3−	1999 12 13	703	0.7−	0.1−
1998 09 17	699	0.7−	0.5+	1999 11 14	704	0.5+	0.2−	1999 12 13	703	0.2−	0.2+
1998 09 17	699	0.1−	0.6+	1999 11 14	704	0.4+	0.2−	1999 12 13	703	0.4+	0.1−
1998 10 18	327	0.2−	0.1−	1999 11 15	012	0.1−	0.8−	2000 01 31	704	0.5+	0.1+
1998 10 18	327	0.6+	0.1+	1999 11 15	012	0.7−	0.7−	2000 01 31	704	0.3−	0.1−
1998 10 18	327	0.6+	0.1−	1999 11 16	704	0.6+	0.3+	2000 01 31	704	0.5−	1.2+
1998 10 19	327	0.2−	0.2−	1999 11 16	704	0.2+	0.9−	2000 01 31	704	0.9−	0.1+
1998 10 19	327	0.0	0.2−	1999 11 16	704	0.4+	0.5−				
1998 10 19	327	0.6−	0.0	1999 11 16	704	1.0+	0.9−				

1999 XY₁₂₂ = 1998 RP₁₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	235.99645	ω	251.67579	−0.95130956	+0.27970552		
<i>a</i>	3.0028646	Ω	304.37508	−0.18832750	−0.86007316		
<i>e</i>	0.0354658	<i>i</i>	9.02836	−0.24401408	−0.42666026		
<i>P</i>	5.20	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.2−	0.4−	1998 09 18	704	1.3−	1.0+	1999 12 10	704	0.2+	1.2−
1998 08 17	704	0.4−	0.0	1998 09 18	704	0.7−	0.3−	1999 12 10	704	0.0	1.3−
1998 08 17	704	0.8+	0.5−	1999 11 13	703	0.2+	0.1−	1999 12 10	704	0.2+	1.6−
1998 08 17	704	0.4+	1.6−	1999 11 13	703	0.2−	0.6−	1999 12 10	704	0.1−	1.2−
1998 08 17	704	(4.9−	2.7−)	1999 11 13	703	0.6−	0.3+	1999 12 13	703	0.2+	0.9+
1998 08 23	699	0.1+	0.8+	1999 11 13	703	0.1−	0.1+	1999 12 13	703	0.3+	0.3+
1998 08 23	699	0.2+	0.4+	1999 12 05	699	0.2−	0.2−	1999 12 13	703	0.2+	0.4+
1998 08 23	699	0.4+	0.3−	1999 12 05	699	1.2+	1.8+	1999 12 13	703	0.3−	0.5+
1998 09 14	704	1.1+	1.1+	1999 12 05	699	0.4+	0.3−	2000 01 07	699	0.2+	0.2+
1998 09 14	704	0.0	0.4−	1999 12 05	699	0.5+	0.2+	2000 01 07	699	0.6+	0.0
1998 09 14	704	0.8−	0.1+	1999 12 05	699	0.2−	0.5−	2000 01 07	699	0.4−	0.3−
1998 09 14	704	0.8+	1.3−	1999 12 05	699	0.3−	1.8+	2000 01 31	704	0.4+	0.4−
1998 09 14	704	0.3+	0.4+	1999 12 07	703	0.0	0.2+	2000 01 31	704	0.3−	0.0
1998 09 18	704	0.1+	1.2+	1999 12 07	703	1.1−	0.1−	2000 01 31	704	0.1+	0.1−
1998 09 18	704	0.8−	0.1−	1999 12 07	703	0.3−	0.6+	2000 01 31	704	(1.3+	2.2−)
1998 09 18	704	0.1−	0.0	1999 12 07	703	0.6−	0.3+				

1999 XG₁₃₄ = 1989 AS₈

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	56.09067	ω	110.78912	+0.57439549	−0.73960018		
<i>a</i>	2.3699269	Ω	299.18146	+0.51786536	+0.66021394		
<i>e</i>	0.1633385	<i>i</i>	23.69058	+0.63394423	+0.13080184		
<i>P</i>	3.65	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1982 02 19	413	0.2−	1.3−	1999 12 13	704	0.2+	0.1+	2000 01 30	704	0.3−	0.2+
1982 02 19	413	0.5+	0.1+	1999 12 15	704	0.6+	0.1−	2000 01 30	704	0.6−	0.4+
1989 01 10	054	0.4−	0.5+	1999 12 15	704	0.1+	0.2−	2000 01 30	704	0.3−	0.9+
1989 01 10	054	0.4−	0.5+	1999 12 15	704	0.0	0.3−	2000 01 31	704	0.3−	0.3−
1991 09 13	675	0.8−	0.1−	1999 12 15	704	0.1−	0.4−	2000 01 31	704	0.6+	0.1−
1991 09 13	675	1.0+	0.2−	1999 12 15	704	0.2−	0.4−	2000 01 31	704	0.4+	0.3+
1995 08 23	675	0.6−	0.5+	1999 12 31	699	0.4+	0.1+	2000 01 31	704	0.5+	0.1+
1995 08 23	675	0.3+	0.1+	1999 12 31	699	0.9+	0.3+	2000 02 05	849	0.5+	0.1+
1999 11 01	704	0.5+	0.4+	1999 12 31	699	0.8+	0.1+	2000 02 05	849	0.0	0.7+
1999 11 01	704	1.0+	0.1+	2000 01 02	704	0.6−	1.1−	2000 02 11	704	0.0	0.4+
1999 11 01	704	0.6+	0.3−	2000 01 02	704	0.3−	1.3−	2000 02 11	704	0.0	0.3+
1999 11 01	704	0.4+	0.4−	2000 01 02	704	0.1−	1.5−	2000 02 11	704	0.1−	0.4+
1999 11 01	704	0.2+	0.5−	2000 01 02	704	(3.0+	3.4−)	2000 02 11	704	0.4−	0.6+
1999 12 12	704	0.2−	0.2−	2000 01 04	704	0.3−	0.5−	2000 02 11	704	0.4−	0.3+
1999 12 12	704	0.3−	0.4−	2000 01 04	704	0.2−	0.1−	2000 02 12	704	(4.3−	3.7+)
1999 12 12	704	0.1+	0.4+	2000 01 04	704	0.3−	0.6−	2000 02 12	704	0.1+	1.6+
1999 12 12	704	0.1−	0.0	2000 01 04	704	0.3−	0.5−	2000 02 12	704	(3.9+	2.7−)
1999 12 12	704	0.1−	0.8+	2000 01 04	704	0.3−	0.6−	2000 03 05	704	0.2+	0.6+
1999 12 13	704	0.1−	0.4−	2000 01 24	106	0.2−	0.3−	2000 03 05	704	0.3−	0.1+
1999 12 13	704	0.2+	0.0	2000 01 24	106	1.0−	0.3+	2000 03 05	704	0.5−	0.9−
1999 12 13	704	1.1−	0.3+	2000 01 24	106	1.3+	0.7+				
1999 12 13	704	0.2−	0.1+	2000 01 30	704	0.4−	0.4+				

1999 XG₁₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	358.31311	ω	36.32953	−0.53850220	−0.81926837		
<i>a</i>	2.9702145	Ω	87.04635	+0.71913098	−0.56870112		
<i>e</i>	0.4989040	<i>i</i>	11.37775	+0.43916513	−0.07333740		
<i>P</i>	5.12	<i>H</i>	16.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1999 01 29	675	0.2−	0.3−	1999 12 13	699	0.1+	0.0	2000 01 06	704	0.5−	1.7+
1999 01 29	675	0.0	1.1−	1999 12 14	704	0.1+	0.0	2000 01 06	704	0.1−	0.4−
1999 11 05	704	0.0	0.6−	1999 12 14	704	0.3−	0.6−	2000 01 06	704	0.9−	0.0
1999 11 05	704	0.0	1.4+	1999 12 14	704	0.1−	0.1−	2000 01 06	704	0.5−	0.7+
1999 11 05	704	0.4−	1.0+	1999 12 14	704	0.1+	0.4−	2000 01 06	704	0.8−	1.0+
1999 11 16	703	0.1+	0.0	1999 12 31	699	0.2+	0.5−	2000 01 30	704	1.2+	1.5+
1999 11 16	703	0.2−	0.3−	1999 12 31	699	0.2−	0.3+	2000 01 30	704	0.5−	0.4−
1999 11 16	703	0.1−	0.4−	1999 12 31	699	0.1−	0.2−	2000 01 30	704	0.9−	0.8−
1999 11 16	703	0.2−	0.4−	1999 12 31	703	0.7+	0.1−	2000 01 30	704	0.5−	0.3+
1999 12 03	699	0.0	0.1+	1999 12 31	703	0.2+	0.1+	2000 01 30	704	1.5−	1.1+
1999 12 03	699	1.1−	0.1+	1999 12 31	703	0.3+	0.3+	2000 02 11	704	0.2−	0.1+
1999 12 03	699	0.4+	0.4+	1999 12 31	703	0.5+	0.9+	2000 02 11	704	0.1+	0.2−
1999 12 06	704	0.1−	0.3+	2000 01 05	704	0.1−	1.0−	2000 02 11	704	0.4−	0.3+
1999 12 06	704	0.9+	0.9−	2000 01 05	704	0.4+	0.4−	2000 02 11	704	0.2−	0.4+
1999 12 06	704	1.4+	1.1−	2000 01 05	704	0.1+	0.4−	2000 02 11	704	0.1+	0.6+
1999 12 13	699	0.8+	0.3+	2000 01 05	704	0.0	0.5−				
1999 12 13	699	0.4+	0.3−	2000 01 05	704	0.1+	0.7−				

1999 XG₁₄₄ = 1990 WK₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	90.60089		(2000.0)		P		Q				
n	0.23056643	ω	304.12504		+0.87193903		−0.31227580				
a	2.6339367	Ω	76.66455		+0.46695470		+0.76198334				
e	0.0742837	i	22.80227		−0.14722647		+0.56733166				
P	4.27	H	14.0		G	0.15	U	1			
Residuals in seconds of arc											
1986 12 30	675	1.1−	0.2+	1999 12 12	704	0.6+	0.6−	1999 12 16	678	0.7−	1.0−
1986 12 30	675	1.2+	0.3−	1999 12 13	699	0.0	0.7+	1999 12 16	699	0.8+	0.7+
1989 07 07	413	0.8−	2.2−	1999 12 13	699	(0.7+	2.4+)	1999 12 30	704	0.2−	0.1−
1989 07 07	413	0.4+	0.4+	1999 12 13	699	0.7+	0.7+	1999 12 30	704	0.3−	0.3−
1990 11 20	809	0.1−	0.2−	1999 12 15	678	0.4−	1.0−	1999 12 30	704	0.0	0.8−
1990 11 20	809	0.4−	0.1+	1999 12 15	678	1.1−	0.2−	1999 12 30	704	1.0−	1.0−

2000 MAR. 20

M.P.C. 39331

1990 11 20	809	0.1+	0.4+	1999 12 15	704	0.2+	0.6-	2000 01 11	699	0.3+	0.2+
1999 12 03	699	0.4-	0.0	1999 12 15	704	0.2-	1.0+	2000 01 11	699	0.5+	1.1+
1999 12 03	699	0.1+	0.2-	1999 12 15	704	0.6-	0.1-	2000 01 11	699	0.9+	0.1-
1999 12 03	699	0.6+	0.4+	1999 12 15	704	0.8-	0.1-	2000 01 27	704	0.3+	1.2+
1999 12 12	704	0.1+	0.4-	1999 12 15	704	0.5-	0.3-	2000 01 27	704	0.4-	1.0+
1999 12 12	704	0.2+	0.4-	1999 12 16	678	0.5-	0.5-	2000 01 27	704	0.2+	0.0
1999 12 12	704	0.5+	0.7-	1999 12 16	699	0.0	1.1+	2000 01 27	704	0.2+	0.7-
1999 12 12	704	0.3+	0.7-	1999 12 16	699	1.0+	0.1-	2000 01 27	704	0.0	0.3-

1999 XT₁₅₂ = 1997 GB₃₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27849472	ω	313.98169	-0.41873954	-0.90787086		
<i>a</i>	2.3223343	Ω	160.74388	+0.85009097	-0.39989563		
<i>e</i>	0.1256209	<i>i</i>	3.59531	+0.31937837	-0.12591263		
<i>P</i>	3.54	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 08 25	809	1.0-	0.2+	1999 11 04	704	0.1+	0.0	1999 12 07	704	0.1+	1.4-
1995 09 01	809	0.1+	1.0+	1999 11 04	704	0.0	0.1-	1999 12 07	704	0.3-	0.2+
1995 09 18	809	0.1+	0.6-	1999 11 04	704	0.2+	0.2-	1999 12 07	704	0.2-	0.4-
1995 09 19	809	0.6+	0.4-	1999 11 04	704	0.5+	0.3+	1999 12 13	699	0.3-	0.5+
1995 09 19	809	0.6-	1.4-	1999 11 27	049	(2.2+	0.4+)	1999 12 13	699	0.1+	0.7+
1995 09 20	809	0.9-	1.0-	1999 11 28	049	1.9+	0.6+	1999 12 13	699	0.2+	1.4+
1995 09 22	809	0.2+	0.7-	1999 11 28	049	(2.4+	0.5+)	1999 12 14	704	0.7-	0.5-
1995 09 23	809	0.2+	0.2+	1999 12 03	699	0.5-	0.1+	1999 12 14	704	0.7-	0.3-
1995 09 23	809	(4.3+	1.5-)	1999 12 03	699	0.2-	0.9+	1999 12 14	704	0.2+	0.9-
1995 09 24	809	1.6+	1.7+	1999 12 03	699	0.7+	0.6+	1999 12 14	704	0.3+	0.0
1997 04 07	552	0.2-	0.0	1999 12 06	704	0.5-	1.3+	1999 12 14	704	0.3+	0.4-
1997 04 07	552	0.1-	0.3-	1999 12 06	704	1.1-	0.1+	1999 12 14	704	0.6-	0.2-
1997 04 12	552	0.2-	0.7-	1999 12 06	704	0.3+	0.2-	1999 12 14	704	0.1+	0.7-
1997 04 12	552	0.2+	0.0	1999 12 06	704	0.8-	0.4-	1999 12 14	704	0.5+	1.0-
1999 11 04	704	0.3+	0.1+	1999 12 07	704	(0.2-	3.6-)				

1999 XH₁₅₃ = 1979 OL₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30519804	ω	32.07882	+0.67145021	+0.73585776		
<i>a</i>	2.1848161	Ω	280.26079	-0.69731516	+0.58740280		
<i>e</i>	0.1941997	<i>i</i>	5.10552	-0.25081106	+0.33685503		
<i>P</i>	3.23	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1979 07 24	675	0.7-	0.0	1999 11 16	704	0.7-	0.5-	1999 12 07	704	0.4+	0.6-
1979 07 24	413	0.6+	0.1-	1999 11 16	704	0.6-	0.3-	1999 12 14	704	0.7-	0.8+
1979 07 25	675	0.3-	0.5+	1999 11 16	704	0.1+	0.2-	1999 12 14	704	0.4-	0.8-
1979 07 27	675	0.4+	0.4-	1999 11 16	704	0.9-	0.4+	1999 12 14	704	0.1+	0.6+
1999 11 14	704	0.2-	0.0	1999 11 16	704	0.5-	0.8+	1999 12 14	704	0.9-	0.6+
1999 11 14	704	0.4+	0.2-	1999 12 07	704	1.3+	0.5-				
1999 11 14	704	1.8+	0.6+	1999 12 07	704	0.8+	0.8-				

1999 XO₁₅₇

Id. A. Gnädig (1995 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17646750	ω	279.35245	-0.65991685	-0.75014468		
<i>a</i>	3.1479384	Ω	212.06844	+0.71684891	-0.61174528		
<i>e</i>	0.0881860	<i>i</i>	4.57405	+0.22502755	-0.25109893		
<i>P</i>	5.59	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 03 29	675	0.1-	0.1+	1999 12 08	704	0.1+	0.2-	2000 01 05	704	0.5-	1.0-
1995 03 29	675	0.1+	0.1-	1999 12 08	704	0.6+	0.1-	2000 01 05	704	0.8-	0.9-
1997 07 27	910	0.3+	0.2+	1999 12 08	704	0.5-	0.2-	2000 01 05	704	0.4+	0.0

1997 07 27	910	0.1+	0.2-	1999 12 14	704	0.3-	1.0-	2000 01 06	704	0.4-	0.8+
1997 07 27	910	0.4-	0.1+	1999 12 14	704	0.5-	0.2+	2000 01 06	704	0.2+	1.2+
1999 12 08	704	0.6+	0.3+	1999 12 14	704	0.2-	0.2-	2000 01 06	704	0.7+	0.5+
1999 12 08	704	0.0	0.0	1999 12 14	704	0.9+	0.8+	2000 01 06	704	0.4-	0.0

1999 XH₁₆₂ = 1997 TS₂₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.08110736	ω	58.26051	+0.13577827	-0.98419475		
<i>a</i>	5.2856190	Ω	24.71011	+0.79186648	+0.03884419		
<i>e</i>	0.0878610	<i>i</i>	15.78111	+0.59540889	+0.17277681		
<i>P</i>	12.15	<i>H</i>	11.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 10 06	809	0.2+	0.8+	1999 12 13	704	0.9-	1.4+	1999 12 14	704	0.3+	1.6-
1997 10 06	809	1.0-	0.3+	1999 12 13	704	0.6+	0.0	1999 12 14	704	0.5+	0.1+
1997 10 07	809	0.4+	0.4-	1999 12 13	704	0.0	1.0-	1999 12 30	704	0.2-	0.1+
1997 10 07	809	0.4+	0.7-	1999 12 13	704	0.3-	0.4-	1999 12 30	704	0.2-	0.2+
1998 12 24	699	0.5+	0.5+	1999 12 13	704	0.6-	0.7-	1999 12 30	704	0.5+	0.1+
1998 12 24	699	0.4-	0.2+	1999 12 14	704	0.1-	0.6+	1999 12 30	704	0.6-	0.5+
1998 12 24	699	0.2-	0.4-	1999 12 14	704	0.4+	0.2+	1999 12 30	704	0.6+	0.3+

1999 XS₁₆₂ = 1994 TA₁₁ = 1998 FE₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.39926533	ω	77.73856	+0.06279135	-0.99675228		
<i>a</i>	1.8265363	Ω	9.12299	+0.74655050	+0.01338155		
<i>e</i>	0.0627869	<i>i</i>	18.54176	+0.66235912	+0.07940922		
<i>P</i>	2.47	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1994 10 09	691	0.3+	0.2+	1999 09 14	703	0.4-	0.1+	1999 11 03	704	0.4+	0.2-
1994 10 09	691	0.1+	0.1+	1999 09 14	703	0.4-	0.0	1999 11 03	704	0.5+	0.0
1994 10 09	691	0.1-	0.3+	1999 09 14	703	0.7-	1.1+	1999 11 03	704	0.2-	0.1+
1994 10 10	691	0.4-	0.2-	1999 09 14	703	0.6-	0.9+	1999 11 10	703	0.4+	0.8+
1994 10 10	691	0.5-	0.2-	1999 10 01	699	0.7-	0.7+	1999 11 10	703	0.2-	0.1+
1994 10 10	691	0.1-	0.1-	1999 10 01	699	0.6-	0.6+	1999 11 10	703	0.1+	0.2+
1994 10 10	691	0.2+	0.3-	1999 10 01	699	0.8-	0.7+	1999 11 10	703	0.2+	0.2-
1994 10 10	691	0.3+	0.2-	1999 10 03	704	0.4+	0.8-	1999 12 08	703	0.3+	0.5+
1994 10 10	691	0.5+	0.1-	1999 10 03	704	0.2-	0.8-	1999 12 08	703	0.1-	0.8-
1998 03 24	704	0.4-	0.1-	1999 10 03	704	0.2+	0.4-	1999 12 08	703	0.5+	0.7+
1998 03 24	704	0.7+	0.8-	1999 10 03	704	0.1-	0.5-	1999 12 08	703	0.2-	0.3+
1998 03 24	704	0.5+	0.9-	1999 10 03	704	0.0	0.3-	1999 12 14	703	1.0+	0.0
1998 03 24	704	0.5+	0.1-	1999 10 28	703	0.5-	0.2+	1999 12 14	703	0.5+	0.5+
1998 03 25	704	0.1-	0.6+	1999 10 28	703	0.3-	0.3-	1999 12 14	703	0.0	0.4+
1998 03 25	704	0.1+	0.7+	1999 10 28	703	0.3-	0.4-	1999 12 14	703	0.5+	0.0
1998 03 25	704	0.2-	0.5+	1999 10 28	703	0.3-	0.0	2000 01 07	699	0.2-	0.2+
1998 03 25	704	0.3+	0.4+	1999 11 03	704	0.7+	0.1-	2000 01 07	699	0.7-	0.2-
1998 03 25	704	0.3-	1.1+	1999 11 03	704	0.1+	0.2-	2000 01 07	699	0.8+	0.5-

1999 XC₁₆₇ = 1997 JM₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	11.78508	(2000.0)		$\mathbf{P}$	$\mathbf{Q}$
n	0.25701507	ω	38.49205	+0.10171907	-0.99026609
a	2.4499863	Ω	45.89603	+0.87683433	+0.04413466
e	0.2474078	i	7.60293	+0.46990935	+0.13200453
P	3.83	H	15.4	G 0.15	U 3

M.P.C. 39332

1997 05 02	910	0.0	0.2+	1999 11 16	704	0.0	0.2+	1999 12 15	704	0.5-	0.3-
1997 05 03	910	0.2+	0.1+	1999 11 16	704	0.3-	0.2+	1999 12 15	704	0.3-	0.4-
1999 11 03	704	0.0	0.3+	1999 11 16	704	0.1+	0.1-	1999 12 15	704	0.2-	0.8-
1999 11 03	704	0.3-	0.0	1999 11 16	704	0.1-	0.4-	1999 12 15	704	0.3-	0.2-
1999 11 03	704	0.5-	0.2-	1999 12 07	703	0.3-	0.4+	1999 12 15	704	0.1-	0.9-
1999 11 03	704	0.1+	0.2-	1999 12 07	703	0.2-	0.5+	2000 01 30	704	0.5+	0.3+
1999 11 03	704	0.1-	0.4+	1999 12 07	703	0.6-	0.5+	2000 01 30	704	0.0	0.0
1999 11 14	704	0.1-	0.0	1999 12 07	703	0.3-	0.4+	2000 01 30	704	0.1-	0.7+
1999 11 14	704	0.1+	0.3+	1999 12 10	704	0.7+	1.0-	2000 01 30	704	0.1+	0.3+

1999 XQ₁₆₇ = 1977 SJ₂ = 1988 VS₁₃ = 1998 KB₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	87.69738	<i>ω</i>	336.44003	+0.95215022	+0.30557664		
<i>a</i>	2.3528257	<i>Ω</i>	5.77613	-0.27057115	+0.85150506		
<i>e</i>	0.2154359	<i>i</i>	3.26651	-0.14213099	+0.42610099		
<i>P</i>	3.61	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 09 19	095	0.3-	1.1+	1998 05 24	704	0.8+	0.8-	1999 12 15	704	0.2+	0.0
1988 11 04	327	0.9-	0.8-	1998 05 24	704	1.3-	0.4-	1999 12 15	704	0.2-	0.0
1988 11 04	327	0.4+	0.8+	1998 05 24	704	0.6+	0.2-	1999 12 15	704	0.0	0.2-
1997 01 11	566	0.4+	0.3+	1998 05 24	704	0.9-	0.0	1999 12 15	704	0.0	0.5-
1997 01 11	566	0.0	0.0	1999 11 14	704	0.0	0.5-	2000 01 03	704	1.3+	2.0+
1997 01 11	566	1.6+	0.3+	1999 11 14	704	1.0-	0.5-	2000 01 03	704	0.4+	0.1+
1997 02 03	566	0.2+	0.4-	1999 11 14	704	0.0	0.3-	2000 01 03	704	(0.7- 2.2+)	
1997 02 03	566	0.6-	0.5-	1999 11 14	704	0.1+	0.5-	2000 01 03	704	1.5-	0.7+
1997 02 03	566	0.7-	0.3-	1999 11 16	704	0.2-	0.5-	2000 01 04	704	0.2+	0.8+
1997 03 06	704	1.6-	0.1+	1999 11 16	704	0.6+	0.6-	2000 01 04	704	0.1+	0.5-
1997 03 06	704	0.6+	1.0+	1999 11 16	704	0.7-	1.0-	2000 01 04	704	0.5-	0.4+
1998 05 01	704	1.1-	0.4-	1999 11 16	704	0.1-	0.8-	2000 01 04	704	0.3+	0.6+
1998 05 01	704	0.0	0.6+	1999 11 16	704	0.0	0.7-	2000 01 04	704	0.5-	0.7+
1998 05 01	704	0.7-	0.7+	1999 12 10	704	0.1-	0.6+	2000 01 30	704	0.8+	0.5+
1998 05 01	704	1.9+	0.7+	1999 12 10	704	0.0	0.2+	2000 01 30	704	0.9+	0.2-
1998 05 22	704	0.5-	0.1+	1999 12 10	704	0.5+	0.4+	2000 01 30	704	0.4+	0.5+
1998 05 22	704	0.2-	0.6-	1999 12 10	704	0.2-	0.0	2000 01 30	704	0.5+	0.1-
1998 05 22	704	1.1+	0.3-	1999 12 10	704	0.2-	1.1-				
1998 05 22	704	(3.1- 2.5-)		1999 12 15	704	0.0	0.0				

1999 XZ₁₆₇ = 1984 WX₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	332.69576	<i>ω</i>	94.05197	-0.71533246	-0.69626004		
<i>a</i>	2.4114502	<i>Ω</i>	41.83523	+0.60062904	-0.65603315		
<i>e</i>	0.1268313	<i>i</i>	5.10432	+0.35713335	-0.29127730		
<i>P</i>	3.74	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1984 11 27	010	0.9-	2.2+	1999 11 16	704	0.2-	0.4-	1999 12 16	704	0.2+	0.1+
1984 11 28	010	0.3+	0.7+	1999 11 16	704	0.1+	0.9-	2000 01 03	704	0.4+	0.1-
1995 09 21	327	1.0-	0.7+	1999 11 16	704	0.1+	1.1-	2000 01 03	704	0.2+	0.2-
1995 09 21	327	0.4-	0.4+	1999 11 16	704	1.7-	0.6-	2000 01 03	704	0.2+	0.1-
1995 09 21	327	0.5-	0.4+	1999 11 16	704	1.2-	0.5+	2000 01 03	704	0.4+	0.2-
1995 10 15	327	0.3+	0.4-	1999 12 05	703	0.4-	0.1+	2000 01 03	704	0.1-	0.5-
1995 10 15	327	0.1-	0.1-	1999 12 05	703	0.3-	0.0	2000 01 04	704	0.4+	0.1+
1995 10 15	327	0.7+	0.5+	1999 12 05	703	0.3-	0.2-	2000 01 04	704	0.1+	1.0-
1998 08 17	704	0.7+	1.5-	1999 12 05	703	0.3+	0.1+	2000 01 04	704	0.8+	0.5-
1998 08 17	704	0.3+	1.4+	1999 12 10	704	0.2+	1.1-	2000 01 04	704	0.1+	0.7-
1998 08 17	704	1.4+	1.0-	1999 12 10	704	0.3+	0.4+	2000 01 04	704	0.3+	0.2+
1998 08 17	704	1.8-	0.4-	1999 12 10	704	0.6-	1.3-	2000 01 30	704	0.3+	0.5+
1999 11 03	704	0.8+	1.0+	1999 12 10	704	0.3+	1.0-	2000 01 30	704	0.0	0.2+
1999 11 03	704	0.8+	0.3+	1999 12 15	704	0.0	0.1-	2000 01 30	704	0.1+	0.2-
1999 11 03	704	0.1+	0.7+	1999 12 15	704	0.1+	0.2+	2000 01 30	704	0.3+	0.4+
1999 11 03	704	0.2+	0.9-	1999 12 15	704	0.1+	0.1-	2000 01 30	704	0.3+	0.2+
1999 11 03	704	0.4+	0.5+	1999 12 15	704	0.5+	0.4+	2000 02 11	704	0.3-	0.4-

2000 MAR. 20

1999 11 14	704	0.1-	0.0	1999 12 15	704	0.2-	0.2+	2000 02 11	704	0.4-	1.1+
1999 11 14	704	0.3-	0.0	1999 12 16	704	0.4+	0.2+	2000 02 11	704	0.3+	0.2+
1999 11 14	704	0.7-	0.1+	1999 12 16	704	0.2+	0.1+	2000 02 11	704	0.3-	0.5+
1999 11 14	704	0.0	0.4-	1999 12 16	704	0.1+	0.1+				
1999 11 14	704	1.1-	0.2+	1999 12 16	704	0.1-	0.0				

1999 XA₁₆₉ = 1977 XD₂ = 1986 LZ = 1997 LX₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	142.52474	<i>ω</i>	227.27468	+0.41888357	+0.81398566		
<i>a</i>	0.18144018	<i>Ω</i>	71.71403	-0.65874564	+0.57744916		
<i>e</i>	3.0901560	<i>i</i>	25.07795	-0.62497258	-0.06308580		
<i>P</i>	0.1963336	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1977 12 07	675	0.6+	0.7-	1999 11 14	704	0.7+	0.7-	1999 12 10	704	0.5-	0.3-
1977 12 08	675	0.6+	0.4-	1999 11 14	704	0.2+	0.8-	1999 12 15	704	0.1+	0.0
1986 06 03	675	1.2-	0.9-	1999 11 14	704	(0.6- 3.1-)		1999 12 15	704	0.8+	1.1+
1986 06 03	675	(10.2+ 0.4+)		1999 11 16	704	0.1+	0.8-	1999 12 15	704	0.2+	0.3-
1986 06 08	675	(4.6- 1.2+)		1999 11 16	704	0.3+	0.1+	1999 12 15	704	0.0	0.7-
1986 06 08	675	0.4+	0.7+	1999 11 16	704	0.5-	0.8+	2000 01 04	704	0.4-	0.8+
1997 06 08	809	1.5-	0.3+	1999 11 16	704	1.5+	0.1-	2000 01 04	704	0.5-	0.3+
1997 06 08	809	0.8-	0.2+	1999 11 16	704	0.3-	1.0-	2000 01 04	704	0.3-	0.5+
1997 06 08	809	0.2-	0.1-	1999 12 10	704	0.4+	0.1+	2000 01 04	704	1.0-	0.7+
1997 06 09	809	0.6+	0.0	1999 12 10	704	0.4-	0.3+	2000 01 04	704	0.7-	0.1+
1997 06 09	809	0.8+	0.5-	1999 12 10	704	1.0-	0.1-				
1997 06 09	809	0.9+	0.9-	1999 12 10	704	0.8+	0.2-				

1999 XM₁₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	354.95791	<i>ω</i>	172.85014	-0.54058073	-0.82969666		
<i>a</i>	0.18350253	<i>Ω</i>	309.76538	+0.76262782	-0.41342176		
<i>e</i>	3.0669593	<i>i</i>	10.43318	+0.35520598	-0.37508120		
<i>P</i>	0.0678107	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 08 24	675	0.1-	0.1+	1999 12 10	704	0.1+	0.2-	2000 01 07	704	0.1-	0.0
1987 08 24	675	0.7+	0.2+	1999 12 10	704	0.2-	0.2+	2000 01 07	704	0.0	0.3+
1993 09 21	675	0.2-	0.1+	1999 12 10	704	0.0	0.2+	2000 01 08	704	(2.3+ 0.5+)	
1993 09 21	675	0.1+	1.1-	1999 12 15	704	0.4-	0.5+	2000 01 08	704	1.2-	0.4-
1993 10 19	675	0.8-	0.3-	1999 12 15	704	0.5-	0.6+	2000 01 08	704	0.1+	0.2-
1993 10 19	675	0.4+	0.1+	1999 12 15	704	0.3-	0.8+	2000 01 08	704	0.1+	0.3-
1993 11 20	675	0.4-	0.7-	1999 12 15	704	0.0	0.5+	2000 01 08	704	0.1+	0.3-
1993 11 20	675	0.0	0.7+	1999 12 15	704	0.1-	0.6+	2000 01 30	704	0.7+	1.5+
1997 08 01	566	0.3-	0.7-	2000 01 03	704	0.4-	0.1-	2000 01 30	704	0.4+	0.0
1997 08 01	566	0.1-	0.3-	2000 01 03	704	0.0	0.0	2000 01 30	704	0.2+	0.1+
1997 08 01	566	0.2+	0.4+	2000 01 03	704	0.5+	0.8-	2000 01 30	704	0.1+	0.0
1998 10 12	699	0.1+	0.0	2000 01 03	704	0.4+	0.7-	2000 01 30	704	0.6+	0.8-
1998 10 12	699	0.0	0.2-	2000 01 03	704	0.1-	0.6-	2000 01 31	704	0.0	0.5+
1998 10 12	699	0.3+	0.0	2000 01 04	704	0.1+	0.3-	2000 01 31	704	0.0	0.3+
1998 11 14	703	0.2-	0.8+	2000 01 04	704	0.2+	0.8-	2000 01 31	704	0.5-	0.3+
1998 11 14	703	0.3-	0.3+	2000 01 04	704	0.6+	0.7-	2000 01 31	704	(2.5+ 0.5+)	
1999 12 03	699	0.2+	0.7+	2000 01 04	704	0.5+	0.7-	2000 01 31	704	0.0	1.5+
1999 12 03	699	0.1-	0.7+	2000 01 04	704	0.8+	1.9-	2000 02 11	704	0.1-	0.3+
1999 12 03	699	(2.7+ 0.5+)		2000 01 07	704	0.1-	0.3-	2000 02 11	704	0.0	0.1-
1999 12 10	704	0.1-	0.4+	2000 01 07	704	0.2-	0.1-	2000 02 11	704	0.0	0.5-
1999 12 10	704	0.2+	0.4+	2000 01 07	704	0.1-	0.2-	2000 02 11	704	1.4-	0.5-

2000 MAR. 20

M.P.C. 39333

1999 XV₁₇₂ = 1991 LE₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

M	51.03082		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17946915	ω	329.56734	+0.52137691	−0.81783182
a	3.1127400	Ω	87.97752	+0.82377902	+0.40793141
e	0.1087537	i	14.10520	+0.22260781	+0.40588554
P	5.49	H	13.9	G 0.15	U 3

Residuals in seconds of arc

1991 06 08	809	1.0+	0.4−	1999 12 15	704	0.0	1.4+	2000 01 08	704	0.6+	0.2+
1991 06 08	809	0.6−	0.1+	1999 12 15	704	0.2−	1.4+	2000 01 08	704	0.3+	0.6+
1991 06 08	809	1.3−	0.4+	1999 12 27	411	0.8−	0.8+	2000 01 08	704	1.2+	0.5+
1993 09 20	675	0.7+	0.4+	1999 12 27	411	0.9−	0.8−	2000 01 29	704	0.3−	0.1−
1993 09 20	675	0.0	0.6−	1999 12 29	411	0.2+	1.1−	2000 01 29	704	0.1−	0.0
1996 05 13	675	0.7−	0.2−	1999 12 29	411	0.1−	1.2−	2000 01 29	704	0.2+	0.2+
1996 05 13	675	1.6+	0.4−	2000 01 03	704	0.2+	0.1−	2000 01 29	704	0.2+	0.1−
1999 12 03	699	0.1+	0.0	2000 01 03	704	0.2−	0.1−	2000 01 29	704	0.2+	0.0
1999 12 03	699	0.4+	0.3+	2000 01 03	704	0.1−	0.3−	2000 01 30	704	0.5−	0.1+
1999 12 03	699	0.1+	0.2+	2000 01 03	704	0.1−	0.3−	2000 01 30	704	0.1−	0.1−
1999 12 10	704	0.4+	0.7−	2000 01 03	704	0.2−	0.1+	2000 01 30	704	0.0	0.3+
1999 12 10	704	0.2−	1.3−	2000 01 04	704	0.1−	0.3−	2000 01 30	704	0.1−	0.0
1999 12 10	704	0.2−	0.6−	2000 01 04	704	0.3−	0.1−	2000 01 30	704	0.3−	0.2−
1999 12 10	704	0.2+	0.1−	2000 01 04	704	0.3−	0.2−	2000 02 11	704	0.1+	0.5+
1999 12 10	704	0.0	0.2−	2000 01 04	704	0.3−	0.1+	2000 02 11	704	0.3−	0.5−
1999 12 15	704	1.1+	0.8+	2000 01 04	704	0.3−	0.4+	2000 02 11	704	0.1−	0.4−
1999 12 15	704	0.3+	0.3+	2000 01 08	704	0.0	0.0	2000 02 11	704	0.4−	0.5−
1999 12 15	704	0.1+	0.6+	2000 01 08	704	0.2+	0.3+	2000 02 11	704	0.2−	0.2−

1999 XY₁₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	32.12823		(2000.0)	P	Q
n	0.26777088	ω	97.81915	+0.05235451	−0.99859785
a	2.3839317	Ω	349.17051	+0.89901211	+0.05054527
e	0.0832223	i	2.38916	+0.43478296	+0.01573265
P	3.68	H	14.5	G 0.15	U 2

Residuals in seconds of arc

1989 01 10	675	1.4−	0.6+	1999 12 10	704	0.8−	1.6+	2000 01 06	678	0.2−	0.7+
1989 01 10	675	1.6+	0.6−	1999 12 15	704	0.4+	0.3−	2000 01 06	678	0.9−	0.3+
1991 10 27	413	1.7−	0.1−	1999 12 15	704	0.1+	0.4−	2000 01 08	704	0.5−	0.5+
1991 10 27	413	0.4+	0.3+	1999 12 15	704	0.0	1.0−	2000 01 08	704	0.1−	0.2+
1995 11 30	327	0.3+	0.1−	1999 12 15	704	0.5−	1.2−	2000 01 08	704	0.3−	0.3+
1995 11 30	327	0.3+	0.6−	1999 12 15	704	0.3−	0.9−	2000 01 08	704	0.4+	0.6−
1995 11 30	327	0.6+	0.3−	1999 12 31	699	0.5+	0.8+	2000 01 08	704	0.4−	0.2−
1998 08 17	704	0.2−	0.1−	1999 12 31	699	0.2+	0.4+	2000 01 30	704	0.1+	0.4+
1998 08 17	704	1.8+	0.3+	1999 12 31	699	1.2+	0.3+	2000 01 30	704	0.2−	0.1+
1998 08 17	704	1.4−	0.4+	2000 01 03	704	0.2−	0.3+	2000 01 30	704	0.4−	0.1+
1998 08 17	704	0.8+	0.9+	2000 01 03	704	0.0	0.1+	2000 01 30	704	0.1+	0.3−
1998 08 17	704	1.5−	1.3+	2000 01 03	704	0.2−	0.2−	2000 01 31	704	0.6+	0.5+
1999 11 16	704	0.6+	0.1−	2000 01 03	704	0.2−	0.1−	2000 01 31	704	0.2−	0.2+
1999 11 16	704	0.9+	0.3−	2000 01 03	704	0.2+	0.0	2000 01 31	704	0.2+	0.4−
1999 11 16	704	0.1+	1.4−	2000 01 04	704	0.2−	0.1+	2000 02 11	704	0.0	0.4+
1999 11 16	704	0.7−	0.3−	2000 01 04	704	0.4−	0.0	2000 02 11	704	0.4+	0.5+
1999 11 16	704	0.4+	0.0	2000 01 04	704	0.3+	0.0	2000 02 11	704	0.3+	0.2+
1999 12 10	704	0.0	0.8−	2000 01 04	704	0.1+	0.3+	2000 02 11	704	0.8+	0.1+
1999 12 10	704	0.3−	0.3−	2000 01 04	704	0.2+	0.3+	2000 02 11	704	0.5−	0.6+
1999 12 10	704	0.7−	0.7−	2000 01 05	678	0.8−	0.2+				
1999 12 10	704	0.3+	1.0+	2000 01 05	678	0.9+	1.7+				

1999 XR₁₇₃ = 1981 UZ₁₂ = 1990 WV₁₃

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	61.57965		(2000.0)	P	Q
n	0.22588184	ω	103.43116	+0.72732248	-0.66407072
a	2.6702290	Ω	298.48756	+0.52833777	+0.70289776
e	0.1849170	i	11.36774	+0.43801966	+0.25484273
P	4.36	H	13.8	G 0.15	U 2

Residuals in seconds of arc

1981 10 23	095	0.0	1.6+	1999 12 08	703	0.3−	0.1+	2000 01 04	704	0.2−	0.6−
1990 11 20	095	1.5−	0.3+	1999 12 08	703	0.2−	0.2+	2000 01 04	704	0.0	0.8−
1990 11 20	095	(4.7+	4.6+)	1999 12 08	703	0.0	0.3+	2000 01 04	704	0.2−	0.4−
1998 08 01	910	0.9+	0.1−	1999 12 08	703	0.1−	0.5+	2000 01 04	704	0.0	0.8−
1998 08 02	910	1.0+	0.1−	1999 12 10	704	0.3+	1.1−	2000 01 05	678	1.7+	1.7+
1998 08 02	910	1.0+	0.0	1999 12 10	704	0.4−	0.6−	2000 01 05	678	0.6−	0.6−
1998 08 17	704	0.4−	1.0−	1999 12 10	704	0.1−	0.6−	2000 01 06	678	1.4−	0.4−
1998 08 17	704	1.0−	0.7−	1999 12 10	704	0.3+	0.3+	2000 01 06	678	1.4−	0.3+
1998 08 17	704	0.1−	0.8−	1999 12 10	704	0.4−	0.0	2000 01 30	704	0.2−	0.5+
1998 08 17	704	0.4+	0.7−	1999 12 15	704	0.5−	0.0	2000 01 30	704	0.2−	0.0
1998 08 17	704	(7.0−	0.5−)	1999 12 15	704	0.0	0.2+	2000 01 30	704	0.3−	1.1+
1999 11 12	703	1.1+	0.3−	1999 12 15	704	0.2+	0.3+	2000 01 30	704	0.1+	0.4+
1999 11 12	703	0.8+	0.0	1999 12 15	704	0.5−	0.5−	2000 01 30	704	0.1+	0.3−
1999 11 12	703	0.6+	1.6+	1999 12 15	704	0.7−	0.3−	2000 02 25	049	1.5−	0.4−
1999 11 12	703	1.0+	0.3+	1999 12 31	699	0.4+	0.3+	2000 02 25	049	1.9−	0.4−
1999 11 16	704	0.1+	0.6−	1999 12 31	699	0.7+	0.9+	2000 02 25	049	1.9−	0.5−
1999 11 16	704	0.3+	0.8−	1999 12 31	699	0.6+	0.9+	2000 03 04	704	0.2+	0.8+
1999 11 16	704	0.9+	0.8−	2000 01 03	704	0.5−	0.4−	2000 03 04	704	1.4+	0.1−
1999 11 16	704	1.0+	0.4−	2000 01 03	704	0.4−	0.6−	2000 03 04	704	0.6+	0.2+
1999 11 16	704	0.5+	1.1−	2000 01 03	704	0.4−	1.0−	2000 03 04	704	1.4+	0.9+
1999 12 03	699	0.1−	0.3+	2000 01 03	704	0.1−	1.1−	2000 03 04	704	0.9+	0.2−
1999 12 03	699	0.0	0.2+	2000 01 03	704	0.1−	0.9−				
1999 12 03	699	0.5+	0.3+	2000 01 04	704	0.2−	0.6−				

1999 XM₁₇₅ = 1982 BQ₇

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	37.73717		(2000.0)	P	Q
n	0.21740007	ω	4.19609	+0.03981228	-0.98916505
a	2.7392369	Ω	83.56460	+0.91256609	-0.02160636
e	0.0324433	i	8.17531	+0.40698662	+0.14520907
P	4.53	H	14.0	G 0.15	U 1

Residuals in seconds of arc

1955 04 13	675	1.1−	1.3−	1999 12 10	704	0.4−	0.0	2000 01 31	704	0.1+	0.2−
1955 04 13	675	1.6+	0.6+	1999 12 10	704	0.2−	0.0	2000 01 31	704	0.4+	0.0
1982 01 26	381	0.8−	0.1−	1999 12 15	704	1.9+	0.1−	2000 01 31	704	0.2+	0.2−
1982 01 26	381	0.5−	1.0+	1999 12 15	704	0.2+	0.7+	2000 02 03	704	0.1+	0.1−
1996 05 09	675	0.3−	0.7−	1999 12 15	704	1.1+	0.3+	2000 02 03	704	0.2−	0.6+
1996 05 09	675	0.1+	0.8+	2000 01 03	704	0.4+	1.4−	2000 02 03	704	0.7−	0.4+
1998 09 21	699	0.7+	1.2+	2000 01 03	704	0.0	0.8−	2000 02 03	704	0.4−	0.3+
1998 09 21	699	0.0	0.0	2000 01 03	704	0.5+	0.3−	2000 02 11	704	0.2+	0.9−
1998 09 21	699	0.2−	0.1+	2000 01 03	704	0.3−	1.1+	2000 02 11	704	0.0	0.5+
1998 10 18	699	0.9−	0.6−	2000 01 03	704	0.3+	0.5−	2000 02 11	704	0.2−	0.0
1998 10 18	699	0.5+	0.2−	2000 01 04	704	0.0	0.3−	2000 02 11	704	0.1−	0.0
1998 10 18	699	0.3−	0.2−	2000 01 04	704	0.1−	0.1+	2000 02 11	704	0.4−	1.5+
1999 11 16	704	0.2−	0.2−	2000 01 04	704	0.2+	0.1−	2000 02 25	704	0.5+	0.3−
1999 11 16	704	0.8−	0.7+	2000 01 04	704	0.1−	0.4−	2000 02 25	704	0.3+	0.2+
1999 11 16	704	1.4−	1.1−	2000 01 04	704	0.4+	0.1−	2000 02 25	704	0.2−	0.2−
1999 11 16	704	0.8+	0.6−	2000 01 30	704	0.3+	0.1−	2000 02 26	704	0.1+	0.2+
1999 12 10	704	0.0	0.5−	2000 01 30	704	0.0	0.1−	2000 02 26	704	0.6−	0.2−
1999 12 10	704	0.5−	0.3+	2000 01 30	704	0.3+	0.7+	2000 02 26	704	0.1−	0.2+
1999 12 10	704	0.2+	0.5+	2000 01 30	704	0.4+	0.3−	2000 02 26	704	1.5−	0.1+

1999 XO₁₇₅ = 1978 EU₇ = 1998 VD₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	247.91313		(2000.0)	P		Q	
<i>n</i>	0.22007451	ω	296.54456	−0.33525747	+0.93085742		
<i>a</i>	2.7169995	Ω	313.07135	−0.77806099	−0.36051677		
<i>e</i>	0.1141844	<i>i</i>	11.47143	−0.53124714	−0.05943160		
<i>P</i>	4.48	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1998 03 05	095	0.3−	0.4−	1999 12 15	704	0.0	0.2+	2000 01 06	704	0.2−	0.5+
1998 11 15	699	0.5−	0.0	1999 12 15	704	0.3+	0.2+	2000 01 30	704	0.8−	0.5+
1998 11 15	699	0.0	0.5+	1999 12 15	704	0.4−	0.1−	2000 01 30	704	0.4−	0.6+
1998 11 15	699	0.4−	0.3−	2000 01 03	704	0.1−	0.1+	2000 01 30	704	0.4−	0.6+
1998 11 16	704	0.1+	0.3−	2000 01 03	704	0.1−	0.1−	2000 01 30	704	0.9−	1.0+
1998 11 16	704	0.7+	0.1−	2000 01 03	704	0.1−	0.0	2000 01 31	704	0.1+	0.2+
1998 11 16	704	0.8+	0.4+	2000 01 03	704	0.8−	0.5−	2000 01 31	704	0.2−	0.8−
1998 11 16	704	0.6−	0.2−	2000 01 03	704	0.5−	0.5−	2000 01 31	704	0.1−	0.7−
1998 11 16	704	0.1+	0.6−	2000 01 04	704	0.0	0.3−	2000 02 11	704	0.1−	0.3+
1999 11 16	704	0.1+	0.1−	2000 01 04	704	0.2−	0.5−	2000 02 11	704	0.0	0.1−
1999 11 16	704	0.3+	0.3+	2000 01 04	704	0.1−	0.5−	2000 02 11	704	0.1+	0.3+
1999 11 16	704	0.9+	0.4−	2000 01 04	704	0.1−	0.7−	2000 02 11	704	0.5−	0.3+
1999 12 10	704	1.2+	0.3+	2000 01 04	704	0.1−	0.1−	2000 02 11	704	0.6+	0.7+
1999 12 10	704	0.9+	1.2+	2000 01 06	704	0.1−	0.3+	2000 02 26	703	1.1+	1.0−
1999 12 10	704	0.6−	0.2−	2000 01 06	704	0.3−	0.0	2000 02 26	703	0.2+	0.5−
1999 12 15	704	0.2+	0.2−	2000 01 06	704	0.0	0.1−	2000 02 26	703	0.8+	0.8−
1999 12 15	704	1.1+	0.2+	2000 01 06	704	0.1+	0.2+	2000 02 26	703	0.2−	0.6+

1999 XS₁₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	306.67209		(2000.0)	P		Q	
<i>n</i>	0.30434250	ω	218.13770	−0.99328727	+0.11206903		
<i>a</i>	2.1889087	Ω	328.26149	−0.08816285	−0.89381403		
<i>e</i>	0.0898456	<i>i</i>	3.12226	−0.07488465	−0.43420849		
<i>P</i>	3.24	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 01 05	327	0.7+	0.3+	1998 08 23	699	0.3+	0.3−	2000 01 03	704	1.0+	1.0+
1997 01 05	327	0.2−	1.4+	1999 12 10	704	0.7−	0.8−	2000 01 03	704	0.4−	0.4−
1997 01 05	327	0.0	0.8+	1999 12 10	704	0.2+	0.3−	2000 01 03	704	0.1−	0.1+
1997 01 18	327	0.7+	0.4−	1999 12 10	704	0.1+	0.8+	2000 01 04	704	0.6−	0.5+
1997 01 18	327	0.8+	0.0	1999 12 10	704	0.7+	0.3−	2000 01 04	704	0.2+	0.0
1997 01 18	327	1.1−	0.1−	1999 12 15	704	0.7+	0.5−	2000 01 04	704	0.9−	0.5+
1998 08 17	704	(2.5−	0.7−)	1999 12 15	704	0.4+	0.1−	2000 01 04	704	0.8−	0.5+
1998 08 17	704	1.0−	0.0	1999 12 15	704	0.8−	1.6−	2000 01 04	704	0.0	0.0
1998 08 17	704	0.3−	1.1+	1999 12 15	704	0.1+	0.8−	2000 01 30	704	0.3+	1.7+
1998 08 17	704	1.3−	1.7+	1999 12 15	704	0.4+	1.0−	2000 01 30	704	0.3+	0.1+
1998 08 23	699	0.6+	0.0	2000 01 03	704	0.4−	0.3−	2000 01 30	704	0.3−	1.0+
1998 08 23	699	0.5+	0.1−	2000 01 03	704	0.6+	0.1−	2000 01 30	704	0.2−	0.3−

1999 XC₁₇₉ = 1990 WX₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	191.68694		(2000.0)	P		Q	
<i>n</i>	0.23546191	ω	215.13871	+0.48995892	+0.83077161		
<i>a</i>	2.5973010	Ω	85.55582	−0.72683107	+0.55658926		
<i>e</i>	0.1023708	<i>i</i>	15.36193	−0.48130744	+0.00518918		
<i>P</i>	4.19	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1990 11 16	809	0.2−	1.2−	1999 12 10	704	0.5+	0.6+	2000 01 10	699	0.3−	0.3+
1990 11 17	809	(1.3+	2.3−)	1999 12 10	704	0.2+	0.0	2000 01 10	699	0.0	1.1−
1990 11 21	809	1.1+	0.4−	1999 12 10	704	1.1+	1.1+	2000 01 10	699	0.2−	1.0+
1990 11 21	809	0.7−	1.7−	1999 12 10	704	0.9+	0.9+	2000 01 10	699	1.2+	1.3−
1990 11 21	809	(2.8−	1.4−)	1999 12 15	704	0.9+	0.2−	2000 01 10	699	0.2−	0.9+
1990 11 22	809	1.3+	1.2−	1999 12 15	704	1.1+	0.9+	2000 01 10	699	0.1+	0.5−

1990 11 22	809	0.1+	0.1+	1999 12 15	704	0.8+	0.2+	2000 01 29	704	0.3−	0.7+
1990 11 22	809	0.8+	1.3−	1999 12 15	704	0.4+	0.3−	2000 01 29	704	0.8−	0.7+
1998 11 13	704	0.8−	1.6+	1999 12 15	704	0.6+	1.2+	2000 01 29	704	0.2−	0.2−
1998 11 13	704	1.3−	1.1+	2000 01 02	704	0.6−	0.7+	2000 01 29	704	0.7−	0.3+
1998 11 13	704	(2.6−	0.7−)	2000 01 02	704	0.7−	0.9−	2000 01 29	704	1.4−	0.7−
1998 11 13	704	0.2−	1.5+	2000 01 02	704	0.4−	0.2−				
1998 11 13	704	(6.5−	1.8+)	2000 01 02	704	0.9−	0.6−				

1999 XM₂₀₄ = 1993 VH₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	63.64049		(2000.0)	P		Q	
<i>n</i>	0.17791636	ω	339.78638	+0.86441423	−0.47922201		
<i>a</i>	3.1308250	Ω	49.78975	+0.48432417	+0.71245423		
<i>e</i>	0.2245828	<i>i</i>	11.48823	+0.13497461	+0.51259657		
<i>P</i>	5.54	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 11 11	399	0.1+	0.6+	1999 12 12	704	0.0	0.3−	2000 01 02	704	0.7+	0.7−
1993 11 11	399	0.6+	0.0	1999 12 12	704	0.1−	0.5−	2000 01 02	704	0.2−	0.1−
1993 11 16	399	0.3+	0.4−	1999 12 13	699	0.1−	1.1+	2000 01 02	704	0.1+	0.5−
1993 11 16	399	1.1−	0.1−	1999 12 13	699	0.4−	1.4+	2000 01 02	704	0.5+	0.7+
1999 11 16	703	0.5+	0.1+	1999 12 13	699	0.4−	0.5+	2000 01 29	704	0.4−	0.0
1999 11 16	703	0.2−	0.2−	1999 12 15	704	0.5+	0.2−	2000 01 29	704	0.2+	0.3+
1999 11 16	703	0.0	0.5+	1999 12 15	704	0.3+	0.1+	2000 01 29	704	0.5−	0.4+
1999 11 16	703	0.2−	0.3+	1999 12 15	704	0.1+	0.1−	2000 01 29	704	0.3−	0.8+
1999 12 12	704	0.1−	1.3−	1999 12 15	704	0.2+	0.8−	2000 01 29	704	(0.3−	2.3+)
1999 12 12	704	0.1+	0.7−	1999 12 15	704	0.2+	0.1+				
1999 12 12	704	0.2−	0.6−	2000 01 02	704	0.5−	0.4−				

1999 XT₂₀₅ = 1997 GA₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	163.25421		(2000.0)	P		Q	
<i>n</i>	0.23964633	ω	264.13587	+0.69746590	+0.70440197		
<i>a</i>	2.5669782	Ω	50.99001	−0.57191804	+0.65792700		
<i>e</i>	0.1316664	<i>i</i>	9.76224	−0.43179981	+0.26636426		
<i>P</i>	4.11	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 04 09	809	0.5−	0.1+	1998 09 28	910	0.4+	0.1+	1999 12 15	704	0.1+	0.2−
1997 04 09	809	0.1+	0.1−	1998 09 28	910	0.3+	0.1+	2000 01 29	704	0.4−	0.0
1997 04 09	809	0.7+	0.1−	1998 09 28	910	0.4+	0.2+	2000 01 29	704	0.0	0.7+
1997 04 10	809	0.2+	0.7−	1999 12 12	704	0.7−	0.3−	2000 01 29	704	0.2−	0.5+
1997 04 10	809	1.2−	0.4−	1999 12 12	704	0.2+	0.2+	2000 01 29	704	0.1−	0.4+
1997 04 10	809	(2.8−	0.7−)	1999 12 12	704	0.0	0.3−	2000 01 29	704	0.5+	0.9+
1997 04 11	809	(2.4+	4.0+)	1999 12 12	704	0.5+	0.7−	2000 01 30	327	0.7−	0.1+
1997 04 11	809	(3.0+	4.4+)	1999 12 12	704	0.2+	0.7−	2000 01 30	327	0.4−	0.5−
1997 04 11	809	(1.8+	3.6+)	1999 12 15	704	0.7−	0.4−	2000 01 30	327	0.2+	0.2−
1998 09 27	699	0.4−	0.2−	1999 12 15	704	0.6+	0.1+	2000 01 31	327	0.2+	0.2−
1998 09 27	699	0.1−	0.7−	1999 12 15	704	0.9+	0.7−	2000 01 31	327	0.1−	0.3+
1998 09 27	699	0.0	0.3−	1999 12 15	704	0.7+	0.1+	2000 01 31	327	0.8−	0.1+

1999 XN₂₁₄ = 1997 ES₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	11.55861		(2000.0)	P		Q	
<i>n</i>	0.26818941	ω	55.05111	+0.05264875	−0.99822762		
<i>a</i>	2.3814509	Ω	31.96516	+0.89827501	+0.03520305		
<i>e</i>	0.1408647	<i>i</i>	3.00401	+0.43626840	+0.04798287		
<i>P</i>	3.68	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 03 10	809	0.6+	0.0	1999 11 14	704	0.3−	0.8−	1999 12 14	70

2000 MAR. 20

M.P.C. 39335

1997 03 11	809	0.8−	1.0−	1999 11 16	704	0.2−	0.0	1999 12 15	704	0.2+	0.1+
1997 03 11	809	0.6−	0.5−	1999 11 16	704	0.2+	0.1−	1999 12 15	704	0.4+	0.4−
1999 11 03	704	0.8+	0.2−	1999 11 16	704	0.1−	0.6−	2000 01 03	704	0.6−	0.1−
1999 11 03	704	0.2−	0.6+	1999 11 16	704	0.7−	0.3−	2000 01 03	704	0.3+	1.0+
1999 11 03	704	0.0	0.0	1999 12 14	704	0.2+	0.1−	2000 01 03	704	0.5−	0.5−
1999 11 03	704	0.3+	1.2+	1999 12 14	704	0.3+	0.1−	2000 01 30	704	0.5−	0.0
1999 11 14	704	0.3−	0.6−	1999 12 14	704	0.4+	0.6+	2000 01 30	704	0.4−	0.8+
1999 11 14	704	0.5−	0.6−	1999 12 14	704	0.3+	0.1+	2000 01 30	704	0.1+	0.0

1999 XR₂₁₇

Id. A. Gnädig (1989 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	211.07742		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.22953974	ω	177.31523	+0.14748269	+0.98566835
a	2.6417850	Ω	101.15655	−0.90899725	+0.16771365
e	0.1616821	i	4.78818	−0.38983696	−0.01816714
P	4.29	H	16.0	G 0.15	U 4

Residuals in seconds of arc

1989 09 05	413	1.9−	0.8−	1999 12 13	691	0.2−	0.0	2000 01 08	691	0.5+	0.1−
1989 09 05	413	1.9+	0.9+	1999 12 13	691	0.1−	0.1−	2000 01 08	691	0.5+	0.1−
1998 10 23	910	0.4−	0.2+	1999 12 16	691	0.1−	0.2+	2000 01 13	691	0.3−	0.0
1998 10 23	910	0.2+	0.1+	1999 12 16	691	0.1+	0.3+	2000 01 13	691	0.2−	0.1−
1998 10 23	910	0.3+	0.4−	1999 12 16	691	0.3+	0.1+	2000 01 13	691	0.5−	0.2−
1999 12 13	691	0.1−	0.0	2000 01 08	691	0.2+	0.1−				

1999 XE₂₂₁ = 1992 ST₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	303.31672		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.18745652	ω	358.08043	−0.86700953	+0.49061161
a	3.0236790	Ω	211.77863	−0.45494041	−0.85072891
e	0.0292990	i	9.52507	−0.20328231	−0.18857511
P	5.26	H	12.4	G 0.15	U 3

Residuals in seconds of arc

1992 09 30	675	0.1−	1.5−	1999 12 14	704	0.2+	1.0−	2000 02 12	327	1.4−	0.7−
1992 09 30	675	(0.6+	2.2−)	1999 12 14	704	1.2+	1.0−	2000 02 12	327	1.6−	0.2−
1992 10 03	675	1.1+	0.5−	1999 12 16	704	0.2+	0.9−	2000 02 13	704	(0.9+	4.8+)
1992 10 03	675	0.1−	1.4−	1999 12 16	704	0.0	0.2+	2000 02 13	704	(1.9+	3.0+)
1998 12 15	704	(1.5−	3.1+)	1999 12 16	704	0.1−	0.3−	2000 02 13	704	0.7+	0.3−
1998 12 15	704	0.7−	0.8−	1999 12 16	704	0.2−	0.2+	2000 03 01	703	0.5+	0.1−
1998 12 15	704	0.0	1.7+	2000 01 11	704	0.5+	0.7+	2000 03 01	703	0.1+	0.0
1998 12 15	704	0.2+	0.0	2000 01 11	704	0.0	0.2−	2000 03 01	703	0.1−	0.2+
1998 12 16	699	0.1−	0.3+	2000 01 11	704	(2.2−	1.2−)	2000 03 01	703	0.2+	0.3+
1998 12 16	699	0.0	0.8+	2000 02 07	327	1.1−	0.6−	2000 03 05	608	(1.2+	2.3−)
1998 12 16	699	0.4+	0.2+	2000 02 07	327	0.7−	0.6−	2000 03 05	608	(1.2+	2.1−)
1999 11 08	703	0.3−	0.0	2000 02 07	327	0.9−	0.8−	2000 03 05	608	(2.1+	3.7−)
1999 11 08	703	0.3+	0.8+	2000 02 08	704	0.1+	0.1+	2000 03 08	704	0.8+	0.1+
1999 11 08	703	1.4+	0.9+	2000 02 08	704	0.2+	0.6+	2000 03 08	704	0.0	0.3+
1999 11 08	703	1.5+	1.1+	2000 02 08	704	0.3+	0.5+	2000 03 08	704	0.3+	0.7+
1999 12 14	704	1.0−	0.3−	2000 02 08	704	0.9+	1.4−	2000 03 08	704	(2.9−	2.0+)
1999 12 14	704	0.3+	0.0	2000 02 08	704	0.1+	0.4+				
1999 12 14	704	0.0	0.7−	2000 02 12	327	1.6−	0.7−				

1999 XJ₂₂₁ = 1998 XD₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	263.96020		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.18796908	ω	17.92400	−0.19962653	+0.96993950
a	3.0181798	Ω	240.76179	−0.91741005	−0.23490235
e	0.0428086	i	9.17687	−0.34424997	+0.06354719
P	5.24	H	12.3	G 0.15	U 3

Residuals in seconds of arc

1998 12 15	704	0.2−	0.6−	1999 12 16	704	0.6−	0.9−	2000 03 03	703	0.0	0.4+
1998 12 15	704	0.3−	0.6−	1999 12 16	704	0.3+	1.3−	2000 03 03	703	0.3−	0.2−

1998 12 15	704	0.1+	0.1−	1999 12 16	704	1.2−	0.2−	2000 03 08	704	0.2+	0.2+
1998 12 15	704	0.1+	0.1+	1999 12 16	704	0.2+	0.4−	2000 03 08	704	0.0	0.4+
1998 12 15	704	0.6+	0.3−	2000 02 07	703	0.1−	0.0	2000 03 08	704	0.5−	0.0
1998 12 16	704	1.2+	1.0−	2000 02 07	703	0.2+	0.1+	2000 03 08	704	0.2+	0.0
1998 12 16	704	0.5+	0.2+	2000 02 07	703	0.3+	0.2+	2000 03 13	704	0.1+	0.0
1998 12 16	704	1.2−	0.3+	2000 02 07	703	0.3−	0.4+	2000 03 13	704	0.3−	0.3+
1998 12 16	704	0.5−	1.7+	2000 02 08	704	0.5+	0.0	2000 03 13	704	0.4−	0.1−
1998 12 16	704	0.3−	1.0+	2000 02 08	704	0.7+	0.2+	2000 03 13	704	0.1−	0.2−
1999 12 14	704	0.4−	0.1−	2000 02 08	704	0.6+	0.1+	2000 03 13	704	0.2−	0.3−
1999 12 14	704	0.3+	0.5−	2000 02 08	704	0.7+	0.2+	2000 03 14	703	0.2+	0.1+
1999 12 14	704	0.5−	0.4−	2000 02 08	704	0.3+	0.5−	2000 03 14	703	0.0	0.5+
1999 12 14	704	0.0	0.1−	2000 03 03	703	0.3−	0.0	2000 03 14	703	0.0	0.4+
1999 12 14	704	0.5−	0.1+	2000 03 03	703	0.1+	0.1+	2000 03 14	703	0.1+	0.5+

1999 XK₂₂₂ = 1998 ME₄₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	128.56004		(2000.0)	P	Q
n	0.24227162	ω	28.32855	+0.71605833	+0.68316760
a	2.5484005	Ω	287.82571	−0.66549453	+0.60616190
e	0.1226104	i	8.65905	−0.21065967	+0.40724658
P	4.07	H	14.0	G 0.15	U 3

Residuals in seconds of arc

1998 06 23	699	0.3−	0.3+	1998 08 17	704	1.2−	0.2−	2000 01 03	704	0.5−	0.6−
1998 06 23	699	0.7−	0.3+	1999 12 15	704	0.2+	0.1+	2000 01 03	704	0.1−	0.2+
1998 06 23	699	0.2−	0.3+	1999 12 15	704	0.2+	0.1+	2000 01 03	704	0.1+	0.2+
1998 06 26	704	0.6+	0.8−	1999 12 15	704	0.1−	0.3−	2000 01 03	704	0.1−	0.0
1998 06 26	704	0.2+	0.0	1999 12 15	704	0.3+	0.7+	2000 01 03	704	0.2+	0.9−
1998 06 26	704	0.6+	0.1+	1999 12 15	704	0.4−	0.3−	2000 01 04	704	0.7−	0.5+
1998 06 26	704	0.3−	0.3−	1999 12 16	704	0.3−	0.0	2000 01 04	704	0.4+	0.6+
1998 08 17	704	0.8+	0.8+	1999 12 16	704	0.1−	0.1−	2000 01 04	704	0.3+	0.1−
1998 08 17	704	(0.4+	3.6−)	1999 12 16	704	0.1−	0.1+	2000 01 04	704	0.2+	0.5−
1998 08 17	704	0.0	0.9−	1999 12 16	704	0.3+	0.0	2000 01 04	704	0.1+	0.6+
1998 08 17	704	0.5+	0.4+	1999 12 16	704	0.3+	0.1−				

1999 XV₂₃₀ = 1996 HP₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	13.58236		(2000.0)	P	Q
n	0.22534397	ω	55.41573	−0.36786664	−0.92280390
a	2.6744763	Ω	56.56918	+0.80190502	−0.37715731
e	0.2858358	i	7.88487	+0.47076796	−0.07864686
P	4.37	H	15.7	G 0.15	U 4

Residuals in seconds of arc

1996 04 21	691	0.0	0.1+	1999 12 07	703	0.4+	0.4−	2000 01 10	699	0.1+	0.7+
1996 04 21	691	0.2−	0.1−	1999 12 10	704	0.1+	0.1+	2000 01 10	699	0.7+	0.1−
1996 04 21	691	0.1−	0.5+	1999 12 10	704	0.1+	0.3−	2000 01 10	699	0.9+	0.3+
1996 04 24	691	0.5+	0.2−	1999 12 10	704	0.4−	0.0	2000 01 29	704	0.0	0.4−
1996 04 24	691	0.2−	0.0	1999 12 10	704	0.3+	0.5+	2000 01 29	704	0.1−	0.2−
1996 04 24	691	0.0	0.4−	1999 12 10	704	0.1−	0.3−	2000 01 29	704	0.7−	0.0
1999 12 07	703	0.4−	0.0	2000 01 02	704	0.3+	0.2−	2000 01 29	704	0.9−	0.4+
1999 12 07	703	0.2+	0.0	2000 01 02	704	0.3−	0.3−	2000 01 29	704	0.3−	0.5+

M.P.C. 39336

2000 MAR. 20

Residuals in seconds of arc

1980 11 29	675	0.1+	0.1-	1999 12 09	703	0.7+	0.3-	2000 03 10	703	0.9-	0.6+
1980 12 01	675	0.1+	0.3-	1999 12 09	703	0.3+	0.4+	2000 03 10	703	0.3+	0.6+
1998 09 27	699	0.8-	0.2+	2000 01 03	704	0.2-	0.3+	2000 03 10	703	0.3-	0.9-
1998 09 27	699	0.1-	0.1+	2000 01 03	704	0.6+	0.2-	2000 03 10	703	0.6+	0.2+
1998 09 27	699	0.4+	0.7+	2000 01 03	704	0.3-	1.0-	2000 03 11	703	1.2-	0.5+
1999 12 08	704	0.6-	0.4-	2000 01 03	704	0.7+	0.3-	2000 03 11	703	0.3+	0.5+
1999 12 08	704	0.4+	0.8-	2000 01 03	704	0.5-	0.7-	2000 03 11	703	0.2+	0.1-
1999 12 08	704	0.7-	0.7+	2000 01 06	699	0.4+	0.3+	2000 03 11	703	1.2-	0.5+
1999 12 09	703	0.3+	0.5-	2000 01 06	699	0.2+	1.0+				
1999 12 09	703	0.7+	0.7-	2000 01 06	699	0.7+	0.7+				

1999 YL₄ = 1998 SP₁₀₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	133.56898		(2000.0)	<i>P</i>		Doppler	<i>Q</i>
<i>n</i>	0.19657363	<i>ω</i>	234.69377	+0.87246922	+0.48588683		
<i>a</i>	2.9294486	<i>Ω</i>	96.18392	-0.42962459	+0.81345915		
<i>e</i>	0.0835128	<i>i</i>	3.00231	-0.23285224	+0.31968453		
<i>P</i>	5.01	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 09 26	704	0.0	0.8-	1999 12 27	734	(0.1-	2.5+)	1999 12 29	734	0.4-	1.0-
1998 09 26	704	1.0+	1.8-	1999 12 27	734	0.6-	1.1+	1999 12 29	734	1.3+	0.7-
1998 09 26	704	1.0+	1.0+	1999 12 28	734	0.6+	1.1-	1999 12 29	734	0.9+	1.4+
1998 09 26	704	0.8-	0.7-	1999 12 28	734	1.1-	1.0-	2000 01 04	704	1.0+	1.0+
1998 09 26	704	0.5+	0.2+	1999 12 28	734	(4.6+	0.4+)	2000 01 04	704	0.5+	1.3+
1998 09 27	704	0.3-	0.0	1999 12 28	734	0.6+	0.6+	2000 01 04	704	0.0	1.0+
1998 09 27	704	0.3-	1.7+	1999 12 28	734	0.3-	0.6-	2000 01 08	734	1.3-	1.3-
1998 09 27	704	0.7-	0.3+	1999 12 28	734	1.3-	0.6+	2000 01 08	734	0.2+	0.5-
1998 09 27	704	0.5-	0.1+	1999 12 29	734	0.2-	0.8-				

1999 YT₅ = 1995 UO₄₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	100.67368		(2000.0)	<i>P</i>		Williams	<i>Q</i>
<i>n</i>	0.27582969	<i>ω</i>	344.03316	+0.99256056	+0.07154274		
<i>a</i>	2.3372691	<i>Ω</i>	13.10690	+0.02616534	+0.66489585		
<i>e</i>	0.2224390	<i>i</i>	25.74897	-0.11890719	+0.74350195		
<i>P</i>	3.57	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 10 23	033	0.2+	0.2-	1999 12 17	704	0.2-	0.3-	1999 12 31	704	0.4+	0.4+
1995 10 23	033	0.0	0.1-	1999 12 28	704	0.0	0.1+	2000 01 25	704	0.4+	0.0
1995 10 24	033	0.4-	0.5+	1999 12 28	704	0.3-	0.1+	2000 01 25	704	0.1-	0.2-
1999 12 07	699	0.0	0.1-	1999 12 28	704	0.3+	1.4+	2000 01 25	704	0.1-	0.1+
1999 12 07	699	0.1+	0.2-	1999 12 28	704	0.1+	1.2+	2000 01 25	704	0.0	0.4+
1999 12 07	699	0.2+	0.3-	1999 12 28	704	0.4+	1.0+	2000 01 25	704	0.2-	0.4-
1999 12 17	704	0.8+	0.4-	1999 12 31	704	0.0	0.3-	2000 02 25	704	0.2+	0.3+
1999 12 17	704	1.4-	1.1-	1999 12 31	704	0.0	0.1-	2000 02 25	704	0.3-	0.1+
1999 12 17	704	0.2+	0.4-	1999 12 31	704	0.2-	0.3-	2000 02 25	704	0.5+	0.4+
1999 12 17	704	0.6-	0.5-	1999 12 31	704	0.5-	0.2-	2000 02 25	704	0.1+	0.5-

1999 YS₁₅ = 1979 OY₅ = 1997 GM₄₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	125.92123		(2000.0)	<i>P</i>		Williams	<i>Q</i>
<i>n</i>	0.20956238	<i>ω</i>	188.28079	+0.66606170	+0.74450016		
<i>a</i>	2.8071169	<i>Ω</i>	123.49685	-0.68117443	+0.63204885		
<i>e</i>	0.0574646	<i>i</i>	3.13608	-0.30391315	+0.21502039		
<i>P</i>	4.70	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 07 24	675	0.5-	0.1-	1999 11 04	704	0.5-	0.9+	1999 12 31	691	0.0	0.2+
1979 07 25	675	0.4+	1.0+	1999 11 04	704	0.2+	0.3+	1999 12 31	691	0.1+	0.1+
1997 04 11	809	0.2+	0.4+	1999 11 04	704	0.7+	0.0	2000 01 05	691	0.1-	0.1+

1997 04 11	809	0.1+	1.0+	1999 11 15	704	0.8+	0.1+	2000 01 05	691	0.0	0.1+
1997 04 11	809	0.4+	0.4+	1999 11 15	704	0.7+	0.1-	2000 01 05	691	0.0	0.0
1997 04 12	809	(0.3-	2.3+)	1999 11 15	704	0.4+	0.2-	2000 01 05	704	(2.6+	0.1-)
1997 04 12	809	0.3+	0.9+	1999 11 15	704	0.1-	0.0	2000 01 05	704	0.1+	1.2+
1997 04 12	809	(1.8-	2.4+)	1999 11 15	704	0.7+	0.7-	2000 01 05	704	0.2-	1.7+
1998 08 17	704	1.3+	0.8+	1999 12 06	704	0.4+	0.0	2000 01 05	704	0.1+	0.4+
1998 08 17	704	1.1-	1.3-	1999 12 06	704	0.0	0.2+	2000 02 03	049	1.6-	1.9-
1998 08 17	704	(2.6-	0.8+)	1999 12 06	704	0.0	0.0	2000 02 03	049	1.7-	0.9-
1998 08 17	704	0.7-	1.1+	1999 12 06	704	0.0	0.6-	2000 02 03	049	1.4-	0.9-
1999 11 04	704	0.2+	0.5+	1999 12 06	704	0.4+	0.8+				
1999 11 04	704	1.0-	0.9+	1999 12 31	691	0.1+	0.3+				

1999 YD₁₇ = 1991 PG₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	182.76483		(2000.0)	<i>P</i>		Marsden	<i>Q</i>
<i>n</i>	0.17281551	<i>ω</i>	174.03941	+0.65720326	+0.75094791		
<i>a</i>	3.1921325	<i>Ω</i>	137.02337	-0.69536846	+0.63712167		
<i>e</i>	0.1722847	<i>i</i>	5.42980	-0.29076894	+0.17364683		
<i>P</i>	5.70	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1991 08 03	809	1.0+	1.0-	1999 12 31	691	0.3-	0.3+	2000 01 09	691	0.1-	0.3-
1991 08 03	809	0.4+	0.4+	1999 12 31	691	0.5-	0.1+	2000 01 16	691	0.7+	0.4+
1991 08 03	809	0.9-	0.7+	2000 01 06	691	0.3+	0.0	2000 01 16	691	1.1+	0.4+
1991 08 05	809	0.3+	0.2+	2000 01 06	691	0.1+	0.2-	2000 01 16	691	0.8+	0.2+
1991 08 05	809	0.5+	0.4-	2000 01 06	691	0.4+	0.2-	2000 02 05	695	0.4-	0.3-
1991 08 05	809	1.2-	0.1-	2000 01 09	691	0.9-	0.1-	2000 02 05	695	0.2-	0.4-
1999 12 31	691	0.5-	0.2+	2000 01 09	691	0.8-	0.2-				

2000 AS = 1998 SR₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	66.29557		(2000.0)	<i>P</i>		Williams	<i>Q</i>
<i>n</i>	0.22814588	<i>ω</i>	258.43955	+0.39774147	-0.91749003		
<i>a</i>	2.6525340	<i>Ω</i>	168.12134	+0.84865871	+0.36635892		
<i>e</i>	0.0388578	<i>i</i>	1.03322	+0.34868341	+0.15489736		
<i>P</i>	4.32	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 20	691	0.2+	0.3+	1998 09 27	691	0.3-	0.0	2000 01 03	691	0.0	0.3+
1998 09 20	691	0.4-	0.0	1998 09 27	691	0.1+	0.1+	2000 03 10	691	0.1+	0.2+
1998 09 20	691	0.8+	0.0	2000 01 02	691	0.2+	0.1+	2000 03 10	691	0.9+	0.2-
1998 09 21	691	0.1-	0.1+	2000 01 02	691	0.2-	0.1-	2000 03 10	691	0.4+	0.2-
1998 09 21	691	0.0	0.1-	2000 01 02	691	0.2-	0.2-	2000 03 12	691	0.2-	0.3+
1998 09 21	691	0.2-	0.3-	2000 01 03	691	0.1+	0.1-	2000 03 12	691	0.4-	0.2+
1998 09 27	691	0.1-	0.1-	2000 01 03	691	0.0	0.1-	2000 03 12	691	0.7-	0.0

2000 AH₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	62.54617		(2000.0)	<i>P</i>		Williams	<i>Q</i>
<i>n</i>	0.17187958	<i>ω</i>	326.15010	+0.43873919	-0.83852179		
<i>a</i>	3.2037099	<i>Ω</i>	95.89467	+0.87954717	+0.32703929		
<i>e</i>	0.1050217	<i>i</i>	18.95410	+0.18413230	+0.43580559		
<i>P</i>	5.73	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 13	704	0.7+	0.3-	2000 01 03	704	0.1+	1.3-	2000 01 29	704	0.4-	0.2-
1998 11 13	704	0.7-	1.2-	2000 01 03	411	0.5-	0.3+	2000 01 29	704	0.8-	0.5-
1998 11 13	704	0.3+	0.5+	2000 01 03	411	1.6+	1.2+	2000 01 29	704	0.5-	0.1+
1998 11 13	704	0.6+	1.0+	2000 01 04	411	0.1+	0.7-	2000 02 27	704	0.3+	0.4+
1998 11 13	704	1.0-	0.0	2000 01 04	411	0.2-	0.3+	2000 02 27	704	0.3+	0.1+
1999 12 15	704	0.4+	0.5+	2000 01 10	411	1.4-	0.6-	2000 02 27	704	0.3+	0.4+
1999 12 15	704	0.4+	0.0	2000 01 10	411	1.0-	0.4+	2000 02 27	704	0.4+	0.1+
1999 12 15	704	0.2+	1.0+	2000 01 28	411	0.2+	0.3-	2000 02 27	704	0.5+	0.4+
2000 01 03	704	0.1+	0.8-	2000 01 28	411	0.1+	0.8+	2000 03 01	411	0.5-	0.0

2000 MAR. 20

M.P.C. 39337

2000 01 03 704 0.6+ 0.8- 2000 01 29 704 0.2+ 1.1+ 2000 03 01 411 0.2- 0.7-
 2000 01 03 704 0.1- 1.0- 2000 01 29 704 0.0 0.1-

2000 AQ₈ = 1990 TX₇ = 1996 BK₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	25.12122	(2000.0)	P	Q
<i>n</i>	0.22368182	ω	38.31978	+0.39442821
<i>a</i>	2.6877090	Ω	28.51102	+0.82177046
<i>e</i>	0.2287821	<i>i</i>	4.66471	+0.41124166
<i>P</i>	4.41	<i>H</i>	15.8	<i>G</i> 0.15 <i>U</i> 3

Residuals in seconds of arc

1990 10 13	033	0.6+	0.2-	1999 11 14	704	0.2-	0.3+	1999 12 15	704	0.2+	0.0
1990 10 13	033	0.1+	0.7+	1999 11 14	704	0.0	0.2+	2000 01 02	704	0.1-	0.4-
1990 10 14	033	0.5-	0.8-	1999 11 14	704	0.9-	0.2-	2000 01 02	704	0.6+	0.5+
1996 01 16	691	0.4-	0.2-	1999 11 14	704	0.6+	0.2+	2000 01 02	704	0.2+	0.2-
1996 01 16	691	0.1+	0.1+	1999 11 16	704	1.1+	0.3-	2000 01 04	704	0.4-	0.8-
1996 01 16	691	0.2-	0.1+	1999 11 16	704	0.3-	0.5-	2000 01 04	704	0.6-	0.6+
1996 01 29	691	0.1+	0.4-	1999 11 16	704	0.0	0.4-	2000 01 04	704	0.4-	0.1+
1996 01 29	691	0.2+	0.0	1999 12 15	704	0.2-	0.5+				
1996 01 29	691	0.1+	0.0	1999 12 15	704	0.2+	0.8+				

2000 AT₈ = 1991 SO₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	140.15508	(2000.0)	P	Q
<i>n</i>	0.26646194	ω	258.52526	+0.67262645
<i>a</i>	2.3917324	Ω	54.26955	-0.61811897
<i>e</i>	0.1223165	<i>i</i>	7.46811	-0.40682010
<i>P</i>	3.70	<i>H</i>	14.2	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1991 09 12	675	0.4-	0.2+	1999 11 16	704	0.2-	0.2-	1999 12 15	704	0.6-	0.6+
1991 09 12	675	0.1+	0.9+	1999 11 16	704	0.1-	0.3+	2000 01 02	704	0.1+	0.2+
1991 09 17	675	0.1+	0.3-	1999 11 16	704	0.3-	0.6-	2000 01 02	704	0.3+	1.0-
1991 09 17	675	0.2+	0.7-	1999 11 16	704	0.4+	0.0	2000 01 02	704	0.0	0.2-
1999 11 14	704	0.3+	0.1+	1999 11 16	704	0.1+	0.8+	2000 01 04	704	0.3+	0.5-
1999 11 14	704	0.3-	0.1-	1999 12 15	704	0.8+	0.4+	2000 01 04	704	0.1+	0.0
1999 11 14	704	0.1+	0.1-	1999 12 15	704	0.0	0.4-	2000 01 04	704	0.0	0.9+
1999 11 14	704	0.1+	0.1-	1999 12 15	704	0.4-	0.3+	2000 01 04	704	0.3-	0.2+
1999 11 14	704	0.0	0.2-	1999 12 15	704	0.4-	0.3-				

2000 AF₁₀ = 1995 WS₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	196.67718	(2000.0)	P	Q
<i>n</i>	0.23320094	ω	199.31037	-0.39679443
<i>a</i>	2.6140618	Ω	47.67520	-0.81102639
<i>e</i>	0.1439471	<i>i</i>	12.53890	-0.42987250
<i>P</i>	4.23	<i>H</i>	13.2	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1995 11 29	411	1.2+	0.6-	1999 11 14	704	0.6+	0.1-	1999 12 15	704	0.2+	0.2-
1995 11 29	411	0.1+	0.2-	1999 11 14	704	0.7+	0.1+	1999 12 15	704	0.3+	0.9-
1995 12 01	411	0.3-	0.3-	1999 11 16	704	0.2+	0.0	1999 12 15	704	0.3+	0.5-
1995 12 01	411	1.1-	1.4+	1999 11 16	704	0.6-	0.6-	1999 12 15	704	0.1-	0.2-
1999 10 06	704	0.8+	0.7-	1999 11 16	704	0.0	0.2+	1999 12 15	704	0.0	1.0-
1999 10 06	704	0.2-	0.7+	1999 11 16	704	0.0	0.1-	2000 01 03	704	0.3-	0.7+
1999 10 06	704	0.8-	1.6+	1999 11 16	704	0.1+	0.1-	2000 01 03	704	0.0	0.2+
1999 11 03	704	0.6+	0.5-	1999 12 05	703	0.6-	0.1+	2000 01 03	704	0.0	0.3+
1999 11 03	704	0.0	0.1-	1999 12 05	703	0.5-	0.1-	2000 01 03	704	0.8+	1.1-
1999 11 03	704	0.1-	0.1+	1999 12 05	703	0.4-	0.3-	2000 01 03	704	0.4-	0.3+
1999 11 03	704	0.4+	0.0	1999 12 05	703	(0.6-	4.8-)	2000 01 04	704	0.2+	0.7+
1999 11 03	704	0.0	0.1+	1999 12 13	703	0.6-	0.2+	2000 01 04	704	0.2+	0.8+
1999 11 14	704	0.5+	0.2+	1999 12 13	703	0.7-	0.6+	2000 01 04	704	0.1+	0.3+
1999 11 14	704	0.1+	0.2+	1999 12 13	703	1.5-	0.3+	2000 01 04	704	0.0	0.2-
1999 11 14	704	0.8+	0.5-	1999 12 13	703	0.4-	0.1+	2000 01 04	704	0.2+	0.9-

2000 AY₁₀ = 1995 VQ₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	323.87609	(2000.0)	P	Q
<i>n</i>	0.25324206	ω	83.36492	-0.74985861
<i>a</i>	2.4742609	Ω	55.68085	+0.55284855
<i>e</i>	0.0970348	<i>i</i>	6.56220	+0.36341513
<i>P</i>	3.89	<i>H</i>	15.0	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1995 11 15	691	0.3-	0.0	1999 11 14	704	0.5+	0.1-	1999 12 07	704	0.0	0.1-
1995 11 15	691	0.0	0.1+	1999 11 16	704	0.7+	0.4-	2000 01 03	704	0.0	1.0+
1995 11 15	691	0.1+	0.1+	1999 11 16	704	0.3-	0.3+	2000 01 03	704	0.5-	0.1-
1995 11 27	691	0.2-	0.1+	1999 11 16	704	0.2-	0.1-	2000 01 03	704	0.6+	0.0
1995 11 27	691	0.0	0.2-	1999 11 16	704	0.2+	0.0	2000 01 03	704	0.3+	0.1-
1995 11 27	691	0.4+	0.1+	1999 11 16	704	0.4+	0.5-	2000 01 04	704	0.2+	0.0
1999 11 14	704	0.1-	0.1+	1999 12 07	704	0.3-	0.2+	2000 01 04	704	0.2+	0.1-
1999 11 14	704	0.1-	0.3-	1999 12 07	704	0.1+	0.2+	2000 01 04	704	0.6-	0.7-
1999 11 14	704	0.2-	0.5+	1999 12 07	704	0.3-	0.5+	2000 01 04	704	0.2+	0.1-
1999 11 14	704	0.1-	0.1-	1999 12 07	704	0.1-	0.1+	2000 01 04	704	0.3-	0.2-

2000 AG₁₁ = 1994 JY₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	346.81046	(2000.0)	P	Q
<i>n</i>	0.28615710	ω	64.57944	-0.46547485
<i>a</i>	2.2806906	Ω	53.44599	+0.76745621
<i>e</i>	0.0793907	<i>i</i>	6.30515	+0.44084479
<i>P</i>	3.44	<i>H</i>	15.4	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1994 05 04	691	0.4-	0.1-	1999 11 16	704	0.4+	0.2+	2000 01 04	704	0.1-	0.3+
1994 05 04	691	0.4-	0.5-	1999 11 16	704	0.7+	0.2-	2000 01 04	704	0.7+	0.1+
1994 05 04	691	0.2+	0.0	1999 12 15	704	0.7-	0.5+	2000 01 04	704	0.1+	0.6-
1994 05 11	691	0.2+	0.1-	1999 12 15	704	0.4-	0.0	2000 01 04	704	0.5-	0.2-
1994 05 11	691	0.2+	0.1+	1999 12 15	704	0.3-	0.8-	2000 01 04	704	0.1-	0.2-
1994 05 11	691	0.0	0.0	1999 12 15	704	0.3-	0.5+	2000 01 30	704	0.7-	1.1+
1999 11 14	704	0.2+	0.3+	2000 01 03	704	1.8+	0.8-	2000 01 30	704	0.2+	0.7+
1999 11 14	704	0.4+	0.1+	2000 01 03	704	0.2-	0.1-	2000 01 30	704	0.6-	1.1+
1999 11 14	704	0.2-	0.4-	2000 01 03	704	0.7+	0.6-	2000 01 30	704	0.0	0.6+
1999 11 14	704	0.4-	0.3+	2000 01 03	704	0.8-	1.4-	2000 01 30	704	0.3+	0.1+
1999 11 16	704	0.3-	0.2-	2000 01 03	704	0.2+	0.5-				

2000 AQ₁₁ = 1990 TH₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	75.32725	(2000.0)	P	Q
<i>n</i>	0.22776587	ω	0.10200	+0.98549644
<i>a</i>	2.6554836	Ω	9.66827	+0.15565854
<i>e</i>	0.0935422	<i>i</i>	2.79737	+0.06758093
<i>P</i>	4.33	<i>H</i>	14.8	<i>G</i> 0.15 <i>U</i> 6

Residuals in seconds of arc

1990 10 11	033	0.7-	0.7-	1999 11 14	704	0.2-	0.2-	2000 01 03	704	0.4-	0.2-
1990 10 12	033	0.4-	0.5-	1999 11 14	704	0.2-	0.2+	2000 01 03	704	0.2-	0.5+
1990 10 12	033	0.0	0.6+	1999 11 14	704	0.1-	0.1+	2000 01 03	704	0.3-	0.1+
1990 10 13	033	0.3+	0.4+	1999 11 16	704	0.8+	0.9-	2000 01 04	704	0.4-	0.0
1990 10 14	033	0.3-	0.2+	1999 11 16	704	0.5+	1.3-	2000 01 04	704	0.1-	0.3+
1990 10 18	033	0.7+	0.7+	1999 11 16	704	0.7+	0.2+	2000 01 04	704	0.6+	0.7+
1999 11 14	704	0.3-	0.3-	1999 11 16	704	0.5-	0.2-	2000 01 04	704	0.1-	0.9+
1999 11 14	704	0.0	0.4-	2000 01 03	704	0.2-	0.2-				

2000 AD₁₂ = 1978 WC₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	32.49629		(2000.0)		P		Q		
<i>n</i>	0.18929413	ω	352.55112		+0.56264436		−0.81107718		
<i>a</i>	3.0040786	Ω	63.07994		+0.76743235		+0.44049874		
<i>e</i>	0.1419358	<i>i</i>	10.33439		+0.30737421		+0.38485669		
<i>P</i>	5.21	<i>H</i>	14.4		<i>G</i>	0.15	<i>U</i>	4	
Residuals in seconds of arc									
1978 11 30	675	0.2+	0.4+	1999 11 16	704	0.1+	0.4+	2000 01 03	704 0.5+ 0.2+
1978 12 01	675	0.4−	0.2−	1999 11 16	704	0.0	0.1+	2000 01 03	704 0.6− 0.5+
1999 11 14	704	0.1−	0.1−	1999 11 16	704	0.4+	0.1+	2000 01 03	704 1.2− 0.4+
1999 11 14	704	0.3+	0.3+	1999 12 15	704	0.2+	0.5−	2000 01 03	704 0.6+ 0.2−
1999 11 14	704	0.2−	0.7−	1999 12 15	704	0.4−	1.6−	2000 01 04	704 0.1+ 0.3−
1999 11 14	704	0.1+	0.2−	1999 12 15	704	0.5+	0.6+	2000 01 04	704 0.1− 0.4+
1999 11 14	704	0.3−	0.3+	1999 12 15	704	0.8+	0.0	2000 01 04	704 0.0 0.2−
1999 11 16	704	0.4+	0.1+	2000 01 03	704	1.1−	0.4−	2000 01 04	704 0.0 0.6+

2000 AP₁₂ = 1995 XM₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	84.92841		(2000.0)		P		Q		
<i>n</i>	0.24480975	<i>ω</i>	49.60939		+0.99124413		+0.12400549		
<i>a</i>	2.5307558	<i>Ω</i>	303.22123		−0.13149588		+0.89585280		
<i>e</i>	0.1911766	<i>i</i>	3.10835		−0.01199625		+0.42669708		
<i>P</i>	4.03	<i>H</i>	14.5		<i>G</i>	0.15	<i>U</i>	5	
Residuals in seconds of arc									
1995 12 15	411	0.6+	1.2−	1999 11 16	704	0.0	0.3+	2000 01 03	704 0.3− 0.1+
1995 12 15	411	0.1−	0.2+	1999 11 16	704	0.1+	0.3−	2000 01 03	704 0.5− 0.0
1995 12 16	411	0.4−	0.3+	1999 11 16	704	0.2−	0.2−	2000 01 03	704 0.5− 0.7−
1995 12 16	411	0.1−	0.3−	1999 11 16	704	0.2+	0.1+	2000 01 03	704 0.4− 0.5−
1999 11 14	704	0.2+	0.0	1999 12 10	704	0.2+	0.1−	2000 01 04	704 1.9+ 0.2+
1999 11 14	704	0.1+	0.1−	1999 12 10	704	0.1−	0.3+	2000 01 04	704 0.2+ 0.4+
1999 11 14	704	0.5−	0.3−	1999 12 10	704	0.3+	1.7+	2000 01 04	704 0.4− 0.1−
1999 11 14	704	0.0	0.3−	2000 01 03	704	0.6−	0.0	2000 01 04	704 0.3+ 0.2+

2000 AE₁₄ = 1997 CM₁₂ = 1998 MH₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	143.87802		(2000.0)		P		Q		
<i>n</i>	0.26067222	ω	318.44963		+0.57495715		+0.81814513		
<i>a</i>	2.4270174	Ω	346.64069		−0.74132798		+0.51682544		
<i>e</i>	0.1837267	<i>i</i>	1.96581		−0.34620384		+0.25205162		
<i>P</i>	3.78	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3		
Residuals in seconds of arc									
1997 01 14	566	1.3+	0.3+	1998 06 26	704	0.1−	0.2+	1999 11 16	704 0.2− 0.4−
1997 01 14	566	0.2+	0.3−	1998 06 26	704	0.5−	0.3+	1999 11 16	704 0.0 0.3−
1997 01 14	566	0.2−	0.2−	1998 06 26	704	1.0+	0.0	1999 12 10	704 0.8− 0.6+
1997 02 03	691	0.3−	0.2+	1998 06 26	704	0.9+	1.4−	1999 12 10	704 0.7+ 0.0
1997 02 03	691	0.9+	0.1+	1998 07 21	704	0.4+	0.3+	1999 12 10	704 0.2− 0.3+
1997 02 03	691	0.1+	0.3+	1998 07 21	704	0.3+	1.1+	2000 01 03	704 0.6− 0.3+
1997 02 07	691	0.4−	0.3+	1998 07 21	704	0.7−	1.0+	2000 01 03	704 0.2− 0.1+
1997 02 07	691	0.5−	0.3+	1998 07 21	704	0.0	1.7+	2000 01 03	704 0.8+ 0.1−
1997 02 07	691	0.3−	0.6+	1999 11 14	704	0.8−	0.0	2000 01 03	704 0.7− 1.1−
1998 06 24	704	0.3+	0.2−	1999 11 14	704	0.1+	0.2−	2000 01 04	704 0.4+ 0.0
1998 06 24	704	0.4+	0.4−	1999 11 14	704	0.1−	0.5+	2000 01 04	704 0.3+ 0.3+
1998 06 24	704	0.2−	1.2−	1999 11 14	704	1.4+	0.7+	2000 01 04	704 0.4+ 0.4−
1998 06 24	704	0.1+	0.4+	1999 11 16	704	0.2+	0.3−	2000 01 04	704 0.1+ 0.1+
1998 06 24	704	1.2−	0.5−	1999 11 16	704	0.0	0.3+	2000 01 04	704 0.2− 0.4+
1998 06 26	704	0.9−	0.1+	1999 11 16	704	0.3−	0.0		

2000 AS₁₄ = 1993 FW₄₈ = 1997 EL₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	75.58181		(2000.0)		P		Q		
n	0.24397362	ω	2.28837		+0.99514009		−0.09845540		
a	2.5365346	Ω	3.36320		+0.08989068		+0.90146847		
e	0.2027292	i	1.61345		+0.04019775		+0.42149867		
P	4.04 <th>H</th> <td>14.9</td> <th>G</th> <td>0.15</td> <th>U</th> <td>5</td> <td></td> <td></td>	H	14.9	G	0.15	U	5		
Residuals in seconds of arc									
1993 03 19	809	1.2+	0.8−	1999 11 14	704	0.3−	0.4−	2000 01 03	704 0.5+ 1.0+
1993 03 20	809	0.2−	1.2+	1999 11 14	704	0.2−	0.7+	2000 01 03	704 0.1+ 0.5+
1993 03 24	809	0.4−	0.9+	1999 11 16	704	0.2−	0.8−	2000 01 03	704 0.4− 0.2−
1997 03 13	691	0.1+	0.1+	1999 11 16	704	0.2+	0.5−	2000 01 03	704 0.5+ 0.2+
1997 03 13	691	0.5+	0.4−	1999 11 16	704	0.5−	0.2−	2000 01 04	704 0.2− 0.2+
1997 03 13	691	0.2+	0.2−	1999 11 16	704	0.5−	0.1−	2000 01 04	704 0.1+ 1.2+
1997 03 14	691	0.5−	0.3−	1999 12 07	704	0.4+	0.5−	2000 01 04	704 0.3− 0.4−
1997 03 14	691	0.4−	0.5−	1999 12 07	704	0.3−	0.2−	2000 01 04	704 0.6+ 0.4−
1997 03 14	691	0.6−	0.2−	1999 12 07	704	0.6−	0.2−	2000 01 04	704 0.3− 0.1−
1999 11 14	704	1.0+	0.8+	1999 12 07	704	0.6−	0.0		
1999 11 14	704	1.6+	0.3+	2000 01 03	704	0.6−	0.6−		

2000 AW₁₈ = 1998 QY₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	255.92114	(2000.0)		P		Q			
n	0.26792649	ω	307.61284	−0.83871348		+0.52608398			
a	2.3830086	Ω	264.54023	−0.44442706		−0.81054522			
e	0.1529230	i	8.12523	−0.31471301		−0.25739481			
P	3.68	H	14.2	G	0.15	U	4		
Residuals in seconds of arc									
1998 08 19	704	0.4−	1.9−	1999 11 16	704	0.0	0.3+	2000 01 04	704 0.1− 0.0
1998 08 19	704	0.3+	1.1−	1999 11 16	704	0.2+	0.1+	2000 01 04	704 0.1− 0.1+
1998 08 19	704	1.2+	1.3−	1999 11 16	704	0.8+	0.3−	2000 01 04	704 0.4+ 0.8−
1998 08 19	704	1.0−	0.5−	1999 11 16	704	0.4+	0.4+	2000 01 04	704 0.7+ 0.2+
1998 08 27	704	0.5−	0.9+	1999 11 16	704	0.0	0.1−	2000 01 04	704 0.2+ 1.2−
1998 08 27	704	0.7−	1.3+	1999 12 07	704	0.8−	0.5+	2000 01 05	704 0.4+ 0.7+
1998 08 27	704	1.6+	1.0+	1999 12 07	704	0.7−	0.9+	2000 01 05	704 0.3− 1.1+
1998 08 27	704	0.3−	1.4+	1999 12 07	704	0.1−	0.3+	2000 01 05	704 0.7− 0.2+
1999 11 14	704	0.3+	0.4−	1999 12 07	704	0.5−	0.3+	2000 01 05	704 0.6+ 0.1−
1999 11 14	704	0.3−	0.4−	2000 01 03	704	0.2+	0.6+	2000 01 05	704 0.3− 0.2+
1999 11 14	704	0.2−	0.3−	2000 01 03	704	0.4+	1.1−		
1999 11 14	704	0.3+	0.6−	2000 01 03	704	0.7−	0.9−		

2000 AA₁₉ = 1998 QL₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	195.29097		(2000.0)		P		Q		
n	0.23499488	ω	356.66093		−0.18764093		+0.95043638		
a	2.6007411	Ω	262.41688		−0.89529188		−0.26931521		
e	0.0964623	i	14.48353		−0.40403383		+0.15537053		
P	4.19 <th>H</th> <td>14.2</td> <th>G</th> <td>0.15</td> <th></th> <th>U</th> <td>4</td> <th></th>	H	14.2	G	0.15		U	4	
Residuals in seconds of arc									
1998 08 24	704	0.7−	0.0	1999 11 14	704	0.1−	0.1−	1999 12 07	704 0.0 0.7−
1998 08 24	704	1.3−	1.2+	1999 11 16	704	1.0−	1.4−	1999 12 07	704 0.3− 0.2−
1998 08 24	704	0.3−	0.2−	1999 11 16	704	1.2+	0.1+	1999 12 07	704 0.2+ 1.5+
1998 08 24	704	0.8+	0.5−	1999 11 16	704	0.3+	0.3+	2000 01 03	704 0.2− 0.1+
1998 08 27	704	0.4+	0.2+	1999 11 16	704	0.0	0.6+	2000 01 03	704 0.3− 0.8−
1998 08 27	704	0.1+	0.0	1999 12 05	703	0.5−	0.1−	2000 01 03	704 0.1+ 1.9−
1998 08 27	704	0.9+	0.6−	1999 12 05	703	0.7−	0.1+	2000 01 03	704 1.0+ 0.5−
1999 11 14	704	0.3+	0.1−	1999 12 05	703	0.1+	0.3−	2000 01 04	704 0.5+ 0.3+
1999 11 14	704	0.2+	0.7+	1999 12 05	703	1.1−	0.6+	2000 01 04	704 0.6− 1.9+
1999 11 14	704	0.8+	0.1+	1999 12 07	704	0.0	1.1−	2000 01 04	704 0.3+ 0.9+

2000 MAR. 20

M.P.C. 39339

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	269.24142		(2000.0)	P	Q
<i>n</i>	0.23678394	ω	293.89689	-0.78135833	+0.61476679
<i>a</i>	2.5876243	Ω	284.21402	-0.52468467	-0.74031051
<i>e</i>	0.1498238	<i>i</i>	6.36268	-0.33791294	-0.27203333
<i>P</i>	4.16	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1993 07 12	809	(5.2- 0.7-)	1995 11 15	327	0.0	0.5-	2000 01 04	704	0.3+	0.2-	
1993 07 12	809	(5.1- 0.5-)	1995 11 15	327	0.3-	0.1-	2000 01 04	704	0.1+	0.7-	
1993 07 12	809	(5.5- 0.7-)	1998 10 12	699	0.4-	0.4-	2000 01 04	704	0.2-	0.5-	
1993 07 19	809	0.0	1.0-	1998 10 12	699	0.7-	0.0	2000 01 04	704	0.3+	0.4-
1993 07 19	809	0.5+	0.3-	1998 10 12	699	0.9+	0.5+	2000 01 30	704	0.6-	0.7+
1993 07 19	809	0.4+	0.8-	1999 12 07	704	1.0+	0.1+	2000 01 30	704	0.3-	0.3-
1993 07 19	809	(3.9- 0.4-)	1999 12 07	704	0.5+	0.9-	2000 01 30	704	0.2-	1.2-	
1993 07 19	809	(4.2- 0.8-)	1999 12 07	704	0.6+	0.7-	2000 01 31	704	0.3+	0.0	
1993 07 19	809	(4.3- 1.3-)	1999 12 07	704	0.4+	0.6+	2000 01 31	704	0.1-	0.3+	
1993 07 23	809	0.0	0.7+	1999 12 07	704	0.6-	0.5+	2000 01 31	704	0.2-	0.5+
1993 07 23	809	0.3-	0.5+	2000 01 03	704	0.0	0.7-	2000 01 31	704	0.8-	1.2+
1993 07 23	809	0.5-	0.4+	2000 01 03	704	0.2+	0.1+	2000 03 04	704	0.7-	0.9+
1993 07 23	809	(6.2+ 1.7+)	2000 01 03	704	0.1-	0.3+	2000 03 04	704	0.3-	0.2-	
1993 07 23	809	(8.0+ 0.9+)	2000 01 03	704	0.1+	0.8+	2000 03 04	704	0.1+	0.0	
1993 07 23	809	(9.5+ 0.9+)	2000 01 03	704	0.5+	0.2+	2000 03 04	704	0.5-	0.1-	
1995 11 15	327	0.2-	0.9-	2000 01 04	704	0.0	0.3+				

2000 AZ₂₂ = 1984 EG₁ = 1995 DY₁₂ = 1998 TP₃₅

Id. G. V. Williams (MPC 38627), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	329.56360		(2000.0)	P	Q
<i>n</i>	0.17892057	ω	129.56892	-0.85974194	-0.51068640
<i>a</i>	3.1190993	Ω	19.72424	+0.46241007	-0.78380383
<i>e</i>	0.1116129	<i>i</i>	1.11595	+0.21684264	-0.35334254
<i>P</i>	5.51	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1984 03 02	801	0.4+	0.9+	1999 12 07	704	1.1+	0.1+	2000 01 04	704	0.0	0.0
1995 02 22	033	0.4+	0.3-	1999 12 07	704	0.4+	0.2+	2000 01 04	704	0.4-	0.1-
1995 02 23	033	0.2+	0.7-	1999 12 07	704	1.0+	0.1-	2000 01 04	704	0.2-	0.1-
1995 02 24	033	0.4+	1.4+	1999 12 07	704	0.5+	0.2+	2000 01 30	704	0.0	0.9+
1998 10 14	327	0.5+	1.1+	2000 01 03	704	0.6+	0.2+	2000 01 30	704	0.1+	0.1-
1998 10 14	327	0.1+	0.6+	2000 01 03	704	0.9-	0.1-	2000 01 30	704	0.2-	1.6-
1998 10 14	327	0.9+	0.2+	2000 01 03	704	0.1+	0.1+	2000 01 31	704	0.3-	0.7+
1998 10 20	691	0.7-	0.4-	2000 01 03	704	0.0	0.7-	2000 01 31	704	0.4-	0.3-
1998 10 20	691	0.6-	0.3-	2000 01 04	704	0.9-	0.4-	2000 01 31	704	0.3-	0.2+
1998 10 20	691	0.7-	0.0	2000 01 04	704	0.0	0.3-	2000 01 31	704	0.2-	0.3+

2000 AW₂₅ = 1997 JA₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	33.63492		(2000.0)	P	Q
<i>n</i>	0.25867867	ω	0.90333	+0.23441866	-0.97027192
<i>a</i>	2.4394709	Ω	75.54106	+0.89152698	+0.18989166
<i>e</i>	0.1707019	<i>i</i>	3.56248	+0.38759197	+0.15004519
<i>P</i>	3.81	<i>H</i>	15.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 05 01	910	0.2-	0.2-	1999 12 07	704	0.6-	0.2-	2000 01 04	704	0.0	0.0
1997 05 01	910	0.4-	0.1+	1999 12 07	704	0.3+	1.0+	2000 01 04	704	0.1-	0.7-
1997 05 01	910	0.4-	0.0	2000 01 03	704	0.1+	0.6-	2000 01 04	704	0.3-	0.1-
1997 05 02	910	0.3+	0.0	2000 01 03	704	0.2+	0.1+	2000 01 08	704	0.0	0.7+
1997 05 02	910	0.3+	0.2+	2000 01 03	704	0.6+	0.0	2000 01 08	704	0.1+	0.3+
1997 05 03	910	0.5+	0.1-	2000 01 03	704	0.0	1.6-	2000 01 08	704	0.4+	0.2+
1999 12 07	704	0.0	0.4-	2000 01 03	704	0.4+	0.5-	2000 01 08	704	1.0-	1.0+
1999 12 07	704	0.7+	0.3-	2000 01 04	704	0.9-	0.1+	2000 01 08	704	0.4+	0.6+
1999 12 07	704	0.3-	0.2+	2000 01 04	704	0.0	0.2+				

2000 AA₂₆ = 1998 RR₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	52.74125		(2000.0)	P	Q
<i>n</i>	0.17518480	ω	356.13168	+0.75089253	-0.66037427
<i>a</i>	3.1632858	Ω	45.20030	+0.60623494	+0.68433884
<i>e</i>	0.2066773	<i>i</i>	0.65719	+0.26199162	+0.30917015
<i>P</i>	5.63	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 17	704	(3.0+ 2.1+)	1998 09 18	691	0.0	0.0	2000 01 03	704	0.6+	0.4-
1998 08 17	704	0.3+ 1.2-	1998 09 18	691	0.0	0.1+	2000 01 04	704	0.8+	0.2-
1998 08 17	704	(2.9+ 0.6-)	1999 12 08	704	0.3-	0.1+	2000 01 04	704	0.5+	0.5+
1998 08 17	704	(3.5- 0.8-)	1999 12 08	704	0.2+	0.3-	2000 01 04	704	0.3-	0.2+
1998 09 12	691	0.3- 0.2+	1999 12 08	704	0.2-	0.7+	2000 01 04	704	0.8+	0.6+
1998 09 12	691	0.0 0.3+	2000 01 03	704	0.5-	0.1+	2000 01 15	691	0.4-	0.1-
1998 09 12	691	0.1- 0.4+	2000 01 03	704	0.2-	0.1-	2000 01 15	691	0.3-	0.1-
1998 09 18	691	0.0 0.1+	2000 01 03	704	0.3-	1.1-	2000 01 15	691	0.4-	0.0

2000 AC₂₈ = 1998 SM₁₂₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	125.32005		(2000.0)	P	Q
<i>n</i>	0.20233995	ω	246.06920	+0.95978134	+0.27532260
<i>a</i>	2.8735249	Ω	97.91270	-0.23318508	+0.89072978
<i>e</i>	0.0831273	<i>i</i>	3.17912	-0.15634739	+0.36165997
<i>P</i>	4.87	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 26	704	1.5+	1.0+	1999 12 08	704	1.0+	1.2+	2000 01 04	704	0.4+	0.9-
1998 09 26	704	0.1-	1.2-	1999 12 08	704	1.0-	0.2+	2000 01 09	691	0.2-	0.3+
1998 09 26	704	0.2+	0.2-	1999 12 08	704	0.1-	1.4-	2000 01 09	691	0.3-	0.2+
1998 09 26	704	1.2+	0.5+	2000 01 03	704	0.0	0.8+	2000 01 09	691	0.4-	0.0
1998 09 27	704	0.7+	0.2+	2000 01 03	704	0.7-	0.6+	2000 01 15	691	0.1+	0.2-
1998 09 27	704	0.3-	0.3+	2000 01 03	704	0.9+	0.5+	2000 01 15	691	0.0	0.1-
1998 09 27	704	1.2-	0.0	2000 01 04	704	0.1+	1.2-	2000 01 15	691	0.2+	0.3-
1998 09 27	704	2.0-	0.6-	2000 01 04	704	0.1+	0.3+				

2000 AA₃₅ = 1998 SR₆₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	95.08823		(2000.0)	P	Q
<i>n</i>	0.21728340	ω	57.61338	+0.90984664	-0.39807789
<i>a</i>	2.7402173	Ω	325.43660	+0.27614955	+0.79153942
<i>e</i>	0.1148757	<i>i</i>	11.91234	+0.30971039	+0.46368020
<i>P</i>	4.54	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 08 27	704	0.3+	0.7-	1998 09 19	704	0.8-	1.7-	2000 01 03	704	1.2+	0.0
1998 08 27	704	0.3+	0.0	1998 09 19	704	0.0	0.5-	2000 01 04	704	0.7+	0.4-
1998 08 27	699	0.2+	0.0	1998 09 19	704	0.5+	0.7+	2000 01 04	704	0.1+	0.3+
1998 08 27	704	0.6+	0.0	1998 09 23	704	0.3+	0.2+	2000 01 04	704	0.2-	0.5+
1998 08 27	704	0.5+	0.0	1998 09 23	704	0.0	0.2+	2000 01 04	704	0.5-	1.0-
1998 08 27	704	0.6-	0.2+	1998 09 23	704	0.0	0.5+	2000 01 04	704	0.1+	0.1+
1998 08 27	704	0.3-	0.6+	1998 12 09	704	(0.3- 3.0-)		2000 01 30	704	0.4+	0.2-
1998 08 27	699	0.0	0.7+	1998 12 09	704	0.2-	0.8+	2000 01 30	704	0.3-	0.8+
1998 08 27	704	1.2+	0.7-	1998 12 09	704	0.5+	0.7-	2000 01 30	704	0.4+	0.9+
1998 08 27	704	0.2-	1.5+	1998 12 09	704	0.2-	0.7-	2000 03 03	688	0.1-	0.5+
1998 08 27	699	0.7-	0.1-	2000 01 03	704	0.5-	0.2-	2000 03 03	688	0.1+	0.6+
1998 08 27	704	1.5-	1.4-	2000 01 03	704	0.4-	0.8-				
1998 08 27	704	0.3-	1.6+	2000 01 03	704	0.7-	0.4-				

2000 AF₃₅ = 1994 CU₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	334.76691		(2000.0)	P		Q		Doppler	
<i>n</i>	0.31214508	ω	54.21968	-0.83319472	-0.54674482				
<i>a</i>	2.1522781	Ω	92.49870	+0.47683740	-0.78619579				
<i>e</i>	0.0623066	<i>i</i>	4.75435	+0.28002260	-0.28803867				
<i>P</i>	3.16	<i>H</i>	16.7	<i>G</i>	0.15	<i>U</i>	6		

Residuals in seconds of arc

1994 02 08	809	1.5-	1.9+	2000 01 03	704	0.3+	0.1+	2000 01 04	704	0.4-	0.5-
1994 02 08	809	0.7+	0.1+	2000 01 03	704	0.1+	0.4+	2000 01 04	704	0.0	0.1-
1994 02 08	809	0.8+	0.3-	2000 01 03	704	0.0	0.0	2000 01 08	704	0.3-	0.3+
1994 02 10	809	1.7+	1.0-	2000 01 03	704	0.5-	0.0	2000 01 08	704	0.2-	0.1-
1994 02 10	809	1.3-	0.9-	2000 01 04	704	0.1+	0.1-	2000 01 08	704	0.3+	0.4-
1994 02 10	809	0.4-	0.2+	2000 01 04	704	0.4+	0.0	2000 01 08	704	0.2+	0.5+

2000 AF₃₇ = 1992 FH₂ = 1993 NS

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	183.73130		(2000.0)	P		Q		Doppler	
<i>n</i>	0.22593972	ω	349.49397	+0.41152106	+0.91107790				
<i>a</i>	2.6697730	Ω	304.80235	-0.83403787	+0.36573431				
<i>e</i>	0.0667248	<i>i</i>	1.69149	-0.36746599	+0.19019849				
<i>P</i>	4.36	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1992 03 26	691	0.1+	0.5+	1993 07 12	809	0.1-	0.4+	2000 01 04	704	0.8-	0.8+
1992 03 26	691	0.0	0.3+	1993 07 19	809	0.2+	0.6-	2000 01 04	704	0.1-	0.2+
1992 03 26	691	0.1+	0.8+	1993 07 19	809	0.3+	0.0	2000 01 04	704	0.4-	0.6+
1992 04 07	691	1.2+	1.9-	1993 07 19	809	0.0	0.1-	2000 01 15	691	0.4+	0.3-
1992 04 07	691	0.5-	0.3-	2000 01 03	704	1.0+	0.5+	2000 01 15	691	0.5+	0.1-
1992 04 07	691	0.9-	0.5+	2000 01 03	704	0.1-	0.6-	2000 01 15	691	0.4+	0.2-
1993 07 12	809	1.0-	0.8+	2000 01 03	704	0.9-	0.4-				
1993 07 12	809	0.4+	0.0	2000 01 03	704	0.2+	0.2+				

2000 AL₄₂ = 1980 PV₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	163.74342		(2000.0)	P		Q		Williams	
<i>n</i>	0.38004802	ω	244.26253	+0.87635779	+0.09142252				
<i>a</i>	1.8876019	Ω	107.34976	+0.01131757	+0.97764191				
<i>e</i>	0.0972688	<i>i</i>	29.69920	-0.48152771	+0.18936266				
<i>P</i>	2.59	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

1980 08 04	413	(5.1+	7.1+)	2000 01 06	704	0.2+	0.3+	2000 03 04	704	0.2-	0.0
1980 08 05	413	(3.1-	8.2-)	2000 01 06	704	0.1+	0.1-	2000 03 04	704	0.2-	0.2+
1980 08 06	413	0.1+	0.9+	2000 02 15	704	1.8+	1.1+	2000 03 04	704	0.2-	0.3-
1998 05 29	704	0.6-	0.3-	2000 02 15	704	0.1+	0.3-	2000 03 04	704	0.2-	0.1+
1998 05 29	704	0.2-	1.3+	2000 02 15	704	0.7+	0.2+	2000 03 04	704	0.2+	0.0
1998 05 29	704	0.5+	0.1+	2000 02 15	704	0.4+	0.3+	2000 03 05	704	0.5-	0.2+
1998 05 29	704	0.1+	0.4-	2000 02 15	704	0.4+	1.2+	2000 03 05	704	0.2-	0.4+
1998 05 29	704	0.2-	0.8-	2000 02 26	704	0.2-	0.1-	2000 03 05	704	0.0	0.1+
1998 06 25	704	0.6+	0.0	2000 02 26	704	0.8-	0.0	2000 03 05	704	0.1+	0.3+
1998 06 25	704	1.7-	0.3-	2000 02 26	704	0.4-	0.1-	2000 03 05	704	0.1-	0.2-
1998 06 25	704	0.5+	0.2-	2000 02 26	704	0.0	0.2+	2000 03 08	704	0.0	0.4-
1998 06 25	704	0.8+	0.3+	2000 02 28	704	0.4-	0.3-	2000 03 08	704	0.1+	0.3-
1998 06 25	704	0.2+	0.5+	2000 02 28	704	0.1-	0.2-	2000 03 08	704	0.2+	0.2-
2000 01 03	704	0.8+	0.4-	2000 02 28	704	0.1-	0.1-	2000 03 08	704	0.2+	0.2-
2000 01 03	704	0.5-	0.3+	2000 02 29	704	0.0	0.0	2000 03 09	704	0.0	0.2-
2000 01 03	704	0.1+	0.7+	2000 02 29	704	0.2+	0.1-	2000 03 09	704	0.2-	0.3-
2000 01 03	704	0.8+	0.6+	2000 02 29	704	0.0	0.1-	2000 03 09	704	0.1-	0.6-
2000 01 03	704	0.4-	0.1-	2000 02 29	704	0.4-	0.4-	2000 03 09	704	0.1-	0.2-
2000 01 06	704	0.1+	0.1+	2000 02 29	704	0.5-	0.2-	2000 03 09	704	0.1-	0.1+

2000 AE₄₄ = 1998 QK₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	149.11091		(2000.0)	P		Q		Doppler	
<i>n</i>	0.27089249	ω	276.73854	+0.81149104	+0.58417046				
<i>a</i>	2.3655823	Ω	47.51833	-0.52774763	+0.74369974				
<i>e</i>	0.2380131	<i>i</i>	1.17103	-0.25092774	+0.32504702				
<i>P</i>	3.64	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1998 08 17	704	0.1+	0.6-	1998 08 23	704	0.6-	1.2-	2000 01 06	691	0.3-	0.2+
1998 08 17	704	0.5-	0.4+	1998 08 23	704	0.4-	0.5+	2000 01 06	691	0.3-	0.2-
1998 08 17	704	0.1-	0.8+	1998 08 23	704	0.6-	0.4-	2000 01 11	691	0.2-	0.0
1998 08 17	704	0.5-	0.9+	2000 01 02	691	0.3+	0.4+	2000 01 11	691	0.1-	0.4-
1998 08 17	704	0.2-	0.7+	2000 01 02	691	0.4+	0.2+	2000 01 11	691	0.1+	0.1-
1998 08 23	704	1.9+	0.2-	2000 01 02	691	0.4+	0.1+				
1998 08 23	704	0.7+	0.7-	2000 01 06	691	0.3-	0.0				

2000 AL₄₄ = 1998 SY₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	320.76119		(2000.0)	P		Q		Doppler	
<i>n</i>	0.22245354	ω	98.06850	-0.97317380	-0.22760665				
<i>a</i>	2.6975935	Ω	68.78029	+0.19434434	-0.89137753				
<i>e</i>	0.0369152	<i>i</i>	2.06470	+0.12313829	-0.39197105				
<i>P</i>	4.43	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	6		

Residuals in seconds of arc

1998 09 18	691	0.2-	0.5+	1998 09 25	691	0.1+	0.6-	2000 01 06	691	0.3-	0.3+
1998 09 18	691	0.1+	0.1-	2000 01 05	691	0.1+	0.0	2000 01 06	691	0.0	0.0
1998 09 18	691	0.1-	0.1-	2000 01 05	691	0.1+	0.1+	2000 01 08	691	0.7-	0.8-
1998 09 25	691	0.0	0.1+	2000 01 05	691	0.1+	0.1+	2000 01 08	691	0.5+	0.0
1998 09 25	691	0.0	0.1+	2000 01 06	691	0.0	0.0	2000 01 08	691	0.3+	0.3+

2000 AB₄₈ = 1997 GA₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	356.51297		(2000.0)	P		Q		Doppler	
<i>n</i>	0.27336219	ω	19.71571	-0.52630680	-0.83124188				
<i>a</i>	2.3513128	Ω	102.41737	+0.75347042	-0.55348188				
<i>e</i>	0.1529512	<i>i</i>	10.56083	+0.39406025	-0.05191093				
<i>P</i>	3.61	<i>H</i>	17.1	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1997 04 07	691	0.5-	0.0	2000 01 05	704	0.5+	0.1-	2000 01 07	704	0.2-	0.7-
1997 04 07	691	0.4-	0.0	2000 01 05	704	0.2-	1.1-	2000 01 07	704	0.1+	0.5-
1997 04 07	691	0.4-	0.1+	2000 01 05	704	0.1-	0.3+	2000 01 07	704	0.3+	0.1-
1997 04 14	691	0.3+	0.1+	2000 01 05	704	0.5-	0.1-	2000 01 10	704	0.5-	0.2-
1997 04 14	691	0.6+	0.1-	2000 01 05	704	0.1-	0.1+	2000 01 10	704	0.0	0.6+
1997 04 14	691	0.3+	0.0	2000 01 05	704	0.0	0.2+	2000 01 10	704	0.0	0.1-
2000 01 05	704	0.8+	0.7+	2000 01 05	704	0.2+	0.0	2000 01 10	704	0.2-	1.0+

2000 AM₅₁ = 1976 KZ₂ = 1998 QC₇₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	302.66029		(2000.0)	P		Q		Williams	
<i>n</i>	0.18420935	ω	222.29713	-0.46516753	-0.87266969				
<i>a</i>	3.0591088	Ω	255.92350	+0.84764918	-0.39073565				
<i>e</i>	0.0486067	<i>i</i>	8.80938	+0.25516670	-0.29287072				
<i>P</i>	5.35	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1976 05 30	413	0.4+	1.1-	1999 10 03	704	0.0	0.4-	1999 12 04	703	0.4-	0.3+
1976 05 30	413	0.2-	0.0	1999 10 28	703	0.8+	0.1-	1999 12 04	703	0.2-	0.4+
1998 07 24	566	0.1+	0.9-	1999 10 28	703	0.4-	0.1+	1999 12 04	703	0.3+	0.6+
1998 07 24	566	1.8+	1.1-	1999 10 28	703	0.3-	0.3-	1999 12 04	703	1.3-	0.5+
1998 07 24	566	0.7+	1.1-	1999 10 28	703	0.6-	0.1+	1999 12 06	704	0.7+	0.3+

2000 MAR. 20

M.P.C. 39341

1998 08 24	704	0.8+	0.4+	1999 11 03	704	0.1-	0.4-	1999 12 06	704	0.5-	0.4+
1998 08 24	704	0.5-	0.9-	1999 11 03	704	0.1-	0.2-	1999 12 06	704	0.2-	1.4-
1998 08 24	704	0.8-	0.7+	1999 11 03	704	0.2-	0.7-	1999 12 30	699	0.7+	0.0
1998 08 24	704	1.0+	0.4-	1999 11 03	704	0.5-	0.8-	1999 12 30	699	0.5+	0.2-
1998 08 27	704	1.6-	1.1-	1999 11 03	704	0.0	0.8-	1999 12 30	699	0.4-	0.3+
1998 08 27	704	1.1-	1.9+	1999 11 11	703	(1.5-	4.9+)	2000 01 04	704	0.1-	0.8-
1998 08 27	704	0.4-	1.0+	1999 11 11	703	0.4-	0.3+	2000 01 04	704	0.4-	0.4-
1998 08 27	704	0.6+	0.2-	1999 11 11	703	0.2+	0.2-	2000 01 04	704	0.6+	0.1+
1998 08 27	704	0.6-	1.2-	1999 11 11	703	0.7+	0.2+	2000 01 04	704	0.0	1.0-
1998 09 22	699	1.2-	1.0+	1999 11 12	699	0.3+	0.6+	2000 01 04	704	0.6+	0.6-
1998 09 22	699	0.7+	1.8+	1999 11 12	699	0.4-	0.0	2000 01 06	704	0.3-	0.2-
1998 09 22	699	0.2+	1.3+	1999 11 12	699	0.2-	0.7+	2000 01 06	704	0.4+	0.6-
1999 10 03	704	1.3+	1.0+	1999 12 03	699	0.3+	0.8+	2000 01 06	704	0.3+	0.0
1999 10 03	704	0.7+	0.3-	1999 12 03	699	0.1-	0.5+	2000 01 06	704	0.0	0.8-
1999 10 03	704	0.5+	0.4-	1999 12 03	699	1.1-	0.8+	2000 01 06	704	0.1-	0.3+

2000 AS₅₃ = 1996 JK₆ = 1998 WO₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		174.14681		(2000.0)		P		Q	
<i>n</i>		0.17977481		ω		188.55743		+0.60914691	+0.79213962
<i>a</i>		3.1092108		Ω		118.97936		-0.72501082	+0.57572765
<i>e</i>		0.1084546		<i>i</i>		2.49900		-0.32140217	+0.20261415
<i>P</i>		5.48		<i>H</i>		13.6		<i>G</i>	0.15
								<i>U</i>	3

Residuals in seconds of arc

1996 05 11	691	0.6+	0.3+	1998 11 19	552	0.5-	1.4-	2000 01 06	704	1.0-	0.5-
1996 05 11	691	0.6+	0.3+	1998 11 19	552	0.5+	0.5-	2000 01 07	691	0.1-	0.1-
1996 05 11	691	0.5+	0.1+	1998 11 28	552	0.8-	0.4+	2000 01 07	691	0.2-	0.3-
1996 05 17	691	0.5-	0.4-	1998 11 28	552	0.9-	0.4+	2000 01 07	691	0.3-	0.3-
1996 05 17	691	0.6-	0.2+	2000 01 04	704	1.8+	1.5+	2000 01 28	691	0.0	0.2-
1996 05 17	691	0.7-	0.7-	2000 01 04	704	0.6-	0.3+	2000 01 28	691	0.0	0.3-
1998 11 11	704	0.1-	0.7+	2000 01 04	704	0.1-	0.3+	2000 01 28	691	0.1+	1.4-
1998 11 11	704	1.2+	0.3+	2000 01 04	704	0.3-	1.0-	2000 02 03	704	0.3+	0.6+
1998 11 11	704	0.9+	0.3+	2000 01 04	704	0.1+	0.0	2000 02 03	704	0.3+	0.4+
1998 11 17	552	0.1+	0.1+	2000 01 06	704	0.8-	0.6+	2000 02 03	704	0.2+	0.3+
1998 11 17	552	0.3-	0.4-	2000 01 06	704	1.0+	0.5-	2000 02 03	704	0.3-	1.2+

2000 AO₅₅ = 1983 CK = 1998 MK₂₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		97.77337		(2000.0)		P		Q	
<i>n</i>		0.28742532		ω		259.98917		+0.95752175	-0.27488937
<i>a</i>		2.2739768		Ω		115.92246		+0.28761434	+0.88869877
<i>e</i>		0.1560135		<i>i</i>		5.55801		+0.02073877	+0.36694732
<i>P</i>		3.43		<i>H</i>		13.8		<i>G</i>	0.15
								<i>U</i>	2

Residuals in seconds of arc

1983 02 11	688	1.4-	1.8-	1999 12 15	703	0.1-	0.2+	2000 01 28	691	0.1+	0.0
1983 02 11	688	1.3+	0.9-	1999 12 15	703	0.1-	0.3+	2000 01 29	703	0.2-	0.7+
1983 02 15	688	0.0	0.0	1999 12 15	703	0.2-	0.4+	2000 01 29	703	0.6-	0.1+
1983 02 15	688	0.7-	0.5-	1999 12 18	699	0.4+	0.2-	2000 01 29	703	0.3-	0.3+
1998 06 24	704	0.2+	0.6-	1999 12 18	699	0.5-	0.4+	2000 01 30	704	0.2-	0.0
1998 06 24	704	0.0	1.3+	1999 12 18	699	0.1-	0.2-	2000 01 30	704	0.1+	0.4+
1998 06 24	704	0.8+	0.8+	1999 12 30	699	0.2-	0.1+	2000 01 30	704	0.1-	0.5+
1998 06 24	704	0.3+	0.1-	1999 12 30	699	0.1+	0.0	2000 01 30	704	0.1+	0.4+
1998 06 26	704	0.1-	0.1+	1999 12 30	699	0.3+	0.2+	2000 02 07	703	0.1-	0.1+
1998 06 26	704	0.0	0.5+	2000 01 04	704	0.0	0.5-	2000 02 07	703	0.1-	0.0
1998 06 26	704	0.3-	0.1-	2000 01 04	704	0.4+	0.6+	2000 02 07	703	0.3-	0.1-
1998 06 26	704	0.0	0.6-	2000 01 04	704	0.2+	0.1+	2000 02 07	703	0.1+	0.2+
1998 07 21	704	0.0	1.6+	2000 01 04	704	0.0	0.1+	2000 02 11	704	0.1+	0.1+
1998 07 21	704	0.7+	0.7+	2000 01 04	704	0.0	0.3+	2000 02 11	704	0.2+	0.2+
1998 07 21	704	1.0-	0.5+	2000 01 06	704	0.9+	0.6-	2000 02 11	704	0.5+	0.0
1998 07 21	704	1.3+	0.8-	2000 01 06	704	0.2-	0.3-	2000 02 11	704	0.4+	0.3+
1998 07 21	704	1.9-	1.9-	2000 01 06	704	0.6+	0.1-	2000 02 11	704	0.2-	0.5-
1999 12 05	699	0.6-	1.6-	2000 01 06	704	0.2-	0.4+	2000 02 26	703	0.2-	0.9+

1999 12 05	699	0.3+	0.5-	2000 01 06	704	0.6+	0.4+	2000 02 26	703	0.4-	0.6+
1999 12 05	699	0.3+	0.1+	2000 01 28	691	0.1+	0.0	2000 02 26	703	0.2-	0.7+
1999 12 15	703	0.3-	0.2+	2000 01 28	691	0.1+	0.0	2000 02 26	703	0.0	0.0

2000 AP₆₁ = 1997 EG₅₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		73.91979		(2000.0)		P		Q	
<i>n</i>		0.28755054		ω		10.79692		+0.64501475	-0.76355032
<i>a</i>		2.2733166		Ω		39.04686		+0.69742227	+0.57173842
<i>e</i>		0.1264591		<i>i</i>		2.79984		+0.31234299	+0.30017677
<i>P</i>		3.43		<i>H</i>		14.7		<i>G</i>	0.15
								<i>U</i>	6

Residuals in seconds of arc

1997 03 08	809	0.1-	0.7-	2000 01 04	704	0.1-	0.8-	2000 01 30	704	0.9+	0.1-
1997 03 08	809	1.3-	1.0+	2000 01 05	699	0.7+	0.3-	2000 01 30	704	0.1-	0.1+
1997 03 08	809	1.0-	0.4+	2000 01 05	699	0.1-	0.3-	2000 01 30	704	0.4+	0.4+
1997 03 09	809	0.9+	0.7-	2000 01 05	699	0.2-	0.2+	2000 01 30	704	0.5+	0.7-
1997 03 09	809	0.5+	0.5-	2000 01 06	704	0.3+	0.4-	2000 02 11	704	0.1+	1.1+
1997 03 09	809	0.5+	0.6-	2000 01 06	704	0.1-	0.4-	2000 02 11	704	0.1-	0.9+
2000 01 04	704	0.2-	0.7-	2000 01 06	704	0.1-	0.4-	2000 02 11	704	0.1+	0.6+
2000 01 04	704	0.6-	0.1-	2000 01 06	704	0.1-	0.2-	2000 02 11	704	0.5-	1.6+
2000 01 04	704	0.2-	0.4-	2000 01 06	704	0.2-	0.1-	2000 02 11	704	0.3-	1.3+
2000 01 04	704	0.1+	0.6-	2000 01 30	704	0.1-	0.2-				

2000 AS₆₂ = 1993 TO₂₂ = 1996 FS₂₀Id. S. Nakano, M. E. Sansaturio; 1993 TO₂₂ = 1996 HN₅ (*MPC* 34191) is invalid

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		36.20087		(2000.0)		P		Q	
<i>n</i>		0.20495393		ω		22.87227		-0.20307021	-0.97763292
<i>a</i>		2.8490400		Ω		78.87904		+0.88952025	-0.20755799
<i>e</i>		0.0068799		<i>i</i>		3.19800		+0.40928744	-0.03396412
<i>P</i>		4.81		<i>H</i>		14.4		<i>G</i>	0.15
								<i>U</i>	1

Residuals in seconds of arc

1993 10 09	809	0.6+	0.0	1998 11 11	704	0.4+	1.0-	2000 01 06	704	0.7+	0.6-
1993 10 09	809	0.2-	0.8+	1998 11 11	704	1.6+	1.5+	2000 01 30	704	0.7+	0.1-
1993 10 09	809	0.0	0.0	1998 11 11	704	(0.5-	3.1-)	2000 01 30	704	0.0	0.5-
1993 10 11	809	0.5-	1.7+	1998 11 16	566	0.9-	0.4-	2000 01 30	704	0.8+	0.7+
1993 10 11	809	1.5-	1.3+	1998 11 16	566	0.8-	0.2-	2000 02 03	704	0.3+	0.2+
1993 10 11	809	(2.6-	1.3+)	1998 11 16	566	1.1-	0.7-	2000 02 03	704	0.3+	0.3+
1996 03 24	809	0.2+	1.3-	2000 01 04	704	0.2-	0.3+	2000 02 03	704	1.6+	1.0-
1996 03 24	809	0.1-	0.6-	2000 01 04	704	0.7-	0.0	2000 02 03	704	0.9+	0.3+
1996 03 24	809	0.9-	0.0	2000 01 04	704	0.4-	0.6-	2000 02 11	704	0.4-	0.7+
1996 03 26	809	(4.9+	2.5+)	2000 01 04	704	0.5-	1.5-	2000 02 11	704	0.3+	0.1+
1996 03 26	809	(5.1+	2.7+)	2000 01 04	704	0.9-	0.9-	2000 02 11	704	0.5-	0.3-
1996 03 26	809	(6.0+	2.9+)	2000 01 05	699	0.2+	0.2-	2000 02 11	704	0.7-	0.9+
1998 10 20	699	1.3+	0.8-	2000 01 05	699	0.3-	0.1+	2000 02 11	704	0.9-	0.9+
1998 10 20	699	0.5+	1.0-	2000 01 05	699	0.3-	0.5+	2000 02 26	703	0.6+	0.0
1998 10 20	699	0.2-	0.3-	2000 01 06	704	0.3-	0.6+	2000 02 26	703	0.6-	0.6+
1998 11 11	704	0.6+	1.8-	2000 01 06	704	0.8+	0.1+	2000 02 26	703	0.2-	1.1+
1998 11 11	704	0.5+	0.3-	2000 01 06	704	0.3+	0.2+	2000 02 26	703	0.4-	0.3-

1993 10 11	809	(0.7− 2.9+)	2000 01 06	704	0.4− 1.0+	2000 03 06	704	0.2+ 0.4−
1993 10 11	809	(1.3− 2.7+)	2000 01 06	704	0.0 0.4−	2000 03 06	704	0.2− 0.2+
1993 10 11	809	(1.7− 3.4+)	2000 01 06	704	0.5− 0.3+	2000 03 06	704	0.6− 0.2−
1993 10 21	809	0.8+ 0.8+	2000 01 30	704	0.2+ 0.0	2000 03 09	704	0.4+ 0.3+
1993 10 21	809	0.5+ 0.0	2000 01 30	704	0.4− 0.0	2000 03 09	704	0.1− 0.7+
1993 10 21	809	0.6− 0.2+	2000 01 30	704	0.2+ 0.3+	2000 03 09	704	0.3− 0.0
1998 11 11	704	0.2+ 0.9−	2000 01 30	704	0.5− 0.6−	2000 03 09	704	0.2− 0.1−
1998 11 11	704	0.1+ 1.3+	2000 01 30	704	0.4+ 0.1+	2000 03 09	704	0.5− 0.9+
1998 11 11	704	0.3− 0.6−	2000 02 28	704	0.0 0.6+	2000 03 09	608	0.1− 1.0−
2000 01 04	704	0.4+ 0.6−	2000 02 28	704	0.3+ 0.6+	2000 03 09	608	0.0 0.7−
2000 01 04	704	0.6+ 0.4−	2000 02 28	704	0.2+ 0.1−	2000 03 09	608	0.1+ 0.5−
2000 01 04	704	0.0 0.7−	2000 02 28	704	0.6+ 0.3−			

2000 AT₆₇ = 1998 VN₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.21413380	<i>ω</i>	263.70546	+0.99336091	−0.02262551				
<i>a</i>	2.7670217	<i>Ω</i>	97.55055	+0.06431867	+0.92213794				
<i>e</i>	0.0990013	<i>i</i>	6.53322	−0.09537929	+0.38619905				
<i>P</i>	4.60	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1998 10 12	699	0.4+ 0.2−	2000 02 03	704	0.0 0.5+	2000 03 04	704	0.5− 0.2+
1998 10 12	699	0.6+ 0.3−	2000 02 03	704	0.8+ 0.5+	2000 03 04	704	0.2− 0.2+
1998 10 12	699	0.7+ 0.6−	2000 02 03	704	0.1+ 0.2+	2000 03 04	704	0.4− 0.2+
1998 11 10	704	0.2− 1.1+	2000 02 03	704	0.9+ 0.7+	2000 03 05	704	0.2+ 0.4−
1998 11 10	704	0.8+ 1.4−	2000 02 03	704	0.2− 0.5+	2000 03 05	704	0.4+ 0.1−
1998 11 10	704	0.8− 0.3−	2000 02 11	704	0.2− 0.2+	2000 03 05	704	0.2+ 0.1−
1998 11 10	704	1.1+ 0.2−	2000 02 11	704	0.4− 0.3−	2000 03 05	704	0.1+ 0.8−
1998 11 11	704	0.8− 0.0	2000 02 11	704	0.3− 0.2+	2000 03 05	704	0.3+ 0.3−
1998 11 11	704	0.1− 0.2+	2000 02 11	704	0.4− 1.0−	2000 03 06	704	0.2− 0.1+
1998 11 11	704	(0.7+ 2.2+)	2000 02 11	704	0.9− 0.1+	2000 03 06	704	0.3− 0.3−
1998 11 11	704	0.8− 0.7+	2000 02 28	704	0.5− 0.4+	2000 03 06	704	0.1− 0.1+
1998 11 11	704	1.1− 0.3+	2000 02 28	704	0.7− 0.4+	2000 03 06	704	0.0 0.2+
1998 11 15	566	0.0 0.9+	2000 02 28	704	0.5− 0.7+	2000 03 06	704	0.8− 0.5+
1998 11 15	566	0.6+ 0.1−	2000 02 28	704	0.8− 0.6+	2000 03 09	704	0.7+ 0.4−
1998 11 15	566	0.3− 0.2+	2000 02 28	704	1.0− 1.0+	2000 03 09	704	0.1− 0.5+
1998 11 19	699	0.3+ 1.0−	2000 02 29	704	0.0 0.4−	2000 03 09	704	1.0+ 0.4−
1998 11 19	699	0.5+ 0.6+	2000 02 29	704	0.5+ 0.5+	2000 03 09	704	0.2− 0.9−
1998 11 19	699	0.4− 0.0	2000 02 29	704	0.0 0.4+	2000 03 09	704	0.4− 0.5−
2000 01 04	704	0.3+ 0.3−	2000 02 29	704	0.2+ 0.6+	2000 03 11	704	1.7+ 0.2−
2000 01 04	704	0.2− 0.3+	2000 02 29	704	0.4+ 0.5+	2000 03 11	704	1.3+ 1.3−
2000 01 04	704	1.6− 1.3−	2000 03 04	704	0.4+ 0.7−	2000 03 11	704	0.4+ 0.0
2000 01 06	704	1.0+ 0.7−	2000 03 04	704	0.7+ 0.3−	2000 03 11	704	0.5− 0.2+
2000 01 06	704	0.2− 0.1−	2000 03 04	704	1.3− 0.2+	2000 03 11	704	0.3+ 0.6−
2000 01 06	704	0.8+ 0.4+	2000 03 04	704	0.7+ 0.6−			
2000 01 06	704	0.5− 0.0	2000 03 04	704	0.1− 0.5+			

2000 AU₆₇ = 1998 XF₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.16010948	<i>ω</i>	18.56553	+0.99808804	−0.02982250				
<i>a</i>	3.3588558	<i>Ω</i>	342.87076	−0.00503874	+0.83372117				
<i>e</i>	0.0736092	<i>i</i>	10.59184	+0.06160253	+0.55137975				
<i>P</i>	6.16	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1998 12 14	704	(2.5+ 0.6+)	2000 01 04	704	1.4+ 0.5−	2000 03 04	704	0.4+ 0.2−
1998 12 14	704	0.2+ 1.7−	2000 01 04	704	0.4− 0.3+	2000 03 04	704	0.2− 0.0
1998 12 14	704	1.2+ 1.5+	2000 01 06	704	0.2− 0.5+	2000 03 04	704	0.8+ 0.0
1998 12 14	704	0.8− 1.7+	2000 01 06	704	0.2+ 0.4+	2000 03 04	704	0.8+ 1.0−
1998 12 17	704	1.2− 0.4+	2000 01 06	704	0.4− 1.0+	2000 03 05	704	0.6− 0.3−
1998 12 17	704	(1.1− 2.6−)	2000 02 03	704	1.7− 0.0	2000 03 05	704	0.6− 0.5+
1998 12 17	704	1.1+ 0.6−	2000 02 03	704	0.1+ 0.3−	2000 03 05	704	0.4− 0.1−
1998 12 17	704	0.5− 1.4−	2000 02 03	704	0.1− 0.6−	2000 03 05	704	0.1+ 0.4+
2000 01 04	704	0.4+ 0.8−	2000 03 04	704	0.0 0.2−	2000 03 05	704	0.3+ 1.1+

2000 AC₆₈ = 1989 JL = 1998 XU₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.25576894	<i>ω</i>	186.63386	+0.45404229	+0.87099245				
<i>a</i>	2.4579376	<i>Ω</i>	110.51066	−0.80797500	+0.49128069				
<i>e</i>	0.2449542	<i>i</i>	11.55834	−0.37552896	−0.00392806				
<i>P</i>	3.85	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

1989 05 05	046	1.0+ 0.2−	1999 01 07	704	0.1+ 0.9+	2000 02 06	703	0.2+ 0.3+
1989 05 05	046	2.4+ 2.1+	1999 01 07	704	(4.8− 0.3−)	2000 02 06	703	0.3+ 0.4+
1989 05 07	046	1.6− 1.0−	1999 01 23	699	(2.2+ 1.5+)	2000 03 04	704	0.6− 0.9−
1989 05 07	046	1.4− 0.5−	1999 01 23	699	1.5+ 0.8−	2000 03 04	704	0.5− 0.4−
1989 05 08	046	2.1− 0.9+	1999 01 23	699	1.0+ 0.4−	2000 03 04	704	0.3− 0.4+
1989 05 08	046	0.7+ 1.5−	2000 01 04	704	0.4+ 0.7−	2000 03 04	704	0.3− 0.2+
1989 05 09	046	1.7+ 1.3−	2000 01 04	704	0.5− 1.9−	2000 03 06	704	0.3+ 0.4+
1989 05 09	046	0.5− 0.0	2000 01 04	704	0.4− 1.4−	2000 03 06	704	0.3− 0.7+
1989 05 09	046	0.1− 0.9−	2000 01 04	704	1.8− 0.1−	2000 03 06	704	0.2+ 0.6+
1989 05 09	046	1.1− 0.4−	2000 01 06	704	0.3+ 0.6−	2000 03 06	704	0.2− 0.8+
1998 12 15	704	0.2− 0.2−	2000 01 06	704	0.3+ 0.9−	2000 03 06	704	0.1− 0.6+
1998 12 15	704	0.3+ 1.3−	2000 01 06	704	0.0 0.1−	2000 03 11	699	0.4+ 0.7+
1998 12 15	704	0.7+ 0.1−	2000 02 03	704	0.3+ 0.3−	2000 03 11	699	0.0 0.5+
1998 12 15	704	0.4− 0.1+	2000 02 03	704	0.7+ 0.1+	2000 03 11	699	0.6− 0.4+
1998 12 22	704	0.9+ 0.5+	2000 02 03	704	0.1− 0.1+	2000 03 11	699	0.1− 0.1+
1998 12 22	704	1.1− 1.0−	2000 02 03	704	0.2+ 0.3+	2000 03 12	703	0.8+ 0.6+
1998 12 22	704	0.6+ 0.7+	2000 02 03	704	0.0 0.2+	2000 03 12	703	0.4+ 1.1+
1999 01 07	704	1.4− 1.3−	2000 02 06	703	0.1+ 0.1+	2000 03 12	703	0.7+ 0.2+
1999 01 07	704	0.7− 0.8+	2000 02 06	703	0.3+ 0.2+	2000 03 12	703	0.3+ 0.2+

2000 AD₆₈ = 1991 LR₄ = 1999 AO₈Id. T. B. Spahr (*MPC* 38648), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.18773247	<i>ω</i>	267.80948	+0.95469397	−0.23251729				
<i>a</i>	3.0207153	<i>Ω</i>	105.59514	+0.28471720	+0.89524209				
<i>e</i>	0.1055429	<i>i</i>	11.11784	−0.08657673	+0.38010172				
<i>P</i>	5.25	<i>H</i>	12.2	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1991 06 06	809	0.4+	1.0−	1999 01 10	699	0.2−	0.8−	2000 01 27	411	0.7−	0.6−
1991 06 06	809	0.4−	1.3−	1999 01 10	699	0.1−	0.6−	2000 01 28	411	0.3−	0.5−
1991 06 06	809	0.4−	0.8−	1999 02 15	699	0.5−	0.1+	2000 01 28	411	0.7−	0.1−
1991 06 08	809	0.0	1.0−	1999 02 15	699	0.2+	0.0	2000 02 03	704	0.0	0.3+
1991 06 08	809	0.1−	0.8−	1999 02 15	699	0.2−	0.0	2000 02 03	704	0.1+	0.4+
1991 06 08	809	1.1−	0.4−	1999 11 16	704	0.6−	0.2−	2000 02 03	704	0.1−	0.1+
1991 06 08	809	(1.0+	2.9−)	1999 11 16	704	0.2−	0.7−	2000 02 03	704	0.2−	0.3+
1991 06 08	809	(0.7+	3.0−)	1999 11 16	704	0.4+	0.2−	2000 02 03	704	0.2−	0.0
1991 06 08	809	(0.0	3.8−)	1999 11 16	704	0.3+	0.1+	2000 02 06	703	0.2−	0.2+
1998 10 19	699	0.6−	0.1−	1999 11 16	704	0.2+	0.4−	2000 02 06	703	0.1−	0.0
1998 10 19	699	0.3−	0.9+	1999 12 06	704	0.5−	0.3−	2000 02 06	703	0.3+	0.1+
1998 10 19	699	0.2+	0.4+	1999 12 06	704	0.4+	0.6−	2000 02 06	703	0.5−	0.8+
1998 11 13	704	1.2+	0.3+	1999 12 06	704	0.2+	0.5−	2000 02 28	106	0.1−	0.3+
1998 11 13	704	0.5+	0.1−	1999 12 06	704	0.7+	0.4+	2000 02 28	106	0.4+	0.1−
1998 11 13	704	0.5+	0.7−	1999 12 06	704	1.2+	0.1+	2000 02 28	106	0.1+	0.5+
1998 11 13	704	1.6+	1.0+	1999 12 15	704	0.6+	1.9−	2000 03 04	704	0.1−	0.4+
1998 11 13	704	0.9−	0.4−	1999 12 15	704	0.2−	0.8−	2000 03 04	704	0.3+	0.1+
1998 11 16	699	0.1+	0.5−	1999 12 15	704	0.5+	0.9−	2000 03 04	704	0.0	0.2+
1998 11 16	699	0.1+	0.0	1999 12 15	704	0.7+	1.6+	2000 03 04	704	0.2+	0.1−
1998 11 16	699	0.1+	0.1−	2000 01 04	704	0.2−	1.0−	2000 03 04	704	0.8+	0.1−
1998 12 15	704	0.6−	0.1+	2000 01 04	704	0.3+	0.9−	2000 03 11	699	0.6−	0.5+
1998 12 15	704	0.1−	0.6−	2000 01 04	704	0.3−	0.1+	2000 03 11	699	0.5−	0.5+
1998 12 15	704	1.0+	0.6−	2000 01 04	704	0.6−	0.5−	2000 03 11	699	0.5−	0.1+
1998 12 15	704	0.2−	0.2−	2000 01 04	704	0.2−	0.0	2000 03 11	699	0.4−	0.1−
1998 12 15	704	0.4+	0.0	2000 01 06	704	0.1+	0.6−	2000 03 12	704	0.4+	0.7+
1999 01 07	699	0.5−	0.9−	2000 01 06	704	1.1+	0.3+	2000 03 12	704	0.2+	0.8+
1999 01 07	699	0.0	0.6−	2000 01 06	704	0.4+	0.1−	2000 03 12	704	0.3−	0.1+

2000 MAR. 20

M.P.C. 39343

1999 01 07	699	0.5−	0.7−	2000 01 06	704	0.6+	0.5+	2000 03 12	704	0.3−	0.6+
1999 01 10	699	0.0	0.6−	2000 01 27	411	0.9−	0.9−	2000 03 12	704	0.2−	0.5+

2000 AK₇₉ = 1998 MB₃₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	122.57617		(2000.0)		P		Q	
<i>n</i>	0.25891977	ω	212.51285		+0.91589570		+0.38466719	
<i>a</i>	2.4379563	Ω	124.44355		−0.33209679		+0.88668853	
<i>e</i>	0.1520111	<i>i</i>	7.99792		−0.22549234		+0.25654356	
<i>P</i>	3.81	<i>H</i>	14.1		<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 06 24	704	0.5−	0.8+	1998 06 27	809	1.7+	0.4−	2000 01 05	704	0.2+	0.1+
1998 06 24	704	1.0−	0.9+	1998 07 16	699	0.3−	0.2+	2000 01 06	704	0.2+	0.1−
1998 06 24	704	1.2−	0.5+	1998 07 16	699	0.4−	0.3+	2000 01 06	704	0.3+	0.2−
1998 06 24	704	0.6−	0.3−	1998 07 16	699	0.1+	0.2+	2000 01 06	704	0.1−	0.3−
1998 06 24	704	1.4−	0.7+	1999 12 14	704	0.2−	0.6+	2000 02 02	704	0.2+	0.2−
1998 06 26	809	1.4+	0.1+	1999 12 14	704	0.8−	0.4−	2000 02 02	704	0.3−	0.2−
1998 06 26	809	1.4+	0.3−	1999 12 14	704	0.1+	0.1−	2000 02 02	704	0.0	1.2+
1998 06 26	809	1.3+	0.5−	1999 12 14	704	0.1−	0.2−	2000 02 02	704	0.5−	0.5+
1998 06 26	704	1.2−	1.3−	1999 12 14	704	0.5−	0.2+	2000 02 03	704	0.4+	0.1−
1998 06 26	704	(2.2−	0.0)	2000 01 05	704	0.0	0.4−	2000 02 03	704	0.3+	0.5+
1998 06 26	704	1.3−	0.1+	2000 01 05	704	0.1+	0.3−	2000 02 03	704	0.1+	0.3+
1998 06 27	809	(2.9+	0.4+)	2000 01 05	704	0.1+	0.3+	2000 02 03	704	0.1+	0.2−
1998 06 27	809	1.8+	0.2−	2000 01 05	704	0.4+	0.1−	2000 02 03	704	0.1−	0.3+

2000 AZ₈₂ = 1998 RG₃₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	51.97053		(2000.0)		P		Q	
<i>n</i>	0.17593343	ω	201.14190		+0.68611577		−0.72709594	
<i>a</i>	3.1543058	Ω	205.55368		+0.67519384		+0.64873391	
<i>e</i>	0.1839775	<i>i</i>	3.19128		+0.27084762		+0.22466822	
<i>P</i>	5.60	<i>H</i>	14.3		<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.1−	0.5−	1998 09 18	704	0.3−	0.0	2000 01 06	704	0.1−	0.1+
1998 09 14	704	0.4+	0.4+	1998 09 18	704	0.3−	0.9−	2000 01 06	704	0.0	0.3−
1998 09 14	704	0.2−	1.5+	2000 01 05	704	0.6+	0.3+	2000 01 06	704	0.2−	0.1+
1998 09 14	704	1.2+	0.1+	2000 01 05	704	0.4−	0.5−	2000 01 28	704	0.6+	0.7+
1998 09 18	704	1.1+	0.2−	2000 01 05	704	0.3+	0.2−	2000 01 28	704	0.1−	0.0
1998 09 18	704	1.8−	0.1−	2000 01 05	704	0.5−	0.0	2000 01 28	704	0.1−	0.2+
1998 09 18	704	0.0	0.2−	2000 01 05	704	0.1−	0.3−				

2000 AP₈₃ = 1999 XO₉₀ = 1998 SR₁₀₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	62.56376		(2000.0)		P		Q	
<i>n</i>	0.19888440	ω	297.50813		+0.64521080		−0.76231176	
<i>a</i>	2.9067135	Ω	112.21743		+0.71890677		+0.58325972	
<i>e</i>	0.0480189	<i>i</i>	3.14756		+0.25860409		+0.28051538	
<i>P</i>	4.96	<i>H</i>	13.9		<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 17	699	1.6+	0.7−	1998 09 29	704	1.8+	1.4−	2000 01 05	704	0.4−	0.2+
1998 09 17	699	1.3+	0.0	1998 09 29	704	1.5+	0.4+	2000 01 05	704	0.2+	0.1−
1998 09 17	699	0.9−	0.3−	1998 09 29	704	1.3−	0.8−	2000 01 05	704	0.0	0.7−
1998 09 25	699	0.3−	0.4+	1998 09 29	704	(2.4+	0.5+)	2000 01 05	704	0.0	0.5−
1998 09 25	699	0.1−	0.3+	1998 09 29	704	0.6−	1.0−	2000 01 06	704	0.3+	0.3+
1998 09 25	699	0.7+	1.2+	1998 09 29	704	0.7−	0.7+	2000 01 06	704	0.1−	0.0
1998 09 26	704	0.0	0.6−	1998 09 29	704	0.6−	0.7+	2000 01 06	704	0.2−	0.3+
1998 09 26	704	0.1+	0.5+	1998 09 29	704	1.2+	0.9−	2000 01 06	704	0.2−	0.4−
1998 09 26	704	1.1−	0.4−	1999 12 07	704	0.1+	0.5−	2000 01 06	704	0.3−	0.6+

1998 09 26	704	1.0−	0.5+	1999 12 07	704	0.4−	0.4+	2000 01 06	704	0.3−	0.0
1998 09 26	704	0.9−	0.1−	1999 12 07	704	0.0	0.5−	2000 01 06	704	0.3−	0.3−
1998 09 27	704	0.1+	0.2+	1999 12 07	704	0.6+	0.3−	2000 01 06	704	0.7−	0.6+
1998 09 27	704	0.4−	0.0	1999 12 08	704	0.0	0.2+	2000 01 13	691	0.4+	0.3−
1998 09 27	704	1.3−	0.8+	1999 12 08	704	1.0+	0.1−	2000 01 13	691	0.7+	0.9+
1998 09 27	704	(2.2−	1.7+)	1999 12 08	704	0.4−	0.4+	2000 01 13	691	0.6+	0.1−
1998 09 27	704	0.2+	0.0	1999 12 08	704	0.8−	0.6+				
1998 09 29	704	0.6+	0.5+	2000 01 05	704	0.2+	0.6−				

2000 AQ₈₄ = 1990 VK₁₀ = 1990 WG₁₆ = 1998 QU₁₆

Id. A. Doppler, G. V. Williams (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	98.99863		(2000.0)		P		Q	
<i>n</i>	0.23169278	ω	236.18388		+0.99034150		−0.11465800	
<i>a</i>	2.6253934	Ω	130.27186		+0.13434578		+0.93255553	
<i>e</i>	0.1652973	<i>i</i>	5.86433		−0.03427724		+0.34233569	
<i>P</i>	4.25	<i>H</i>	14.7		<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 11 11	809	0.5+	0.7−	1998 08 23	704	0.4+	1.4+	2000 01 05	704	0.2+	0.0
1990 11 11	809	1.0−	1.3−	1998 08 23	704	1.5−	1.1−	2000 01 06	704	0.1+	0.9+
1990 11 11	809	0.6−	0.9−	1998 09 24	699	0.4+	1.4+	2000 01 06	704	0.1−	0.5+
1990 11 15	809	1.7+	0.8+	1998 09 24	699	0.4−	1.6+	2000 01 06	704	0.2+	0.4+
1990 11 17	809	(2.6+	0.4+)	1998 09 24	699	(0.1+	2.6+)	2000 01 27	049	0.2−	0.4−
1998 08 17	704	0.3−	0.3+	1999 12 07	704	0.3+	0.8+	2000 01 27	049	0.7−	0.9−
1998 08 17	704	0.5−	0.1−	1999 12 07	704	0.6+	0.8+	2000 01 27	049	0.5−	0.6−
1998 08 17	704	0.4−	0.3+	1999 12 07	704	0.1+	0.4+	2000 02 03	704	1.0−	1.1+
1998 08 17	704	0.2+	0.7−	2000 01 05	704	0.1−	0.1+	2000 02 03	704	0.2−	0.4−
1998 08 17	704	0.7+	0.4−	2000 01 05	704	0.1+	0.1+	2000 02 03	704	0.5−	0.3+
1998 08 23	704	0.7+	0.4−	2000 01 05	704	0.9+	0.0	2000 02 03	704	1.1+	0.1−
1998 08 23	704	0.3+	0.2+	2000 01 05	704	0.1+	0.0				

2000 AV₈₄ = 1989 YD₉ = 1998 SV₁₁₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	61.58357		(2000.0)		P		Q	
<i>n</i>	0.20594479	ω	285.66801		+0.51183898		−0.85832972	
<i>a</i>	2.8398943	Ω	133.48841		+0.80594404		+0.46527869	
<i>e</i>	0.0333344	<i>i</i>	2.83865		+0.29744757		+0.21630034	
<i>P</i>	4.79	<i>H</i>	14.2		<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1989 12 20	413	1.7−	1.2−	1999 12 05	699	0.4+	0.6+	2000 01 05	704	0.2+	0.8−
1989 12 20	413	1.9+	0.3+	1999 12 05	699	0.0	0.6+	2000 01 05	704	0.2+	0.8−
1998 09 26	704	0.5−	0.2+	1999 12 05	699	0.1−	1.6+	2000 01 06	704	0.1−	0.3−
1998 09 26	704	0.3−	0.2−	1999 12 07	704	0.0	1.2−	2000 01 06	704	0.7+	0.0
1998 09 26	704	0.2−	1.2+	1999 12 07	704	0.2−	0.8−	2000 01 06	704	0.7−	0.6−
1998 09 26	704	0.8+	0.8+	1999 12 07	704	0.3−	0.2+	2000 01 07	691	0.6−	0.0
1998 09 26	704	0.2−	0.2+	1999 12 07	704	0.0	0.8+	2000 01 07	691	0.7−	0.1−
1998 09 27	704	0.1−	0.5−	1999 12 07	704	0.1−	1.2+	2000 01 07	691	0.6−	0.0
1998 09 27	704	0.6+	0.0	1999 12 30	699	0.3+	0.5+	2000 01 26	143	0.1+	0.4−
1998 09 27	704	1.0+	0.3+	1999 12 30	699	0.5+	0.4+	2000 01 26	143	1.1+	0.6+
1998 09 27	704	1.2−	1.2−	1999 12 30	699	0.5+	0.9+	2000 01 26	143	0.2−	0.9−
1998 10 17	699	0.3+	0.9+	2000 01 05	704	0.1−	0.0	2000 01 26	143	0.4+	0.2+
1998 10 17	699	1.0+	0.3−	2000 01 05	704	0.2−	0.0	2000 01 27	143	0.4−	0.1−
1998 10 17	699	1.3−	1.2−	2000 01 05	704	0.0	0.5−				

2000 AT₈₅ = 1990 HA₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	272.68674	(2000.0)	P		Q	
<i>n</i>	0.18369981	ω 91.55291	−0.74899469	+0.62746172		
<i>a</i>	3.0647631	Ω 127.36810	−0.66256055	−0.71147718		
<i>e</i>	0.0515583	<i>i</i> 15.53342	+0.00452381	−0.31637322		
<i>P</i>	5.37	<i>H</i> 13.2	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

1990 04 27	413	0.7−	0.5−	2000 01 06	704	0.2+	0.6+	2000 02 03	704	1.1+	0.4−
1990 04 29	413	0.9+	0.5−	2000 01 06	704	0.4−	0.3−	2000 02 03	704	(2.4+	0.1−)
1990 05 26	413	(0.0	3.8−)	2000 01 06	704	0.3−	0.4−	2000 02 26	703	1.9−	0.8+
1990 05 26	413	0.3−	0.9+	2000 01 06	704	0.3+	0.4−	2000 02 26	703	0.9−	0.5+
1999 12 14	704	0.9+	0.5+	2000 01 06	704	0.6+	0.3−	2000 02 26	703	1.0−	1.0−
1999 12 14	704	0.5+	0.1−	2000 01 06	704	0.2−	0.9−	2000 02 26	703	1.3−	0.5+
1999 12 14	704	1.7−	0.3+	2000 01 06	704	0.2−	0.7−	2000 03 04	704	0.7−	0.7−
2000 01 05	704	0.4+	0.1−	2000 02 02	704	1.5+	1.0+	2000 03 04	704	0.3+	0.0
2000 01 05	704	0.0	0.0	2000 02 02	704	0.7+	0.3+	2000 03 04	704	0.2+	0.5−
2000 01 05	704	0.3+	0.1+	2000 02 02	704	0.8+	0.0	2000 03 04	704	0.4+	0.2−
2000 01 05	704	0.2+	0.1−	2000 02 02	704	0.2+	0.5+	2000 03 04	704	0.6+	0.1−
2000 01 05	704	0.8−	0.8−	2000 02 02	704	1.1+	1.1+				
2000 01 06	704	0.6−	0.0	2000 02 03	704	0.9−	0.6+				

2000 AN₈₉ = 1998 PS₁ = 1998 QP₁₀₃

Id. M. E. Sansaturio, G. V. Williams (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	112.08632	(2000.0)	P		Q	
<i>n</i>	0.21864245	ω 231.17550	+0.99356832	−0.04155226		
<i>a</i>	2.7288504	Ω 130.94065	+0.07251549	+0.94794866		
<i>e</i>	0.1813836	<i>i</i> 8.01570	−0.08696839	+0.31570041		
<i>P</i>	4.51	<i>H</i> 13.6	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

1998 08 04	699	0.6−	1.2−	2000 01 05	704	0.5+	0.4−	2000 02 05	704	0.0	0.3+
1998 08 04	699	1.2−	0.0	2000 01 05	704	0.5+	0.1−	2000 02 05	704	0.3+	0.7+
1998 08 04	699	1.1−	0.9−	2000 01 05	704	0.3+	0.3−	2000 02 05	704	0.4−	0.2+
1998 08 26	809	1.0+	1.8+	2000 01 06	704	1.0−	0.7−	2000 02 05	704	0.2+	1.3+
1998 08 26	809	0.3+	0.9+	2000 01 06	704	1.3−	0.5−	2000 02 12	691	0.1+	0.5−
1998 08 26	809	0.7−	0.6+	2000 01 06	704	1.5−	0.7−	2000 02 12	691	0.0	0.4−
1998 08 27	809	0.9+	0.7+	2000 01 06	704	0.4−	0.9−	2000 02 12	691	0.1+	0.4−
1998 08 27	809	1.2+	0.9+	2000 02 03	704	0.4+	0.1−	2000 03 04	704	1.5+	0.5+
1998 08 27	809	0.7+	0.7+	2000 02 03	704	0.5−	0.3+	2000 03 04	704	0.6−	0.5+
1998 09 27	699	1.0−	0.8−	2000 02 03	704	0.3−	1.1+	2000 03 04	704	0.2−	0.5+
1998 09 27	699	0.1−	1.0−	2000 02 03	704	0.2−	0.5+	2000 03 04	704	1.1+	0.1+
1998 09 27	699	0.1−	0.9−	2000 02 03	704	0.1−	0.7+	2000 03 04	704	0.2+	0.4+
2000 01 05	704	0.4+	0.5−	2000 02 05	704	0.8+	0.5−				

2000 AX₉₁ = 1997 JO₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	294.68006	(2000.0)	P		Q	
<i>n</i>	0.28579192	ω 91.66812	−0.77366929	+0.63012454		
<i>a</i>	2.2826330	Ω 127.39712	−0.60938493	−0.71145142		
<i>e</i>	0.1415771	<i>i</i> 4.77798	−0.17345272	−0.31109474		
<i>P</i>	3.45	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

1997 05 01	691	0.0	0.6+	2000 01 06	704	0.1+	0.3+	2000 02 11	704	0.2+	1.0−
1997 05 01	691	0.5−	0.5+	2000 01 06	704	0.4+	1.1+	2000 02 11	704	0.1−	0.5−
1997 05 01	691	0.5−	0.1+	2000 01 09	691	0.3−	0.5−	2000 02 11	704	0.4−	1.0−
1997 05 09	691	0.3+	0.5−	2000 01 09	691	0.2−	0.3−	2000 02 11	704	0.9+	1.4−
1997 05 09	691	0.4+	0.2−	2000 01 09	691	0.1+	0.4−	2000 02 12	691	0.7+	0.3−
1997 05 09	691	0.3+	0.5−	2000 01 12	691	0.6−	0.1−	2000 02 12	691	0.7+	0.2−
2000 01 05	704	0.4+	0.2+	2000 01 12	691	0.5−	0.1−	2000 02 12	691	0.6+	0.1−
2000 01 05	704	0.3+	0.6+	2000 01 12	691	0.6−	0.1−	2000 03 04	704	0.3+	2.0+
2000 01 05	704	0.1+	0.1−	2000 02 03	704	0.2−	0.3−	2000 03 04	704	0.4+	1.0+

2000 01 05	704	0.5−	0.6−	2000 02 03	704	0.2−	0.1+	2000 03 04	704	0.3−	0.1−
2000 01 05	704	0.8+	0.0	2000 02 03	704	0.6−	0.4+	2000 03 04	704	0.7−	0.4−
2000 01 06	704	0.7−	0.3+	2000 02 03	704	0.1+	0.7+				
2000 01 06	704	0.1+	0.9+	2000 02 03	704	0.4−	0.5+				

2000 AH₉₂ = 1998 RY₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	98.28816	(2000.0)	P		Q	
<i>n</i>	0.24439353	ω 320.94178	+0.88741108	−0.45925006		
<i>a</i>	2.5336284	Ω 66.44044	+0.43309760	+0.80097552		
<i>e</i>	0.1678518	<i>i</i> 2.49395	+0.15788620	+0.38409321		
<i>P</i>	4.03	<i>H</i> 14.7	<i>G</i> 0.15	<i>U</i> 3		

Residuals in seconds of arc

1994 09 12	675	0.1−	0.7−	1998 09 18	704	0.7+	0.7−	2000 02 11	704	0.1+	0.1−
1994 09 12	675	0.4+	0.1−	1998 09 18	704	0.9−	0.2−	2000 02 11	704	0.6−	0.8+
1998 08 17	704	0.1+	0.5−	1998 09 18	704	0.8−	0.5+	2000 02 11	704	0.2−	0.4−
1998 08 17	704	0.8−	1.0+	2000 01 05	704	0.6+	0.2−	2000 02 28	704	0.0	0.2−
1998 08 17	704	0.7−	0.3−	2000 01 05	704	0.2−	0.0	2000 02 28	704	0.1+	0.4+
1998 08 17	704	0.6+	0.7+	2000 01 05	704	0.3+	0.5+	2000 02 28	704	0.1−	0.1+
1998 08 17	704	0.5+	1.2+	2000 01 06	704	0.4+	0.1+	2000 02 28	704	0.2−	0.5+
1998 08 23	704	0.2+	0.7+	2000 01 06	704	0.2+	0.0	2000 02 28	704	0.1+	0.3+
1998 08 23	704	1.4+	0.8−	2000 01 06	704	0.4−	0.1−	2000 03 04	704	0.2+	0.3+
1998 08 23	704	1.2+	1.4−	2000 01 06	704	0.3−	1.8+	2000 03 04	704	0.8+	0.3+
1998 08 23	704	0.2−	1.7−	2000 01 30	703	0.2−	0.4−	2000 03 04	704	0.1+	0.4+
1998 08 23	704	(3.5−	2.5+)	2000 01 30	703	0.3−	0.2−	2000 03 04	704	0.2−	0.4−
1998 09 14	704	0.2−	0.3+	2000 01 30	703	0.2−	0.3−	2000 03 04	704	0.3−	0.5−
1998 09 14	704	1.3−	0.8+	2000 01 30	703	0.7+	0.1−	2000 03 05	120	1.9+	0.9−
1998 09 14	704	0.9+	0.6+	2000 02 03	704	0.4−	0.0	2000 03 05	120	0.9+	1.6−
1998 09 14	704	0.6−	1.1+	2000 02 03	704	0.1−	0.7−	2000 03 05	120	0.4−	0.2−
1998 09 14	704	(0.7−	2.2+)	2000 02 03	704	0.3−	0.3−	2000 03 09	608	(0.5−	2.1−)
1998 09 16	699	1.3+	1.2−	2000 02 03	704	0.2+	0.4+	2000 03 09	608	0.4−	0.6−
1998 09 16	699	0.3+	0.3+	2000 02 03	704	0.1−	0.1+	2000 03 09	608	0.0	1.0−
1998 09 16	699	0.4−	0.2+	2000 02 11	704	0.4−	1.2+				
1998 09 18	704	1.1−	0.7−	2000 02 11	704	1.2−	0.1−				

2000 AE₉₇ = 1996 CJ = 1998 SL₁₁₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	7.34582	(2000.0)	P		Q	
<i>n</i>	0.24684261	ω 112.79241	−0.84757257	−0.52876020		
<i>a</i>	2.5168421	Ω 35.33190	+0.45380701	−0.76622364		
<i>e</i>	0.1529454	<i>i</i> 4.47211	+0.27509987	−0.36512189		
<i>P</i>	3.99	<i>H</i> 14.6	<i>G</i> 0.15	<i>U</i> 3		

Residuals in seconds of arc

1996 02 01	327	0.7+	0.6−	2000 01 07	704	0.3−	0.1−	2000 02 29	704	1.4+	0.4+
1996 02 01	327	0.2+	0.1−	2000 01 07	704	0.2+	0.5−	2000 03 02	703	0.3+	0.3−
1996 02 01	327	0.1+	0.7−	2000 01 07	704	0.1+	0.9−	2000 03 02	703	0.2−	0.1−
1996 02 02	327	0.6−	0.4−	2000 01 07	704	0.6+	0.1−	2000 03 02	703	0.0	0.3+
1996 02 02	327	1.3−	0.5−	2000 01 10	699	0.4+	0.5−	2000 03 02	703	1.2−	0.4+
1996 02 02	327	0.4−	0.2−	2000 01 10	699	0.1+	0.2+	2000 03 05	704	0.1+	0.2+
1998 09 26	704	1.5+	0.4+	2000 01 10	699	0.4−	0.4−	2000 03 05	704	0.1+	0.0
1998 09 26	704	0.5+	0.2−	2000 02 04	704	0.4+	0.0	2000 03 05	704	0.4+	0.1+
1998 09 26	704	0.5−	0.0	2000 02 04	704	0.5+	0.2+	2000 03 05	704	0.2−	0.4+
1998 09 26	704	1.4−	0.2+	2000 02 04	704	0.2+	0.6+	2000 03 05	704	0.1+	0.2+
1998 09 27	704	0.5+	0.1−	2000 02 04	704	0.4+	0.1+	2000 03 11	699	0.7−	0.2+
1998 09 27	704	0.3+	0.4−	2000 02 11	704	0.3+	0.1−	2000 03 11	699	0.5−	0.5+
1998 09 27	704	0.2+	1.5+	2000 02 11	704	0.2+	0.2−	2000 03 11	699	0.6−	0.2+
1998 09 27	704	0.1−	0.8+	2000 02 11	704	0.1+	0.2+	2000 03 11	699	0.6−	0.0
1998 09 27	704	1.8−	0.9−	2000 02 11	704	0.1+	0.2−	2000 03 12	704	0.0	0.0
2000 01 04	704	0.7−	0.7−	2000 02 11	704	0.2+	0.1+	2000 03 12	704	0.0	0.0
2000 01 04	704	0.4−	0.6−	2000 02 29	704	0.7+	0.1−	2000 03 12	704	0.3−	0.1+
2000 01 04	704	0.3−	0.6+	2000 02 29	704	0.7+	0.1+	2000 03 12	704	0.2−	0.4+
2000 01 04	704	0.2−	1.5+	2000 02 29	704	0.2+	0.4+	2000 03 12	704	0.2−	0.6+
2000 01 07	704	0.1+	0.3−	2000 02 29	704	0.6+	0.1−				

2000 MAR. 20

M.P.C. 39345

2000 AC₉₈ = 1953 JF = 1998 WA₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	281.98121		(2000.0)		P		Q	
<i>n</i>	0.29184289	ω	193.52716	−0.09407385	+0.99178033			
<i>a</i>	2.2509714	Ω	71.12844	−0.90467354	−0.04879468			
<i>e</i>	0.2124217	<i>i</i>	5.25887	−0.41559103	−0.11828298			
<i>P</i>	3.38	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3	
Residuals in seconds of arc								
1953 05 09	760	0.3−	0.1−	2000 01 10	699	0.5−	0.1+	2000 02 29 704 0.1+ 0.0
1953 05 09	760	0.3+	0.2+	2000 01 10	699	0.1+	0.1−	2000 02 29 704 0.2+ 0.3+
1998 11 20	699	0.7−	0.1−	2000 02 04	704	0.2−	0.1−	2000 02 29 704 0.4+ 0.2+
1998 11 20	699	0.4−	0.0	2000 02 04	704	0.4−	0.1+	2000 03 04 294 0.8+ 0.2+
1998 11 20	699	1.5−	0.4+	2000 02 04	704	0.1+	0.3+	2000 03 04 294 1.8− 1.5−
1998 11 24	704	0.9+	0.4+	2000 02 04	704	0.3−	0.4+	2000 03 05 704 0.0 0.2−
1998 11 24	704	1.0+	0.0	2000 02 04	704	0.8−	0.5+	2000 03 05 704 0.1+ 0.1−
1998 11 24	704	0.5+	0.0	2000 02 05	704	0.1−	0.1+	2000 03 05 704 0.2+ 0.1−
1998 11 24	704	0.1−	0.8−	2000 02 05	704	0.5−	0.5+	2000 03 05 704 0.2− 0.1−
1998 11 24	704	0.1+	0.2+	2000 02 05	704	0.7−	0.6+	2000 03 05 704 0.1− 0.3−
2000 01 04	704	0.1−	0.3−	2000 02 05	704	0.7−	1.3+	2000 03 09 704 0.1− 0.0
2000 01 04	704	0.4+	0.5+	2000 02 11	704	0.5+	0.3−	2000 03 09 704 0.1− 0.2−
2000 01 04	704	0.8−	0.2−	2000 02 11	704	0.4+	0.1+	2000 03 09 704 0.0 0.0
2000 01 04	704	0.7−	1.0−	2000 02 11	704	0.4+	0.2−	2000 03 09 704 0.0 0.1−
2000 01 07	704	1.5+	0.6+	2000 02 11	704	1.0+	0.1+	2000 03 09 704 0.1+ 0.1−
2000 01 07	704	0.1−	0.3−	2000 02 11	704	1.3+	0.7+	2000 03 12 704 0.3− 0.1−
2000 01 07	704	0.5+	0.5+	2000 02 14	106	0.0	0.1+	2000 03 12 704 0.1+ 0.1−
2000 01 07	704	0.5+	1.2−	2000 02 14	106	0.1−	0.1+	2000 03 12 704 0.3+ 0.1−
2000 01 07	704	0.4−	1.0−	2000 02 14	106	0.3+	0.0	2000 03 12 704 0.0 0.1+
2000 01 10	699	0.7−	0.3−	2000 02 29	704	0.2+	0.2+	

2000 AC₁₀₀ = 1993 FV₆₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	32.86945		(2000.0)		P		Q	
<i>n</i>	0.23813196	ω	228.55135	+0.84744251	−0.53037719			
<i>a</i>	2.5778497	Ω	163.43706	+0.50816760	+0.79771399			
<i>e</i>	0.2449574	<i>i</i>	4.68111	+0.15364533	+0.28697113			
<i>P</i>	4.14	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	5	
Residuals in seconds of arc								
1993 03 19	809	0.6−	0.9+	2000 01 05	704	0.3−	0.1−	2000 01 06 699 0.2− 0.7+
1993 03 20	809	0.4+	0.3−	2000 01 05	704	0.6+	0.3−	2000 01 07 704 0.2+ 0.5−
1999 12 08	699	0.0	0.4+	2000 01 05	704	0.6+	0.2−	2000 01 07 704 0.2+ 0.5−
1999 12 08	699	0.9−	0.7+	2000 01 05	704	0.4+	0.4−	2000 01 07 704 0.5+ 0.8−
1999 12 08	699	0.1+	0.4+	2000 01 06	699	0.1−	1.5+	2000 01 07 704 0.3− 1.0−
2000 01 05	704	0.2−	0.0	2000 01 06	699	0.1−	0.7+	2000 01 07 704 0.4− 0.6−

2000 AO₁₀₀ = 1997 LW₁₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	38.79568		(2000.0)		P		Q	
<i>n</i>	0.18320362	ω	318.35602	+0.86021614	−0.41001886			
<i>a</i>	3.0702944	Ω	68.26145	+0.50969681	+0.70932063			
<i>e</i>	0.1086139	<i>i</i>	19.04934	−0.01540660	+0.57336618			
<i>P</i>	5.38	<i>H</i>	11.5	<i>G</i>	0.15	<i>U</i>	4	
Residuals in seconds of arc								
1997 06 07	809	0.3−	0.6−	2000 01 05	704	0.2−	0.4+	2000 02 03 704 1.1− 0.0
1997 06 07	809	0.8−	0.4−	2000 01 05	704	0.0	0.5+	2000 02 03 704 0.5− 0.0
1997 06 07	809	1.3−	1.3−	2000 01 07	704	0.1−	0.4−	2000 02 03 704 0.4− 0.2+
1997 06 08	809	1.2+	1.6+	2000 01 07	704	0.3+	0.4+	2000 03 04 704 0.3+ 0.1−
1997 06 08	809	1.0+	0.9+	2000 01 07	704	0.3+	0.4+	2000 03 04 704 0.8+ 0.3−
1997 06 08	809	0.9+	1.2+	2000 01 07	704	0.3+	0.0	2000 03 04 704 0.4+ 0.2−
2000 01 05	704	0.1+	0.2+	2000 01 07	704	0.3+	0.5+	2000 03 04 704 0.0 0.4−

2000 01 05	704	0.2−	0.3+	2000 02 03	704	0.4−	0.0	2000 03 04	704	0.2−	0.4−
2000 01 05	704	0.5−	0.1+	2000 02 03	704	0.4−	0.0				

2000 AB₁₀₁ = 1995 AV₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	17.88197		(2000.0)		P		Q	
<i>n</i>	0.17807384	ω	318.04598	+0.57675374	−0.77979174			
<i>a</i>	3.1289789	Ω	95.30148	+0.79937308	+0.47728065			
<i>e</i>	0.0601329	<i>i</i>	14.15351	+0.16839774	+0.40512716			
<i>P</i>	5.53	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	3	
Residuals in seconds of arc								
1995 01 02	010	0.2−	0.7+	1999 11 13	699	0.8−	0.2+	1999 12 14 699 0.2− 0.2−
1995 01 02	010	0.1−	0.3−	1999 12 04	699	0.6+	0.1+	1999 12 14 699 0.6− 0.0
1995 01 03	010	0.7−	0.2−	1999 12 04	699	0.2+	0.3−	1999 12 14 699 0.1+ 0.1−
1995 01 04	010	1.0+	0.0	1999 12 04	699	1.0+	0.5−	2000 01 05 704 0.1+ 0.1−
1999 10 31	703	0.4+	0.4+	1999 12 05	704	0.5−	0.6−	2000 01 05 704 0.3+ 0.1+
1999 10 31	703	0.0	1.4+	1999 12 05	704	0.1+	0.1+	2000 01 05 704 0.3+ 0.1−
1999 10 31	703	0.0	0.2+	1999 12 05	704	0.1+	0.0	2000 01 05 704 0.2+ 0.1+
1999 10 31	703	0.5+	1.6+	1999 12 05	704	0.1+	0.0	2000 01 05 704 0.1− 0.5−
1999 11 05	704	1.7−	0.7−	1999 12 05	704	0.2−	0.1−	2000 01 07 704 0.3− 0.1−
1999 11 05	704	0.4−	1.0−	1999 12 14	704	0.5−	0.3+	2000 01 07 704 0.7+ 0.4+
1999 11 05	704	0.2+	0.8−	1999 12 14	704	0.3−	0.4−	2000 01 07 704 0.3− 0.0
1999 11 05	704	0.2−	0.4−	1999 12 14	704	0.3−	0.2−	2000 01 07 704 0.4+ 0.0
1999 11 13	699	1.7+	0.2−	1999 12 14	704	0.5−	0.5+	2000 01 07 704 0.5+ 0.2+
1999 11 13	699	0.5+	0.3+	1999 12 14	704	1.0−	0.1+	

2000 AO₁₀₂ = 1998 HK₁₁₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	78.84181		(2000.0)		P		Q	
<i>n</i>	0.29162177	ω	213.27894	+0.97115053	+0.22404998			
<i>a</i>	2.2521091	Ω	133.54713	−0.18671904	+0.92743763			
<i>e</i>	0.2222252	<i>i</i>	6.46887	−0.14833288	+0.29943455			
<i>P</i>	3.38	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4	
Residuals in seconds of arc								
1998 04 21	704	0.8+	1.6−	1999 10 20	704	0.8−	0.8−	1999 12 05 704 0.0 0.2+
1998 04 21	704	0.2+	0.7−	1999 11 05	704	0.1−	0.4+	1999 12 05 704 0.5+ 0.2−
1998 04 21	704	0.0	0.9−	1999 11 05	704	0.3−	0.2+	1999 12 05 704 0.1− 0.4−
1998 04 21	704	0.3+	1.6+	1999 11 05	704	0.4−	0.6+	1999 12 14 704 0.2+ 0.1−
1998 04 23	704	0.0	1.0−	1999 11 05	704	0.3−	0.2−	1999 12 14 704 0.1+ 0.2−
1998 04 23	704	0.3+	1.4+	1999 11 05	704	0.4−	0.2+	1999 12 14 704 0.0 0.5−
1998 04 23	704	1.9−	0.6−	1999 11 12	699	0.1−	0.3+	1999 12 14 704 0.1+ 0.5−
1998 04 23	704	1.0+	1.6+	1999 11 12	699	0.1+	0.3+	2000 01 05 704 0.1+ 0.6−
1998 04 23	704	0.3+	0.5−	1999 11 12	699	0.2−	0.4+	2000 01 05 704 0.1− 0.3−
1998 04 24	704	0.0	0.4−	1999 11 16	703	0.9−	0.1+	2000 01 05 704 0.3+ 0.2−
1998 04 24	704	0.6+	1.7+	1999 11 16	703	0.2−	0.2+	2000 01 05 704 0.0 0.3+
1998 04 24	704	1.0−	0.5−	1999 11 16	703	0.7−	0.5+	2000 01 05 704 0.0 0.2+
1998 04 24	704	0.2+	1.8+	1999 11 16	703	0.5−	0.3+	2000 01 07 704 0.3+ 0.6−
1998 04 24	704	0.3−	0.1−	1999 12 04	699	0.5+	0.1−	2000 01 07 704 0.5+ 0.3+
1999 10 20	704	0.3−	0.7+	1999 12 04	699	0.4+	0.1−	2000 01 07 704 0.7+ 0.4−
1999 10 20	704	0.1−	0.6+	1999 12 04	699	0.6+	0.2−	2000 01 07 704 0.4+ 0.3+
1999 10 20	704	0.1−	0.3−	1999 12 05	704	0.9−	0.2+	2000 01 07 704 1.5+ 0.7+
1999 10 20	704	0.0	0.2+	1999 12 05	704	0.6+	0.0	

2000 AF₁₀₄ = 1992 LL₂ = 1998 QT₈₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	288.39355		(2000.0)		P		Q	
<i>n</i>	0.20892508	ω	298.50954	−0.96769409	−0.05029161			
<i>a</i>	2.8128225	Ω	239.59703	+0.11334286	−0.96207997			
<i>e</i>	0.1109799	<i>i</i>	16.64561	−0.22521443	−0.26809118			
<i>P</i>	4.72	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3	

Residuals in seconds of arc

1992 06 03	809(16.1– 1.5+)	1999 12 06	704 0.1– 0.2–	2000 01 07	704 0.6+ 0.1+
1992 06 03	809(16.2– 1.1+)	1999 12 06	704 0.2– 0.6–	2000 01 07	704 0.2– 1.1+
1992 06 03	809(15.4– 0.5+)	1999 12 06	704 0.3– 0.3–	2000 01 07	704 0.0 0.7+
1998 08 24	704 1.0+ 0.6–	1999 12 06	704 0.3+ 1.6+	2000 01 07	704 0.6– 1.2+
1998 08 24	704 0.7+ 0.9+	1999 12 14	704 0.5+ 0.0	2000 03 05	704 0.7+ 0.1–
1998 08 24	704 0.3+ 0.0	1999 12 14	704 0.2– 0.0	2000 03 05	704 0.1– 0.6–
1998 08 24	704 0.2– 0.8–	1999 12 14	704 0.0 0.8–	2000 03 05	704 0.1– 0.4–
1998 08 27	704 (1.0– 2.8–)	1999 12 14	704 0.5– 0.7–	2000 03 05	704 0.2– 0.5–
1998 08 27	704 0.2– 0.7–	1999 12 14	704 0.3– 0.5–	2000 03 05	704 0.7– 0.3+
1998 08 27	704 1.6– 0.8+	2000 01 05	704 0.0 0.1+	2000 03 09	704 0.5+ 0.6–
1998 08 27	704 (2.3– 0.0)	2000 01 05	704 0.3+ 0.2+	2000 03 09	704 0.6– 0.6–
1999 11 04	704 0.2– 0.1+	2000 01 05	704 0.1+ 0.2+	2000 03 09	704 0.3– 0.6–
1999 11 04	704 0.1+ 0.1–	2000 01 05	704 0.0 0.3–	2000 03 09	704 0.1– 0.3–
1999 11 04	704 0.4– 0.2–	2000 01 05	704 0.0 0.1–		
1999 11 04	704 0.7+ 0.1+	2000 01 07	704 0.6+ 0.9+		

2000 AA₁₀₆ = 1995 UT₂₁

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P	Q
<i>n</i>	0.29109112	ω	3.79920	−0.80519062	+0.59173393
<i>a</i>	2.2548453	Ω	212.58117	−0.54597143	−0.76536560
<i>e</i>	0.1351268	<i>i</i>	4.15052	−0.23148058	−0.25311353
<i>P</i>	3.39	<i>H</i>	15.2	<i>G</i>	0.15 <i>U</i> 3

Residuals in seconds of arc

1995 10 19	691 0.1+ 0.2+	1998 08 17	704 (0.2+ 2.8+)	2000 01 07	704 0.2+ 1.0+
1995 10 19	691 0.3+ 0.3+	1998 08 17	704 (3.6– 1.5–)	2000 01 07	704 0.1+ 0.6–
1995 10 19	691 0.3+ 0.1+	2000 01 05	704 0.1– 0.2–	2000 02 03	704 0.7+ 0.2+
1995 10 28	691 0.8– 0.2–	2000 01 05	704 0.1+ 0.2+	2000 02 03	704 0.6+ 0.5–
1995 10 28	691 0.2– 0.2–	2000 01 05	704 0.2– 0.0	2000 02 03	704 0.3+ 0.3+
1995 10 28	691 0.3+ 0.4–	2000 01 05	704 0.6– 0.3–	2000 02 03	704 0.6– 0.6–
1998 08 17	704 0.6– 0.4–	2000 01 05	704 0.4– 0.0		
1998 08 17	704 0.5+ 0.7+	2000 01 07	704 0.1+ 0.6+		

2000 AL₁₁₃ = 1977 CG₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P	Q
<i>n</i>	0.08215879	ω	265.01298	−0.61294608	−0.78634206
<i>a</i>	5.2404271	Ω	223.10675	+0.76230961	−0.56283330
<i>e</i>	0.0600003	<i>i</i>	6.48849	+0.20780074	−0.25472503
<i>P</i>	12.00	<i>H</i>	11.8	<i>G</i>	0.15 <i>U</i> 6

Residuals in seconds of arc

1977 02 11	675 1.2– 0.0	2000 01 05	704 0.2– 0.8+	2000 02 02	704 0.1– 0.3+
1977 02 12	675 1.2+ 0.1–	2000 01 07	704 1.1– 0.3–	2000 02 02	704 0.3– 0.2+
2000 01 05	704 0.3+ 1.1–	2000 01 07	704 0.6+ 0.1+	2000 02 02	704 0.8+ 0.2+
2000 01 05	704 0.0 0.1–	2000 01 07	704 0.2+ 0.5+	2000 02 02	704 0.4– 0.1+
2000 01 05	704 0.7– 0.4+	2000 01 07	704 0.9+ 1.0–		

2000 AT₁₁₃ = 1998 QH₉₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P	Q
<i>n</i>	0.22457097	ω	200.43439	−0.28391078	−0.93343050
<i>a</i>	2.6806101	Ω	266.56892	+0.90742214	−0.18765559
<i>e</i>	0.0934694	<i>i</i>	12.69235	+0.30980594	−0.30576606
<i>P</i>	4.39	<i>H</i>	14.1	<i>G</i>	0.15 <i>U</i> 4

Residuals in seconds of arc

1998 08 19	704 0.2– 0.3–	1999 12 05	699 0.1– 0.2+	2000 01 05	704 0.4+ 0.2+
1998 08 19	704 1.0+ 0.5+	1999 12 06	704 0.2– 0.7+	2000 01 05	704 0.1– 0.1–

1998 08 19	704 0.9– 0.1–	1999 12 06	704 0.0 0.1–	2000 01 05	704 0.2– 0.2+
1998 08 19	704 (2.2+ 1.5+)	1999 12 06	704 0.1+ 0.5+	2000 01 05	704 0.7– 0.5+
1998 08 19	704 (2.9– 1.7+)	1999 12 06	704 0.3+ 1.1+	2000 01 05	704 0.4– 0.1+
1998 08 27	704 0.6+ 0.8–	1999 12 06	704 0.7– 0.5–	2000 01 07	704 0.4+ 0.2+
1998 08 27	704 0.9– 0.3+	1999 12 14	704 1.7+ 1.1–	2000 01 07	704 0.2– 0.2+
1998 08 27	704 2.0+ 1.3+	1999 12 14	704 0.2+ 1.4–	2000 01 07	704 0.3+ 0.5+
1998 08 27	704 1.5– 0.8–	1999 12 14	704 0.0 0.9–	2000 01 07	704 0.2– 0.0
1999 12 05	699 0.1– 0.2+	1999 12 14	704 0.1+ 0.6–	2000 01 07	704 0.2+ 0.2–
1999 12 05	699 0.9– 1.4+	1999 12 14	704 0.0 0.8–		

2000 AW₁₁₃ = 1998 QE₈₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P	Q
<i>n</i>	0.24258309	ω	219.84351	−0.40781854	−0.90132750
<i>a</i>	2.5462187	Ω	254.67153	+0.87154424	−0.33662694
<i>e</i>	0.0386339	<i>i</i>	8.70244	+0.27220336	−0.27256383
<i>P</i>	4.06	<i>H</i>	14.4	<i>G</i>	0.15 <i>U</i> 3

Residuals in seconds of arc

1998 08 24	704 0.1– 0.5–	1999 12 05	699 0.7+ 1.7+	2000 01 05	704 0.3– 0.2–
1998 08 24	704 1.5+ 1.3+	1999 12 05	699 1.4+ 0.1–	2000 01 05	704 1.2+ 0.5+
1998 08 24	704 1.2– 0.9–	1999 12 05	699 0.8+ 1.1+	2000 01 05	704 0.2+ 0.4–
1998 08 24	704 0.3+ 0.9+	1999 12 06	704 0.2– 1.6+	2000 01 07	704 0.2– 0.2–
1998 08 24	704 (3.5– 1.2+)	1999 12 06	704 0.6+ 0.0	2000 01 07	704 0.1+ 0.2+
1998 08 27	704 0.6– 0.1+	1999 12 06	704 0.7– 0.1+	2000 01 07	704 0.4– 0.3–
1998 08 27	704 0.5+ 0.1+	1999 12 06	704 0.8– 1.5–	2000 01 07	704 0.1+ 0.5–
1998 08 27	704 1.2– 0.9+	1999 12 14	704 0.4+ 0.4–	2000 01 07	704 0.1– 0.3–
1998 08 27	704 0.3– 0.4–	1999 12 14	704 1.5– 0.7–	2000 02 02	704 0.1+ 0.9+
1998 08 27	704 0.1– 0.2–	1999 12 14	704 0.7– 0.5–	2000 02 02	704 0.2– 0.0
1998 09 19	699 0.5+ 0.5–	1999 12 14	704 0.3– 0.5–	2000 02 02	704 0.1+ 0.5+
1998 09 19	699 0.3+ 0.7–	2000 01 05	704 0.2– 0.0	2000 02 02	704 0.2– 0.1+
1998 09 19	699 0.3+ 0.1–	2000 01 05	704 0.0 0.3–	2000 02 02	704 0.2+ 0.3–

2000 AP₁₁₅ = 1994 LL₆ = 1998 QQ₆₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P	Q
<i>n</i>	0.29286184	ω	258.74945	−0.81778772	−0.56535468
<i>a</i>	2.2457471	Ω	246.73775	+0.56311790	−0.74739522
<i>e</i>	0.1004357	<i>i</i>	6.73169	+0.11883382	−0.34896198
<i>P</i>	3.37	<i>H</i>	14.5	<i>G</i>	0.15 <i>U</i> 3

Residuals in seconds of arc

1994 06 03	809 0.6+ 0.1+	1999 12 06	704 0.2+ 1.1+	2000 01 07	704 0.2– 0.2+
1994 06 03	809 0.4+ 0.4+	1999 12 06	704 0.4+ 0.6+	2000 01 07	704 0.3– 0.4+
1994 06 03	809 1.3+ 0.3+	1999 12 06	704 (0.8– 2.2+)	2000 01 07	704 0.0 0.4–
1994 06 04	809 1.8– 1.3+	1999 12 06	704 0.6– 0.9–	2000 01 07	704 0.2+ 0.2–
1994 06 04	809 0.1+ 0.3+	1999 12 14	704 0.7+ 1.2+	2000 02 04	704 0.1+ 0.0
1994 06 04	809 0.4– 1.1+	1999 12 14	704 0.1+ 0.1+	2000 02 04	704 0.1+ 0.4+
1998 08 24	704 0.9– 0.5–	1999 12 14	704 0.0 0.8+	2000 02 04	704 0.0 0.2+
1998 08 24	704 0.5+ 0.8+	1999 12 14	704 0.6+ 0.7+	2000 02 04	704 0.6– 0.2+
1998 08 24	704 1.0+ 1.1+	1999 12 14	704 1.0– 0.4+	2000 02 04	704 0.6+ 0.4+
1998 08 24	704 1.3– 0.8–	2000 01 05	704 0.1+ 0.1–	2000 03 05	704 0.7– 0.6–
1998 08 24	704 0.2– 0.6+	2000 01 05	704 0.2– 0.1–	2000 03 05	704 0.0 0.8–
1998 08 27	704 0.8+ 0.3+	2000 01 05	704 0.1– 0.3+	2000 03 05	704 0.4+ 1.0–
1998 08 27	704 0.9– 0.5+	2000 01 05	704 0.2+ 0.5+	2000 03 05	704 0.6+ 0.4–
1998 08 27	704 0.5+ 0.6+	2000 01 05	704 0.2– 0.8+	2000 03 05	704 0.6+ 0.4+
1998 08 27	704 0.4– 0.5–	2000 01 07	704 0.6+ 0.2–		

**2000 AK₁₁₉ = 1955 QD = 1959 NE = 1973 YX₁ = 1988 HN = 1989 RW₃
= 1993 MQ = 1999 AJ₆**Id. G. V. Williams (*MPC* 38671), M. E. Sansaturio

2000 MAR. 20

M.P.C. 39347

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	204.58957		(2000.0)	P	Q
n	0.23301017	ω	20.30074	+0.34615428	+0.91407244
a	2.6154884	Ω	270.43071	-0.88729124	+0.24579921
e	0.1506628	i	12.19905	-0.30478103	+0.32257452
P	4.23	H	12.3	G 0.15	U 1

Residuals in seconds of arc

1955 08 20	760	0.4-	0.1+	1998 12 09	704	(2.3-	2.5+)	1999 12 14	704	0.5+	1.6-
1955 08 20	760	0.4-	0.5+	1998 12 09	704	0.9+	0.9+	1999 12 14	704	(2.6-	0.5-)
1959 07 08	760	0.5-	2.3+	1998 12 09	704	0.9+	0.2-	2000 01 05	704	0.1-	0.2-
1973 12 20	095	(1.7+	3.2+)	1998 12 09	704	(1.6-	2.5-)	2000 01 05	704	0.1-	0.3-
1973 12 21	095	2.1+	1.6-	1999 01 08	704	1.6-	0.4-	2000 01 05	704	0.5-	0.2-
1988 04 19	413	0.2+	0.5+	1999 01 08	704	0.3+	0.5-	2000 01 05	704	0.3+	1.5+
1988 04 19	413	0.0	0.8-	1999 01 08	704	(0.5-	2.5-)	2000 01 05	704	1.5-	0.7+
1989 09 04	095	1.3-	1.6-	1999 01 08	704	1.2+	0.5-	2000 01 07	704	0.2+	0.1-
1989 09 04	095	0.3-	0.6+	1999 01 08	704	(2.4+	1.4-)	2000 01 07	704	0.1-	0.2+
1993 06 18	675	1.5+	0.0	1999 01 11	704	0.8-	1.2-	2000 01 07	704	0.1+	0.1+
1993 06 20	675	0.5+	0.2+	1999 01 11	704	0.5+	0.7-	2000 01 07	704	0.1-	1.2-
1998 10 01	699	0.6-	0.2+	1999 01 11	704	1.2-	1.7-	2000 01 07	704	0.4-	0.0
1998 10 01	699	0.5-	0.1+	1999 01 11	704	(0.4-	2.3-)	2000 02 04	704	0.1+	0.1+
1998 10 01	699	0.4-	0.5+	1999 11 08	703	0.5-	0.2+	2000 02 04	704	0.4-	0.3+
1998 11 14	704	0.4+	0.2-	1999 11 08	703	0.2+	0.3+	2000 02 04	704	0.3-	1.2+
1998 11 14	704	0.2+	0.5-	1999 11 08	703	0.2+	0.3+	2000 02 04	704	0.1+	0.6+
1998 11 14	704	0.4-	1.0+	1999 11 08	703	0.4-	0.1-	2000 02 04	704	0.1-	0.7+
1998 11 14	704	0.0	0.3+	1999 12 06	704	0.5+	0.7+	2000 02 13	704	1.1+	1.3+
1998 11 14	704	0.5-	1.5+	1999 12 06	704	1.5+	0.6+	2000 02 13	704	(1.1+	3.7+)
1998 11 16	704	0.4+	0.7-	1999 12 06	704	0.1+	0.2+	2000 02 13	704	0.7-	0.2+
1998 11 16	704	0.0	0.4+	1999 12 06	704	1.1+	0.0	2000 03 06	704	0.9+	0.3-
1998 11 16	704	0.5-	0.3-	1999 12 06	704	1.0-	1.5-	2000 03 06	704	0.6-	0.9-
1998 11 16	704	0.4+	1.2+	1999 12 14	704	1.0+	0.9+	2000 03 06	704	0.9-	0.2+
1998 11 16	704	0.1-	0.4+	1999 12 14	704	0.8+	1.0+	2000 03 06	704	1.3-	0.6+
1998 12 09	704	0.9+	1.3+	1999 12 14	704	0.1+	1.0-				

2000 AG₁₂₀ = 1981 RV₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	199.32878		(2000.0)	P	Q
n	0.18446046	ω	154.36419	+0.40806279	+0.90548224
a	3.0563319	Ω	139.43338	-0.86543765	+0.42431179
e	0.1154308	i	10.32518	-0.29069302	+0.00783715
P	5.34	H	13.3	G 0.15	U 4

Residuals in seconds of arc

1981 09 03	675	0.6+	0.9+	2000 01 07	704	0.0	0.5-	2000 02 03	704	1.0+	0.0
1981 09 04	675	0.6-	0.9-	2000 01 09	704	0.1-	0.2-	2000 02 03	704	0.5+	0.2-
2000 01 05	704	0.6-	0.0	2000 01 09	704	0.2-	0.2-	2000 02 03	704	1.1+	0.2+
2000 01 05	704	0.1-	0.2-	2000 01 09	704	1.0+	0.9-	2000 02 03	704	0.1+	0.5+
2000 01 05	704	0.6-	0.5+	2000 02 02	704	0.3-	0.4+	2000 03 05	704	0.0	1.3-
2000 01 05	704	1.5+	0.9+	2000 02 02	704	0.0	0.1+	2000 03 05	704	0.0	0.9-
2000 01 07	704	0.7-	1.3-	2000 02 02	704	0.2-	1.3+	2000 03 05	704	0.0	0.6+
2000 01 07	704	0.1+	0.0	2000 02 02	704	0.1-	0.7+	2000 03 05	704	0.9-	0.1+
2000 01 07	704	0.4+	0.1-	2000 02 02	704	0.2-	1.1+	2000 03 05	704	0.1+	0.4-
2000 01 07	704	1.5-	0.8-	2000 02 03	704	0.5-	0.5+				

2000 AO₁₂₂ = 1998 QF₄₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	194.39210		(2000.0)	P	Q
n	0.29479165	ω	135.60148	+0.40002007	+0.91532169
a	2.2359355	Ω	157.85165	-0.87151745	+0.39562188
e	0.1829673	i	7.09792	-0.28362170	+0.07529631
P	3.34	H	15.3	G 0.15	U 4

Residuals in seconds of arc

1998 08 17	704	0.2+	1.0+	1998 08 23	704	1.0+	0.1-	2000 01 07	704	0.3+	0.7-
1998 08 17	704	0.1-	0.1-	1998 09 18	699	0.0	0.4+	2000 01 07	704	0.5+	0.3+
1998 08 17	704	0.3+	0.2-	1998 09 18	699	0.4-	0.3-	2000 01 07	704	0.7-	0.1+
1998 08 17	704	0.4-	0.7+	1998 09 18	699	0.0	0.2-	2000 02 02	704	0.2+	0.5+
1998 08 17	704	0.1-	0.2+	2000 01 05	704	0.2+	0.0	2000 02 02	704	0.4+	0.2+
1998 08 23	704	1.1-	0.0	2000 01 05	704	0.1-	0.8-	2000 02 02	704	1.1+	0.1-
1998 08 23	704	0.4+	0.8+	2000 01 05	704	0.5+	0.1+	2000 02 03	704	0.1+	0.1+
1998 08 23	704	0.7+	1.7-	2000 01 05	704	0.4-	0.1-	2000 02 03	704	0.5-	0.2+
1998 08 23	704	0.6-	0.4-	2000 01 07	704	1.5-	0.0	2000 02 03	704	0.1-	0.4+

2000 AQ₁₂₃ = 1267 T-1 = 1986 TE₁₃

Id. A. Doppler, M. E. Sansaturio, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	46.20848		(2000.0)	P	Q
n	0.23404992	ω	220.05812	+0.51428354	-0.85731872
a	2.6077366	Ω	199.02644	+0.80362820	+0.49099594
e	0.2984680	i	3.99961	+0.29948984	+0.15468546
P	4.21	H	14.5	G 0.15	U 1

Residuals in seconds of arc

1971 03 26	675	0.2-	1.0-	2000 01 07	704	0.1-	0.1-	2000 02 10	704	0.5-	0.2+
1971 03 27	675	(0.9+	3.6-)	2000 01 07	704	0.2+	0.3-	2000 02 10	704	0.1+	0.0
1971 04 02	675	(4.8-	1.1+)	2000 01 07	704	0.1+	0.7+	2000 02 10	704	0.4-	0.4-
1986 10 05	095	0.0	0.6-	2000 01 07	704	0.2+	0.2+	2000 02 11	704	0.2+	0.0
1998 07 23	910	0.0	0.5+	2000 02 02	704	0.4-	0.1+	2000 02 11	704	0.1+	0.1+
1998 07 23	910	0.0	0.1+	2000 02 02	704	0.2-	0.4+	2000 02 11	704	0.2-	0.2+
1998 07 23	910	0.0	0.6+	2000 02 02	704	0.3+	0.6+	2000 02 11	704	0.0	0.3+
1999 11 08	703	0.1+	1.3+	2000 02 02	704	0.0	0.5+	2000 02 11	704	0.3-	0.4+
1999 11 08	703	0.1-	0.2+	2000 02 02	704	0.2+	0.6+	2000 02 15	809	0.3-	0.2-
1999 11 08	703	0.1+	0.4+	2000 02 04	704	0.1-	0.0	2000 02 15	809	0.4-	0.2-
1999 11 08	703	1.1+	0.4-	2000 02 04	704	0.2-	0.0	2000 02 15	809	0.3-	0.3-
1999 12 05	704	1.8-	0.3+	2000 02 04	704	0.2-	0.5+	2000 02 15	809	0.2-	0.2-
1999 12 05	704	0.1+	0.2-	2000 02 04	704	0.2-	0.2-	2000 02 27	703	0.7-	0.3+
1999 12 05	704	0.2+	1.2-	2000 02 04	704	0.2-	0.1+	2000 02 27	703	0.2+	0.1+
1999 12 05	704	0.8+	0.5-	2000 02 08	704	0.1-	0.0	2000 02 27	703	0.5-	0.0
1999 12 05	704	1.0+	1.4-	2000 02 08	704	0.1+	0.2+	2000 02 27	703	0.1+	0.3+
2000 01 05	704	0.2+	0.3-	2000 02 08	704	0.1+	0.3+	2000 03 05	704	0.4+	0.4-
2000 01 05	704	0.3-	0.2-	2000 02 08	704	0.6+	0.3+	2000 03 05	704	0.7-	1.3-
2000 01 05	704	0.1-	0.8-	2000 02 08	704	0.4+	0.2-	2000 03 05	704	0.4-	0.8-
2000 01 05	704	1.3+	1.4+	2000 02 10	704	0.3-	0.5-	2000 03 05	704	0.4+	1.1+
2000 01 07	704	0.6+	0.2+	2000 02 10	704	0.3+	0.2-				

2000 AT₁₃₁ = 1984 BX₄ = 1998 SY₉₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	240.81321		(2000.0)	P	Q
n	0.17760963	ω	287.13925	-0.82371767	+0.56289008
a	3.1344285	Ω	287.16637	-0.48932932	-0.76644364
e	0.0827132	i	4.09004	-0.28643676	-0.30938474
P	5.55	H	13.3	G 0.15	U 3

Residuals in seconds of arc

1984 01 25	675	1.9+	1.8-	1999 11 14	704	0.1-	0.1+	1999 12 07	704	0.3+	0.3-
1984 01 26	675	2.2-	1.1+	1999 11 14	704	0.3+	0.1-	2000 01 03	704	0.8+	0.5+
1998 09 26	704	1.3+	1.4-	1999 11 14	704	0.3+	0.2+	2000 01 03	704	0.1+	0.9+
1998 09 26	704	1.1-	0.8+	1999 11 16	704	0.1+	0.5+	2000 01 03	704	0.1-	0.2-
1998 09 26	704	0.6-	0.3+	1999 11 16	704	1.0+	0.6-	2000 01 03	704	0.1-	0.5-
1998 09 27	704	0.4+	0.1+	1999 11 16	704	0.9-	0.7-	2000 01 08	704	1.1-	1.1+
1998 09 27	704	0.9+	0.2+	1999 11 16	704	0.5-	0.4-	2000 01 08	704	0.7-	1.0+
1998 09 27	704	0.7+	0.3+	1999 11 16	704	0.3+	0.0	2000 01 08	704	0.2-	0.4+
1998 09 27	704	1.5-	0.4-	1999 12 07	704	0.3+	0.5-	2000 01 08	704	0.1+	0.8+
1999 11 14	704	0.1+	0.2+	1999 12 07	704	0.5+	0.8-	2000 01 08	704	0.6-	0.1-
1999 11 14	704	0.0	0.5-	1999 12 07	704	0.0	0.5-				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	243.04416		(2000.0)	P		Q	
<i>n</i>	0.29841926	ω	176.28475	+0.40196046	+0.91163873		
<i>a</i>	2.2177784	Ω	117.39924	−0.84256701	+0.40488932		
<i>e</i>	0.1506618	<i>i</i>	5.53859	−0.35848098	+0.07056536		
<i>P</i>	3.30	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1988 11 04	327	0.3+	0.7−	2000 01 08	704	0.2+	0.3−
1988 11 04	327	0.5−	1.0+	2000 01 08	704	1.2+	0.4−
1991 09 05	413	0.8−	0.2−	2000 01 10	704	0.1−	0.7−
1991 09 05	413	0.7+	0.6+	2000 01 10	704	1.0+	0.6+
1998 08 31	704	0.7−	0.5−	2000 01 10	704	0.6+	0.8−
1998 08 31	704	1.3−	0.7−	2000 01 10	704	0.4+	0.1+
1998 08 31	704	0.1−	0.5+	2000 01 10	704	1.6+	0.3+
1998 08 31	704	0.1−	0.7−	2000 02 04	704	1.1+	0.4+
1998 11 11	704	0.6+	0.7+	2000 02 04	704	0.2+	0.4+
1998 11 11	704	0.3+	0.5+	2000 02 04	704	0.6+	0.0
1998 11 11	704	0.6+	0.1+	2000 02 04	704	0.3+	0.5−
1999 02 04	704	0.4−	1.1−	2000 02 04	704	0.8−	0.5−
1999 02 04	704	1.4+	0.5−	2000 02 08	865	(2.6−	0.1−)
1999 02 04	704	1.2−	0.2+	2000 02 08	865	1.8−	1.2+
1999 02 04	704	0.3+	0.7+	2000 02 08	865	0.8−	0.8+
1999 12 06	704	0.7−	0.2−	2000 02 09	865	0.8−	1.3−
1999 12 06	704	1.4−	1.5−	2000 02 09	865	0.2−	0.8+
1999 12 06	704	1.0−	0.5−	2000 02 09	865	1.8−	1.8+
2000 01 04	704	0.7−	0.1+	2000 02 09	865	0.7−	0.6+
2000 01 04	704	0.6+	0.1−	2000 02 09	865	0.1−	0.2−
2000 01 04	704	0.1−	0.1+	2000 02 11	704	1.0+	0.1+
2000 01 08	704	0.3+	0.8−	2000 02 11	704	0.1+	0.5+
2000 01 08	704	0.5−	0.5−	2000 02 11	704	0.2+	0.3+
2000 01 08	704	0.8+	0.2+	2000 02 11	704	0.4+	0.3+

2000 AG₁₃₇ = 1997 EA₄₇ = 1998 UH₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	288.23532		(2000.0)	P		Q	
<i>n</i>	0.31509600	ω	235.81201	−0.29272329	+0.95608319		
<i>a</i>	2.1388194	Ω	17.18522	−0.86003009	−0.25650286		
<i>e</i>	0.1179679	<i>i</i>	2.86449	−0.41792501	−0.14181405		
<i>P</i>	3.13	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1997 03 12	809	(2.2+	2.3+)	2000 01 04	704	1.1−	1.4−
1997 03 12	809	(2.2+	2.2+)	2000 01 06	699	0.6+	0.9+
1997 03 12	809	(1.9+	3.2+)	2000 01 06	699	0.4−	0.2+
1997 03 13	809	0.6+	0.5+	2000 01 06	699	0.7+	0.0
1997 03 13	809	(2.4+	0.7+)	2000 01 08	704	0.2+	0.4+
1997 03 13	809	0.2+	0.3+	2000 01 08	704	0.3+	0.5−
1997 04 11	704	0.1−	0.1+	2000 01 08	704	0.4+	0.2+
1997 04 11	704	0.1+	0.6+	2000 02 11	704	0.6+	0.4−
1998 10 20	910	0.1−	0.0	2000 02 11	704	0.7+	0.8+
1998 10 20	910	0.3+	0.2+	2000 02 11	704	0.1−	0.2+
1998 10 20	910	0.1−	0.1+	2000 02 11	704	0.4−	0.2+
1998 10 21	910	0.3−	0.1+	2000 02 11	704	0.4−	0.3+
1998 10 21	910	0.1+	0.1+	2000 02 26	703	0.1−	0.8+
1998 10 21	910	0.0	0.0	2000 02 26	703	0.8−	0.2+
2000 01 04	704	0.6−	0.3+	2000 02 26	703	1.0+	0.5+
2000 01 04	704	0.2+	0.5+	2000 02 26	703	0.3+	0.1−

2000 AU₁₃₇ = 1991 EU₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	358.76125		(2000.0)	P		Q	
<i>n</i>	0.22249458	ω	189.87380	−0.99076054	−0.11946193		
<i>a</i>	2.6972618	Ω	342.86245	+0.13447869	−0.80397596		
<i>e</i>	0.1085466	<i>i</i>	12.58532	+0.01757914	−0.58253885		
<i>P</i>	4.43	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1991 03 11	809	0.6−	0.9−	1999 12 09	703	0.0	0.2+
1991 03 11	809	0.1−	0.8−	1999 12 09	703	1.1+	1.1+
1991 03 11	809	0.4+	0.9−	1999 12 09	703	1.3+	0.2+
1991 03 13	809	1.4−	1.2−	1999 12 09	703	1.2+	1.7−
1991 03 13	809	1.2−	1.0−	2000 01 04	704	0.2−	0.0
1991 03 13	809	0.8−	0.8−	2000 01 04	704	0.8+	1.0+
1998 11 14	704	0.4+	0.2−	2000 01 04	704	0.2+	0.7+
1998 11 14	704	0.1+	0.0	2000 01 04	704	0.1−	0.5+
1998 11 14	704	(3.5+	2.1+)	2000 01 08	704	0.1+	0.5+
1998 11 14	704	0.9−	0.2−	2000 01 08	704	1.1−	0.1−
1998 11 16	704	0.4+	0.3+	2000 01 08	704	0.2+	0.4+
1998 11 16	704	0.6+	0.4+	2000 01 08	704	0.1+	0.3−
1998 11 16	704	0.3−	0.5−	2000 01 08	704	0.2+	0.6−
1998 11 16	704	0.1+	0.4−	2000 02 08	704	1.1+	1.6+
1998 11 16	704	0.2−	0.3+	2000 02 08	704	0.5+	1.2+

2000 AE₁₃₉ = 1998 HJ₁₁₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	73.07217		(2000.0)	P		Q	
<i>n</i>	0.28784308	ω	218.80084	+0.95633363	+0.27179531		
<i>a</i>	2.2717761	Ω	125.09874	−0.22455711	+0.91865863		
<i>e</i>	0.1481884	<i>i</i>	7.54907	−0.18708314	+0.28669431		
<i>P</i>	3.42	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 03 24	704	0.6−	0.7−	1998 05 28	704	0.5−	1.1+
1998 03 24	704	0.7−	0.8−	1998 05 28	704	1.9+	0.0
1998 03 24	704	1.3−	1.3−	1998 05 28	704	(0.1+	2.1+)
1998 03 24	704	0.5−	1.4−	1998 05 28	704	0.3−	0.4−
1998 03 24	704	0.7−	0.8−	1998 05 28	704	(7.6−	3.6+)
1998 04 21	704	1.6+	1.7+	1999 10 02	704	0.3+	0.1−
1998 04 21	704	1.9−	0.3−	1999 10 02	704	0.4+	0.0
1998 04 21	704	1.0+	0.0	1999 10 02	704	0.4+	0.3+
1998 04 21	704	0.5−	0.5+	1999 10 02	704	0.0	0.5+
1998 04 21	704	0.8+	0.4+	1999 10 02	704	0.4+	0.3−
1998 04 23	704	0.0	0.7+	1999 11 02	703	0.0	0.3+
1998 04 23	704	0.9+	0.2−	1999 11 02	703	0.8−	0.8+
1998 04 23	704	0.6+	0.8+	1999 11 02	703	1.4−	2.0−
1998 04 23	704	0.5+	0.2+	1999 11 02	703	0.2−	0.3+
1998 04 23	704	1.0−	0.4−	1999 11 07	704	0.2−	0.4−
1998 04 24	704	0.8+	0.4+	1999 11 07	704	0.4−	0.5−
1998 04 24	704	0.3+	1.6+	1999 11 07	704	0.1+	0.2−
1998 04 24	704	1.3+	0.9−	1999 11 07	704	0.0	0.7−
1998 04 24	704	0.1−	0.2+	1999 11 07	704	0.5+	0.0
1998 04 24	704	1.0−	0.9+	1999 12 03	704	0.3−	0.1−

2000 AX₁₃₉ = 1998 HT₁₂₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	76.45081		(2000.0)	P		Q	
<i>n</i>	0.27079567	ω	212.47903	+0.95556832	+0.28034015		
<i>a</i>	2.3661462	Ω	130.96258	−0.23806616	+0.91620880		
<i>e</i>	0.1342636	<i>i</i>	6.92879	−0.17382083	+0.28630550		
<i>P</i>	3.64	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

2000 MAR. 20

M.P.C. 39349

Residuals in seconds of arc

1998 04 23	704	0.2+	0.5-	1998 05 23	704	0.3-	0.4+	2000 01 05	704	0.3+	0.7+
1998 04 23	704	0.5+	0.4-	1998 05 23	704	0.9+	0.2-	2000 01 06	699	1.1+	0.1+
1998 04 23	704	0.3-	1.3-	1999 12 14	704	0.9-	0.8-	2000 01 06	699	0.0	0.4-
1998 04 23	704	0.8-	1.8+	1999 12 14	704	0.3+	0.8+	2000 01 06	699	1.1-	0.1+
1998 04 24	704	0.0	0.5-	1999 12 14	704	0.1-	0.1+	2000 01 08	704	0.3+	0.6-
1998 04 24	704	0.8-	0.3+	1999 12 14	704	0.3-	0.7+	2000 01 08	704	0.6+	0.5-
1998 04 24	704	0.8+	1.0+	2000 01 05	704	0.1-	0.4+	2000 01 08	704	0.4+	0.3-
1998 05 23	704	1.0-	0.7-	2000 01 05	704	0.7-	0.3+	2000 01 08	704	0.3+	0.3-
1998 05 23	704	0.4+	0.9+	2000 01 05	704	0.5+	0.4+	2000 01 08	704	0.1-	0.1-
1998 05 23	704	0.6+	0.2-	2000 01 05	704	0.5-	0.1-				

2000 AC₁₄₀ = 1997 CH₁₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	64.99075		(2000.0)	P	Q
<i>n</i>	0.27616912	ω	224.23233	+0.98100962	+0.16527646
<i>a</i>	2.3353535	Ω	125.98818	-0.12400166	+0.93685357
<i>e</i>	0.2417859	<i>i</i>	7.20684	-0.14914326	+0.30820298
<i>P</i>	3.57	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1997 02 03	691	0.1-	0.2+	1999 10 04	703	0.2-	0.0	1999 12 08	699	0.3+	1.7+
1997 02 03	691	0.1-	0.2-	1999 10 04	703	0.4-	0.1+	1999 12 14	704	0.7-	0.1+
1997 02 03	691	0.4-	0.1-	1999 10 31	703	0.0	1.6-	1999 12 14	704	0.5-	0.3+
1997 02 07	691	0.6+	0.1+	1999 10 31	703	0.4-	0.9+	1999 12 14	704	0.1+	0.3+
1997 02 07	691	0.6+	0.2-	1999 10 31	703	0.2-	1.1+	1999 12 14	704	0.5+	0.0
1997 02 07	691	0.7-	0.1-	1999 10 31	703	0.4-	0.3+	1999 12 14	704	0.1-	0.1-
1998 04 23	704	1.1+	1.6+	1999 11 13	699	0.7-	0.2+	2000 01 05	704	0.4+	0.4-
1998 04 23	704	0.1+	0.7+	1999 11 13	699	0.3-	0.0	2000 01 05	704	1.0+	0.3-
1998 04 23	704	0.1+	0.1+	1999 11 13	699	0.5-	0.3+	2000 01 05	704	1.1-	1.0-
1998 04 23	704	0.3-	0.5+	1999 12 03	704	0.0	0.7-	2000 01 05	704	0.5+	0.2-
1999 09 13	703	0.6-	0.8+	1999 12 03	704	0.2-	1.3-	2000 01 05	704	0.9+	0.2+
1999 09 13	703	0.0	0.0	1999 12 03	704	0.1+	0.2-	2000 01 08	704	0.1-	0.1-
1999 09 13	703	1.0+	0.0	1999 12 03	704	0.1-	1.1-	2000 01 08	704	0.4+	0.4+
1999 09 13	703	0.0	0.1-	1999 12 03	704	0.7-	0.3-	2000 01 08	704	0.2+	0.5-
1999 10 04	703	0.1-	0.1+	1999 12 08	699	1.7+	1.6+	2000 01 08	704	0.7+	0.5+
1999 10 04	703	0.1-	0.1-	1999 12 08	699	0.1+	1.5+	2000 01 08	704	0.2+	0.2+

2000 AB₁₄₄ = 1978 CJ

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	93.04781		(2000.0)	P	Q
<i>n</i>	0.36032978	ω	96.70677	+0.63436537	-0.73525417
<i>a</i>	1.9558518	Ω	311.00587	+0.52307116	+0.63563204
<i>e</i>	0.1385985	<i>i</i>	18.44054	+0.56918989	+0.23531514
<i>P</i>	2.74	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1978 02 02	675	0.1-	0.3-	2000 01 08	704	0.2-	0.4-	2000 02 13	704	0.1+	0.5+
1978 02 03	675	0.7-	0.9-	2000 01 08	704	0.3+	0.2-	2000 03 04	703	0.4-	0.3-
1999 12 05	704	1.0+	0.5-	2000 01 08	704	0.4+	0.1+	2000 03 04	703	0.4-	0.5-
1999 12 05	704	0.2-	0.7-	2000 01 08	704	0.0	0.2+	2000 03 04	703	0.7-	0.5-
1999 12 05	704	0.7-	0.5+	2000 02 07	703	0.0	0.9+	2000 03 04	703	0.5-	0.3-
1999 12 05	704	0.8-	0.1-	2000 02 07	703	0.9-	0.2+	2000 03 08	704	0.2-	0.3-
1999 12 05	704	0.7+	0.5-	2000 02 07	703	0.0	0.3+	2000 03 08	704	0.0	0.0
2000 01 05	704	0.1-	0.3-	2000 02 07	703	0.2-	0.0	2000 03 08	704	0.4+	0.2+
2000 01 05	704	0.1+	0.0	2000 02 08	704	0.3-	0.1+	2000 03 08	704	0.3+	0.2-
2000 01 05	704	0.2-	0.5-	2000 02 08	704	0.3+	0.2+	2000 03 08	704	0.2+	0.2-
2000 01 05	704	0.1-	0.8-	2000 02 08	704	0.0	0.5+	2000 03 13	704	0.0	0.1+
2000 01 06	699	0.6+	0.8+	2000 02 08	704	0.3+	1.1+	2000 03 13	704	0.5-	0.2-
2000 01 06	699	0.7+	1.2+	2000 02 08	704	0.4+	0.8+	2000 03 13	704	0.2-	0.1-
2000 01 06	699	(0.1+	2.2+)	2000 02 13	704	0.6+	0.1+	2000 03 13	704	0.4+	0.8-
2000 01 08	704	0.2+	0.4-	2000 02 13	704	0.6+	0.7+	2000 03 13	704	0.1+	0.4-

2000 AG₁₄₄ = 1974 PD

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	109.79463		(2000.0)	P	Q
<i>n</i>	0.28505129	ω	58.80038	+0.89453048	-0.36271894
<i>a</i>	2.2865851	Ω	320.68225	+0.11170423	+0.74728180
<i>e</i>	0.3279317	<i>i</i>	24.34996	+0.43282490	+0.55678083
<i>P</i>	3.46	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1974 08 12	675	0.3+	0.1+	2000 02 02	704	0.2-	0.4-	2000 03 08	704	0.2+	0.1+
1974 08 13	675	0.1-	0.2-	2000 02 02	704	0.4+	0.2-	2000 03 08	704	0.2-	0.0
1974 08 14	675	0.5+	0.7-	2000 02 02	704	0.3+	0.3-	2000 03 08	704	0.5+	0.1+
1974 08 16	675	0.1+	0.0	2000 02 07	704	0.3-	1.2-	2000 03 08	704	0.6+	0.1+
1999 12 05	699	1.1-	0.5+	2000 02 07	704	0.4+	0.6-	2000 03 12	704	0.3-	0.2+
1999 12 05	699	1.5-	0.8+	2000 02 07	704	0.4-	0.5-	2000 03 12	704	0.2-	0.1+
1999 12 05	699	0.2-	1.1+	2000 02 07	704	0.4+	0.6+	2000 03 12	704	0.2-	0.2+
2000 01 05	704	0.1+	0.6-	2000 02 07	704	1.0+	0.9+	2000 03 12	704	0.0	0.6-
2000 01 05	704	0.6+	0.7-	2000 02 08	704	0.3+	0.8+	2000 03 12	704	0.1+	0.0
2000 01 05	704	0.5+	1.1-	2000 02 08	704	0.4-	0.6+	2000 03 13	704	0.2-	0.7-
2000 01 05	704	1.0+	0.4-	2000 02 08	704	0.0	0.2-	2000 03 13	704	1.0-	1.0+
2000 01 08	704	0.0	0.3+	2000 02 08	704	0.1+	0.4-	2000 03 13	704	0.6-	0.3+
2000 01 08	704	0.6-	0.1-	2000 02 08	704	0.2-	0.3+	2000 03 13	704	0.7+	0.4-
2000 01 08	704	0.9-	0.5-	2000 03 01	703	0.3-	0.1+	2000 03 14	703	0.2+	0.1+
2000 01 08	704	0.2+	0.5-	2000 03 01	703	0.1-	0.4+	2000 03 14	703	0.5-	0.5+
2000 01 08	704	0.3-	1.3-	2000 03 01	703	0.2-	0.0	2000 03 14	703	0.2-	0.1-
2000 02 02	704	0.2+	0.2+	2000 03 01	703	0.2-	0.2+	2000 03 14	703	0.4-	0.5+
2000 02 02	704	0.3+	0.8-	2000 03 08	704	0.6+	0.1-				

2000 AH₁₄₄ = 2000 CF₅₃ = 1975 GV = 1998 XG₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	300.19243		(2000.0)	P	Q
<i>n</i>	0.27360472	ω	43.15637	-0.48878210	+0.87235326
<i>a</i>	2.3499232	Ω	197.58989	-0.80879776	-0.45723490
<i>e</i>	0.1974054	<i>i</i>	1.81735	-0.32701413	-0.17302031
<i>P</i>	3.60	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1975 04 15	805	1.0-	1.3+	2000 01 05	704	0.8-	0.6-	2000 02 06	704	0.3+	0.2-
1975 04 20	805	1.2+	0.4-	2000 01 05	704	0.0	0.4-	2000 02 06	704	0.0	0.3-
1998 11 18	704	0.5+	1.4-	2000 01 06	699	0.5+	0.4+	2000 02 29	704	0.3+	0.1+
1998 11 18	704	0.7-	1.6-	2000 01 06	699	0.7+	0.2+	2000 02 29	704	0.7-	0.5-
1998 11 18	704	0.9-	0.7+	2000 01 06	699	0.5+	0.3+	2000 02 29	704	0.2-	0.3-
1998 11 18	704	(7.6-	0.9+)	2000 01 08	704	0.0	0.4-	2000 02 29	704	0.3+	0.1+
1998 12 08	910	0.4+	0.2+	2000 01 08	704	0.0	0.2+	2000 02 29	704	0.1-	0.1-
1998 12 08	910	0.3+	0.4+	2000 01 08	704	0.9+	0.9-	2000 03 03	704	0.4-	0.1-
1998 12 08	910	0.5+	0.3-	2000 01 08	704	0.2-	1.1+	2000 03 03	704	0.7-	0.1+
1998 12 15	910	0.0	0.6+	2000 01 08	704	0.7+	0.7-	2000 03 03	704	0.7-	0.0
1998 12 15	910	0.0	0.7+	2000 02 02	704	0.1-	0.5+	2000 03 03	704	0.4-	0.4+
1998 12 15	910	0.0	0.7+	2000 02 02	704	0.1-	0.5+	2000 03 11	704	0.1-	0.7-
1999 12 05	699	0.2-	1.0+	2000 02 02	704	0.1+	0.8+	2000 03 11	704	0.1+	0.5-
1999 12 05	699	0.1+	0.4+	2000 02 02	704	0.1+	0.5+	2000 03 11	704	0.0	0.5-
1999 12 05	699	0.9-	0.2-	2000 02 02	704	0.0	0.7+	2000 03 11	704	0.2+	0.7-
2000 01 05	704	0.0	0.1-	2000 02 06	704	0.3+	0.0	2000 03 11	704	0.0	0.7-
2000 01 05	704	0.7+	0.3+	2000 02 06	704	0.0	0.1+				

2000 AW₁₄₄ = 1994 JR₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	345.78900		(2000.0)	P	Q
<i>n</i>	0.16944457	ω	37.36023	-0.96587673	+0.25880965
<i>a</i>	3.2343296	Ω	157.63304	-0.24351411	-0.89431143
<i>e</i>	0.2980827	<i>i</i>	1.50359	-0.08822139	-0.36499951
<i>P</i>	5.82	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1994 05 02	691	0.1+	0.1-	2000 02 27	120	0.2-	1.9-	2000 03 08	704	0.0	0.6+
1994 05 02	691	0.0	0.4+	2000 02 27	120	0.9-	1.0-	2000 03 11	704	0.3+	0.3-
1994 05 02	691	0.1+	0.2+	2000 02 28	120	0.1+	1.0-	2000 03 11	699	0.1-	0.3-
1994 05 05	691	0.0	0.2-	2000 02 29	704	0.6+	0.0	2000 03 11	704	0.3+	0.0
1994 05 05	691	0.2-	0.5-	2000 02 29	704	0.1-	0.1+	2000 03 11	704	0.1+	0.2+
1994 05 05	691	0.1-	0.3-	2000 02 29	704	0.1+	0.8+	2000 03 11	699	0.4-	0.1-
2000 01 05	704	0.4-	0.5-	2000 02 29	704	0.1+	0.1+	2000 03 11	704	0.2+	0.2-
2000 01 05	704	0.2+	0.9+	2000 02 29	704	0.5+	1.0+	2000 03 11	699	0.4+	0.4-
2000 01 05	704	0.2-	1.4-	2000 03 03	704	0.2+	0.2-	2000 03 11	704	0.2+	0.4+
2000 01 05	704	0.7+	0.3+	2000 03 03	704	0.5-	0.1+	2000 03 11	699	0.1+	0.3-
2000 01 08	704	0.3-	0.1-	2000 03 03	704	0.2-	0.4+	2000 03 15	704	0.2-	0.2-
2000 01 08	704	0.5-	0.6+	2000 03 03	704	0.6-	0.3+	2000 03 15	704	0.3-	0.2-
2000 01 08	704	0.6+	0.6+	2000 03 03	704	0.8-	0.8+	2000 03 15	704	0.3+	0.1+
2000 02 27	703	0.0	0.2+	2000 03 08	704	0.6+	0.4+	2000 03 15	704	0.1-	0.1+
2000 02 27	703	0.3+	0.0	2000 03 08	704	0.1-	0.3+	2000 03 15	704	0.0	0.1+
2000 02 27	703	0.0	0.1+	2000 03 08	704	0.3+	0.1+				
2000 02 27	703	0.2+	0.1-	2000 03 08	704	0.3-	0.1-				

2000 AX₁₄₅ = 1981 VP = 1990 UD₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	12.32220		(2000.0)		P		Q
<i>n</i>	0.21751904	ω	177.23636		+0.70785930		-0.70114851
<i>a</i>	2.7382380	Ω	227.68319		+0.64582634		+0.69151140
<i>e</i>	0.2113077	<i>i</i>	6.64708		+0.28608311		+0.17378940
<i>P</i>	4.53	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1981 10 23	095	0.2+	0.1+	1999 10 20	704	0.1+	0.1+	1999 11 16	704	0.6+	0.2-
1981 11 02	688	1.3+	1.7-	1999 10 20	704	0.2+	0.1+	1999 11 16	704	0.1-	1.0-
1981 11 02	688	(0.4+	4.7-)	1999 10 20	704	0.2+	0.1+	1999 11 27	699	0.5-	1.1+
1981 11 05	688	(3.6-	4.4-)	1999 10 20	704	0.3-	0.0	1999 11 27	699	0.8+	0.8+
1981 11 05	688	(5.2-	8.1-)	1999 10 30	703	0.1-	0.3+	1999 11 27	699	0.4+	1.6+
1990 10 24	046	1.3-	0.8-	1999 10 30	703	0.1-	0.1+	1999 12 07	704	0.3+	0.5+
1990 10 24	046	1.0-	0.4+	1999 10 30	703	0.0	0.5+	1999 12 07	704	0.2+	0.1+
1999 07 23	704	0.7+	0.8+	1999 10 30	703	0.1+	0.1+	1999 12 07	704	0.3+	0.3+
1999 07 23	704	0.2+	1.3+	1999 11 05	704	0.1-	0.4-	1999 12 07	704	0.1+	0.5+
1999 07 23	704	0.9-	0.8+	1999 11 05	704	0.5-	0.6-	1999 12 07	704	0.4+	0.9+
1999 09 18	704	0.5+	0.1+	1999 11 05	704	0.4-	0.5-	2000 01 07	704	0.1+	0.5+
1999 09 18	704	0.1-	0.0	1999 11 05	704	0.4-	0.4-	2000 01 07	704	0.7+	0.2+
1999 09 18	704	0.5-	0.2+	1999 11 05	704	1.2-	1.2-	2000 01 07	704	0.0	0.4+
1999 09 18	704	0.2+	1.1-	1999 11 14	704	0.1+	0.4+	2000 01 07	704	0.4-	0.3+
1999 09 18	704	0.9-	0.5-	1999 11 14	704	0.2+	0.1+	2000 01 07	704	0.2-	0.4+
1999 10 03	704	0.4-	0.1-	1999 11 14	704	0.8+	0.3-	2000 01 09	704	0.3-	1.0+
1999 10 03	704	0.3-	0.4-	1999 11 14	704	0.3+	0.2+	2000 01 09	704	0.2+	0.0
1999 10 03	704	0.2-	0.4-	1999 11 14	704	0.1+	0.7-	2000 01 09	704	0.9-	0.1+
1999 10 03	704	0.6-	0.3-	1999 11 16	704	1.2+	0.2+	2000 01 09	704	0.7-	0.1+
1999 10 03	704	0.5-	0.2-	1999 11 16	704	0.8+	0.3-	2000 01 09	704	0.4-	0.0
1999 10 20	704	0.0	0.3+	1999 11 16	704	2.0+	0.6-				

2000 AA₁₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	193.42270		(2000.0)		P		Q
<i>n</i>	0.24354742	ω	328.63455		+0.62274528		+0.77849937
<i>a</i>	2.5394930	Ω	339.54471		-0.66347451		+0.47239522
<i>e</i>	0.1538315	<i>i</i>	12.94286		-0.41471663		+0.41325717
<i>P</i>	4.05	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 01	699	0.4-	0.1-	1998 12 09	704	0.6-	1.9-	2000 01 08	411	0.5+	0.6-
1998 10 01	699	0.3-	0.1+	1999 01 09	699	0.6-	0.2+	2000 01 28	411	0.5-	0.2-
1998 10 01	699	0.4-	0.3+	1999 01 09	699	0.8+	0.7+	2000 01 28	411	1.1-	0.2-
1998 11 14	704	0.7-	0.1-	1999 01 09	699	0.4-	0.8+	2000 01 30	704	0.3-	0.5+
1998 11 14	704	0.1+	0.0	2000 01 03	704	0.2-	0.1+	2000 01 30	704	0.2-	0.3+
1998 11 14	704	0.1-	0.2-	2000 01 03	704	0.4+	0.1+	2000 01 30	704	0.2+	0.5+
1998 11 14	704	0.1+	0.0	2000 01 03	704	0.5+	0.4-	2000 01 30	704	0.3+	1.2+

1998 11 14	704	0.0	0.1+	2000 01 03	704	0.4+	0.3+	2000 02 11	704	0.2+	0.4+
1998 11 15	699	0.1-	0.2+	2000 01 03	704	0.4-	1.1-	2000 02 11	704	0.2-	0.1+
1998 11 15	699	0.1-	0.3+	2000 01 03	704	0.2+	0.8-	2000 02 11	704	0.3+	0.0
1998 11 15	699	0.3-	0.6+	2000 01 03	704	0.4-	0.9-	2000 02 11	704	0.3+	0.1+
1998 11 16	704	0.4+	0.1+	2000 01 03	704	0.1-	0.1+	2000 02 11	704	0.1-	0.1-
1998 11 16	704	0.4+	0.0	2000 01 03	704	0.3-	0.5-	2000 03 01	411	1.1-	1.5-
1998 11 16	704	0.7+	0.1-	2000 01 03	704	0.6+	1.0-	2000 03 01	411	1.5-	0.1-
1998 11 16	704	1.2+	0.7-	2000 01 04	411	(1.0-	2.0+)	2000 03 04	704	0.0	0.2+
1998 11 16	704	0.5+	0.7-	2000 01 04	411	0.8-	1.9+	2000 03 04	704	0.3+	0.0
1998 12 09	704	0.8-	1.5+	2000 01 06	699	1.0+	0.7+	2000 03 04	704	0.3+	0.5+
1998 12 09	704	1.0+	0.5-	2000 01 06	699	0.4+	0.5-	2000 03 04	704	0.7+	0.4+
1998 12 09	704	0.8-	0.2-	2000 01 06	699	0.2-	0.7+	2000 03 04	704	0.6+	0.4+
1998 12 09	704	(3.0+	1.2-)	2000 01 08	411	0.1+	1.0-				

2000 AU₁₅₀ = 1988 XA₃

Id. A. Gnädig

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	8.22515		(2000.0)		P		Q
<i>n</i>	0.27400817	ω	330.40631		-0.55598340		-0.82707431
<i>a</i>	2.3476159	Ω	153.11328		+0.79399667		-0.55788287
<i>e</i>	0.1832260	<i>i</i>	10.53029		+0.24586935		-0.06866429
<i>P</i>	3.60	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1988 10 08	675	1.1+	1.6-	2000 01 04	699	1.0+	0.1-	2000 02 04	704	0.3+	0.1+
1988 10 08	675	1.1-	0.2+	2000 01 04	699	0.8+	0.1+	2000 02 04	704	0.4-	0.1-
1988 12 07	033	0.0	0.2+	2000 01 08	704	0.1-	0.2-	2000 02 04	704	0.5+	0.6+
1988 12 07	033	0.1+	0.2-	2000 01 08	704	0.0	0.1-	2000 02 04	704	0.3-	0.4+
1998 08 23	699	0.9-	0.9+	2000 01 08	704	0.2+	0.3+	2000 02 12	704	0.1+	0.3-
1998 08 23	704	1.1-	1.9+	2000 01 08	704	0.3-	0.1+	2000 02 12	704	0.2-	1.0+
1998 08 23	704	(2.4-	0.6+)	2000 01 09	704	0.1-	0.0	2000 02 12	704	0.2-	0.3+
1998 08 23	699	0.2+	0.1+	2000 01 09	704	0.1-	0.4+	2000 02 12	704	0.1-	0.2+
1998 08 23	704	0.9+	1.5+	2000 01 09	704	0.0	0.8+	2000 02 12	704	0.3-	0.5+
1998 08 23	699	0.1+	0.3+	2000 01 10	704	0.0	0.1-	2000 02 13	704	0.1+	0.5-
1998 08 23	704	(4.4-	0.7+)	2000 01 10	704	0.2-	0.1-	2000 02 13	704	0.6-	0.4-
1999 10 20	704	(1.1-	2.5-)	2000 01 10	704	0.4-	0.1-	2000 02 13	704	0.0	0.5+
1999 10 20	704	0.2+	0.6-	2000 01 10	704	0.1-	0.1+	2000 02 13	106	0.1+	0.2-
1999 10 20	704	1.2-	1.0-	2000 01 10	704	0.7-	0.7-	2000 02 13	106	0.8+	0.0
1999 12 05	704	0.2-	0.2+	2000 01 11	704	0.2-	0.2-	2000 02 13	106	0.1-	0.5+
1999 12 05	704	0.3+	0.2+	2000 01 11	704	0.1-	0.1-	2000 03 09	704	0.1+	0.4+
1999 12 05	704	0.3-	0.4+	2000 01 11	704	0.4-	0.4-	2000 03 09	704	0.1+	0.5+
1999 12 05	704	0.8+	0.8+	2000 01 11	704	0.0	0.0	2000 03 09	704	0.2-	0.2+
1999 12 05	704	0.7+	0.2-	2000 01 11	704	0.1-	0.4-	2000 03 09	704	0.2+	0.1-
2000 01 04	699	0.8+	0.0	2000 02 04	704	0.4-	0.1+	2000 03 09	704	0.1+	0.5+

2000 AH₁₅₃ = 1991 RT₃₅ = 1998 OR₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	73.09616		(2000.0)		P		Q
<i>n</i>	0.27795570	ω	106.62808		+0.49449253		-0.86279014
<i>a</i>	2.3253357	Ω	313.25192		+0.73222277		+0.47873435
<i>e</i>	0.1333966	<i>i</i>	8.30588		+0.46832355		+0.16250109
<i>P</i>	3.55	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 09 14	675	0.2+	0.4+	2000 01 11	651	0.5-	0.3-	2000 02 12	704	0.5-	0.9-

2000 MAR. 20

2000 01 07	704	0.0	0.6−	2000 02 04	704	0.5+	0.2+	2000 03 05	704	0.1+	0.0
2000 01 07	704	0.5−	1.0−	2000 02 04	704	0.6+	0.8−	2000 03 05	704	0.5+	1.1+
2000 01 07	704	1.4−	0.9+	2000 02 04	651	0.5−	0.1−	2000 03 05	704	0.3+	0.1+
2000 01 09	651	0.2−	0.4−	2000 02 04	651	0.2−	0.4−	2000 03 05	704	0.1+	0.7+
2000 01 09	651	0.0	0.1−	2000 02 04	651	0.1−	0.4−				
2000 01 09	651	0.2−	0.3−	2000 02 12	704	(0.6+	2.4−)				

2000 AW₁₅₄ = 1998 RR₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	98.68458		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.16975681	<i>ω</i>	288.42556	+0.91446115		+0.39890514	
<i>a</i>	3.2303624	<i>Ω</i>	48.12628	−0.32814353		+0.82941012	
<i>e</i>	0.0909539	<i>i</i>	5.24619	−0.23681770		+0.39109277	
<i>P</i>	5.81	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 23	704	0.2+	0.4+	1999 11 03	704	0.5+	0.1+	1999 12 07	704	0.1−	0.3−
1998 08 23	704	1.6−	1.9+	1999 11 03	704	0.6+	0.3+	1999 12 07	704	0.2−	0.1−
1998 08 23	704	0.4−	0.4−	1999 11 03	704	0.3−	0.5+	1999 12 07	704	0.2−	0.0
1998 08 23	704	(2.5−	2.8+)	1999 11 03	704	0.9+	0.0	1999 12 07	704	0.0	0.4+
1998 09 14	704	0.2+	0.8−	1999 11 14	704	0.1+	0.2−	2000 01 03	704	0.1+	0.1−
1998 09 14	704	0.1+	0.2−	1999 11 14	704	0.0	0.1+	2000 01 03	704	0.3−	0.4+
1998 09 14	704	0.1−	0.1+	1999 11 14	704	0.1+	0.0	2000 01 03	704	0.7+	0.9−
1998 09 14	704	0.4+	0.5−	1999 11 14	704	0.2−	0.4−	2000 01 03	704	0.6−	0.2+
1998 09 18	704	0.4+	1.1−	1999 11 14	704	0.1−	0.2−	2000 01 04	704	1.8+	0.2−
1998 09 18	704	0.6−	0.3+	1999 11 16	704	1.1+	0.1+	2000 01 04	704	0.9−	0.6+
1998 09 18	704	1.0+	0.8−	1999 11 16	704	0.9−	0.7−	2000 01 04	704	0.3−	0.8+
1998 09 18	704	0.0	0.9+	1999 11 16	704	0.1+	0.2−	2000 01 04	704	0.6−	0.0
1998 09 18	704	0.5+	0.1+	1999 11 16	704	1.6−	0.0	2000 01 04	704	0.2+	0.7−
1999 11 03	704	0.6+	0.8+	1999 12 07	704	0.2−	0.1−				

2000 AJ₁₅₈ = 1996 GJ₁₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	2.41087		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.21726073	<i>ω</i>	40.07347	−0.49148299		−0.86751785	
<i>a</i>	2.7404080	<i>Ω</i>	79.49106	+0.77776701		−0.47677026	
<i>e</i>	0.1465453	<i>i</i>	4.46432	+0.39182004		−0.14178471	
<i>P</i>	4.54	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 04 14	691	0.7−	0.3−	2000 01 03	704	0.4−	0.4+	2000 01 30	704	0.2+	0.7+
1996 04 14	691	0.9−	0.1−	2000 01 03	704	0.1−	0.6+	2000 01 30	704	0.4−	1.0−
1996 04 14	691	0.8−	0.4−	2000 01 03	704	0.8−	0.6+	2000 01 30	704	1.1−	1.3−
1996 04 22	691	1.0+	0.3−	2000 01 04	704	0.5−	0.0	2000 01 31	704	0.2+	0.3−
1996 04 22	691	0.8+	0.5+	2000 01 04	704	0.1+	0.7−	2000 01 31	704	0.7+	0.8+
1996 04 22	691	0.7+	0.6+	2000 01 04	704	1.0+	0.9−	2000 01 31	704	0.6+	0.7+
2000 01 03	704	1.3−	0.5−	2000 01 04	704	0.6+	0.3−				
2000 01 03	704	0.5−	0.2−	2000 01 04	704	1.7+	1.5+				

2000 AS₁₆₁ = 1990 BE₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	186.74586		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.27492439	<i>ω</i>	293.17081	−0.46520626		+0.88119323	
<i>a</i>	2.3423972	<i>Ω</i>	308.83401	−0.76752340		−0.44889696	
<i>e</i>	0.0768998	<i>i</i>	6.20182	−0.44101130		−0.14829027	
<i>P</i>	3.59	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1990 01 29	033	0.2−	0.0	1999 11 09	699	0.1−	0.7+	1999 12 08	704	0.8−	1.1−
1990 01 29	033	0.2+	0.1+	1999 11 09	699	0.2+	0.0	2000 01 04	704	0.7−	0.7+
1999 09 04	703	0.1+	0.9+	1999 11 10	703	0.1+	0.1−	2000 01 04	704	0.5−	0.1−
1999 09 04	703	0.6+	0.6+	1999 11 10	703	0.1+	0.2+	2000 01 04	704	0.4+	0.9+
1999 09 04	703	0.1+	0.8+	1999 11 10	703	0.0	0.6+	2000 01 04	704	(0.6+	2.6+)

M.P.C. 39351

1999 09 04	703	0.1+	0.1−	1999 11 10	703	0.2−	0.7+	2000 01 06	704	0.6+	0.4+
1999 10 05	704	1.1−	0.4−	1999 12 03	699	0.2−	0.2+	2000 01 06	704	0.4−	0.7+
1999 10 05	704	0.6−	0.6−	1999 12 03	699	0.3−	1.3+	2000 01 06	704	0.3−	0.1+
1999 10 05	704	0.5−	0.7−	1999 12 03	699	0.3−	0.2−	2000 01 06	704	0.2+	0.1+
1999 10 05	704	0.5−	0.7−	1999 12 05	703	0.3+	0.0	2000 01 06	704	0.2+	1.3+
1999 10 05	704	0.0	0.4+	1999 12 05	703	0.3+	0.3+	2000 01 09	704	0.3+	0.0
1999 11 03	704	0.7+	0.1+	1999 12 05	703	0.9−	1.4−	2000 01 09	704	0.3+	0.5−
1999 11 03	704	0.7+	0.2−	1999 12 05	703	0.2+	0.4−	2000 01 09	704	0.2+	0.0
1999 11 03	704	0.7+	0.4−	1999 12 08	704	0.0	0.9−	2000 01 09	704	0.2+	0.1+
1999 11 03	704	0.8+	0.2−	1999 12 08	704	0.2−	1.0−	2000 01 09	704	1.0+	0.5−
1999 11 03	704	0.6+	0.6−	1999 12 08	704	0.7−	0.3−				
1999 11 09	699	0.2−	0.7+	1999 12 08	704	0.2−	0.7−				

2000 AC₁₆₂ = 2000 BK₂₅ = 1982 PH₁ = 1998 TZ₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>	248.63383		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.25616940	<i>ω</i>	316.93609	−0.18868370		+0.98126647	
<i>a</i>	2.4553753	<i>Ω</i>	302.15228	−0.88805679		−0.18741032	
<i>e</i>	0.1857883	<i>i</i>	2.63466	−0.41922977		−0.04464850	
<i>P</i>	3.85	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1982 08 15	095	0.2−	0.5+	2000 01 04	704	0.3−	0.1−	2000 01 30	704	0.3−	0.5+
1998 10 10	699	0.2−	0.6+	2000 01 04	704	0.7+	0.2−	2000 01 30	704	0.5−	0.5+
1998 10 10	699	0.2−	0.3+	2000 01 04	704	1.1−	1.6−	2000 01 30	704	0.0	0.2+
1998 10 10	699	0.3+	0.7+	2000 01 06	704	1.0+	0.8−	2000 02 03	704	0.5−	0.3+
1998 10 19	699	0.6−	0.5−	2000 01 06	704	0.3+	0.3−	2000 02 03	704	0.5−	0.4+
1998 10 19	699	0.9+	0.7−	2000 01 06	704	0.5+	0.2−	2000 02 03	704	1.4+	1.1+
1998 10 19	699	0.2−	0.2−	2000 01 06	704	0.0	0.8−	2000 02 03	704	0.7−	0.7+
2000 01 04	704	0.3+	0.5−	2000 01 06	704	0.4+	0.9−	2000 02 03	704	0.3−	0.9+
2000 01 04	704	0.2−	0.9+	2000 01 30	704	0.2−	0.3+				

2000 AU₁₆₂ = 1998 VR₁

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	56.80627		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.26723763	<i>ω</i>	64.99738	+0.09102013		−0.99572242	
<i>a</i>	2.3871020	<i>Ω</i>	19.79974	+0.89594070		+0.07491647	
<i>e</i>	0.1660151	<i>i</i>	2.68712	+0.43474775		+0.05407751	
<i>P</i>	3.69	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 09	910	0.2−	0.5−	2000 02 14	012	0.2+	0.2+	2000 02 28	012	0.1−	0.4−
1998 11 09	910	0.6−	0.3−	2000 02 14	012	0.1−	0.1−	2000 02 28	012	0.4−	0.1−
1998 11 09	910	0.1+	0.2−	2000 02 14	012	0.2−	0.3+	2000 02 28	012	0.4−	0.0
1998 11 11	910	0.2+	0.7+	2000 02 14	012	0.3+	0.1−	2000 03 02	012	0.3−	0.1+
1998 11 11	910	0.4+	0.0	2000 02 14	012	0.8+	0.9−	2000 03 02	012	0.1+	0.2−
1998 11 11	910	0.2+	0.1+	2000 02 25	012	0.3−	0.0	2000 03 02	012	0.6−	0.3−
2000 01 04	704	0.3+	0.4+	2000 02 25	012	0.2−	0.0	2000 03 02	012	0.5−	0.1+
2000 01 04	704	1.5−	0.2−	2000 02 25	012	0.1−	0.1−	2000 03 02	012	0.3−	0.2−
2000 01 04	704	1.1+	0.5−	2000 02 25	012	0.0	0.1−	2000 03 12	704	0.4+	0.3+
2000 01 07	704	0.3−	0.4+	2000 02 25	012	0.3−	0.2−	2000 03 12	704	0.1+	0.6+
2000 01 07	704	0.2+	0.3+	2000 02 28	012	1.0+	0.7−	2000 03 12	704	0.3+	0.3+
2000 01 07	704	0.2−	0.8+	2000 02 28	012	0.4−	0.1−	2000 03 12	704	0.1+	0.3+
2000 01 07	704	0.7+	0.3−	2000 02 28	012	0.0	0.1−	2000 03 12	704	0.7+	0.5+

2000 AK₁₆₄ = 1993 SC₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	318.20911		(2000.0)	P	Q
n	0.23537113	ω	35.30681	-0.72224786	+0.69071207
a	2.5979688	Ω	188.65810	-0.67650146	-0.71624319
e	0.1102447	i	13.72044	-0.14388817	-0.09956171
P	4.19	H	13.5	G 0.15	U 3

Residuals in seconds of arc

1993 09 18	033	1.4−	0.5+	1998 12 22	704	1.3+	0.5−	2000 01 10	704	0.8+	0.8−
1993 09 18	033	0.3+	0.6−	1998 12 22	704	1.1+	0.3+	2000 03 01	703	0.1−	0.1−
1993 09 19	675	0.4−	0.3+	1998 12 22	704	0.3−	0.1+	2000 03 01	703	0.1−	0.1+
1993 09 19	675	0.5+	0.1+	1998 12 22	704	0.6+	0.7−	2000 03 01	703	0.2−	0.2−
1993 09 20	033	0.1−	0.8+	1999 11 09	703	0.3+	0.1+	2000 03 01	703	0.2+	0.1+
1993 09 22	033	0.0	0.2−	1999 11 09	703	0.0	1.4−	2000 03 09	704	0.0	0.2+
1993 09 22	809	(0.1−	2.1+)	1999 11 09	703	0.5−	0.2−	2000 03 09	704	0.2+	0.0
1993 09 22	809	0.7+	1.6+	1999 11 09	703	0.2−	0.4+	2000 03 09	704	0.0	0.3+
1993 09 22	809	0.3−	1.3+	2000 01 05	704	0.0	0.0	2000 03 09	704	0.1−	0.0
1993 09 23	675	0.1+	0.1+	2000 01 05	704	0.2+	0.5+	2000 03 09	704	0.1−	0.1−
1993 09 23	675	0.1+	0.6−	2000 01 05	704	0.3−	0.6+	2000 03 13	704	0.3+	0.7+
1998 11 13	704	(0.6−	2.8−)	2000 01 05	704	0.4−	0.2+	2000 03 13	704	0.2+	0.3+
1998 11 13	704	1.7−	0.9+	2000 01 10	704	0.2−	0.1−	2000 03 13	704	0.0	0.3+
1998 11 13	704	0.9−	0.2+	2000 01 10	704	0.3−	0.9−	2000 03 13	704	0.7+	0.8+
1998 11 13	704	(4.3−	0.5−)	2000 01 10	704	0.8−	0.5+	2000 03 13	704	0.5+	1.1+
1998 12 22	704	(2.9+	0.7−)	2000 01 10	704	0.2−	0.1+				

2000 AL₁₆₄ = 1982 VT₇ = 1998 XE₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	284.43669	(2000.0)	<i>P</i>	Williams	<i>Q</i>
<i>n</i>	0.25249720	ω	25.36305	−0.08181373	+0.99126161
<i>a</i>	2.4791245	Ω	240.09673	−0.93354078	−0.11257616
<i>e</i>	0.1400646	<i>i</i>	6.85549	−0.34901022	+0.06875338
<i>P</i>	3.90	<i>H</i>	13.2	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1982 11 09	095	0.3−	1.4+	1998 12 22	704	0.2−	0.1+	2000 01 10	704	0.1−	0.3+
1998 12 15	704	0.1−	0.1+	1998 12 22	704	0.1−	0.9+	2000 01 10	704	0.3−	0.3+
1998 12 15	704	0.4−	0.4−	1998 12 22	704	0.7+	0.1−	2000 01 10	704	0.5+	0.3+
1998 12 15	704	0.1−	0.9−	1999 12 16	704	(1.4+	3.6−)	2000 03 09	704	0.0	0.2−
1998 12 15	704	0.4+	0.9−	1999 12 16	704	0.2+	0.4−	2000 03 09	704	0.3−	0.0
1998 12 15	704	0.5−	0.5−	1999 12 16	704	0.2+	0.7−	2000 03 09	704	0.2−	0.0
1998 12 16	704	0.2−	0.3+	1999 12 16	704	0.1−	1.3−	2000 03 09	704	0.0	0.3+
1998 12 16	704	1.5+	0.1−	2000 01 05	704	0.3−	1.7+	2000 03 09	704	0.1+	0.3+
1998 12 16	704	0.6+	0.0	2000 01 05	704	0.3−	0.7+	2000 03 13	704	0.0	0.1+
1998 12 16	704	0.6−	1.1−	2000 01 05	704	0.7+	0.0	2000 03 13	704	0.1+	0.3−
1998 12 16	704	0.4+	0.4−	2000 01 05	704	0.5−	0.3+	2000 03 13	704	0.2+	0.3−
1998 12 22	704	0.3−	1.0+	2000 01 10	704	0.4−	0.3+	2000 03 13	704	0.2+	0.1+
1998 12 22	704	1.2−	0.5+	2000 01 10	704	0.3+	0.3+	2000 03 13	704	0.1+	0.8−

2000 AN₁₆₄ = 1987 BK₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	34.98142	(2000.0)	<i>P</i>	Williams	<i>Q</i>
<i>n</i>	0.23425921	ω	178.24723	−0.72031159	−0.67424580
<i>a</i>	2.6061831	Ω	317.78235	+0.63342566	−0.54364330
<i>e</i>	0.0881536	<i>i</i>	14.03195	+0.28270680	−0.49984454
<i>P</i>	4.21	<i>H</i>	13.2	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1987 01 27	033	0.6+	0.6+	1998 11 16	704	0.5−	0.3+	2000 01 10	704	0.7−	0.1+
1987 01 28	033	0.6+	0.3−	1998 11 16	704	0.1−	0.1+	2000 01 10	704	0.8+	0.8−
1987 01 31	046	0.4+	1.8−	1998 11 16	704	0.1−	0.2+	2000 01 10	704	0.1+	0.1+
1987 01 31	046	2.0−	1.5−	1998 11 16	704	(5.8−	0.7+)	2000 01 10	704	0.1+	0.2−
1987 02 01	046	0.2−	0.5−	1999 01 09	699	0.3−	0.6+	2000 03 05	608	0.3+	1.3−
1987 02 01	046	1.5−	0.1−	1999 01 09	699	1.2−	0.8+	2000 03 05	608	0.4−	1.3−
1998 08 29	704	0.5+	0.3−	1999 01 09	699	0.9−	1.1+	2000 03 05	608	0.2+	1.7−
1998 08 29	704	(3.0+	1.7−)	1999 11 05	703	0.6+	0.5+	2000 03 13	704	0.4+	0.5+
1998 08 29	704	(2.4+	1.0+)	1999 11 05	703	0.0	0.5+	2000 03 13	704	0.1+	0.6+
1998 08 29	704	1.3+	0.1+	1999 11 05	703	0.4−	1.0+	2000 03 13	704	0.2−	1.0+
1998 08 29	704	0.9+	1.3−	1999 11 05	703	0.2+	0.7−	2000 03 13	704	0.1−	1.3+
1998 11 14	704	1.7+	1.0+	2000 01 05	704	0.2+	0.3+	2000 03 13	704	0.1+	1.0+
1998 11 14	704	0.4+	0.5+	2000 01 05	704	0.0	0.4+	2000 03 14	704	1.0+	0.7+
1998 11 14	704	1.9−	1.0−	2000 01 05	704	0.4−	0.2−	2000 03 14	704	0.0	0.4+
1998 11 14	704	0.0	0.4−	2000 01 05	704	0.3+	0.1−	2000 03 14	704	0.1−	0.9+
1998 11 16	704	0.7−	0.7+	2000 01 10	704	0.3+	1.0+				

2000 AO₁₆₄ = 1990 HG₂ = 1998 XP₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	294.89519	(2000.0)	<i>P</i>	Williams	<i>Q</i>
<i>n</i>	0.27895600	ω	347.59764	−0.26216500	+0.96112407
<i>a</i>	2.3197735	Ω	267.15575	−0.87781347	−0.27481487
<i>e</i>	0.1132844	<i>i</i>	4.97766	−0.40089029	−0.02678263
<i>P</i>	3.53	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1990 04 27	413	0.1−	0.3+	1998 12 17	704	0.9−	0.4+	2000 01 10	704	0.7+	1.2+
1990 04 27	413	(2.2−	0.7−)	1998 12 17	704	0.1−	1.1−	2000 01 10	704	0.3+	0.4+
1990 04 30	413	(2.6+	0.2+)	1998 12 17	704	1.4+	1.2+	2000 03 13	704	0.0	0.1+
1990 04 30	413	0.1−	0.4+	1998 12 17	704	0.3−	0.3−	2000 03 13	704	0.2−	0.2+
1998 12 11	699	1.6−	0.5+	1999 01 05	699	0.2+	1.0−	2000 03 13	704	0.0	0.7−
1998 12 11	699	0.1+	0.1−	1999 01 05	699	0.7−	0.3−	2000 03 13	704	0.4−	0.5−
1998 12 11	699	0.1−	0.6+	1999 01 05	699	0.3−	0.3+	2000 03 13	704	0.3−	0.5−
1998 12 14	704	0.4+	0.0	2000 01 05	704	0.0	0.9+	2000 03 15	704	0.3+	0.9−
1998 12 14	704	(0.4−	2.1−)	2000 01 05	704	0.8+	0.5+	2000 03 15	704	1.0−	0.1−
1998 12 14	704	0.6+	0.1−	2000 01 05	704	0.5+	0.4+	2000 03 15	704	0.2−	0.7+
1998 12 14	704	0.7+	0.1−	2000 01 05	704	0.0	0.0	2000 03 15	704	0.3+	0.9−
1998 12 14	704	0.1+	0.2−	2000 01 10	704	0.6+	0.3+	2000 03 15	704	0.2−	0.3−
1998 12 17	704	0.4+	0.7−	2000 01 10	704	0.2−	0.6+				

2000 AA₁₆₈ = 1986 CD₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	5.09190	(2000.0)	<i>P</i>	Williams	<i>Q</i>
<i>n</i>	0.28798061	ω	39.29343	−0.99034259	−0.07417994
<i>a</i>	2.2710527	Ω	136.01002	+0.03862683	−0.95900034
<i>e</i>	0.0690012	<i>i</i>	9.70890	+0.13315225	−0.27352456
<i>P</i>	3.42	<i>H</i>	13.4	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1986 02 07	054	0.9+	1.4−	2000 01 08	704	0.5−	0.2−	2000 02 06	704	0.8+	0.7+
1986 02 11	054	1.1−	0.3−	2000 01 08	704	0.3−	0.9−	2000 02 06	704	0.0	0.1−
1998 11 13	704	1.7−	1.6+	2000 01 08	704	0.4−	1.0−	2000 02 06	704	0.2−	0.4+
1998 11 13	704	0.2−	0.5−	2000 01 08	704	0.3−	0.5−	2000 02 06	704	0.6+	0.6+
1998 11 13	704	1.0+	0.0	2000 01 08	704	0.2−	1.3−	2000 02 11	704	0.4+	0.0
1998 11 13	704	0.0	1.2+	2000 01 10	704	0.3−	0.2−	2000 02 11	704	1.8+	0.7+
1998 11 13	704	1.0−	0.3−	2000 01 10	704	0.2+	1.6−	2000 02 11	704	(0.9+	2.3+)
1999 01 17	699	0.9−	0.0	2000 01 10	704	0.1+	1.1−	2000 02 29	704	0.6+	0.8+
1999 01 17	699	0.8+	0.0	2000 01 10	704	0.4−	0.6−	2000 02 29	704	0.3−	0.5+
1999 01 17	699	0.6−	0.3−	2000 01 10	704	0.6−	0.6−	2000 02 29	704	0.4−	0.5+
1999 02 04	704	1.1+	0.0	2000 02 05	704	0.1−	1.7+	2000 03 11	699	0.1−	0.7+
1999 02 04	704	0.9+	1.1+	2000 02 05	704	0.5+	0.4+	2000 03 11	699	0.0	0.8+
1999 02 04	704	0.5+	1.1+	2000 02 05	704	0.6+	0.0	2000 03 11	699	0.0	0.6+
1999 02 04	704	0.1−	0.8+	2000 02 06	704	0.4−	0.9+	2000 03 11	699	0.1−	0.6+

2000 AG₁₆₉ = 1998 KT₅₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	79.71562	(2000.0)	<i>P</i>	Williams	<i>Q</i>
<i>n</i>	0.28157291	ω	224.01940	+0.98907026	+0.05489403
<i>a</i>	2.3053780	Ω	132.30670	−0.01505338	+0.96085669
<i>e</i>	0.1701566	<i>i</i>	10.66335	−0.14667449	+0.27155308
<i>P</i>	3.50	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 05 23	704	2.0−	1.0+	1999

2000 MAR. 20

M.P.C. 39353

1998 05 26	704	1.2+	1.3-	1999 12 05	704	0.2-	0.1+	2000 01 11	704	0.6-	0.3-
1998 05 26	704	0.5-	0.6+	1999 12 05	704	0.2-	0.3-	2000 01 11	704	0.9+	0.9-
1998 05 26	704	1.2+	0.0	1999 12 05	704	0.3-	0.3+	2000 01 11	704	0.6-	1.8-
1998 05 26	704	0.8+	0.3+	1999 12 14	699	0.5+	0.2+				
1998 05 26	704	0.8-	1.0-	1999 12 14	699	0.1+	1.0+				

2000 AX₁₈₂ = 1998 QY₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler

<i>M</i>	45.94857		(2000.0)	P	Q
<i>n</i>	0.23595862	ω	207.36252	+0.19475078	-0.97571378
<i>a</i>	2.5936547	Ω	231.58026	+0.92169392	+0.21701261
<i>e</i>	0.0752440	<i>i</i>	7.35316	+0.33548837	-0.02980191
<i>P</i>	4.18	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 08 24	704	0.6-	0.2+	2000 01 04	699	0.3+	0.2+	2000 01 07	704	0.2+	0.2-
1998 08 24	704	1.0+	0.4+	2000 01 04	699	0.7+	0.3-	2000 01 11	704	0.4-	0.0
1998 08 24	704	0.4-	0.5-	2000 01 04	699	0.9-	1.0+	2000 01 11	704	0.6+	0.2+
1998 08 24	704	1.5-	0.5+	2000 01 07	704	0.1-	0.1-	2000 01 11	704	0.2-	0.3+
1998 08 27	704	1.9+	0.5-	2000 01 07	704	0.1-	0.6-	2000 01 11	704	0.7-	0.7-
1998 08 27	704	0.2-	1.1+	2000 01 07	704	1.4+	0.0				
1998 08 27	704	0.2-	1.4-	2000 01 07	704	0.8-	0.0				

2000 AZ₁₉₃ = 1982 VT₁₂ = 1982 YW₂ = 1998 QM₇₉

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	47.44708		(2000.0)	P	Q
<i>n</i>	0.23518712	ω	176.45879	+0.40965371	-0.89429464
<i>a</i>	2.5993236	Ω	249.29025	+0.83216425	+0.44720937
<i>e</i>	0.1944463	<i>i</i>	11.09851	+0.37374656	-0.01551997
<i>P</i>	4.19	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1982 11 13	095	(4.5-	5.3-)	1999 12 05	704	0.2-	1.8+	2000 01 11	704	0.2+	0.0
1982 12 22	095	0.1+	1.2+	1999 12 05	704	0.0	0.0	2000 01 11	704	0.1+	0.3-
1998 06 25	699	0.2-	0.7+	1999 12 05	704	0.8+	0.0	2000 01 11	704	0.1+	0.2+
1998 06 25	699	0.2-	0.6-	1999 12 05	704	0.9+	0.4+	2000 01 11	704	0.1-	0.8-
1998 06 25	699	0.4-	1.0+	1999 12 05	704	0.7+	0.7-	2000 01 11	704	0.0	0.5+
1998 08 24	704	0.6-	0.9-	1999 12 14	704	0.1+	0.1-	2000 01 11	704	0.2-	1.1-
1998 08 24	704	1.4+	0.3+	1999 12 14	704	0.5+	0.8-	2000 01 11	704	0.2+	0.1+
1998 08 24	704	0.5-	0.9+	1999 12 14	704	0.1+	0.9-	2000 02 06	704	0.3-	0.1+
1998 08 24	704	0.3-	0.7+	1999 12 14	704	0.1+	0.5-	2000 02 06	704	0.2-	0.5+
1998 08 24	704	0.1+	0.5+	1999 12 14	704	0.0	1.1-	2000 02 06	704	0.1-	0.6+
1998 08 27	704	0.3+	0.8+	2000 01 08	704	0.4-	0.1+	2000 02 06	704	0.0	0.8+
1998 08 27	704	0.3+	0.9-	2000 01 08	704	0.3-	0.4+	2000 02 06	704	0.1-	1.1+
1998 08 27	704	1.0+	0.9-	2000 01 08	704	0.6-	0.1+	2000 02 27	849	0.3+	0.2-
1998 08 27	704	0.6-	0.4-	2000 01 08	704	0.3-	0.3+	2000 02 27	849	0.3-	0.1+
1998 08 27	704	0.3-	1.3-	2000 01 08	704	0.5-	0.3+	2000 02 27	849	0.2-	0.2-
1999 11 08	699	0.5-	0.1-	2000 01 11	704	0.0	0.4-	2000 03 06	704	0.1+	1.1-
1999 11 08	699	0.5-	0.3+	2000 01 11	704	0.2-	0.2-	2000 03 06	704	1.2+	1.6-
1999 11 08	699	0.2-	0.2-	2000 01 11	704	0.2+	0.9-	2000 03 06	704	0.5-	2.3+

2000 AL₁₉₅ = 1998 VK₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	275.27138		(2000.0)	P	Q
<i>n</i>	0.21246451	ω	7.14266	-0.63650331	+0.75792533
<i>a</i>	2.7814960	Ω	223.46419	-0.71750575	-0.64983567
<i>e</i>	0.0965087	<i>i</i>	11.98726	-0.28292938	-0.05712080
<i>P</i>	4.64	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 11 10	704	0.2-	1.0-	2000 01 07	699	1.7+	1.3+	2000 01 11	704	0.9-	0.7-
1998 11 10	704	0.6+	1.8-	2000 01 08	704	0.6-	0.1+	2000 02 06	704	0.3+	0.1-
1998 11 10	704	0.0	1.0+	2000 01 08	704	1.0-	0.5-	2000 02 06	704	1.6+	0.1+
1998 11 10	704	(1.4-	2.5-)	2000 01 08	704	0.8-	0.2+	2000 02 06	704	0.7+	0.1-

1998 11 11	704	0.2+	0.6+	2000 01 08	704	0.1-	0.3+	2000 02 06	704	0.6+	0.4+
1998 11 11	704	0.7-	1.2+	2000 01 08	704	1.9-	0.1-	2000 02 06	704	0.4+	0.2-
1998 11 11	704	0.2-	0.7-	2000 01 11	704	0.2-	0.9-	2000 03 01	703	1.1-	0.8+
1998 11 11	704	0.3+	1.3+	2000 01 11	704	0.0	0.2-	2000 03 01	703	0.9-	0.6+
1999 12 14	704	0.6-	0.7+	2000 01 11	704	0.4-	0.9-	2000 03 01	703	0.5+	0.6+
1999 12 14	704	0.1-	0.8-	2000 01 11	704	0.1+	0.9-	2000 03 01	703	0.4-	1.5+
1999 12 14	704	0.3-	0.4+	2000 01 11	704	0.5-	1.3-	2000 03 06	704	0.3+	0.9+
1999 12 14	704	0.6+	0.5+	2000 01 11	704	0.0	0.4+	2000 03 06	704	0.2+	0.1+
1999 12 14	704	0.8+	0.5+	2000 01 11	704	0.5-	1.5-	2000 03 06	704	0.5+	0.3+
2000 01 07	699	1.4+	0.7+	2000 01 11	704	0.6+	1.7-				
2000 01 07	699	0.8+	0.6+	2000 01 11	704	0.6-	0.7-				

2000 AR₁₉₈ = 1994 BX₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	118.21978		(2000.0)	P	Q
<i>n</i>	0.17362007	ω	89.77477	+0.93699610	-0.21828527
<i>a</i>	3.1822632	Ω	282.82459	+0.08073638	+0.89491902
<i>e</i>	0.1615784	<i>i</i>	16.24367	+0.33988224	+0.38919338
<i>P</i>	5.68	<i>H</i>	11.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1994 01 16	010	0.7+	0.5+	2000 01 07	699	1.0+	1.2+	2000 02 06	704	0.7+	0.3+
1994 01 16	010	0.5+	0.6+	2000 01 08	704	0.5-	0.7-	2000 02 06	704	0.6-	0.1-
1994 01 17	010	1.6-	0.5-	2000 01 08	704	0.6-	1.0-	2000 02 06	704	0.4+	0.0
1994 01 17	010	0.0	0.6+	2000 01 08	704	0.5-	0.7-	2000 02 22	106	0.7+	0.8-
1994 01 17	010	0.8+	0.5-	2000 01 08	704	0.6-	0.9-	2000 02 22	106	1.4+	0.4-
1999 11 08	703	0.8+	1.0+	2000 01 08	704	0.4-	1.4-	2000 02 22	106	0.5+	0.7+
1999 11 08	703	0.3+	1.2+	2000 01 11	704	0.1+	0.7-	2000 03 01	703	0.2-	0.4-
1999 11 08	703	0.6-	0.7+	2000 01 11	704	0.4-	1.1-	2000 03 01	703	0.4-	0.1+
1999 11 08	703	0.7+	0.3+	2000 01 11	704	0.2-	1.1-	2000 03 01	703	0.7-	0.9+
1999 12 14	704	1.2-	0.3+	2000 01 11	704	0.6-	1.1-	2000 03 01	703	0.1+	0.2-
1999 12 14	704	1.0-	0.4-	2000 01 11	704	0.0	1.0-	2000 03 08	704	0.1-	0.5+
1999 12 14	704	0.5-	0.1-	2000 01 28	704	0.8+	1.3+	2000 03 08	704	0.6+	0.9+
1999 12 14	704	1.2-	1.9-	2000 01 28	704	0.5+	0.5+	2000 03 08	704	0.6-	0.2+
2000 01 07	699	0.8+	1.0+	2000 01 28	704	0.8+	0.9+	2000 03 08	704	0.8-	1.1+
2000 01 07	699	0.8+	0.8+	2000 02 06	704	0.5+	0.2+	2000 03 08	704	0.7-	0.2-

2000 AQ₁₉₉ = 1960 DD = 1972 AM

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	333.08525		(2000.0)	P	Q
<i>n</i>	0.24126328	ω	324.05455	-0.21295279	-0.96257476
<i>a</i>	2.5554962	Ω	137.51440	+0.94436916	-0.24678589
<i>e</i>	0.1023987	<i>i</i>	14.37083	+0.25063519	+0.11201141
<i>P</i>	4.09	<i>H</i>	12.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1960 02 27	760	0.6-	0.4+	1999 10 02	704	0.3+	0.5-	2000 01 09	704	0.5-	0.4+
1960 02 27	760	1.2+	0.7-	1999 11 05	703	0.1+	0.1-	2000 01 09	704	0.5-	0.1-
1972 01 14	029	1.5+	1.7-	1999 11 05	703	0.2+	0.3-	2000 01 09	704	0.9-	0.0
1972 01 15	029	0.5-	0.5+	1999 11 05	703	0.4+	0.3-	2000 01 11	704	0.3-	0.0
1972 01 16	029	1.0-	0.1+	1999 11 05	703	0.4+	0.1+	2000 01 11	704	0.5-	0.5-
1972 01 17	029	0.7-	0.8+	1999 11 08	704	0.3-	0.0	2000 01 11	704	0.2-	0.3-
1998 06 25	704	0.5+	1.3+	1999 11 08	704	0.6-	0.4+	2000 01 11	704	0.6-	0.4-
1998 06 25	704	0.2+	0.2-	1999 11 08	704	0.3-	0.3+	2000 01 11	704	0.1-	0.4-
1998 06 25	704	0.3-	1.1+	1999 11 08	704	0.3-	0.3-	2000 02 05	704	0.0	0.2-
1998 06 25	704	0.6-	1.1-	1999 11 08	704	0.6-	0.3+	2000 02 05	704	0.7+	0.9+
1999 09 14	704	0.1+	0.2+	1999 12 02	704	(1.8-	2.2+)	2000 02 05	704	0.7+	0.0
1999 09 14	704	0.1+	0.2-	1999 12 02	704	0.1+	1.0+	2000 02 06	704	0.7+	0.1+
1999 09 14	704	0.1-	0.0	1999 12 02	704	0.3-	0.9-	2000 02 06	704	0.1+	1.2+
1999 09 14	704	0.0	0.0	1999 12 16	704	0.4+	0.6-	2000 02 06	704	0.5+	0.7+
1999 09 14	704	0.3-	0.1+	1999 12 16	704	0.6+	0.6-	2000 02 06	704	0.3+	0.9+
1999 10 02	704	0.9+	0.0	1999 12 16	704	0.0	0.2+	2000 02 07	703	0.7-	1.0+
1999 10 02	704	0.9+	0.4-	1999 12 16	704	0.1+	0.5-	2000 02 07	703	1.3-	0.6-

1999 10 02 704 0.7+ 0.1+ 2000 01 09 704 0.5- 0.4- 2000 02 07 703 0.9- 0.2+
 1999 10 02 704 0.6+ 0.1- 2000 01 09 704 0.4- 0.3+ 2000 02 07 703 1.0+ 1.6+

2000 AC₂₀₀ = 1994 RZ₂₂ = 1997 GT₂₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	15.19042	(2000.0)	P			Q		
<i>n</i>	0.21740537	ω 270.12013	+0.54382825	-0.82820944				
<i>a</i>	2.7391924	Ω 145.79866	+0.83335410	+0.51397308				
<i>e</i>	0.1835673	<i>i</i> 13.93344	+0.09885235	+0.22338486				
<i>P</i>	4.53	<i>H</i> 14.3	<i>G</i> 0.15	<i>U</i> 2				

Residuals in seconds of arc

1994 08 10	809	0.7-	0.1+	1999 09 14	704	0.5-	0.5-	1999 12 02	704	0.0	0.1-
1994 08 10	809	1.6-	0.7+	1999 09 14	704	0.9-	0.4-	1999 12 02	704	0.7-	1.7+
1994 08 10	809	1.2-	0.1-	1999 09 14	704	0.8-	0.2-	2000 01 09	704	0.9+	0.2-
1994 09 05	809	0.6+	0.0	1999 09 14	704	0.9-	1.3+	2000 01 09	704	0.3-	1.0-
1994 09 05	809	1.1+	0.1+	1999 09 14	704	0.6+	1.1-	2000 01 09	704	0.2-	0.6-
1994 09 05	809	1.6+	0.1-	1999 10 02	704	0.9+	0.8-	2000 01 09	704	0.5-	0.1-
1994 09 06	809	(0.1-	2.4-)	1999 10 02	704	0.5+	0.1-	2000 01 11	704	0.9-	0.6+
1994 09 06	809	(1.1-	3.4-)	1999 10 02	704	0.7+	0.6-	2000 01 11	704	1.5-	0.5-
1994 09 06	809	(0.9-	3.2-)	1999 10 02	704	0.7+	0.0	2000 01 11	704	0.4-	0.4-
1997 04 14	691	0.8+	0.0	1999 11 06	699	0.3+	0.2-	2000 01 11	704	0.9-	0.2-
1997 04 14	691	0.5+	0.1+	1999 11 06	699	0.1-	0.0	2000 01 11	704	0.8-	0.8+
1997 04 14	691	0.6+	0.1+	1999 11 06	699	0.2-	0.2+	2000 02 06	704	1.3+	0.7+
1997 04 15	691	0.8-	0.2-	1999 11 08	704	1.8+	1.1+	2000 02 06	704	0.4+	0.5+
1997 04 15	691	0.4-	0.2+	1999 11 08	704	0.6+	0.3+	2000 02 06	704	(2.7+	1.0+)
1997 04 15	691	0.5-	0.1-	1999 11 08	704	0.1+	1.3+	2000 02 06	704	1.2+	0.1+
1997 04 16	691	0.3-	0.2+	1999 11 08	704	0.2-	0.3-	2000 02 06	704	(2.1+	2.7+)
1997 04 16	691	0.0	0.0	1999 12 02	704	0.2-	0.9-				
1997 04 16	691	0.2+	0.0	1999 12 02	704	0.8-	0.4-				

2000 AR₂₀₀ = 1953 PL₁ = 1964 HC = 1998 MD₁₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	38.44363	(2000.0)	P			Q		
<i>n</i>	0.23852566	ω 246.66462	+0.85495916	-0.49876296				
<i>a</i>	2.5750123	Ω 142.80903	+0.51857984	+0.82771513				
<i>e</i>	0.1723752	<i>i</i> 13.62652	-0.01094490	+0.25714426				
<i>P</i>	4.13	<i>H</i> 12.6	<i>G</i> 0.15	<i>U</i> 1				

Residuals in seconds of arc

1953 08 15	675	0.2-	0.6-	1999 09 14	704	0.2-	0.1-	2000 01 09	704	0.4-	0.1+
1953 08 15	675	0.4+	0.1+	1999 09 14	704	0.4-	0.0	2000 01 09	704	0.5-	0.4+
1964 04 16	033	0.9-	0.4+	1999 09 14	704	0.3-	0.1-	2000 01 09	704	0.2-	0.6+
1964 04 16	033	0.1+	1.7-	1999 09 14	704	0.3-	0.0	2000 01 09	704	0.1-	0.7+
1998 05 26	704	0.8+	0.0	1999 10 02	704	0.1-	0.4-	2000 01 09	704	0.0	1.6+
1998 05 26	704	0.0	0.6+	1999 10 02	704	0.0	0.8-	2000 01 11	704	0.3+	0.1-
1998 05 26	704	1.2+	1.0+	1999 10 02	704	0.0	0.7-	2000 01 11	699	0.1+	0.7+
1998 05 26	704	(3.0+	1.0+)	1999 10 02	704	0.1+	0.8-	2000 01 11	704	0.1-	0.1-
1998 06 03	704	1.5+	0.7-	1999 10 02	704	0.2-	1.0-	2000 01 11	704	0.4-	0.2+
1998 06 03	704	0.4+	0.5+	1999 11 05	703	0.2+	0.2+	2000 01 11	699	0.4+	0.0
1998 06 03	704	0.5+	0.0	1999 11 05	703	0.2+	0.3+	2000 01 11	704	0.2-	0.4+
1998 06 03	704	0.5-	0.2+	1999 11 05	703	0.4+	0.1+	2000 01 11	704	0.2-	0.6+
1998 06 03	704	0.9+	0.3-	1999 11 05	703	0.0	0.2+	2000 01 11	699	0.2+	0.1+
1998 06 19	704	1.8-	1.2+	1999 11 07	704	0.1-	0.1+	2000 02 05	704	0.2+	0.5+
1998 06 19	704	0.1-	0.3-	1999 11 07	704	0.5-	0.0	2000 02 05	704	0.3+	1.2+
1998 06 19	704	0.4-	1.0+	1999 11 07	704	0.3-	0.1-	2000 02 05	704	0.4+	0.5+
1998 06 19	704	(2.8-	2.8+)	1999 11 07	704	0.6-	0.1-	2000 02 05	704	0.6+	0.9+
1998 06 25	704	0.5-	0.2+	1999 11 07	704	0.7-	0.1-	2000 02 06	704	0.4+	0.3+
1998 06 25	704	0.6-	1.2+	1999 12 16	704	0.3+	0.1+	2000 02 06	704	0.1-	0.6+
1998 06 25	704	0.2+	0.1+	1999 12 16	704	0.3+	0.0	2000 02 06	704	0.1+	0.3+
1998 06 25	704	0.6+	0.2+	1999 12 16	704	0.5+	0.2-	2000 02 06	704	0.0	0.6+
1998 06 25	704	0.7-	1.7+	1999 12 16	704	0.4+	0.3-	2000 02 06	704	0.1+	0.6+
1999 09 14	704	0.3-	0.2-	1999 12 16	704	0.2+	0.1-				

2000 AZ₂₀₂ = 1998 XU₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	32.63144	(2000.0)	P			Q		
<i>n</i>	0.17416735	ω 242.38954	-0.37866718	-0.90907982				
<i>a</i>	3.1755934	Ω 230.94570	+0.90831036	-0.32896984				
<i>e</i>	0.2041358	<i>i</i> 12.92829	+0.17771733	-0.25564179				
<i>P</i>	5.66	<i>H</i> 14.4	<i>G</i> 0.15	<i>U</i> 4				

Residuals in seconds of arc

1998 12 10	691	0.2+	0.4-	2000 01 11	704	0.2+	0.0	2000 03 04	703	0.6-	0.1+
1998 12 10	691	1.0+	0.4+	2000 02 25	704	0.5+	0.6+	2000 03 04	703	0.2+	0.1+
1998 12 10	691	0.4+	0.1+	2000 02 25	704	0.1+	0.1-	2000 03 09	704	0.1-	0.1-
1998 12 14	691	0.4-	0.2-	2000 02 25	704	1.0+	0.8+	2000 03 09	704	0.4-	0.2+
1998 12 14	691	0.6-	0.2+	2000 02 25	704	0.1+	0.4+	2000 03 09	704	0.6+	0.9+
1998 12 14	691	0.6-	0.0	2000 02 25	704	0.8+	0.8+	2000 03 09	704	0.7+	0.8+
2000 01 10	704	0.4-	0.4-	2000 03 03	703	0.3-	0.1+	2000 03 11	704	1.0-	0.2+
2000 01 10	704	0.6-	0.4-	2000 03 03	703	0.7-	0.6-	2000 03 11	704	0.8-	0.5-
2000 01 10	704	0.9+	1.0-	2000 03 03	703	0.1-	0.3+	2000 03 11	704	1.4-	0.0
2000 01 10	704	0.4+	1.0+	2000 03 03	703	0.7-	0.4-	2000 03 11	704	1.1+	0.5-
2000 01 11	704	0.6-	0.6-	2000 03 04	703	1.8+	1.8-				
2000 01 11	704	0.6-	0.4+	2000 03 04	703	0.2-	0.5-				

2000 AE₂₀₃ = 1998 XB₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	15.91341	(2000.0)	P			Q		
<i>n</i>	0.20270579	ω 232.85595	-0.82184393	-0.52531080				
<i>a</i>	2.8700664	Ω 274.44550	+0.56717185	-0.71789893				
<i>e</i>	0.0670737	<i>i</i> 12.77761	+0.05374611	-0.45680378				
<i>P</i>	4.86	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 3				

Residuals in seconds of arc

1998 12 14	704	1.7-	0.4-	1999 01 06	699	0.2+	0.8+	2000 01 11	704	0.8+	0.3+
1998 12 14	704	0.1+	1.2-	1999 12 16	704	1.4-	1.0-	2000 02 07	704	0.0	0.3-
1998 12 14	704	0.1+	0.8-	1999 12 16	704	1.1-	0.6-	2000 02 07	704	1.0+	1.0+
1998 12 14	704	0.4-	0.8-	1999 12 16	704	0.4-	0.9-	2000 02 07	704	0.8+	0.0
1998 12 17	704	0.5-	0.2-	1999 12 16	704	0.4+	0.3-	2000 02 07	704	0.6+	1.3+
1998 12 17	704	1.4+	1.4+	2000 01 10	704	0.4-	0.9-	2000 02 07	704	0.8+	1.6+
1998 12 17	704	0.8+	0.3-	2000 01 10	704	0.8-	0.7+	2000 03 09	704	0.7-	0.3-
1998 12 17	704	0.2-	0.1-	2000 01 10	704	0.1+	0.3+	2000 03 09	704	1.4-	0.1-
1998 12 17	704	0.4-	0.5-	2000 01 10	704	0.8+	0.2+	2000 03 09	704	0.8-	0.2-
1998 12 24	699	0.9-	1.9+	2000 01 10	704	0.5+	0.2+	2000 03 09	704	0.5-	0.4-
1998 12 24	699	0.2+	0.1+	2000 01 11	704	0.1-	0.5-	2000 03 09	704	0.4-	0.2-
1998 12 24	699	0.9+	0.2+	2000 01 11	704	0.9+	0.7-	2000 03 13	704	0.6+	0.2+
1999 01 06	699	0.2+	0.4-	2000 01 11	704	0.3-	0.2+	2000 03 13	704	0.4+	0.5+
1999 01 06	699	0.2+	0.7+	2000 01 11	704	0.3-	0.3+	2000 03 13	704	0.4+	1.2-

2000 AR₂₀₃ = 1987 GC₁ = 1998 XJ₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	309.59064	(2000.0)	P			Q		
<i>n</i>	0.22334356	ω 305.71375	-0.51596925	+0.83924464				
<i>a</i>	2.6904221	Ω 292.34789	-0.71375372	-0.53196837				
<i>e</i>	0.1234294	<i>i</i> 10.69189	-0.47363633	-0.11259699				
<i>P</i>	4.41	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 3				

Residuals in seconds of arc

1987 04 03	474	(4.0-	5.5-)	1998 12 17	704	0.7-	0.5+	2000 01 11	704	0.7+	1.1-
1987 04 03	474	0.7-	2.3-	1998 12 17	704	0.3-	0.8-	2000 02 10	704	0.1+	0.2-
1998 12 14	704	1.3-	0.1-	1998 12 17	704	0.0	0.8+	2000 02 1			

2000 MAR. 20

M.P.C. 39355

1998 12 17	704	0.4−	0.4−	2000 01 11	704	0.2−	0.4−	2000 03 14	704	0.1+	0.3+
1998 12 17	704	0.1−	0.7−	2000 01 11	704	1.5−	0.2−	2000 03 14	704	0.1+	0.6+

2000 AV₂₀₃ = 1987 DA₄ = 1998 XY₂₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		350.44770		(2000.0)		P		Q	
<i>n</i>		0.23205175	ω	244.75367		−0.96945582		+0.15742314	
<i>a</i>		2.6226851	Ω	303.77065		−0.04263342		−0.86332056	
<i>e</i>		0.0338059	<i>i</i>	13.07663		−0.24153220		−0.47947426	
<i>P</i>		4.25	<i>H</i>	13.9		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 02 23	010	1.8+	0.6−	1998 12 14	704	0.2+	0.1−	2000 01 11	704	0.1+	0.1+
1987 02 24	010	1.1−	1.7+	1998 12 14	704	0.5+	0.4+	2000 01 28	704	0.1+	1.0+
1997 09 02	566	0.2−	0.5+	1998 12 17	704	0.5−	0.2−	2000 01 28	704	0.6−	0.2+
1997 09 02	566	0.1+	0.2+	1998 12 17	704	0.6−	0.8−	2000 01 28	704	0.3−	0.1+
1997 09 02	566	0.6−	0.7+	1998 12 17	704	0.2+	0.3−	2000 01 28	704	0.1+	0.3+
1998 11 16	704	0.4−	1.2+	1998 12 17	704	0.3−	1.1−	2000 01 28	704	0.3−	0.6+
1998 11 16	704	0.4+	0.8−	1998 12 17	704	0.3−	0.2−	2000 03 13	704	0.6−	0.3−
1998 11 16	704	0.0	1.3+	2000 01 10	704	1.5+	0.1+	2000 03 13	704	0.4−	0.1−
1998 11 16	704	0.1−	1.7+	2000 01 10	704	1.0+	0.8−	2000 03 13	704	0.1−	0.5+
1998 11 16	704	(3.8−	0.9+)	2000 01 10	704	0.8−	0.5−	2000 03 13	704	0.4−	0.2+
1998 12 14	704	1.0+	0	2000 01 10	704	0.2+	0.1+	2000 03 13	704	1.1+	0.1−
1998 12 14	704	0.0	0.8−	2000 01 11	704	0.4+	0.5−				
1998 12 14	704	0.2+	0.1−	2000 01 11	704	0.4−	0.6−				

2000 AW₂₀₃ = 1977 XQ₂ = 1997 KY₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		12.50776		(2000.0)		P		Q	
<i>n</i>		0.23175694	ω	259.13215		−0.85112889		−0.49622451	
<i>a</i>		2.6249088	Ω	250.92237		+0.52390980		−0.78234212	
<i>e</i>		0.0842507	<i>i</i>	10.44237		+0.03313816		−0.37643333	
<i>P</i>		4.25	<i>H</i>	14.2		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 12 07	675	0.4−	0.6−	1998 11 11	704	(5.3−	0.7−)	2000 01 11	704	0.3−	0.2+
1977 12 08	675	0.3+	0.7−	1999 12 16	704	0.4−	1.2−	2000 01 11	704	0.8−	0.1−
1997 05 31	691	0.7−	0.0	1999 12 16	704	1.0−	1.0−	2000 03 09	704	0.3+	0.4+
1997 05 31	691	0.5+	0.0	1999 12 16	704	1.3+	0.1−	2000 03 09	704	0.2+	0.2+
1997 05 31	691	0.2+	0.1−	1999 12 16	704	0.8−	0.0	2000 03 09	704	0.2+	0.3+
1997 06 09	691	0.2−	0.4+	2000 01 10	704	0.5−	0.1−	2000 03 09	704	0.0	0.3+
1997 06 09	691	0.1−	0.3+	2000 01 10	704	0.5−	0.3−	2000 03 09	704	0.3+	1.0+
1997 06 09	691	0.0	0.2+	2000 01 10	704	0.0	0.5+	2000 03 13	704	0.8+	0.5−
1998 11 11	704	0.7−	0.7+	2000 01 10	704	0.4−	0.1+	2000 03 13	704	0.1+	0.6+
1998 11 11	704	0.6+	0.3−	2000 01 11	704	0.3−	0.2−	2000 03 13	704	1.3+	0.0
1998 11 11	704	0.6−	1.6+	2000 01 11	704	0.8−	0.0	2000 03 13	704	0.7+	0.5+
1998 11 11	704	0.1+	1.2+	2000 01 11	704	0.2+	0.5+				

2000 AO₂₀₅ = 2000 CT₈ = 3309 T-1 = 1998 MJ₂₈

Id. G. V. Williams (*MPC* 38708), M. E. Sansaturio (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		118.83315		(2000.0)		P		Q	
<i>n</i>		0.26378627	ω	224.20532		+0.97190335		+0.23530622	
<i>a</i>		2.4078786	Ω	122.18413		−0.21397640		+0.89369763	
<i>e</i>		0.2143939	<i>i</i>	0.39968		−0.09807126		+0.38201508	
<i>P</i>		3.74	<i>H</i>	15.0		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1971 03 25	675	0.9+	0.5−	1998 07 21	704	0.4+	1.8+	2000 01 21	732	1.1+	0.4−
1971 03 26	675	0.0	0.0	1998 07 21	704	1.2−	2.9+	2000 01 21	732	0.5−	0.1+
1971 03 26	675	0.5−	0.5−	1998 07 21	704	0.6+	1.4+	2000 01 21	732	1.5+	2.3+
1971 04 02	675	0.2−	1.5+	2000 01 07	691	0.1+	1.2−	2000 01 26	732	1.5+	0.8−
1997 03 18	599	1.1−	1.8−	2000 01 07	691	0.1+	0.2−	2000 01 26	732	0.7+	1.5−
1997 03 18	599	0.8+	0.8+	2000 01 07	691	0.2+	0.3−	2000 02 02	704	0.1−	0.4−

1998 06 24	704	0.1+	1.8+	2000 01 10	732	0.5−	0.4+	2000 02 02	704	1.3+	0.2−
1998 06 24	704	0.1−	0.5−	2000 01 10	732	0.9−	0.5−	2000 02 02	704	0.2−	1.2+
1998 06 24	704	0.1+	0.6−	2000 01 10	732	0.3−	0.7+	2000 02 03	704	0.6−	0.4+
1998 06 24	704	0.4−	0.4−	2000 01 10	732	1.3−	0.6+	2000 02 03	704	0.0	1.0+
1998 06 24	704	2.0−	0.3−	2000 01 10	732	0.8−	0.3−	2000 02 03	704	1.4+	1.2+
1998 06 26	704	0.4+	0.7−	2000 01 11	732	1.3−	0.2+	2000 02 03	704	1.3+	1.2+
1998 06 26	704	0.8−	0.5+	2000 01 12	732	0.2+	0.4+	2000 02 11	704	0.2+	0.5−
1998 06 26	704	0.3+	0.2+	2000 01 12	732	1.2−	0.9+	2000 02 11	704	0.3−	0.3+
1998 06 26	704	0.8+	0.2−	2000 01 12	732	0.4−	0.7+	2000 02 11	704	0.4−	0.0
1998 06 26	704	0.9−	1.4−	2000 01 13	732	0.8+	0.2+				
1998 07 21	704	2.0+	0.0	2000 01 13	732	0.2−	0.9+				

2000 AW₂₀₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		266.13736		(2000.0)		P		Q	
<i>n</i>		0.26298309	ω	147.74717		−0.48408720		+0.87280151	
<i>a</i>		2.4127787	Ω	93.23221		−0.81547276		−0.42419822	
<i>e</i>		0.1981969	<i>i</i>	3.57561		−0.31727552		−0.24139884	
<i>P</i>		3.75	<i>H</i>	16.8		<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 10 22	910	0.1−	0.7+	2000 01 13	734	0.1+	1.5−	2000 01 16	734	0.3+	1.2+
1998 10 23	910	0.1+	0.0	2000 01 16	734	0.7+	0.1+	2000 01 21	734	0.1−	1.3−
1998 10 23	910	0.0	0.8−	2000 01 16	734	0.0	0.5+	2000 01 21	734	(1.1−	3.4−)
2000 01 13	734	0.6+	0.6−	2000 01 16	734	0.3−	1.1+				
2000 01 13	734	0.9−	0.1−	2000 01 16	734	0.4−	0.4+				

2000 AA₂₁₂ = 1990 SX₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		204.89120		(2000.0)		P		Q	
<i>n</i>		0.26052825	ω	357.79966		+0.72357603		+0.68316363	
<i>a</i>		2.4279114	Ω	318.52733		−0.63099124		+0.59676070	
<i>e</i>		0.2509870	<i>i</i>	8.56366		−0.27979953		+0.42090870	
<i>P</i>		3.78	<i>H</i>	14.8		<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1990 09 17	675	0.5−	0.4−	2000 01 05	691	0.1+	0.1+	2000 02 29	704	0.4−	0.1−
1990 09 17	675	0.3+	0.6+	2000 01 12	691	0.2−	0.2−	2000 02 29	704	0.9+	0.1+
1990 09 20	675	0.1+	1.1−	2000 01 12	691	0.1−	0.1+	2000 03 03	704	0.7+	0.4+
1990 09 20	675	0.1+	0.8+	2000 01 12	691	0.0	0.2−	2000 03 03	704	0.3−	0.4+
2000 01 05	691	0.2+	0.0	2000 02 29	704	0.2+	0.2+	2000 03 03	704	0.1−	0.6+
2000 01 05	691	0.2+	0.2+	2000 02 29	704	1.8−	1.2−	2000 03 03	704	0.6+	0.4−

2000 AO₂₁₄ = 1995 WJ₂₃

Id. A. Gnädig, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		166.78666		(2000.0)		P		Q	
<i>n</i>		0.29987610	ω	75.45831		+0.83579869		+0.54897134	
<i>a</i>		2.2105897	Ω	251.24457		−0.50709530		+0.76597770	
<i>e</i>		0.1255766	<i>i</i>	0.50991		−0.21046354		+0.33452747	
<i>P</i>		3.29	<i>H</i>	15.3		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1984 03 11	413	0.1−	0.6−	1998 08 23	699	0.2+	0.3+	2000 01 09	691	0.6−	0.1−
1984 03 11	413	0.2+	0.9−	1998 08 23	699	0.0	0.5+	2000 02 03	704	0.3+	0.8+
1984 05 23	413	1.1−	0.9+	1998 08 23	699	0.4+	0.6+	2000 02 03	704	0.3+	0.1+
1984 05 23	413	0.1+	0.1+	1998 09 21	699	0.3−	0.4−	2000 02 03	704	0.1−	0.2−
1991 03 23	413	0.1+	1.1−	1998 09 21	699	0.8−	0.0	2000 02 03	704	0.1+	0.4+
1991 03 23	413	0.4−	0.0	1998 09 21	699	0.0	0.7−	2000 02 03	704	0.3−	0.4−
1995 11 18	691	0.4+	0.3+	1998 11 09	910	1.7−	0.4−	2000 02 05	695	0.4+	0.1+
1995 11 18	691	0.6+	0.0	1998 11 09	910	1.4−	0.2−	2000 02 05	704	0.0	0.8−
1995 11 18	691	0.6+	0.1−	1998 11 09	910	1.7−	0.3−	2000 02 05	695	0.8+	0.3+
1995 11 23	691	0.3−	0.3−	2000 01 05	704	1.3−	0.9+	2000 02 05	704	0.2−	0.0
1995 11 23	691	0.1−	0.1−	2000 01 05	704	0.1−	1.2−	2000 02 05	704	0.1−	0.2−
1995 11 23	691	0.2−	0.2−	2000 01 05	704	1.7−	0.2−	2000 02 06	704	0.8+	0.8−

M.P.C. 39356

1997 03 13	675	(3.6− 2.3+)	2000 01 05	704	0.4− 0.4+	2000 02 06	704	0.4− 0.3−
1997 03 13	675	0.3+ 0.9+	2000 01 06	691	0.1− 0.1+	2000 02 06	704	0.6+ 0.4−
1998 08 17	704	0.8+ 0.5+	2000 01 06	691	0.1+ 0.1+	2000 03 12	691	0.6+ 0.1+
1998 08 17	704	1.6+ 1.0−	2000 01 06	691	0.1− 0.1+	2000 03 12	691	0.6+ 0.2−
1998 08 17	704	0.0 0.6−	2000 01 09	691	0.3− 0.1−	2000 03 12	691	0.7+ 0.1−
1998 08 17	704	0.5+ 0.2−	2000 01 09	691	0.0 0.2+			

2000 AZ₂₁₅ = 1996 SW

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	270.40506	(2000.0)	P	Q
<i>n</i>	0.18307685	ω	118.51078	+0.02966267
<i>a</i>	3.0717115	Ω	153.05571	+0.04329225
<i>e</i>	0.2791437	<i>i</i>	6.19561	−0.30879913
<i>P</i>	5.38	<i>H</i>	14.0	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1996 08 13	327	0.2− 0.3+	2000 01 10	691	0.1+ 0.0	2000 03 03	704	0.1− 0.2+
1996 08 13	327	0.4+ 0.4+	2000 01 10	691	0.1+ 0.3−	2000 03 03	704	0.0 0.0
1996 08 13	327	0.2− 0.7+	2000 02 02	703	0.7+ 0.5+	2000 03 03	704	0.5+ 0.3+
1996 09 18	327	0.3− 0.4+	2000 02 02	703	1.1+ 1.0+	2000 03 03	704	0.5+ 0.4+
1996 09 18	327	0.1− 0.4+	2000 02 02	703	0.3− 1.1+	2000 03 03	704	0.4+ 0.2+
1996 09 18	327	0.4− 0.8+	2000 02 02	704	0.7+ 0.4−	2000 03 05	704	0.8− 0.2+
1996 09 18	327	0.1− 0.1+	2000 02 02	703	0.2− 1.4+	2000 03 05	704	0.2+ 0.7−
1996 09 18	327	0.2+ 0.2−	2000 02 02	704	0.8+ 0.1+	2000 03 05	704	0.3+ 0.3−
1996 09 18	327	1.6+ 1.6−	2000 02 02	704	0.7+ 0.4+	2000 03 05	704	0.1+ 0.9+
1996 09 20	327	0.2− 0.1+	2000 02 02	704	0.2+ 0.8+	2000 03 05	704	0.1+ 0.1−
1996 09 20	327	0.3− 0.1−	2000 02 04	704	1.0− 0.3−	2000 03 11	704	1.3− 1.0−
1996 09 20	327	0.7− 0.1+	2000 02 04	704	1.1− 0.1−	2000 03 11	704	0.6− 0.5−
2000 01 07	691	0.2− 0.7−	2000 02 04	704	0.5− 0.6+	2000 03 11	704	0.5+ 1.3−
2000 01 07	691	0.5− 0.4−	2000 02 04	704	1.0+ 0.6+	2000 03 11	704	0.7− 1.0−
2000 01 07	691	0.7− 0.5−	2000 02 29	704	0.6+ 0.0	2000 03 11	699	0.1+ 0.3+
2000 01 08	691	0.5− 0.4−	2000 02 29	704	1.1+ 0.4+	2000 03 11	699	0.3+ 0.4−
2000 01 08	691	0.3− 0.5−	2000 02 29	704	1.1+ 0.6+	2000 03 11	699	1.2− 0.4−
2000 01 08	691	0.4− 0.7−	2000 02 29	704	0.3− 0.4+	2000 03 11	699	0.7− 0.2+
2000 01 10	691	0.3− 0.0	2000 02 29	704	0.5+ 0.7+			

2000 AL₂₂₇ = 1998 RB₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	102.36753	(2000.0)	P	Q
<i>n</i>	0.26365511	ω	78.38610	+0.77720721
<i>a</i>	2.4086771	Ω	320.30218	+0.52952584
<i>e</i>	0.1044597	<i>i</i>	5.93275	+0.70711005
<i>P</i>	3.74	<i>H</i>	15.7	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	0.5+ 1.4+	1998 09 18	704	0.1− 0.7−	2000 02 29	704	0.5+ 1.1−
1998 09 14	704	1.9− 0.9+	2000 01 10	691	0.1+ 0.1−	2000 03 03	704	0.7+ 0.0
1998 09 14	704	0.1+ 0.0	2000 01 10	691	0.0 0.1+	2000 03 03	704	0.1− 0.0
1998 09 14	704	(2.2− 0.3−)	2000 01 10	691	0.1− 0.1−	2000 03 03	704	0.1+ 0.5+
1998 09 16	699	0.6+ 1.4−	2000 01 16	691	0.1+ 0.1+	2000 03 03	704	0.5− 0.3+
1998 09 16	699	1.2+ 1.8−	2000 01 16	691	0.0 0.1−	2000 03 03	704	0.6− 0.4+
1998 09 16	699	1.4+ 0.6−	2000 01 16	691	0.0 0.1−	2000 03 11	704	0.1+ 0.1−
1998 09 18	704	(0.9− 2.3−)	2000 02 29	704	0.1+ 0.2+	2000 03 11	704	0.6+ 0.4−
1998 09 18	704	0.2− 0.3+	2000 02 29	704	0.1− 0.1+	2000 03 11	704	0.5− 0.1+
1998 09 18	704	0.0 0.7+	2000 02 29	704	0.3− 0.1+	2000 03 11	704	0.2+ 0.8−
1998 09 18	704	1.6− 1.1+	2000 02 29	704	0.3− 1.0+			

2000 AN₂₂₇ = 1990 PC

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	255.49859	(2000.0)	P	Q
<i>n</i>	0.27325395	ω	317.94769	+0.20308127
<i>a</i>	2.3519338	Ω	323.49295	−0.85246686
<i>e</i>	0.2448978	<i>i</i>	8.83551	−0.48172425
<i>P</i>	3.61	<i>H</i>	15.0	<i>G</i> 0.15 <i>U</i> 4

2000 MAR. 20

Residuals in seconds of arc

1990 08 15	372	1.1− 0.2+	2000 01 10	691	0.3+ 0.2+	2000 03 03	704	0.2− 0.1−
1990 08 15	372	0.4+ 0.7−	2000 01 16	691	0.3− 0.2+	2000 03 03	704	0.4+ 0.1+
1990 08 18	372	1.2+ 0.6+	2000 01 16	691	0.4− 0.0	2000 03 03	704	0.2− 0.1+
1990 08 18	372	0.6− 0.1+	2000 01 16	691	0.3− 0.1−	2000 03 03	704	0.5+ 1.3+
1990 08 20	372	(3.0+ 2.3−)	2000 02 29	704	0.5− 0.5−	2000 03 11	704	0.5+ 0.5−
1990 08 20	372	(2.1+ 4.5−)	2000 02 29	704	0.7+ 0.2−	2000 03 11	704	0.0 0.2−
2000 01 10	691	0.2+ 0.1+	2000 02 29	704	0.3+ 0.8−	2000 03 11	704	0.2+ 0.6+
2000 01 10	691	0.1+ 0.0	2000 03 03	704	0.0 0.1−	2000 03 11	704	1.1− 0.1+

2000 AQ₂₂₇ = 1997 WK₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	261.54595	(2000.0)	P	Q
<i>n</i>	0.17218950	ω	293.47915	−0.06134009
<i>a</i>	3.1998646	Ω	332.95520	−0.89086283
<i>e</i>	0.1225074	<i>i</i>	3.66341	−0.45011201
<i>P</i>	5.72	<i>H</i>	14.3	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1997 11 22	691	0.2+ 0.0	2000 01 16	691	0.4+ 0.2−	2000 03 11	704	1.2− 0.7+
1997 11 22	691	0.1+ 0.2+	2000 02 29	704	0.2− 0.4−	2000 03 11	704	0.6+ 0.4+
1997 11 22	691	0.4+ 0.5+	2000 02 29	704	0.3− 0.2+	2000 03 11	704	0.4+ 0.2−
1997 11 23	691	0.3− 0.4−	2000 02 29	704	0.3+ 0.1+	2000 03 11	704	0.1+ 0.0
1997 11 23	691	0.3− 0.1−	2000 02 29	704	0.6− 0.4−	2000 03 11	704	0.4+ 1.1+
1997 11 23	691	0.2− 0.0	2000 02 29	704	0.2− 0.3+	2000 03 11	699	1.2− 1.0−
2000 01 10	691	0.4− 0.0	2000 03 03	704	0.4+ 0.2−	2000 03 11	699	0.7+ 0.1−
2000 01 10	691	0.5− 0.0	2000 03 03	704	0.7+ 0.0	2000 03 11	699	0.3− 0.1−
2000 01 10	691	0.4− 0.3+	2000 03 03	704	0.3+ 0.0	2000 03 11	699	0.2− 0.1+
2000 01 16	691	0.3+ 0.2−	2000 03 03	704	0.3+ 0.2−			
2000 01 16	691	0.3+ 0.3−	2000 03 03	704	0.4+ 0.4+			

2000 AQ₂₂₈ = 1998 HO₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	53.17196	(2000.0)	P	Q
<i>n</i>	0.27514125	ω	138.91253	+0.99834622
<i>a</i>	2.3411662	Ω	222.64649	+0.00640374
<i>e</i>	0.2337864	<i>i</i>	4.35172	+0.05712981
<i>P</i>	3.58	<i>H</i>	14.0	<i>G</i> 0.15 <i>U</i> 3

Residuals in seconds of arc

1998 04 21	704	0.3− 0.2−	1999 11 03	703	0.0 0.5+	1999 12 02	699	0.2− 0.5+
1998 04 21	704	0.9− 0.2+	1999 11 03	703	0.0 0.3+	2000 01 05	704	0.3+ 0.3−
1998 04 21	704	0.6+ 1.0+	1999 11 03	703	0.0 0.3+	2000 01 05	704	0.2+ 0.4−
1998 04 21	704	1.0− 0.0	1999 11 04	704	0.2+ 0.4−	2000 01 05	704	0.3+ 0.4+
1998 04 21	704	0.2− 0.2+	1999 11 04	704	0.2+ 0.6−	2000 01 05	704	0.8+ 0.5−
1998 04 22	704	0.2+ 0.8−	1999 11 04	704	0.2+ 0.5−	2000 01 05	704	0.6+ 0.6−
1998 04 22	704	0.8+ 0.0	1999 11 04	704	0.6+ 0.9−	2000 01 06	699	0.4− 0.2−
1998 04 22	704	0.5− 0.5+	1999 11 04	704	0.6+ 1.2−	2000 01 06	699	0.9− 0.5−
1998 04 22	704	1.3+ 0.1−	1999 11 12	704	0.4+ 0.2+	2000 01 06	699	0.4− 0.1−
1998 04 22	704	0.4+ 1.0+	1999 11 12	704	0.5+ 0.0	2000 01 07	704	0.0 0.5+
1999 07 23	704	0.0 0.5+	1999 11 12	704	0.8− 0.5−	2000 01 07	704	0.2+ 0.1+
1999 07 23	704	0.5+ 0.3+	1999 11 12	704	0.4+ 0.3−	2000 01 07	704	0.1− 0.4−
1999 07 23	704	0.0 0.4−	1999 11 12	704	0.5− 0.4−	2000 01 07	704	0.8− 0.7+
1999 07 23	704	0.9+ 0.4−	1999 11 16	704	0.1+ 0.6+	2000 01 07	704	0.6− 1.3+
1999 07 23	704	1.1− 0.3+	1999 11 16	704	0.0 0.0	2000 02 04	704	0.7+ 0.6−
1999 09 12	703	0.2− 0.8+	1999 11 16	704	0.3− 0.1+	2000 02 04	704	0.0 0.4+
1999 09 12	703	0.2+ 1.0+	1999 11 16	704	0.2− 0.2+	2000 02 04	704	0.0 0.7+
1999 09 12	703	0.2− 0.3+	1999 11 16	704	0.7− 0.0	2000 02 04	704	0.1+ 0.2+
1999 09 12	703	0.5− 0.0	1999 12 02	699	0.2− 0.6+	2000 02 04	704	0.2− 0.3+
1999 11 03	703	0.1− 0.2+	1999 12 02	699	0.1+ 0.8+			

2000 AA₂₂₉ = 1998 SC₁₆₅

Id. A. Doppler

2000 MAR. 20

M.P.C. 39357

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	237.92428	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.18629819	ω	67.05366	-0.80381410	+0.57601501	
<i>a</i>	3.0361994	Ω	147.54543	-0.59453681	-0.78636513	
<i>e</i>	0.0706115	<i>i</i>	16.07890	+0.02022041	-0.22324110	
<i>P</i>	5.29	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>
						3

Residuals in seconds of arc

1998 09 22	699	0.2-	0.3+	1999 12 03	704	0.6-	0.5+	2000 01 08	699	0.0	0.2-
1998 09 22	699	0.3-	0.4-	1999 12 03	704	0.4-	0.2-	2000 01 08	699	0.1+	0.5-
1998 09 22	699	0.2-	0.1+	1999 12 03	704	0.9-	0.5-	2000 02 05	704	0.4-	0.2+
1998 09 27	699	0.5+	0.2+	1999 12 16	699	0.0	0.5+	2000 02 05	704	1.1+	0.4-
1998 09 27	699	0.4+	0.3+	1999 12 16	699	0.5+	0.3+	2000 02 05	704	1.7+	0.9-
1998 09 27	699	0.2-	0.3-	1999 12 16	699	0.5+	0.2+	2000 02 05	704	1.4+	1.2+
1999 10 31	703	0.3+	0.7+	2000 01 07	699	0.3-	0.2+	2000 02 06	704	0.9-	0.5+
1999 10 31	703	0.1-	0.3+	2000 01 07	699	0.3+	0.3+	2000 02 06	704	0.1+	0.3-
1999 10 31	703	0.5+	0.7-	2000 01 07	699	0.2-	0.0	2000 02 06	704	0.6-	0.4+
1999 10 31	703	0.2-	0.6-	2000 01 08	704	0.1-	0.0	2000 02 06	704	0.0	0.1-
1999 11 06	699	0.3+	0.4-	2000 01 08	704	0.4-	0.3-	2000 02 06	704	0.4+	0.1-
1999 11 06	699	0.7+	0.1-	2000 01 08	704	0.5-	0.1+	2000 03 06	704	0.3-	0.1+
1999 11 06	699	0.2+	0.4-	2000 01 08	699	0.0	0.2-	2000 03 06	704	0.3-	0.1-
1999 12 03	704	0.3-	0.2-	2000 01 08	704	0.5-	0.3-	2000 03 06	704	0.2-	0.0
1999 12 03	704	0.2+	0.8+	2000 01 08	704	0.7-	0.0				

2000 AT₂₃₀ = 6386 P-L = 1990 RU₇ = 1994 TV₇ = 1998 UO₄₂

Id. G. V. Williams (MPC 38710), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	282.82659	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.26188371	ω	58.87124	-0.62243882	+0.78266454	
<i>a</i>	2.4195265	Ω	172.63281	-0.72449938	-0.57497848	
<i>e</i>	0.1454653	<i>i</i>	1.10649	-0.29609215	-0.23840293	
<i>P</i>	3.76	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>
						1

Residuals in seconds of arc

1960 09 26	675	0.4-	0.8+	2000 01 06	704	0.2-	0.2+	2000 02 05	704	0.4+	0.2+
1960 09 27	675	1.1+	0.8+	2000 01 06	704	0.8-	0.5+	2000 02 05	704	0.2+	0.9-
1960 09 28	675	1.2-	0.3-	2000 01 06	704	0.5-	0.5-	2000 02 05	704	0.3-	0.1+
1990 09 14	809	0.2+	0.1-	2000 01 30	703	0.5-	0.2+	2000 02 05	704	0.6+	0.4-
1990 09 14	809	0.6+	0.1+	2000 01 30	703	0.1+	0.1+	2000 02 05	704	0.4+	0.6-
1990 09 14	809	1.2+	0.1+	2000 01 30	703	0.6-	0.1+	2000 02 05	704	0.3-	0.4-
1990 09 15	809	0.6-	0.3+	2000 01 30	703	0.2+	0.3+	2000 02 05	704	0.6+	0.3+
1990 09 15	809	0.1-	0.4+	2000 02 02	704	0.1-	0.6-	2000 02 05	704	1.0-	0.9+
1990 09 15	809	0.4+	0.4+	2000 02 02	704	0.4+	0.2-	2000 02 05	704	0.0	0.0
1994 10 06	691	0.7-	0.5-	2000 02 02	704	0.3-	0.1-	2000 02 05	704	0.0	0.1-
1994 10 06	691	0.2-	0.9-	2000 02 02	704	0.0	0.0	2000 02 11	704	0.5+	0.2+
1994 10 06	691	1.0-	0.1+	2000 02 02	704	0.1+	0.4-	2000 02 11	704	0.1-	1.5+
1994 10 11	691	0.8-	0.2-	2000 02 03	704	0.1+	0.3+	2000 02 11	704	1.7+	0.3+
1994 10 11	691	0.7-	0.4-	2000 02 03	704	0.2-	0.0	2000 02 11	704	0.4-	1.0-
1994 10 11	691	0.6-	0.2-	2000 02 03	704	0.4-	0.3-	2000 02 26	703	0.2-	0.8+
1998 10 28	704	0.0	1.6-	2000 02 03	704	0.2-	0.2-	2000 02 26	703	0.8-	0.0
1998 10 28	704	1.8+	0.8-	2000 02 03	704	0.2+	0.1-	2000 02 26	703	0.1-	0.5+
1998 10 28	704	0.0	0.1-	2000 02 05	704	1.2+	0.6+	2000 02 26	703	1.2-	1.6+
1998 10 28	704	0.0	0.6+	2000 02 05	704	0.3+	0.7+	2000 03 04	691	0.1+	0.5-
1998 10 29	704	1.2+	0.8+	2000 02 05	704	0.2-	0.1+	2000 03 04	691	0.1+	0.5-
1998 10 29	704	0.8+	0.2+	2000 02 05	704	0.3+	0.4+	2000 03 04	691	0.2+	0.4-
1998 10 29	704	0.5+	1.0+	2000 02 05	704	0.1+	1.2+	2000 03 12	691	0.4-	0.4-
1998 10 29	704	1.1-	0.0	2000 02 05	704	0.9+	1.2-	2000 03 12	691	0.3-	0.3-
2000 01 03	691	0.7-	0.2-	2000 02 05	704	0.4-	0.0	2000 03 12	691	0.2-	0.4-
2000 01 03	691	0.7-	0.5-	2000 02 05	704	1.1+	0.3+				
2000 01 03	691	0.6-	0.2-	2000 02 05	704	1.3+	0.3-				

2000 AJ₂₃₃ = 1998 SW₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	43.79925	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.24196263	ω	67.31227	-0.18379704	-0.98134445	
<i>a</i>	2.5505696	Ω	33.43446	+0.86010754	-0.18833960	
<i>e</i>	0.1428586	<i>i</i>	5.87594	+0.47585046	-0.03861695	
<i>P</i>	4.07	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>
						4

Residuals in seconds of arc

1998 09 14	704	0.3+	0.2+	2000 01 04	704	0.3+	1.1-	2000 02 29	704	0.3-	0.9+
1998 09 14	704	0.4+	0.1-	2000 01 04	704	0.2-	1.9-	2000 02 29	704	0.4+	0.2+
1998 09 14	704	0.7-	0.4-	2000 01 04	704	0.6-	1.5-	2000 02 29	704	0.2+	0.3+
1998 09 17	699	1.1-	1.7+	2000 01 10	699	0.3+	0.2+	2000 02 29	704	0.1+	0.6+
1998 09 17	699	0.1-	1.2+	2000 01 10	699	0.2+	1.2+	2000 03 02	703	(6.7+	3.0-)
1998 09 17	699	0.6+	0.9+	2000 01 10	699	0.4+	0.3+	2000 03 02	703	0.8-	0.1-
1998 09 18	704	1.0-	1.5+	2000 02 02	411	0.2+	0.0	2000 03 02	703	0.6-	0.1-
1998 09 18	704	0.3-	0.4+	2000 02 02	411	0.7+	0.0	2000 03 02	703	0.1-	0.1+
1998 09 18	704	1.0-	0.2-	2000 02 03	704	0.3-	0.4+	2000 03 05	704	0.6-	0.1+
1998 09 18	704	(0.4-	2.6+)	2000 02 03	704	0.4+	0.0	2000 03 05	704	0.1+	0.0
1998 09 18	704	1.5-	1.6+	2000 02 03	704	0.3+	0.1+	2000 03 05	704	0.7-	0.1+
1998 09 25	699	0.1+	0.4+	2000 02 03	704	0.2+	0.4-	2000 03 05	704	0.0	0.2-
1998 09 25	699	0.8+	0.3+	2000 02 03	704	0.1+	0.5-	2000 03 05	704	0.1-	0.4+
1998 09 25	699	0.7+	0.7-	2000 02 04	411	0.2-	0.4+	2000 03 11	699	0.6+	0.4+
1998 09 26	704	0.1+	0.6-	2000 02 04	411	0.3-	0.1-	2000 03 11	699	0.7+	0.0
1998 09 26	704	0.2+	1.2-	2000 02 11	704	0.3-	0.5+	2000 03 11	699	0.8+	0.1+
1998 09 26	704	(1.7+	2.6-)	2000 02 11	704	0.9-	0.3+	2000 03 11	699	0.6+	0.3-
1998 09 26	704	(1.3+	2.1-)	2000 02 11	704	0.3+	0.4+	2000 03 12	704	0.1+	0.0
1998 09 26	704	0.7+	1.9-	2000 02 11	704	0.1+	0.2+	2000 03 12	704	0.0	0.4+
1998 09 27	704	(1.2+	2.4-)	2000 02 25	703	0.5-	0.3+	2000 03 12	704	0.0	0.4+
1998 09 27	704	0.2+	0.1-	2000 02 25	703	0.3-	0.1-	2000 03 12	704	0.2-	0.5+
1998 09 27	704	0.5+	0.6-	2000 02 25	703	0.3-	0.4-	2000 03 12	704	0.4-	0.5+
1998 09 27	704	(0.3-	2.2-)	2000 02 25	703	0.3-	0.0				
2000 01 04	704	0.0	1.1-	2000 02 29	704	1.8+	0.2-				

2000 AH₂₃₆ = 1998 RZ₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	37.53127	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.22822446	ω	288.27900	-0.00870187	-0.99739284	
<i>a</i>	2.6519251	Ω	161.76740	+0.98198114	-0.02204791	
<i>e</i>	0.1327587	<i>i</i>	13.23597	+0.18877847	+0.06871256	
<i>P</i>	4.32	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>
						3

Residuals in seconds of arc

1998 09 14	704	0.8-	0.9+	2000 01 05	699	0.6-	0.9+	2000 02 06	704	0.7+	0.2+
1998 09 14	704	0.2+	0.2-	2000 01 08	704	0.1+	0.3-	2000 02 06	704	0.2+	0.1+
1998 09 14	704	1.1-	0.2-	2000 01 08	704	0.2-	1.0-	2000 03 05	704	0.0	0.4+
1998 09 14	704	0.1+	1.5+	2000 01 08	704	0.3-	0.5+	2000 03 05	704	0.7+	0.3+
1998 09 18	704	0.5-	1.7-	2000 01 08	704	0.8-	0.1-	2000 03 05	704	0.3-	0.9+
1998 09 18	704	1.0+	0.2+	2000 01 11	704	0.4-	0.5+	2000 03 05	704	0.0	0.3+
1998 09 18	704	0.4-	0.6+	2000 01 11	704	1.0+	0.8-	2000 03 05	704	0.3-	1.3-
1998 09 18	704	0.2-	0.3-	2000 01 11	704	(0.1+	2.3-)	2000 03 08	704	0.7-	0.2-
1998 09 18	704	0.3-	0.6-	2000 02 06	704	0.1+	0.2-	2000 03 08	704	0.4-	0.3-
2000 01 05	699	0.2+	0.7+	2000 02 06	704	0.3+	0.3+	2000 03 08	704	0.0	0.0
2000 01 05	699	0.4-	0.5-	2000 02 06	704	1.0+	0.4-				

2000 AO₂₃₆ = 1999 AC

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	317.50533		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.22638644	ω	342.55265	-0.60267290	+0.79220756
a	2.6662597	Ω	250.28032	-0.71945641	-0.59140243
e	0.3215108	i	5.84576	-0.34520697	-0.15050034
P	4.35	H	13.9	G 0.15	U 3

Residuals in seconds of arc

1992 08 28	675	0.4+	0.2+	2000 01 05	704	0.0	0.2+	2000 02 13	704	0.1+	0.5+
1992 08 28	675	(0.1+	3.6+)	2000 01 05	704	0.1+	1.4+	2000 02 13	704	0.1+	0.4-
1996 06 13	566	0.1+	0.0	2000 01 06	699	0.1+	0.0	2000 02 13	704	0.4+	0.9+
1996 06 13	566	0.3-	0.2-	2000 01 06	699	0.3-	0.1-	2000 03 08	704	0.1+	0.5-
1996 06 13	566	0.2-	0.1-	2000 01 06	699	0.4+	0.2+	2000 03 08	704	0.3-	0.4-
1999 01 06	684	0.5-	0.1+	2000 02 07	703	0.1+	0.0	2000 03 08	704	0.2-	0.7-
1999 01 06	684	0.1+	0.7-	2000 02 07	703	0.3+	0.1-	2000 03 08	704	0.0	0.7-
1999 01 07	684	0.1+	0.8-	2000 02 07	703	0.2-	0.1+	2000 03 08	704	0.1+	1.4-
1999 01 07	684	0.0	0.1+	2000 02 07	703	0.2-	0.1+	2000 03 13	704	0.3+	0.0
1999 12 14	704	0.1+	1.5+	2000 02 08	704	0.1-	0.2+	2000 03 13	704	0.2+	0.3+
1999 12 14	704	0.7+	1.2-	2000 02 08	704	0.1-	0.2+	2000 03 13	704	0.1+	0.2+
1999 12 14	704	0.5-	1.6+	2000 02 08	704	0.4-	0.4-	2000 03 13	704	0.0	0.4+
1999 12 14	704	0.8-	0.9-	2000 02 08	704	0.1-	0.3-	2000 03 13	704	0.4+	0.8+
2000 01 05	704	0.1+	0.7-	2000 02 08	704	0.0	0.5-				
2000 01 05	704	0.3-	0.2+	2000 02 13	704	0.2+	0.2+				

2000 AR₂₃₆ = 1981 UJ₁ = 1991 PY

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	196.69054		(2000.0)	Williams			
		<i>P</i>	<i>Q</i>				
<i>n</i>	0.17899754	ω	11.97675	+0.79806369	+0.55141826		
<i>a</i>	3.1182050	Ω	311.77936	-0.57625312	+0.58054614		
<i>e</i>	0.0704737	<i>i</i>	19.01496	-0.17614392	+0.59908604		
<i>P</i>	5.51	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 10 23	675	0.6-	0.1-	2000 01 05	704	0.5-	0.4-	2000 03 08	704	0.1-	0.0
1981 10 23	675	0.6+	0.1+	2000 01 05	704	0.0	0.8+	2000 03 08	704	0.1-	0.5-
1991 08 05	675	0.6+	0.0	2000 01 06	699	0.8-	0.5-	2000 03 08	704	0.4+	0.2+
1991 08 05	675	0.1-	0.8-	2000 01 06	699	0.5-	0.9+	2000 03 12	704	0.2-	0.0
1991 08 08	675	0.6+	1.0+	2000 01 06	699	0.4-	0.5+	2000 03 12	704	0.4-	0.3-
1991 08 08	675	0.9+	0.3+	2000 02 08	704	0.2+	0.3-	2000 03 12	704	0.2-	0.4-
1991 08 10	809	1.2+	1.9-	2000 02 08	704	0.1+	0.3+	2000 03 12	704	0.7-	1.1-
1991 08 10	809	0.3+	1.5-	2000 02 08	704	0.1-	0.3+	2000 03 12	704	0.7-	1.0-
1991 08 10	809	0.4-	0.7-	2000 02 08	704	0.1+	0.2+	2000 03 13	704	0.9+	0.5+
1998 12 14	704	0.7+	0.7+	2000 02 08	704	0.2-	0.6+	2000 03 13	704	0.1+	0.0
1998 12 14	704	1.1-	0.4-	2000 02 13	704	(1.9-	2.2+)	2000 03 13	704	0.1-	0.8-
1998 12 14	704	0.4+	0.2-	2000 02 13	704	0.9+	0.9+	2000 03 13	704	0.0	0.1+
1998 12 14	704	0.1+	0.8+	2000 02 13	704	1.4+	0.8-	2000 03 13	704	0.2+	0.8-
1998 12 14	704	1.7-	1.5+	2000 03 01	703	0.1+	0.2-	2000 03 14	703	0.6+	0.1-
1999 01 16	704	1.7+	0.5+	2000 03 01	703	0.4-	0.5-	2000 03 14	703	0.3+	0.4+
1999 01 16	704	0.6+	1.9-	2000 03 01	703	0.4+	0.3-	2000 03 14	703	1.5-	0.0
1999 01 16	704	0.9+	1.5-	2000 03 01	703	0.1+	0.0	2000 03 14	703	1.0-	0.2+
1999 01 16	704	1.4-	1.3-	2000 03 08	704	0.1-	0.1-				
2000 01 05	704	0.5-	0.3+	2000 03 08	704	0.3-	0.3-				

2000 AS₂₃₆ = 1995 AX₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	92.67550		(2000.0)	Williams			
		<i>P</i>	<i>Q</i>				
<i>n</i>	0.22132741	ω	108.10909	+0.64040577	-0.74477252		
<i>a</i>	2.7067361	Ω	300.58564	+0.59616145	+0.63603420		
<i>e</i>	0.1471712	<i>i</i>	12.58695	+0.48422306	+0.20192668		
<i>P</i>	4.45	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1995 01 04	010	0.1-	0.7-	1999 12 14	704	(7.8-	6.8-)	2000 03 01	703	0.1+	0.4+
1995 01 04	010	0.4-	0.8-	1999 12 16	699	0.6+	0.2-	2000 03 01	703	0.1-	0.3+
1995 01 04	010	1.0-	1.4-	1999 12 16	699	0.3-	1.3+	2000 03 01	703	0.4+	0.2+
1995 01 04	010	0.7+	1.2-	1999 12 16	699	0.5+	1.0+	2000 03 01	703	0.0	0.2+
1995 01 05	010	0.6-	1.2-	2000 01 05	704	0.0	0.2+	2000 03 08	704	0.3+	0.3+
1995 01 05	010	0.0	1.1-	2000 01 05	704	0.6-	0.1-	2000 03 08	704	0.0	0.1-
1998 08 29	704	1.0+	1.2-	2000 01 05	704	0.0	0.1-	2000 03 08	704	0.2+	0.1+
1998 08 29	704	0.8+	1.2+	2000 01 05	704	0.4-	0.3-	2000 03 08	704	0.1+	0.1+
1998 08 29	704	0.0	0.0	2000 01 06	699	0.0	0.2+	2000 03 08	704	0.1-	0.1-
1998 08 29	704	1.3+	1.2-	2000 01 06	699	0.1+	0.3+	2000 03 12	704	0.4-	0.4+
1998 08 29	704	(0.3-	2.1+)	2000 01 06	699	0.6+	0.4+	2000 03 12	704	0.1-	0.6+

1998 10 02	699	0.0	1.0+	2000 02 07	703	0.2+	0.6+	2000 03 12	704	0.8-	0.5-
1998 10 02	699	0.3-	1.0+	2000 02 07	703	0.3-	0.5+	2000 03 12	704	0.8-	0.9-
1998 10 02	699	0.2-	0.6+	2000 02 07	703	0.0	0.4+	2000 03 13	704	0.7+	0.9+
1998 11 21	699	1.1-	0.8+	2000 02 07	703	0.1-	0.4+	2000 03 13	704	1.0+	0.2-
1998 11 21	699	0.7-	0.5+	2000 02 08	704	0.3+	0.2+	2000 03 13	704	0.3+	0.7+
1998 11 21	699	1.2-	0.9+	2000 02 08	704	0.6+	0.6+	2000 03 13	704	0.9+	0.3+
1999 01 08	704	1.0-	0.6+	2000 02 08	704	0.3+	0.5-	2000 03 13	704	0.4+	0.8-
1999 01 08	704	1.3-	0.9+	2000 02 08	704	0.8-	0.7-	2000 03 14	703	0.0	0.2+
1999 01 08	704	0.4+	1.1+	2000 02 08	704	0.4+	0.3-	2000 03 14	703	0.0	0.2+
1999 01 08	704	1.0-	0.3-	2000 02 13	704	0.1+	0.3+	2000 03 14	703	0.0	0.0
1999 01 08	704	(2.9-	1.2+)	2000 02 13	704	1.4+	0.3+	2000 03 14	703	0.0	0.3+
1999 12 14	704	0.0	0.1-	2000 02 13	704	0.0	0.6+				
1999 12 14	704	1.6-	0.6-	2000 02 13	704	0.1-	0.9-				

2000 AZ₂₃₆ = 1980 FQ₁₀ = 1990 FS₅ = 1997 CN₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	274.51737		(2000.0)	Williams			
		<i>P</i>	<i>Q</i>				
<i>n</i>	0.29402400	ω	112.86475	-0.10997325	+0.99234679		
<i>a</i>	2.2398255	Ω	150.65000	-0.94875266	-0.08796493		
<i>e</i>	0.1721251	<i>i</i>	6.57911	-0.29626724	-0.08666042		
<i>P</i>	3.35	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1980 03 16	095	0.8+	0.9+	2000 02 06	704	0.3+	0.3-	2000 03 05	704	0.4-	0.1+
1990 03 18	494	1.3-	0.8-	2000 02 06	704	0.6+	0.0	2000 03 05	704	0.1-	0.2+
1997 02 14	327	0.8-	0.6-	2000 02 06	704	0.1+	0.5+	2000 03 05	704	0.6-	0.5+
1997 02 14	327	0.5-	0.2-	2000 02 06	704	0.8+	0.1-	2000 03 06	704	0.1+	0.1+
1997 02 14	327	0.3+	0.2-	2000 02 11	704	0.0	0.1-	2000 03 06	704	0.3+	0.1+
1997 02 20	327	1.5+	0.0	2000 02 11	704	0.4+	0.6-	2000 03 06	704	0.1+	0.2+
1997 02 20	327	1.2-	0.1+	2000 02 11	704	0.9+	0.0	2000 03 08	704	0.3+	0.2+
1997 02 20	327	0.3-	0.2-	2000 02 11	704	0.3+	0.0	2000 03 08	704	0.1-	0.4+
1997 02 20	327	0.5+	0.2+	2000 02 11	704	0.5+	0.1+	2000 03 08	704	0.3-	0.2+
1998 11 13	704	0.4+	0.4-	2000 02 25	703	0.1+	0.2+	2000 03 08	704	0.3-	0.5+
1998 11 13	704	0.5+	0.3+	2000 02 25	703	0.3-	0.1-	2000 03 08	704	0.2-	0.4+
1998 11 13	704	0.2+	0.3+	2000 02 25	703	0.3-	0.3+	2000 03 09	704	0.0	0.1+
1998 11 13	704	1.1-	1.5-	2000 02 25	703	0.2-	0.1+	2000 03 09	704	0.3-	0.2-
1998 11 13	704	0.0	1.1+	2000 02 29	704	0.0	0.1+	2000 03 09	704	0.2-	0.2+
2000 01 05	704	0.2+	0.4-	2000 02 29	704	0.1-	0.3-	2000 03 09	704	0.4-	0.0
2000 01 05	704	0.1-	0.8-	2000 02 29	704	0.1-	0.3-	2000 03 09	704	0.1-	0.2+
2000 01 05	704	0.5+	0.2-	2000 02 29	704	0.2-	0.0	2000 03 09	608	(0.8+ 2.3-)	
2000 01 05	704	0.9+	0.7+	2000 02 29	704	0.3-	0.2+	2000 03 09	608	0.8+	0.7-
2000 01 06	699	0.7-	1.1+	2000 03 03	704	0.2+	0.0	2000 03 09	608	0.7+	0.1-
2000 01 06	699	0.1+	0.0	2000 03 03	704	0.3+	0.4-	2000 03 11	704	0.0	0.1+
2000 01 06	699	0.5-	1.1+	2000 03 03	704	0.3+	0.8-	2000 03 11	704	0.0	0.4+
2000 02 04	120	0.4-	0.5-	2000 03 03	704	0.0	0.9-	2000 03 11	704	0.2-	0.1-
2000 02 04	120	0.1-	0.4-	2000 03 04	704	0.2-	0.1-	2000 03 11	699	0.1+	0.1+
2000 02 04	120	0.9-	1.1-	2000 03 04	704	0.2+	0.2-	2000 03 11	704	0.0	0.3+
2000 02 04	120	0.6-	0.5-	2000 03 04	704	0.0	0.1+	2000 03 11	704	0.0	0.4+
2000 02 05	704	0.2-	0.4-	2000 03 04	704	0.3+	0.2+	2000 03 11	699	0.2-	0.3+
2000 02 05	704	0.1-	0.1+	2000 03 04	704	0.5+	0.3+	2000 03 11	699	0.6-	0.3+
2000 02 05	704	0.3+	0.1-	2000 03 05	704	0.1-	0.0	2000 03 11	699	0.1-	0.1+
2000 02 06	704	0.3+	0.3-	2000 03 05	704	0.2-	0.0				

2000 MAR. 20

M.P.C. 39359

1998 11 16	704	0.5−	1.0−	2000 01 05	704	0.2+	0.8−	2000 03 09	704	0.5+	0.1+
1998 12 14	704	1.7−	0.1−	2000 01 11	699	0.7+	0.4+	2000 03 09	704	0.2+	0.4+
1998 12 14	704	0.0	0.3−	2000 01 11	699	1.4+	1.2+	2000 03 13	704	0.1−	0.6−
1998 12 14	704	0.9+	0.0	2000 01 11	699	1.2+	0.6+	2000 03 13	704	0.2−	0.4+
1998 12 14	704	1.2+	0.7+	2000 02 07	704	0.1−	0.1+	2000 03 13	704	0.2+	0.3−
1998 12 17	704	0.2−	0.0	2000 02 07	704	0.4−	1.0−				
1998 12 17	704	0.7−	0.3−	2000 02 07	704	(0.3+	2.5−)				

2000 AH₂₃₇ = 1998 VU₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24588131	ω	142.34367	+0.48540403	−0.86817409		
<i>a</i>	2.5233977	Ω	278.40092	+0.77465161	+0.48181785		
<i>e</i>	0.0628066	<i>i</i>	5.98977	+0.40533667	+0.11884993		
<i>P</i>	4.01	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	0.3+	0.5−	1999 01 08	704	0.9−	0.0	2000 02 07	704	1.4−	0.4−
1998 11 10	704	0.6−	0.7−	1999 01 08	704	0.1+	0.2−	2000 02 07	704	1.1−	0.1−
1998 11 10	704	0.1+	0.1−	2000 01 05	704	1.4−	1.3−	2000 02 07	704	0.6−	1.0−
1998 11 10	704	0.0	0.2−	2000 01 05	704	1.0−	0.9−	2000 02 07	704	0.8−	1.2−
1998 11 11	704	0.4+	0.7−	2000 01 05	704	1.7−	1.2−	2000 02 08	704	1.4+	0.4+
1998 11 11	704	0.6−	0.4−	2000 01 05	704	1.1−	0.4−	2000 02 08	704	0.5+	0.1−
1998 11 11	704	0.5−	0.3+	2000 01 11	699	0.5+	0.7+	2000 02 08	704	0.9+	0.7+
1998 11 11	704	0.3−	0.5+	2000 01 11	699	0.6+	0.9+	2000 02 08	704	0.5+	0.2−
1998 11 11	704	0.2+	0.4+	2000 01 11	699	0.5+	1.0+	2000 02 08	704	0.7+	0.1−
1999 01 06	699	0.4+	0.1+	2000 02 02	704	1.0+	0.5+	2000 03 08	704	0.2+	0.2−
1999 01 06	699	0.5+	0.6−	2000 02 02	704	0.9+	1.0+	2000 03 08	704	0.5+	0.2−
1999 01 06	699	1.1+	0.0	2000 02 02	704	0.7+	1.9+	2000 03 08	704	1.3−	0.6−
1999 01 08	704	0.8−	1.6+	2000 02 02	704	(0.4+	2.3+)	2000 03 08	704	0.2−	0.1+
1999 01 08	704	1.0+	1.1+	2000 02 02	704	0.7+	1.1+	2000 03 08	704	0.4+	0.5+
1999 01 08	704	(2.3+	0.6+)	2000 02 07	704	0.6−	0.9−	2000 03 08	704	0.3+	0.4−

2000 AQ₂₃₇ = 1998 WS₁₄ = 1998 XT₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26770603	ω	44.97213	−0.62401677	+0.78140127		
<i>a</i>	2.3843168	Ω	186.42132	−0.72635297	−0.58187688		
<i>e</i>	0.1801780	<i>i</i>	1.99302	−0.28812225	−0.22545812		
<i>P</i>	3.68	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 18	704	0.9−	1.2−	1998 12 16	910	0.3+	0.6+	2000 03 02	732	0.3−	0.1−
1998 11 18	704	0.8−	0.5−	1998 12 20	691	0.4−	0.6−	2000 03 02	732	0.5−	0.2−
1998 11 18	704	0.0	0.4−	1998 12 20	691	0.2−	0.6−	2000 03 02	732	0.4−	0.4−
1998 11 18	704	0.0	0.5−	1998 12 20	691	0.1−	0.6−	2000 03 03	704	0.5+	0.2−
1998 11 18	704	1.2+	0.9+	1998 12 21	910	0.3+	0.1+	2000 03 03	704	0.3+	0.2−
1998 11 20	699	0.4+	0.4+	1998 12 21	910	0.3+	0.1−	2000 03 03	704	0.2−	0.6−
1998 11 20	699	0.2+	0.8−	1998 12 21	910	0.3+	0.1+	2000 03 04	732	0.0	0.8+
1998 11 20	699	0.9−	0.0	2000 01 05	704	1.2+	0.9−	2000 03 04	732	1.6+	0.1−
1998 11 21	704	0.7+	0.3+	2000 01 05	704	0.6−	0.1+	2000 03 04	732	1.7+	0.7−
1998 11 21	704	0.8+	0.8−	2000 01 05	704	0.2+	0.5−	2000 03 08	704	0.2−	0.3+
1998 11 21	704	1.2−	0.3+	2000 01 05	704	0.7−	0.5−	2000 03 08	704	0.3+	1.2+
1998 11 21	704	1.1+	0.3+	2000 01 06	699	0.0	0.5−	2000 03 08	704	0.7−	1.0+
1998 11 21	704	0.1−	0.1−	2000 01 06	699	0.0	0.0	2000 03 08	704	0.2−	1.6+
1998 11 24	704	0.7+	0.2−	2000 01 06	699	0.6−	0.9+	2000 03 08	704	0.7−	0.3+
1998 11 24	704	0.3−	0.1−	2000 02 27	703	0.1−	0.0	2000 03 10	608	(0.1−	4.0−)
1998 11 24	704	1.4−	0.7+	2000 02 27	703	0.1−	0.1−	2000 03 10	608	0.2−	1.3−
1998 11 24	704	0.7+	0.8+	2000 02 27	703	0.3−	0.1+	2000 03 10	608	0.1−	1.1−
1998 12 15	910	0.5−	0.3+	2000 02 27	703	0.1+	0.1−	2000 03 11	704	0.1−	0.1+
1998 12 15	910	0.4−	0.2+	2000 02 29	704	0.5+	0.2−	2000 03 11	704	0.1−	0.0
1998 12 15	910	0.5−	0.3+	2000 02 29	704	0.6+	0.6+	2000 03 11	704	0.1−	0.1+
1998 12 16	910	0.2+	0.8+	2000 02 29	704	0.2−	0.2+	2000 03 11	704	0.1−	0.3−
1998 12 16	910	0.3+	0.8+	2000 02 29	704	0.5−	0.6+	2000 03 11	704	0.2−	0.3−

2000 AE₂₃₉ = 1998 QX₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30051885	ω	20.41530	+0.68144090	+0.72866017		
<i>a</i>	2.2074366	Ω	292.61058	−0.68135680	+0.59744927		
<i>e</i>	0.1744983	<i>i</i>	4.25563	−0.26719134	+0.33482641		
<i>P</i>	3.28	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 07 02	699	0.0	0.5+	1998 08 23	704	0.4−	0.9+	2000 02 02	704	0.2+	0.6+
1998 07 02	699	0.2+	0.5+	1998 08 23	704	(1.1+	2.4+)	2000 02 02	704	0.3+	0.1+
1998 07 02	699	0.3−	0.9+	1998 08 23	704	0.6−	1.1+	2000 02 02	704	0.3+	0.3+
1998 08 17	704	0.2−	0.1−	2000 01 06	704	0.2+	0.9−	2000 02 03	704	0.9−	0.1−
1998 08 17	704	0.2−	0.3−	2000 01 06	704	0.1+	0.9−	2000 02 03	704	0.3−	0.2+
1998 08 17	704	0.7−	0.8−	2000 01 06	704	0.4−	1.0−	2000 02 03	704	0.0	0.8+
1998 08 17	704	0.1−	0.3−	2000 01 07	691	0.2+	0.2+	2000 02 03	704	0.4+	1.0+
1998 08 17	704	0.5+	1.3−	2000 01 07	691	0.4+	0.6+	2000 02 03	704	0.5+	1.0+
1998 08 23	704	1.0+	0.3−	2000 01 07	691	0.0	0.3+				
1998 08 23	704	0.1+	1.5+	2000 02 02	704	0.4−	0.4+				

2000 AV₂₃₉ = 1970 SK₁ = 1984 UD₄ = 1998 QC₅₃Id. G. V. Williams (*MPC* 38713, unpublished), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21083135	ω	105.88884	+0.78294351	−0.61426304		
<i>a</i>	2.7958418	Ω	292.11377	+0.52238221	+0.73506006		
<i>e</i>	0.2543025	<i>i</i>	6.09638	+0.33781103	+0.28699762		
<i>P</i>	4.67	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1970 09 27	095	1.3+	2.2+	1998 12 24	699	0.9−	0.2−	2000 02 02	704	0.1+	0.1−
1970 10 01	095	1.3−	1.2−	1998 12 24	699	0.7−	0.2−	2000 02 02	704	0.5+	0.3−
1984 10 20	095	0.6−	0.0	1998 12 24	699	0.4−	0.3−	2000 02 02	704	0.2+	0.1−
1993 07 25	033	0.6−	1.1+	1999 01 08	704	0.8+	0.6−	2000 02 06	704	0.0	0.2−
1993 07 26	033	1.1−	0.5+	1999 01 08	704	0.0	0.1+	2000 02 06	704	0.1+	0.8−
1998 06 30	704	0.6+	0.2+	1999 01 08	704	1.2−	0.4+	2000 02 06	704	0.0	0.5−
1998 06 30	704	0.2+	0.0	1999 01 08	704	0.4−	0.6−	2000 02 06	704	0.8−	1.3+
1998 06 30	704	0.3−	0.2−	1999 01 08	704	(1.3+	2.2−)	2000 02 06	704	0.6+	0.5+
1998 06 30	704	0.6−	1.7+	1999 02 04	699	1.5−	0.5−	2000 02 12	704	0.3+	0.5−
1998 06 30	704	1.4−	0.5−	1999 02 04	699	0.1+	0.4+	2000 02 12	704	(2.3−	1.7−)
1998 08 20	699	0.7+	0.2+	1999 02 04	699	0.5−	0.4−	2000 02 12	704	0.3−	0.0
1998 08 20	699	0.5+	0.5+	1999 12 05	704	0.1+	0.0	2000 02 13	704	1.3+	0.1−
1998 08 20	699	0.0	0.5+	1999 12 05	704	0.5−	0.9−	2000 02 13	704	0.5−	0.3+
1998 08 27	699	0.1+	0.7+	1999 12 05	704	0.5−	0.2+	2000 02 13	704	0.6+	0.4+
1998 08 27	699	0.4+	0.9+	1999 12 05	704	0.6−	0.2+	2000 02 13	704	0.2−	0.7+
1998 08 27	699	0.2+	0.6+	1999 12 05	704	0.8−	0.3−	2000 03 11	699	0.3−	0.1+
1998 10 15	699	0.1−	0.3+	1999 12 05	699	0.1−	0.3+	2000 03 11	699	0.0	0.1+
1998 10 15	699	0.1+	0.4+	1999 12 05	699	0.8−	0.8−	2000 03 11	699	0.2−	0.1+
1998 10 15	699	0.2+	0.3+	1999 12 05	699	0.5+	0.5+	2000 03 11	699	0.0	

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	49.03720	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.21776747	ω	298.53559	-0.20907109	-0.97660914	
<i>a</i>	2.7361551	Ω	163.30457	+0.94717518	-0.21501134	
<i>e</i>	0.1235093	<i>i</i>	10.07122	+0.24320455	-0.00216827	
<i>P</i>	4.53	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1980 11 29	688	(4.7+ 2.4-)	1998 11 13	704	1.0- 1.0-	2000 02 26	849	0.0	0.3-
1980 11 29	688	(3.2+ 2.8-)	1998 11 13	704	1.4- 0.1-	2000 02 26	703	0.1-	0.4-
1980 11 30	095	0.9+ 0.2-	2000 01 05	704	0.9- 0.3-	2000 02 26	703	0.3-	0.5+
1991 03 22	809	1.8- 0.2+	2000 01 05	704	0.3- 0.2-	2000 02 26	703	0.1+	0.1-
1991 03 22	809	1.4- 0.2-	2000 01 05	704	1.0- 0.3-	2000 02 26	703	0.4+	0.3-
1991 03 22	809	0.7- 0.4-	2000 01 05	704	1.8+ 0.5+	2000 02 27	691	0.1-	0.6-
1991 03 23	809	0.9+ 1.4+	2000 01 06	699	0.5+ 0.7-	2000 02 27	691	0.3-	0.5-
1991 03 23	809	1.0+ 1.5+	2000 01 06	699	0.6+ 0.2+	2000 02 27	691	0.3-	0.4-
1991 03 23	809	1.0+ 1.7+	2000 01 06	699	0.7+ 0.2-	2000 02 29	704	0.1+	0.1-
1993 08 16	010	1.7- 1.3-	2000 01 08	704	0.8- 0.5+	2000 02 29	704	0.4-	0.1+
1993 08 16	010	0.9- 0.7-	2000 01 08	704	0.3- 0.4+	2000 02 29	704	0.0	0.3+
1993 08 16	010	(0.9- 2.6-)	2000 01 08	704	0.1+ 0.4-	2000 02 29	704	0.4-	0.5+
1993 08 17	010	(1.0- 3.3-)	2000 01 08	704	0.4+ 0.3-	2000 03 03	704	0.3+	0.1-
1993 09 18	010	1.8+ 0.3-	2000 02 02	704	0.1- 0.1+	2000 03 03	704	0.4+	0.2-
1993 09 18	010	0.6+ 0.7-	2000 02 02	704	0.2+ 0.1-	2000 03 03	704	0.1+	0.2-
1993 09 18	010	1.3+ 0.0	2000 02 02	704	0.4+ 0.2-	2000 03 03	704	0.7+	0.3+
1998 09 18	699	0.3- 0.4+	2000 02 02	704	0.1+ 0.5+	2000 03 03	704	0.0	0.3-
1998 09 18	699	0.2- 0.4+	2000 02 02	704	0.4- 1.2+	2000 03 11	704	0.1-	0.1-
1998 09 18	699	0.2- 0.7+	2000 02 05	704	1.2+ 0.4-	2000 03 11	704	0.0	0.0
1998 10 12	699	0.0	2000 02 05	704	0.6+ 0.3-	2000 03 11	704	0.2-	0.1-
1998 10 12	699	0.2+ 0.0	2000 02 05	704	0.2+ 0.1+	2000 03 11	704	0.1-	0.4-
1998 10 12	699	0.8+ 0.2+	2000 02 06	704	0.2+ 0.7-	2000 03 11	704	0.6-	0.0
1998 10 17	699	0.4+ 0.0	2000 02 06	704	0.1+ 0.8-	2000 03 11	699	0.2-	0.1+
1998 10 17	699	0.7+ 0.2-	2000 02 06	704	0.2- 1.0-	2000 03 11	699	0.2-	0.1-
1998 10 17	699	0.3+ 0.5-	2000 02 06	704	0.2- 0.4-	2000 03 11	699	1.0-	0.1-
1998 11 13	704	0.6+ 0.3+	2000 02 06	704	0.3- 1.0-	2000 03 11	699	0.1-	0.1-
1998 11 13	704	1.6- 0.9+	2000 02 26	849	0.6+ 0.2+				
1998 11 13	704	0.0	2000 02 26	849	0.0	0.1+			

2000 AE₂₄₀ = 1998 SG₁₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	351.91853	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28444077	ω	212.75007	-0.99788274	-0.03532518	
<i>a</i>	2.2898559	Ω	325.09957	+0.05682284	-0.88201595	
<i>e</i>	0.0902391	<i>i</i>	5.47695	-0.03164176	-0.46989361	
<i>P</i>	3.47	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1998 09 26	704	0.4+ 0.6-	2000 01 06	699	0.1- 0.7+	2000 02 27	703	0.2+	0.1+
1998 09 26	704	1.4+ 0.1-	2000 01 06	699	0.2- 0.2+	2000 02 27	703	0.6-	0.4-
1998 09 26	704	0.1- 0.1-	2000 01 08	704	1.6- 0.6-	2000 02 27	703	0.6-	0.1+
1998 09 26	704	1.1+ 0.3-	2000 01 08	704	0.3+ 0.2-	2000 03 08	704	0.6+	0.4+
1998 09 26	704	0.3+ 0.8+	2000 01 08	704	0.5+ 0.1-	2000 03 08	704	0.0	1.2+
1998 09 27	704	0.9- 0.3+	2000 01 08	704	1.1- 0.5-	2000 03 08	704	0.7+	1.3+
1998 09 27	704	1.4- 0.0	2000 01 08	704	0.4- 0.1+	2000 03 13	704	0.1+	0.1+
1998 09 27	704	0.9- 1.5+	2000 02 08	704	0.3+ 0.0	2000 03 13	704	0.2+	0.4-
1998 09 27	704	0.6- 0.1-	2000 02 08	704	0.8+ 0.3-	2000 03 13	704	0.4+	0.4+
2000 01 05	704	(0.8- 2.7-)	2000 02 08	704	0.2+ 0.9-	2000 03 13	704	0.0	0.2-
2000 01 05	704	0.1+ 1.1-	2000 02 08	704	0.4+ 0.3+	2000 03 13	704	0.3+	0.1-
2000 01 05	704	(2.2- 1.0+)	2000 02 08	704	0.5- 0.2+				
2000 01 06	699	0.0	2000 02 27	703	0.2- 0.1-				

2000 AO₂₄₀ = 1976 SG₃ = 1985 ST

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	51.60687	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.21776749	ω	185.00209	+0.93725876	-0.34330966	
<i>a</i>	2.7361549	Ω	195.50158	+0.32722656	+0.92634111	
<i>e</i>	0.1912496	<i>i</i>	13.12733	+0.12028633	+0.15501814	
<i>P</i>	4.53	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1976 09 24	095	0.7- 1.3+	1999 11 13	703	0.2- 0.1+	2000 01 11	704	0.9+	0.1-
1976 09 29	095	1.6+ 1.5-	1999 11 13	703	0.9- 0.6-	2000 01 11	704	0.6+	1.0+
1985 09 18	046	1.1+ 0.6-	1999 11 13	703	0.2- 0.3+	2000 01 11	704	0.1+	1.1+
1985 09 18	046	(1.2- 3.5-)	1999 11 13	703	0.3+ 0.5+	2000 02 05	704	0.0	0.1-
1985 09 19	046	1.7- 0.4-	1999 12 03	704	0.3+ 0.1+	2000 02 05	704	0.6-	0.3-
1985 09 19	046	0.8- 0.5+	1999 12 03	704	0.2- 0.2-	2000 02 05	704	0.6-	0.6+
1998 06 25	704	0.4- 0.5+	1999 12 03	704	0.2+ 0.1-	2000 02 05	704	1.9+	1.0+
1998 06 25	704	(0.1- 2.4+)	1999 12 03	704	0.1+ 0.3+	2000 02 06	704	0.2+	0.5+
1998 06 25	704	(0.1- 2.3+)	1999 12 16	699	0.3- 0.4+	2000 02 06	704	1.7-	1.2-
1998 06 25	704	1.0+ 1.7+	1999 12 16	699	0.2- 0.5+	2000 02 06	704	1.3+	0.6-
1998 06 25	704	0.4- 0.5+	1999 12 16	699	0.0 0.5+	2000 02 06	704	0.2-	0.0
1999 11 05	704	0.3- 0.2+	2000 01 07	699	0.1- 0.3+	2000 02 06	704	0.3-	0.4-
1999 11 05	704	0.1- 0.0	2000 01 07	699	0.4- 0.7+	2000 03 06	704	0.1+	0.9+
1999 11 05	704	0.1+ 0.4-	2000 01 07	699	0.1+ 0.1+	2000 03 06	704	0.3-	0.2+
1999 11 05	704	0.1+ 0.6-	2000 01 11	704	0.6+ 1.4-	2000 03 06	704	1.8-	0.8-
1999 11 05	704	0.4+ 0.7-	2000 01 11	704	1.1+ 1.0+				

2000 AY₂₄₂ = 1988 XD₃ = 1992 SF₂₅ = 1996 MH₁ = 1998 XL₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	206.66880	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.19163636	ω	107.11944	+0.59557532	+0.80112378	
<i>a</i>	2.9795506	Ω	199.78916	-0.78729428	+0.56751918	
<i>e</i>	0.1062792	<i>i</i>	10.05020	-0.15955487	+0.19005965	
<i>P</i>	5.14	<i>H</i>	12.2	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1988 12 07	033	0.2-	0.6+	1998 12 15	704	0.1-	0.5+	2000 02 06	704	0.2-	0.6-
1988 12 07	033	0.0	0.0	1998 12 22	704	0.1-	0.5+	2000 02 06	704	0.3+	0.5-
1992 09 30	675	0.6+	0.4+	1998 12 22	704	0.6-	0.5+	2000 03 01	703	1.4-	0.1+
1992 09 30	675	0.5-	0.1+	1998 12 22	704	0.0	0.1+	2000 03 01	703	0.2+	0.4+
1992 10 03	675	0.1-	0.1-	1998 12 22	704	0.2-	0.6-	2000 03 01	703	0.3-	0.4-
1992 10 03	675	0.6+	0.3-	1998 12 22	704	0.0	0.0	2000 03 01	703	0.5+	0.1+
1996 06 17	691	0.1-	0.1+	2000 01 07	699	0.1+	0.2+	2000 03 06	704	0.4+	0.4+
1996 06 17	691	0.3-	0.2-	2000 01 07	699	0.9+	0.0	2000 03 06	704	0.6+	0.1+
1996 06 17	691	0.1-	0.1-	2000 01 07	699	0.3+	0.0	2000 03 06	704	0.2+	0.2+
1996 06 23	691	0.1-	0.0	2000 01 11	704	0.1-	0.5-	2000 03 06	704	0.7+	0.0
1996 06 23	691	0.0	0.3-	2000 01 11	704	0.8-	0.0	2000 03 08	704	0.5+	0.7+
1996 06 23	691	0.0	0.4-	2000 01 11	704	0.4-	0.2+	2000 03 08	704	0.1-	0.0
1998 12 15	704	0.0	1.5-	2000 01 11	704	0.5-	0.3-	2000 03 08	704	0.6-	0.2-
1998 12 15	704	0.1+	0.1+	2000 01 11	704	0.8-	0.4-	2000 03 08	704	0.6+	0.1+
1998 12 15	704	0.3-	0.4-	2000 02 06	704	(0.5-	2.5-)	2000 03 08	704	0.1+	0.6+
1998 12 15	704	0.3+	0.2-	2000 02 06	704	0.6+	0.8-				

2000 AA₂₄₃ = 1949 OH = 1979 MX₄ = 1999 AD₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	143.44412	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.26292051	ω	86.55861	+0.97863844	+0.09863292	
<i>a</i>	2.4131616	Ω	267.72419	-0.16248031	+0.90864365	
<i>e</i>	0.2354292	<i>i</i>	10.40042	+0.12596409	+0.40575641	
<i>P</i>	3.75	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1949 07 25	690	(18.0+ 5.3-)Y	1998 12 09	704	0.1- 0.4-	2000 01 11	704	0.3-	0.1-
1949 07 26	690	(17.8+ 5.7-)Y	1998 12 09	704	0.9+ 0.1+	2000 01 11	704	0.2-	0.5+
1979 06 23	413	0.0	1999 01 02	699	0.7- 0.7-	2000 01 11	704	0.5-	0.1+
1979 06 24	413	0.7- 0.3+	1999 01 02	699	0.1+ 0.0	2000 01 11	704	0.5-	0.5+

2000 MAR. 20

M.P.C. 39361

1979 06 25	413	0.7+	0.2+	1999 01 02	699	0.1-	1.1-	2000 02 08	704	0.0	0.0
1998 06 30	704	(2.8+	2.4+)	1999 01 05	699	0.2-	0.5-	2000 02 08	704	0.7+	0.0
1998 06 30	704	0.6-	0.2-	1999 01 05	699	0.3-	0.6+	2000 02 08	704	0.3+	0.6-
1998 06 30	704	0.2-	0.2-	1999 01 05	699	0.1+	0.2+	2000 02 08	704	1.4+	0.7+
1998 06 30	704	0.0	1.3-	1999 01 11	704	0.8+	1.4+	2000 03 01	703	1.1-	0.2+
1998 06 30	704	0.1-	0.7-	1999 01 11	704	1.3-	0.7+	2000 03 01	703	0.5+	1.3-
1998 08 27	704	0.1+	1.1-	1999 01 11	704	(2.4-	1.2+)	2000 03 01	703	0.3-	0.6+
1998 08 27	704	1.5+	0.4-	1999 01 11	704	0.7-	0.3-	2000 03 01	703	0.8+	0.3+
1998 08 27	704	0.3+	0.8-	2000 01 07	699	0.2+	1.8-	2000 03 08	704	0.3-	1.0-
1998 08 27	704	0.1+	0.9-	2000 01 07	699	0.7+	0.1+	2000 03 08	704	0.0	1.6-
1998 08 27	704	0.0	0.8+	2000 01 07	699	0.7+	0.2+	2000 03 08	704	1.8-	0.6+
1998 09 20	699	0.2-	0.4+	2000 01 11	704	0.3-	0.2+	2000 03 08	704	0.0	0.3+
1998 09 20	699	0.0	0.4+	2000 01 11	704	0.9-	0.5-	2000 03 12	704	0.6+	0.4+
1998 09 20	699	0.4-	0.6+	2000 01 11	704	0.5-	0.1+	2000 03 12	704	0.2+	0.5+
1998 12 09	704	0.3+	0.0	2000 01 11	704	0.0	0.5-	2000 03 12	704	0.5+	0.5-
1998 12 09	704	0.1+	0.6+	2000 01 11	704	0.6-	0.2-	2000 03 12	704	0.3-	0.2-
1998 12 09	704	0.7+	0.2+	2000 01 11	704	0.4-	0.1-	2000 03 12	704	0.2+	0.1+

2000 AX₂₄₃ = 1992 GG

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23919498	ω	109.97913	-0.83796428	+0.53031468		
<i>a</i>	2.5702065	Ω	102.24456	-0.53689132	-0.75883549		
<i>e</i>	0.1077032	<i>i</i>	7.57186	-0.09779357	-0.37806751		
<i>P</i>	4.12	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 04 03	400	0.5-	1.6-	1998 11 23	699	0.2-	0.5-	2000 02 01	703	0.3+	0.1+
1992 04 03	400	0.4+	0.3-	1998 12 11	699	0.7-	0.1-	2000 02 01	703	0.4+	0.2+
1992 04 07	400	(3.7-	0.9+)	1998 12 11	699	0.0	0.1+	2000 02 01	703	0.3+	0.9+
1992 04 07	400	(2.8-	2.7+)	1998 12 11	699	0.6+	0.8-	2000 02 01	703	0.3+	0.4+
1992 05 02	400	1.3-	1.1-	1999 11 16	703	0.2+	0.9-	2000 02 04	704	1.0+	0.4-
1992 05 02	400	0.6+	1.0+	1999 11 16	703	0.9+	0.7+	2000 02 04	704	0.9+	0.7+
1997 09 01	566	0.2-	1.0+	1999 11 16	703	0.2-	0.4+	2000 02 04	704	0.9+	1.3+
1997 09 01	566	0.2-	0.9+	1999 11 16	703	0.8+	0.5-	2000 02 04	704	(2.1+	1.7+)
1997 09 01	566	0.2-	0.5+	2000 01 04	704	0.6-	1.6+	2000 02 04	704	0.9+	1.6+
1998 11 11	704	0.1-	0.6-	2000 01 04	704	1.0-	0.2-	2000 03 05	704	0.0	0.2-
1998 11 11	704	(0.9-	2.5-)	2000 01 04	704	0.5-	0.9-	2000 03 05	704	0.1+	0.3-
1998 11 11	704	0.4-	0.1+	2000 01 07	704	1.0-	0.1+	2000 03 05	704	0.3-	0.1-
1998 11 11	704	0.7+	0.5+	2000 01 07	704	0.7-	0.6-	2000 03 05	704	0.2-	0.2-
1998 11 11	699	0.2+	0.3-	2000 01 07	704	0.5-	0.1-	2000 03 05	704	0.6-	0.4-
1998 11 11	704	(4.1-	1.6-)	2000 01 07	704	0.6-	1.6+	2000 03 12	704	0.3+	0.1-
1998 11 11	699	0.2+	0.4-	2000 01 07	704	0.6-	0.1+	2000 03 12	704	0.6+	0.0
1998 11 11	699	0.7+	0.3+	2000 01 10	699	(2.1-	0.9+)	2000 03 12	704	0.2+	0.1-
1998 11 23	699	0.1+	0.2+	2000 01 10	699	0.2-	0.2-	2000 03 12	704	0.0	0.0
1998 11 23	699	0.6-	0.1+	2000 01 10	699	0.3+	0.0	2000 03 12	704	0.3-	0.7-

2000 AN₂₄₅ = 1996 JM

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23320310	ω	300.79797	-0.97732569	-0.13482999		
<i>a</i>	2.6140457	Ω	231.95946	+0.17594871	-0.94609379		
<i>e</i>	0.1237844	<i>i</i>	11.96420	-0.11779874	-0.29449520		
<i>P</i>	4.23	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 05 12	367	0.1+	0.1+	2000 01 10	704	(3.1-	2.2+)	2000 03 04	703	0.1+	0.6+
1996 05 12	367	0.4+	0.2-	2000 01 10	704	0.1-	0.3-	2000 03 04	703	0.6+	0.1+
1996 05 14	367	0.2-	1.0+	2000 01 10	704	1.1-	1.5-	2000 03 04	703	0.3+	0.4+
1996 05 14	367	0.3+	1.4+	2000 01 11	704	0.2+	0.5-	2000 03 09	704	0.0	0.3+
1998 10 19	699	0.1-	0.3+	2000 01 11	704	0.9+	0.6-	2000 03 09	704	0.5+	0.2+
1998 10 19	699	0.2+	0.1-	2000 01 11	704	1.0-	0.4-	2000 03 09	704	0.1+	0.2+
1998 10 19	699	0.9+	0.0	2000 01 11	704	0.6-	0.2-	2000 03 09	704	0.4-	0.2+
1998 11 11	704	1.1+	1.3+	2000 01 11	704	0.1+	0.1+	2000 03 09	704	0.3+	0.4+
1998 11 11	704	1.3-	0.1-	2000 03 03	703	(0.2+	3.4+)	2000 03 13	704	0.1+	0.2-
1998 11 11	704	0.1+	0.6+	2000 03 03	703	0.1+	0.5+	2000 03 13	704	0.6+	0.3+

1998 11 11	704	1.4-	1.1+	2000 03 03	703	0.3-	0.4+	2000 03 13	704	0.3+	0.3-
2000 01 10	704	1.1-	0.6+	2000 03 03	703	0.1-	0.3+	2000 03 13	704	0.4+	0.6-
2000 01 10	704	0.4-	0.6-	2000 03 04	703	0.2-	0.3+	2000 03 13	704	0.3+	0.5-

2000 AJ₂₄₆ = 1987 DC = 1998 UJ₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23355338	ω	102.92324	-0.38483966	-0.92180992		
<i>a</i>	2.6114314	Ω	10.09167	+0.70989778	-0.32783388		
<i>e</i>	0.1391397	<i>i</i>	15.39890	+0.58986743	-0.20686085		
<i>P</i>	4.22	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 02 22	054	0.2-	0.3-	2000 01 08	704	0.3+	0.3+	2000 03 08	704	0.6+	0.6+
1987 02 22	054	0.1-	0.0	2000 01 08	704	0.1+	0.3-	2000 03 08	704	0.1+	0.8+
1987 02 23	054	0.1+	0.2-	2000 01 08	704	0.0	0.2-	2000 03 08	120	0.4+	0.1+
1998 08 31	704	0.8-	0.7+	2000 01 13	327	0.3+	0.5-	2000 03 08	120	0.5-	0.5+
1998 08 31	704	0.1+	0.8+	2000 01 13	327	0.2+	0.4-	2000 03 09	120	0.2-	0.3+
1998 08 31	704	0.5+	1.0+	2000 01 13	327	0.2+	0.3-	2000 03 09	120	0.2-	0.9+
1998 08 31	704	1.2-	0.9+	2000 01 16	327	0.1-	0.9-	2000 03 10	704	1.3-	0.5+
1998 08 31	704	0.2-	1.3+	2000 01 16	327	0.3+	0.5-	2000 03 10	704	1.2-	0.3+
1998 10 18	894	0.5-	0.9-	2000 01 16	327	0.1+	0.4-	2000 03 10	704	1.9-	0.7-
1998 10 18	894	1.9+	0.9-	2000 01 19	327	0.5+	0.1-	2000 03 11	120	0.3-	0.1+
1998 10 24	894	0.7+	1.4-	2000 01 19	327	0.1-	0.8-	2000 03 11	120	0.1-	0.0
1998 10 24	894	0.8+	0.7-	2000 01 19	327	0.3-	0.7-	2000 03 11	704	0.3+	0.0
1998 08 31	704	0.7-	0.4-	2000 03 01	703	1.0+	0.7+	2000 03 11	704	0.2+	0.9-
1999 01 08	704	1.8-	1.2-	2000 03 01	703	0.8+	0.7+	2000 03 11	704	0.2-	0.3-
1999 01 08	704	0.9-	1.6+	2000 03 01	703	1.0+	0.7+	2000 03 11	704	0.1-	0.1-
1999 01 08	704	0.7-	1.2+	2000 03 01	703	0.9+	0.7+	2000 03 14	691	0.1-	0.5-
1999 01 08	704	0.6+	0.4+	2000 03 08	704	0.7+	0.8+	2000 03 14	691	0.1-	0.4-
2000 01 08	704	0.5-	0.3-	2000 03 08	704	0.2+	0.2+	2000 03 14	691	0.2+	0.3-
2000 01 08	704	0.2-	0.2-	2000 03 08	704	0.2+	0.6+				

2000 BH₄ = 1938 CD = 1991 RX₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.17382656	ω	216.90709	-0.98575120	+0.01401959		
<i>a</i>	3.1797426	Ω	322.81005	+0.08798673	-0.80634496		
<i>e</i>	0.1736060	<i>i</i>	16.09992	-0.14336283	-0.59127933		
<i>P</i>	5.67	<i>H</i>	11.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1938 02 06	062	1.8-	1.0+	1998 11 21	699	0.3+	0.3-	2000 01 21	704	0.1-	0.3+
1938 02 06	062	1.6+	2.3-	1998 11 21	699	0.0	0.3+	2000 01 21	704	0.0	0.4+
1938 02 07	062	0.1-	0.9+	1999 11 01	704	1.7+	1.5-	2000 01 21	704	0.0	0.5+
1991 09 04	809	(1.7+	2.2+)	1999 11 01	704	0.7+	0.9-	2000 01 21	704	0.4+	1.0+
1991 09 04	809	(1.5+	2.4+)	1999 11 01	704	0.1+	1.1+	2000 01 27	704	0.3-	0.1-
1991 09 04	809	0.7+	1.9+	1999 12 13	704	0.5-	0.2-	2000 01 27	704	0.4-	0.3-
1991 09 05	809	1.6-	0.0	1999 12 13	704	0.5-	0.0	2000 01 27	704	0.5-	0.5-
1991 09 05	809	1.0-	0.2-	1999 12 13	704	0.1-	0.2-	2000 01 27	704	0.6-	0.4-
1991 09 05	809	0.9+	0.0	1999 12 13	704	0.3-	0.0	2000 02 04	704	0.1-	0.3+
1991 09 06	809	1.5+	0.2+	1999 12 13	704	0.1-	0.2+	2000 02 04	704	0.6-	0.1-

Residuals in seconds of arc

1994 01 08	691	0.2−	0.4+	2000 01 26	691	0.1+	0.2+	2000 02 05	695	0.0	0.4+
1994 01 08	691	0.6−	0.2+	2000 01 26	691	0.0	0.2+	2000 02 05	695	0.3+	0.2+
1994 01 08	691	0.8+	0.6−	2000 01 26	691	0.1−	0.1+	2000 02 10	691	0.1−	0.0
1994 01 18	691	0.1+	0.4−	2000 01 29	691	0.2−	0.1−	2000 02 10	691	0.1+	0.1−
1994 01 18	691	0.2+	0.4+	2000 01 29	691	0.1+	0.1−	2000 02 10	691	0.1−	0.1−
1994 01 18	691	0.3−	0.0	2000 01 29	691	0.0	0.6−				

2000 BK₁₀ = 1993 UL₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	84.52891		(2000.0)	P	Q		
<i>n</i>	0.19760805	ω	275.76177	+0.66437871	−0.74346262		
<i>a</i>	2.9192164	Ω	132.29965	+0.72015406	+0.60938267		
<i>e</i>	0.0711260	<i>i</i>	5.94280	+0.19994765	+0.27552876		
<i>P</i>	4.99	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1993 10 20	809	0.9+	0.9−	2000 01 26	691	0.1−	0.2−	2000 02 03	704	0.2−	0.4+
1993 10 20	809	0.1+	1.0−	2000 01 29	691	0.1−	0.2−	2000 02 03	704	0.2+	0.4+
1993 10 20	809	1.4−	2.3−	2000 01 29	691	0.2−	0.2−	2000 02 03	704	0.0	0.5+
1993 10 21	809	0.2−	2.3+	2000 01 29	691	0.3−	0.0	2000 02 10	691	0.2+	0.1−
1993 10 21	809	0.2+	1.1+	2000 02 01	691	0.4+	0.1−	2000 02 10	691	0.5−	0.8−
1993 10 21	809	0.5+	0.8+	2000 02 01	691	0.2+	0.0	2000 02 10	691	0.4+	0.0
2000 01 26	691	0.3−	0.1−	2000 02 01	691	0.6+	0.0				
2000 01 26	691	0.2−	0.0	2000 02 03	704	0.2+	0.3+				

2000 BV₁₀ = 1994 UK₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	254.72697		(2000.0)	P	Q		
<i>n</i>	0.26521987	ω	339.13552	+0.16552035	+0.98579258		
<i>a</i>	2.3991939	Ω	300.38216	−0.90007079	+0.13916174		
<i>e</i>	0.1532352	<i>i</i>	1.89758	−0.40308261	+0.09405844		
<i>P</i>	3.72	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 10 28	691	0.2−	0.2+	2000 01 29	691	0.6+	0.6−	2000 03 03	704	0.2−	0.1−
1994 10 28	691	0.1−	0.4+	2000 01 29	691	0.5−	0.7−	2000 03 03	704	0.4−	0.2+
1994 10 28	691	0.2−	0.5+	2000 02 02	704	0.4+	0.2+	2000 03 03	704	0.9−	0.2+
1994 11 05	691	0.1+	0.2−	2000 02 02	704	0.2−	1.0+	2000 03 03	704	0.4−	1.8−
1994 11 05	691	0.1+	0.3−	2000 02 02	704	0.2+	0.3+	2000 03 11	704	0.7+	0.2+
1994 11 05	691	0.3+	0.7−	2000 02 02	704	0.7−	0.8−	2000 03 11	704	0.3+	0.2+
2000 01 28	691	0.4−	0.5−	2000 02 02	704	0.9+	0.1+	2000 03 11	704	0.0	0.0
2000 01 28	691	0.2−	0.4−	2000 02 05	704	0.8−	0.6+	2000 03 11	704	0.0	0.1+
2000 01 28	691	0.3−	0.4−	2000 02 05	704	0.3+	1.0+	2000 03 11	704	0.1−	0.2−
2000 01 29	691	0.2−	0.3−	2000 02 05	704	1.6+	1.8+				

2000 BG₁₄ = 1993 FZ₅₈ = 1998 QZ₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	97.32904		(2000.0)	P	Q		
<i>n</i>	0.26570555	ω	31.09405	+0.88462458	−0.46630209		
<i>a</i>	2.3962694	Ω	356.69964	+0.42300726	+0.80366740		
<i>e</i>	0.1868413	<i>i</i>	1.30593	+0.19622491	+0.36970403		
<i>P</i>	3.71	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 03 19	809	0.5−	0.5−	2000 01 30	703	0.0	0.9−	2000 02 29	704	(2.4+	0.2−)
1993 03 20	809	0.0	0.4−	2000 01 30	703	0.3+	0.3+	2000 03 02	691	0.5−	0.1+
1998 08 17	704	0.7−	0.7−	2000 01 30	703	0.3−	0.4−	2000 03 02	691	0.2−	0.1−
1998 08 17	704	0.6−	0.9+	2000 02 03	704	1.5+	0.6+	2000 03 02	691	0.5−	0.0
1998 08 17	704	1.0+	1.2+	2000 02 03	704	1.9+	0.3+	2000 03 03	704	0.0	0.6+
1998 08 17	704	0.2+	1.2+	2000 02 03	704	0.3−	0.7−	2000 03 03	704	0.3−	0.4+
1998 08 17	704	1.2−	0.8+	2000 02 03	704	0.1+	0.5−	2000 03 03	704	0.3−	0.6+
1998 08 23	704	0.5+	0.6−	2000 02 11	704	0.2−	0.4−	2000 03 03	704	0.2−	0.9+

1998 08 23	704	1.5+	0.1−	2000 02 11	704	0.1+	0.4+	2000 03 03	704	0.1+	0.8+
1998 08 23	704	0.2−	0.3−	2000 02 11	704	0.4−	0.2−	2000 03 09	704	0.5+	0.2−
1998 08 23	704	1.1−	0.7−	2000 02 11	704	0.5+	0.3−	2000 03 09	704	0.3−	0.1+
2000 01 07	704	(0.4−	2.7−)	2000 02 26	413	0.2−	0.0	2000 03 09	704	0.3−	1.6+
2000 01 07	704	0.4+	1.0−	2000 02 26	413	0.2−	0.0	2000 03 09	704	0.1−	0.5−
2000 01 07	704	(2.8+	0.3+)	2000 02 26	413	0.1−	0.0	2000 03 09	704	0.7−	0.1−
2000 01 28	691	0.1+	0.2−	2000 02 29	704	0.1−	0.6−	2000 03 11	691	0.2−	0.0
2000 01 28	691	0.1−	0.2−	2000 02 29	704	0.1+	1.0+	2000 03 11	691	0.0	0.0
2000 01 28	691	0.3+	0.4−	2000 02 29	704	0.1+	0.0	2000 03 11	691	0.2−	0.1−
2000 01 30	703	0.3+	1.0+	2000 02 29	704	0.1−	0.5+				

2000 BL₁₄ = 1993 FN₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	56.24563		(2000.0)	P	Q		
<i>n</i>	0.27025551	ω	1.45710	+0.06158986	−0.99074415		
<i>a</i>	2.3692979	Ω	85.02258	+0.91450769	+0.00746286		
<i>e</i>	0.0887435	<i>i</i>	6.97427	+0.39985293	+0.13553722		
<i>P</i>	3.65	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 03 17	809	0.7−	0.5−	2000 02 03	704	0.7+	0.7+	2000 03 11	699	0.6+	0.4−
1993 03 18	809	0.4+	0.1−	2000 02 03	704	0.2−	0.4−	2000 03 11	699	0.7−	0.5+
2000 01 07	704	0.1−	0.4−	2000 02 09	411	0.3−	1.6−	2000 03 11	699	0.7−	1.1−
2000 01 07	704	0.1+	0.1+	2000 02 09	411	0.7−	0.9−	2000 03 12	703	0.6+	0.6+
2000 01 07	704	0.6+	0.5+	2000 02 27	411	0.2+	0.4−	2000 03 12	703	0.3−	0.0
2000 01 07	704	0.1−	0.4+	2000 02 27	411	0.7+	0.9−	2000 03 12	704	0.2+	0.1−
2000 01 07	704	0.5+	1.0−	2000 03 04	704	0.3+	0.3+	2000 03 12	703	0.7+	0.5+
2000 01 28	411	1.6−	1.0−	2000 03 04	704	0.7+	0.3+	2000 03 12	704	0.6−	0.1+
2000 01 28	411	0.8−	0.2−	2000 03 04	704	0.2−	0.2+	2000 03 12	703	0.8−	0.5+
2000 01 30	411	(2.3−	1.4+)	2000 03 04	704	0.2+	0.7+	2000 03 12	704	0.2+	0.4+
2000 01 30	411	0.8−	1.0+	2000 03 04	704	0.0	1.0+	2000 03 12	704	0.0	0.4+
2000 02 03	704	0.6+	1.1+	2000 03 08	411	1.0+	0.6−	2000 03 12	704	0.2+	0.0
2000 02 03	704	0.1−	0.7+	2000 03 08	411	0.2−	0.8−				
2000 02 03	704	0.6+	0.3−	2000 03 11	699	0.1−	0.8+				

2000 BT₁₄ = 1998 WH₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	281.72015		(2000.0)	P	Q		
<i>n</i>	0.22336683	ω	191.11590	−0.51902820	+0.85206443		
<i>a</i>	2.6902352	Ω	47.65727	−0.77702251	−0.43729201		
<i>e</i>	0.0535955	<i>i</i>	5.26260	−0.35615411	−0.28768370		
<i>P</i>	4.41	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 11	704	0.1+	0.4+	1999 11 16	704	0.2−	0.4+	2000 02 27	411	1.0+	0.3−
1998 11 11	704	(1.2−	3.1+)	1999 12 15	704	0.2−	0.9+	2000 02 29	704	0.2+	0.2−
1998 11 11	704	1.0−	0.5+	1999 12 15	704	0.3+	0.9−	2000 02 29	704	0.1+	0.2−
1998 11 11	704	(0.8−	2.3+)	1999 12 15	704	0.9+	0.6+	2000 02 29	704	0.2+	0.2−
1998 11 18	704	0.1+	0.2−	1999 12 15	704	0.2+	1.1−	2000 02 29	704	0.4+	0.1−
1998 11 18	704	0.7−	1.1+	2000 01 10	699	0.4+	0.2−	2000 02 29	704	0.3+	0.0
1998 11 18	704	1.2−	1.3+	2000 01 10	699	1.3+	0.1+	2000 03 04	704	0.3+	0.2+
1998 11 18	704	1.9−	1.9+	2000 01 10	699	0.6+	0.3−	2000 03 04	704	0.1−	0.2−
1998 11 21	704	0.8+	0.4−	2000 01 28	411	(1.1+	3.8−)	2000 03 04	704	0.1+	0.3−
1998 11 21	704	0.9+	1.0−	2000 01 28	411	(0.4+	3.2−)	2000 03 04	704	0.1+	0.5−
1998 11 21	704	0.4+	1.2−	2000 01 30	411	0.7+	0.3−	2000 03 04	704	0.0	0.6−
1998 11 21	704	0.0	1.4−	2000 01 30	411	0.9+	0.8−	2000 03 05	704	0.3−	0.2−
1998 11 21	704	0.5−	1.6−	2000 02 03	704	0.4+	0.4+	2000 03 05	704	0.4−	0.2+
1998 12 08	699	0.1+	1.2+	2000 02 03	704	0.6+	0.6+	2000 03 05	704	0.3−	0.4+
1998 12 08	699	0.3+	0.6+	2000 02 03	704	0.2−	1.1+	2000 03 05	704	0.5−	0.3+
1998 12 08	699	0.7+	0.1−	2000 02 03	704	0.0	1.2+	2000 03 05	704	0.7−	0.4+
1998 12 14	704	0.2+	0.3+	2000 02 03	704	0.2−	1.0+	2000 03 11	699	0.3+	0.2+
1998 12 14	704	1.1+	1.4−	2000 02 09	411	1.4−	0.7−	2000 03 11	699	0.0	0.3+
1998 12 14	704	0.6+	0.2−	2000 02 09	411	1.0−	0.9−	2000 03 11	699	0.0	0.1−
1998 12 14	704	0.4+	0.2−	2000 02 11	704	0.4+	0.1+	2000 03 11	699	0.1+	0.2+
1998 12 14	704	0.0	0.1−	2000 02 11	704	0.3−	0.5+	2000 03 12	704	0.5−	0.2−
1999 11 16	704	0.7+	0.2+	2000 02 11	704	0.2−	0.3+	2000 03 12	704	0.2−	0.4−

2000 MAR. 20

1999 11 16	704	0.2+	0.2+	2000 02 11	704	0.1+	0.7+	2000 03 12	704	0.5-	0.4-
1999 11 16	704	0.7-	0.6+	2000 02 11	704	0.1+	0.9+	2000 03 12	704	0.5-	0.8-
1999 11 16	704	0.7-	0.2-	2000 02 27	411	0.1-	0.8-	2000 03 12	704	1.0-	0.8-

2000 BV₁₄ = 1998 WM₁₇

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	24.33720	(2000.0)		P	Q		
<i>n</i>	0.17506862	ω	67.95891	-0.49670875	-0.85476298		
<i>a</i>	3.1646851	Ω	52.70695	+0.71010242	-0.49995834		
<i>e</i>	0.0315005	<i>i</i>	10.90736	+0.49903404	-0.13936247		
<i>P</i>	5.63	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 18	704	1.5-	0.3+	1998 12 14	704	0.7-	0.0	2000 03 08	411	0.0	0.9-
1998 11 18	704	0.1+	0.3-	1998 12 14	704	0.3+	1.7-	2000 03 08	411	0.2-	0.6-
1998 11 18	704	0.1-	1.1-	1998 12 14	704	0.2+	1.2-	2000 03 10	703	0.0	0.3-
1998 11 18	704	1.5+	1.7-	1998 12 14	704	1.2-	1.3-	2000 03 10	703	0.4+	0.2-
1998 11 21	704	0.3+	0.2+	1998 12 14	704	(6.5-	1.5-)	2000 03 10	703	0.3+	0.1-
1998 11 21	704	0.1+	0.1-	2000 01 03	704	0.4+	0.7-	2000 03 10	703	0.1+	0.6+
1998 11 21	704	1.1+	0.9+	2000 01 03	704	1.1+	1.6+	2000 03 11	699	0.7+	0.0
1998 11 21	704	0.0	0.9+	2000 01 03	704	(0.3+	2.2+)	2000 03 11	699	0.2+	0.1+
1998 11 21	704	(2.2+	0.4+)	2000 01 31	411	0.6-	0.5+	2000 03 11	699	0.1-	0.4+
1998 11 24	704	0.3-	0.3+	2000 01 31	411	0.9-	0.2-	2000 03 11	699	0.2-	0.6-
1998 11 24	704	0.1+	0.5+	2000 02 01	411	0.7+	0.2-	2000 03 12	704	0.3-	0.3-
1998 11 24	704	0.2-	0.3+	2000 02 01	411	1.2-	0.8-	2000 03 12	704	0.7-	0.2+
1998 11 24	704	0.2-	1.7+	2000 02 09	411	0.4-	0.5-	2000 03 12	704	0.2+	0.0
1998 11 25	699	0.1+	0.6+	2000 02 09	411	0.2-	1.2+	2000 03 12	704	0.3+	0.5+
1998 11 25	699	0.0	0.8+	2000 03 02	411	0.6+	0.3+	2000 03 12	704	0.4-	0.8+
1998 11 25	699	0.5+	0.6+	2000 03 02	411	0.5+	0.6-				

2000 BW₁₄ = 1980 DF₁ = 1991 JW₃

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	143.02189	(2000.0)		P	Q		
<i>n</i>	0.19258817	ω	274.05233	+0.98355366	-0.02241353		
<i>a</i>	2.9697256	Ω	87.29763	+0.09350575	-0.91213434		
<i>e</i>	0.0761243	<i>i</i>	10.33596	-0.15452793	+0.40927812		
<i>P</i>	5.12	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1980 02 19	801	0.1-	0.1-	1998 12 15	704	0.2-	1.1+	2000 03 04	704	0.3-	0.4+
1991 05 12	809	0.7+	0.9+	1999 01 07	699	0.5-	0.0	2000 03 04	704	1.0-	0.3+
1991 05 12	809	0.4+	0.9-	1999 01 07	699	0.4-	1.8+	2000 03 08	411	0.8+	0.7-
1991 05 12	809	0.4+	1.1-	1999 01 07	699	(2.2+	0.0)	2000 03 08	411	0.4-	0.7-
1991 05 17	809	1.0-	1.1-	1999 12 15	704	0.2+	0.7+	2000 03 11	699	0.0	0.5+
1991 05 17	809	0.6-	1.2-	1999 12 15	704	0.5+	0.9-	2000 03 11	699	0.1+	0.1+
1991 05 17	809	1.7-	1.8-	1999 12 15	704	0.6-	0.6+	2000 03 11	699	0.8-	0.1+
1998 11 23	699	0.2-	0.0	1999 12 15	704	1.2-	0.3-	2000 03 11	699	0.7+	0.2+
1998 11 23	699	0.6+	0.3-	2000 01 31	411	(0.8+	2.6-)	2000 03 12	703	0.3-	0.3+
1998 11 23	699	0.3-	0.2-	2000 01 31	411	1.3+	1.6-	2000 03 12	703	0.7+	0.5+
1998 11 24	704	0.3+	0.5-	2000 02 01	411	0.6-	0.3-	2000 03 12	704	0.4+	1.2+
1998 11 24	704	(0.8+	3.3-)	2000 02 01	411	0.6+	1.1-	2000 03 12	704	0.2+	0.7+
1998 11 24	704	0.1-	1.7-	2000 02 09	411	1.3-	1.6-	2000 03 12	703	0.2+	0.5+
1998 11 24	704	0.2-	1.5-	2000 02 09	411	(2.1-	1.6-)	2000 03 12	704	0.5+	0.6+
1998 11 24	704	0.5+	1.5-	2000 02 27	411	0.4-	0.2-	2000 03 12	703	0.4+	0.3+
1998 12 15	704	0.2+	1.0+	2000 02 27	411	0.7+	0.9-	2000 03 12	704	0.1+	0.6+
1998 12 15	704	2.0+	0.6-	2000 03 04	704	0.9-	0.5+	2000 03 12	704	0.2+	1.2+
1998 12 15	704	0.2+	2.0-	2000 03 04	704	0.4-	0.3-				

2000 BZ₁₄ = 1998 XZ₆₉

Id. S. Nakano

M.P.C. 39363

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	72.47247	(2000.0)		P	Q		
<i>n</i>	0.15064741	ω	32.46148	+0.38125966	-0.91834567		
<i>a</i>	3.4980682	Ω	35.45269	+0.80427809	+0.27284359		
<i>e</i>	0.0804679	<i>i</i>	10.55184	+0.45582653	+0.28670125		
<i>P</i>	6.54	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	0.8+	1.0-	2000 02 01	411	1.3+	1.2-	2000 03 08	411	0.4-	0.9-
1998 12 14	704	1.7-	0.5-	2000 02 01	411	0.2+	0.2-	2000 03 12	703	0.3-	0.4+
1998 12 14	704	0.1+	0.1-	2000 02 09	411	0.5-	0.5-	2000 03 12	703	0.8-	0.4+
1998 12 14	704	0.7-	0.5+	2000 02 09	411	0.5-	0.2+	2000 03 12	704	0.9+	0.2-
1998 12 17	704	0.7-	0.3-	2000 02 28	411	1.4-	1.1-	2000 03 12	703	1.2-	1.0-
1998 12 17	704	1.6+	0.4+	2000 02 28	411	1.1-	0.1+	2000 03 12	704	0.3+	0.0
1998 12 17	704	0.6-	1.0-	2000 03 04	704	(0.2+	2.0+)	2000 03 12	703	0.2-	1.3+
1998 12 17	704	1.3+	1.8+	2000 03 04	704	0.2+	0.3+	2000 03 12	704	1.0+	0.5-
1998 12 17	704	(1.8-	2.5+)	2000 03 04	704	0.5-	0.1-	2000 03 12	704	0.8+	0.2+
2000 01 31	411	0.4+	1.3+	2000 03 04	704	0.6+	0.1-	2000 03 12	704	1.1+	0.5+
2000 01 31	411	0.1+	1.0+	2000 03 08	411	(0.3+	2.2-)				

2000 BF₁₅ = 1998 WF₁₃

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	352.41162	(2000.0)		P	Q		
<i>n</i>	0.18868664	ω	109.93024	-0.91518180	-0.37817109		
<i>a</i>	3.0105230	Ω	48.12675	+0.26267056	-0.82194401		
<i>e</i>	0.0377564	<i>i</i>	10.78896	+0.30569011	-0.42590454		
<i>P</i>	5.22	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 18	704	0.8-	0.5+	1998 11 25	699	0.7-	0.8-	2000 03 08	411	0.7+	0.5-
1998 11 18	704	0.2+	0.4-	1998 11 25	699	0.6-	0.6+	2000 03 08	411	1.0-	0.2+
1998 11 18	704	0.3-	0.3-	2000 01 31	704	0.5+	0.7+	2000 03 11	699	0.3-	0.7-
1998 11 18	704	0.7+	0.2-	2000 01 31	704	0.8+	0.2+	2000 03 11	699	0.4-	0.6-
1998 11 18	704	0.8+	1.3-	2000 01 31	704	0.9+	0.7+	2000 03 11	699	0.1+	0.4-
1998 11 21	704	0.8-	0.3+	2000 01 31	411	1.1-	0.7+	2000 03 11	699	0.5-	0.2-
1998 11 21	704	0.2+	0.4+	2000 01 31	411	0.9-	1.0+	2000 03 12	703	0.4-	0.6-
1998 11 21	704	0.3-	0.5-	2000 02 01	411	0.2+	0.4-	2000 03 12	703	0.5-	0.8-
1998 11 21	704	0.8+	0.1+	2000 02 01	411	0.4+	0.2-	2000 03 12	704	0.4+	0.6-
1998 11 21	704	0.5+	0.4-	2000 02 09	411	0.0	0.6-	2000 03 12	704	0.0	0.6-
1998 11 24	704	0.1+	0.1+	2000 02 09	411	0.1-	0.8-	2000 03 12	703	0.3-	0.4+
1998 11 24	704	0.2+	0.2+	2000 02 27	411	0.4+	0.3-	2000 03 12	704	0.3+	0.4+
1998 11 24	704	0.4+	0.5+	2000 02 27	411	0.2+	0.6+	2000 03 12	703	0.2-	0.5+
1998 11 24	704	0.5+	0.7+	2000 03 04	704	0.1+	0.6+	2000 03 12	704	0.6+	0.1-
1998 11 24	704	0.6-	1.0+	2000 03 04	704	0.0	0.7+	2000 03 12	704	0.2+	0.3-
1998 11 25	699	0.1-	0.9-	2000 03 04	704	0.0	0.8+				

2000 BJ₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	224.93807	(2000.0)		P	Q		
<i>n</i>	0.67130739	ω	175.41589	+0.60629394	+0.69418072		
<i>a</i>	1.2917796	Ω	131.28730	-0.74505064	+0.66641662		
<i>e</i>	0.7637492	<i>i</i>	31.08589	-0.27804174	-0.27203314		
<i>P</i>	1.47	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1997 03 28	675	0.8-	0.6+	2000 02 03	422	0.5-	0.2-	2000 02 07	413	0.2-	0.3-
1997 03 28	675	0.9+	0.7-	2000 02 03	422	0.9-	0.4-	2000 02 07	413	0.1-	0.2-
2000 01 30	703	0.1-	0.5+	2000 02 05	704	0.1-	0.1+	2000 02 07	413	0.1+	0.4-
2000 01 30	703	0.7-	0.3+	2000 02 05	704	0.2-	0.2+	2000 02 08	704	0.7+	0.4+
2000 01 30	703	0.1+	0.7+	2000 02 05	704	0.6-	0.1-	2000 02 08	704	0.1-	0.6-
2000 01 30	703	0.6-	0.1-	2000 02 05	704	0.9+	0.4+	2000 02 08	704	0.0	0.3-
2000 01 31	704	0.0	1.1-	2000 02 05	704	0.1-	0.4-	2000 02 08	704	0.3+	1.1-
2000 01 31	704	0.5-	0.4-	2000 02 05	704	0.1-	0.2+	2000 02 08	704	0.5+	0.2-
2000 01 31	704	0.0	0.0	2000 02 05	704	0.1+	0.0	2000 02 11	704	0.3+	0.4-

2000 02 01	046	0.5+	0.1+	2000 02 05	704	0.5+	0.1+	2000 02 11	704	0.1−	0.3+
2000 02 01	046	0.2+	0.0	2000 02 05	704	0.6−	0.6−	2000 02 11	704	0.4+	0.2+
2000 02 01	046	0.3+	0.2−	2000 02 05	704	0.2+	0.3+	2000 02 11	704	0.4+	1.1+
2000 02 01	046	1.2+	0.0	2000 02 05	704	0.3+	0.3+	2000 02 11	704	0.2−	1.4+
2000 02 02	118	0.6+	0.1−	2000 02 05	704	0.7−	0.1+	2000 02 24	703	0.3+	0.8+
2000 02 02	118	0.6+	0.2−	2000 02 05	704	0.2+	0.8−	2000 02 24	703	1.4−	0.1+
2000 02 02	118	0.6+	0.1−	2000 02 05	704	0.7+	0.6+	2000 02 24	703	0.5−	0.0
2000 02 02	704	0.1−	0.1−	2000 02 05	704	0.1−	0.3−	2000 02 24	703	0.2+	0.4+
2000 02 02	704	0.1−	0.1+	2000 02 05	704	0.6−	0.1−	2000 02 24	703	0.2+	0.6−
2000 02 02	704	0.7−	0.1−	2000 02 05	704	0.2+	0.8+	2000 02 24	413	0.1+	0.1−
2000 02 02	704	0.3−	0.3−	2000 02 05	704	0.2−	0.0	2000 02 24	104	0.7−	0.5−
2000 02 02	704	0.3−	0.1+	2000 02 05	704	0.0	0.1−	2000 02 24	104	0.4−	0.6−
2000 02 02	422	0.1+	0.5−	2000 02 05	704	0.2−	0.0	2000 02 24	104	0.7−	0.4+
2000 02 02	422	0.6−	0.2−	2000 02 05	704	0.2−	0.0	2000 02 27	360	0.7+	0.5−
2000 02 02	422	0.7−	0.3−	2000 02 05	704	0.2+	0.1−	2000 02 27	360	0.1+	0.2−
2000 02 03	858	0.2−	0.3−	2000 02 05	704	0.7+	0.8+	2000 02 27	360	0.1−	0.3−
2000 02 03	858	0.1−	0.1−	2000 02 05	704	0.1+	0.7−	2000 02 28	747	0.2+	0.2−
2000 02 03	858	0.1−	0.0	2000 02 05	704	0.7−	0.2+	2000 02 28	747	0.0	0.0
2000 02 03	704	0.4+	0.2−	2000 02 05	704	0.9+	0.0	2000 02 28	747	0.1−	0.1+
2000 02 03	704	0.2−	0.3−	2000 02 05	704	0.5+	0.4+	2000 02 28	747	0.0	0.3−
2000 02 03	704	0.8−	0.2+	2000 02 05	704	0.2−	0.2+	2000 02 28	747	0.2−	0.1+
2000 02 03	704	0.2+	0.5+	2000 02 05	704	0.1−	0.4+	2000 02 28	046	0.4+	0.2+
2000 02 03	704	0.2−	0.5+	2000 02 06	704	0.3−	0.2+	2000 02 28	046	0.9+	0.2+
2000 02 03	704	0.1+	0.2+	2000 02 06	704	0.6+	0.3−	2000 03 06	046	0.1−	0.4+
2000 02 03	704	0.4+	0.3+	2000 02 06	704	0.1+	0.3+	2000 03 06	046	0.1−	0.3−
2000 02 03	704	0.0	0.5+	2000 02 06	704	0.1−	0.6+	2000 03 06	046	0.1+	0.3+
2000 02 03	704	0.1−	0.1−	2000 02 06	704	0.1+	0.2−	2000 03 06	046	0.7−	0.1+
2000 02 03	670	0.2−	0.5−	2000 02 06	704	0.0	0.9+	2000 03 06	046	0.8+	0.2−
2000 02 03	704	0.1−	0.6+	2000 02 06	704	0.9+	0.2+				
2000 02 03	670	0.4+	1.2−	2000 02 06	704	0.4−	0.2+				

2000 BM₂₂ = 1992 UE₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	113.19852		(2000.0)	P	Q
n	0.17137217	ω	331.80810	+0.97383456	−0.22700050
a	3.2100307	Ω	41.31704	+0.21146332	+0.88768824
e	0.1801717	i	0.93883	+0.08324370	+0.40059999
P	5.75	H	14.5	G 0.15	U 5

Residuals in seconds of arc

1992 10 23	010	0.7+	0.3+	1998 11 25	699	1.1−	0.3+	2000 02 25	413	0.2+	0.4+
1992 10 23	010	0.4−	1.0+	2000 01 30	691	0.8−	0.0	2000 02 25	413	0.2+	0.2+
1992 10 25	691	0.4−	0.4−	2000 01 30	691	0.7−	0.1−	2000 02 26	413	0.3−	0.2+
1992 10 25	691	0.3−	0.7+	2000 01 30	691	0.6−	0.2−	2000 02 26	413	0.2−	0.1+
1992 10 25	691	0.3−	0.0	2000 02 01	691	0.3−	0.7−	2000 02 26	413	0.1−	0.1+
1998 11 24	704	0.8+	0.8+	2000 02 01	691	0.5−	0.7−	2000 02 29	704	0.0	1.6+
1998 11 24	704	0.1+	1.4−	2000 02 01	691	0.4−	0.7−	2000 02 29	704	1.4+	1.8+
1998 11 24	704	(2.5+	2.7−)	2000 02 25	413	0.1+	0.0	2000 02 29	704	0.5+	0.5−
1998 11 24	704	0.5−	1.4−	2000 02 25	413	0.0	0.1+	2000 02 29	704	1.7+	0.3−
1998 11 25	699	0.5+	0.1+	2000 02 25	413	0.1−	0.1+				
1998 11 25	699	0.6+	0.2+	2000 02 25	413	0.1+	0.2−				

2000 BB₂₃ = 1233 T-3

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	234.43820		(2000.0)	P	Q
n	0.19303628	ω	328.45254	+0.05989547	+0.98854991
a	2.9651278	Ω	304.62879	−0.87723452	−0.01407773
e	0.0763436	i	9.68983	−0.47631096	+0.15023616
P	5.11	H	13.6	G 0.15	U 3

Residuals in seconds of arc

1977 10 16	675	0.2−	0.1+	2000 01 30	703	0.5−	0.7+	2000 02 06	704	0.1+	0.4−
1977 10 16	675	0.6−	1.3−	2000 02 01	703	0.9−	0.4+	2000 02 06	704	0.4+	0.0
1977 10 17	675	1.8+	1.7+	2000 02 01	703	0.7−	0.5−	2000 02 06	704	0.2+	0.2−
1977 10 17	675	1.8+	1.9+	2000 02 01	703	0.2−	0.4+	2000 02 13	704	0.5−	0.6+

1977 10 22	675	1.9−	1.8−	2000 02 01	703	0.9−	0.3+	2000 02 13	704	0.3+	0.7−
1977 10 22	675	1.0−	0.4−	2000 02 02	704	0.4+	0.3+	2000 02 13	704	(2.4+	0.3+)
1998 12 17	704	0.1−	0.6−	2000 02 02	704	0.4+	0.4+	2000 02 27	703	0.4−	1.1−
1998 12 17	704	1.5+	0.1−	2000 02 02	704	0.5+	0.4+	2000 02 27	703	1.0−	0.1+
1998 12 17	704	1.6−	0.7+	2000 02 02	704	0.1+	0.4+	2000 02 27	703	0.1+	0.0
1998 12 17	704	0.2+	0.3−	2000 02 02	704	0.5+	0.1+	2000 02 27	703	0.7−	0.2+
2000 01 07	704	0.2+	0.9−	2000 02 04	704	0.3+	0.0	2000 03 05	704	0.2−	0.2+
2000 01 07	704	0.7+	0.2−	2000 02 04	704	0.5+	0.2−	2000 03 05	704	0.4+	0.1+
2000 01 07	704	0.1+	0.5−	2000 02 04	704	0.3+	0.5−	2000 03 05	704	0.2−	0.1+
2000 01 07	704	0.9+	0.3+	2000 02 04	704	0.7+	0.3−	2000 03 05	704	0.1−	0.1+
2000 01 30	703	1.4−	0.3−	2000 02 04	704	0.1+	0.2+	2000 03 05	704	0.3+	0.1+
2000 01 30	703	0.4+	0.8+	2000 02 06	704	0.5+	0.1+				
2000 01 30	703	0.4−	0.3−	2000 02 06	704	0.1−	0.2−				

2000 BV₂₅ = 1998 VC₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	33.86471		(2000.0)	P	Q
n	0.17826440	ω	355.92101	−0.06466506	−0.99612106
a	3.1267486	Ω	97.77927	+0.91725755	−0.08288441
e	0.0596889	i	3.45305	+0.39301019	+0.02954662
P	5.53	H	14.0	G 0.15	U 4

Residuals in seconds of arc

1998 11 10	704	0.8+	1.2+	2000 01 04	704	0.3+	0.4+	2000 02 11	704	0.5+	0.1−
1998 11 10	704	0.2+	0.2+	2000 01 04	704	0.6−	1.0+	2000 02 11	704	0.4+	0.6−
1998 11 10	704	0.1−	1.0−	2000 01 30	704	0.4−	0.9+	2000 02 11	704	0.9+	0.2+
1998 11 10	704	(0.5−	2.4+)	2000 01 30	704	0.1−	0.4+	2000 02 11	704	0.3+	0.5−
1998 11 11	704	0.3+	0.5+	2000 01 30	704	0.0	0.3+	2000 02 11	704	0.0	0.4+
1998 11 11	704	0.4−	0.5−	2000 01 30	704	1.1−	0.9−	2000 03 04	704	0.1−	0.0
1998 11 11	704	1.0−	1.2+	2000 02 03	704	0.0	0.5+	2000 03 04	704	0.3−	0.2+
1998 11 11	704	0.1+	1.4−	2000 02 03	704	0.2+	0.0	2000 03 04	704	0.2−	0.5+
2000 01 04	704	0.0	1.6−	2000 02 03	704	0.1+	0.4+	2000 03 04	704	0.4+	0.7−
2000 01 04	704	0.8−	1.4−	2000 02 03	704	0.3+	0.0	2000 03 04	704	0.6−	0.6−
2000 01 04	704	0.9+	0.4+	2000 02 03	704	0.3−	0.8+				

2000 BK₂₆ = 1993 UR₇ = 1998 RB₄₄

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	40.31365		(2000.0)	P	Q
n	0.18358818	ω	306.21732	+0.21459491	−0.97386562
a	3.0660054	Ω	131.21632	+0.92485153	+0.17812367
e	0.2522082	i	5.67589	+0.31400425	+0.14091737
P	5.37	H	14.6	G 0.15	U 2

Residuals in seconds of arc

1993 10 10	809	0.1+	1.2+	1999 12 07	704	0.7+	1.1−	2000 02 05	704	0.6−	0.4−
1993 10 10	809	0.9−	0.4+	1999 12 07	704	0.3+	1.0−	2000 02 05	704	0.5−	0.1−
1993 10 10	809	0.7−	0.6+	1999 12 07	704	0.8+	1.0−	2000 02 05	704	0.4−	0.3+
1993 10 20	809	0.6+	1.1+	1999 12 07	704	0.4+	0.1−	2000 02 11	704	0.3−	0.6−
1993 10 20	809	0.1−	0.9+	2000 01 05	704	0.7+	0.3−	2000 02 11	704	0.4−	0.5−
1993 10 20	809	0.3−	1.2+	2000 01 05	704	0.4−	1.3−	2000 02 11	704	0.2−	0.3−
1993 10 21	809	1.2+	1.7−	2000 01 05	704	0.1−	0.8−	2000 02 11	704	0.6−	0.3−
1993 10 21	809	0.2+	1.3−	2000 01 29	691	0.2−	0.5−	2000 02 11	704	0.5−	0.4−
1993 10 21	809	0.4−	1.0−	2000 01 29	691	0.1−	0.5−	2000 02 29	704	0.9+	0.3+
1998 09 14	704	0.4+	1.1−	2000 01 29	691	0.1−	0.4−	2000 02 29	704	0.4+	0.1+
1998 09 14	704	0.6−	1.5−	2000 01 30	704	0.1+	0.1+	2000 02 29	704	0.1+	0.1+
1998 09 14	704	0.5+	1.5−	2000 01 30	704	0.1−	0.6−	2000 02 29	704	0.4+	0.1+
1998 09 14	704	0.7+	1.6−	2000 01 30	703	0.1−	0.5+	2000 02 29	704	0.5+	0.7+
1998 09 18	704	1.7−	1.9+	2000 01 30	704	0.3−	0.4−	2000 03 04	704	0.3+	0.0
1998 09 18	704	0.1−	0.3+	2000 01 30	703	0.5−	0.2+	2000 03 04	704	0.1−	0.3+
1998 09 18	704 (3.1+	0.5−)		2000 01 30	703	0.7+	0.6+	2000 03 04	704	0.2−	0.2−
1998 09 18	704	0.7+	0.1+	2000 01 30	704	0.1−	0.3−	2000 03 04	704	0.3−	0.3−
1998 09 24	699	0.6+	1.1+	2000 01 30	703	0.3+	0.0	2000 03 04	704	0.4−	0.1−
1998 09 24	699	0.3+	0.2−	2000 02 03	704	0.1−	0.6+	2000 03 05	704	0.9+	0.7+
1998 09 24	699	0.4+	0.3+	2000 02 03	704	0.1+	1.1+	2000 03 05	704	0.3+	1.2+
1998 11 07	910	0.4−	0.6+	2000 02 03	704	0.4−	0.5+	2000 03 05	704	0.3−	1.6+

2000 MAR. 20

M.P.C. 39365

1998 11 07 910 0.2- 0.6+ 2000 02 03 704 0.5- 0.6+ 2000 03 05 704 0.3+ 0.1+
 1998 11 07 910 0.7- 0.9+ 2000 02 03 704 0.6+ 0.4+ 2000 03 05 704 0.5- 0.6+

2000 BO₂₆ = 1998 SY₁₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	79.46899		(2000.0)		P		Q
<i>n</i>	0.20691321	ω	310.95329		+0.64393216		-0.75777662
<i>a</i>	2.8310263	Ω	98.64114		+0.73009758		+0.56740559
<i>e</i>	0.1041888	<i>i</i>	6.12459		+0.22871137		+0.32221964
<i>P</i>	4.76	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.6+	1.6+	2000 01 30	704	0.6-	0.2+	2000 03 09	704	1.0+	0.9+
1998 09 26	704	1.0+	1.0-	2000 01 30	704	0.4+	0.5-	2000 03 09	704	0.7-	0.0
1998 09 26	704	0.1+	1.1-	2000 01 30	704	1.4+	0.8+	2000 03 09	704	0.3-	0.2+
1998 09 26	704	1.2-	0.4-	2000 02 03	704	0.9-	1.3+	2000 03 11	704	0.1+	0.1-
1998 09 26	704	0.3-	0.2+	2000 02 03	704	0.4-	0.9-	2000 03 11	704	0.3+	0.4-
1998 09 27	704	0.1+	1.0+	2000 02 03	704	0.0	1.1-	2000 03 11	704	0.4+	0.4+
1998 09 27	704	1.5-	0.2+	2000 03 09	704	0.4+	0.5-	2000 03 11	704	0.5-	0.4+
1998 09 27	704	1.2+	0.5-	2000 03 09	704	0.8-	1.0-	2000 03 11	704	0.2+	0.1+

2000 BX₂₆ = 1978 WT₁₈ = 1996 KC₅ = 1998 VY₁₅Id. G. V. Williams (*MPC* 38724), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	58.83838		(2000.0)		P		Q
<i>n</i>	0.19513193	ω	341.47375		+0.21246709		-0.97575130
<i>a</i>	2.9438600	Ω	96.23333		+0.90308967		+0.17551494
<i>e</i>	0.0659946	<i>i</i>	3.03331		+0.37321145		+0.13078194
<i>P</i>	5.05	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1978 11 30	675	0.6+	0.1+	1998 11 16	566	0.7-	0.4+	2000 02 03	704	0.1+	0.4-
1978 12 01	675	0.7-	0.0	2000 01 04	704	0.0	0.8-	2000 02 03	704	0.2-	0.3+
1996 05 22	809	1.5-	2.0+	2000 01 04	704	0.1-	0.2+	2000 02 11	704	(2.3+	0.5+)
1996 05 22	809	(0.2+	2.2+)	2000 01 04	704	0.1-	1.2+	2000 02 11	704	0.4-	0.2+
1996 05 22	809	0.0	0.5+	2000 01 04	704	0.6+	1.1+	2000 02 11	704	0.2-	0.1-
1996 05 24	809	1.2+	0.2-	2000 01 30	704	0.3+	0.1-	2000 02 11	704	0.2+	0.1+
1996 05 24	809	0.3+	0.3-	2000 01 30	704	0.2+	0.5+	2000 02 28	704	(3.8+	2.4-)
1996 05 24	809	0.2+	1.7-	2000 01 30	703	1.0+	0.5+	2000 02 28	704	0.8+	0.3-
1998 11 10	704	0.1-	0.1+	2000 01 30	703	0.7-	0.7+	2000 02 28	704	0.5+	0.3-
1998 11 10	704	(0.3+	2.3+)	2000 01 30	704	0.0	0.3+	2000 02 28	704	0.4-	0.2-
1998 11 10	704	0.8+	0.4+	2000 01 30	703	0.0	0.2+	2000 03 04	704	0.4+	0.5+
1998 11 10	704	0.1+	0.7+	2000 01 30	703	0.4-	0.0	2000 03 04	704	0.1-	0.2+
1998 11 10	704	1.6+	0.0	2000 01 30	703	0.0	0.1-	2000 03 04	704	0.7+	0.1-
1998 11 11	704	0.2+	0.1-	2000 01 30	703	1.0-	0.3+	2000 03 04	704	0.0	0.1-
1998 11 11	704	0.0	0.8-	2000 01 30	703	0.4-	0.6-	2000 03 04	704	0.3-	0.1-
1998 11 11	704	0.1-	0.8-	2000 01 30	703	0.7+	0.3+	2000 03 09	608	0.4-	1.0-
1998 11 11	704	0.1-	0.5+	2000 02 03	704	0.0	0.0	2000 03 09	608	0.2-	1.4-
1998 11 16	566	0.8-	0.4-	2000 02 03	704	0.3-	0.0	2000 03 09	608	0.1+	1.0-
1998 11 16	566	0.9-	0.1-	2000 02 03	704	0.4-	0.0				

2000 BH₂₇ = 2000 AN₉₅ = 1978 UO₇ = 1998 VW₂₂

Id. M. E. Sansaturio, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	69.45181		(2000.0)		P		Q
<i>n</i>	0.19954515	ω	90.26295		+0.31783123		-0.94811738
<i>a</i>	2.9002934	Ω	341.19991		+0.86034671		+0.29172898
<i>e</i>	0.0330992	<i>i</i>	1.33929		+0.39848068		+0.12636308
<i>P</i>	4.94	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1978 10 27	675	0.4-	0.4-	2000 01 30	704	0.6+	0.1-	2000 03 03	704	0.0	0.5-
1978 10 28	675	0.9+	0.3-	2000 01 30	704	0.2+	1.3+	2000 03 03	704	0.0	0.6+
1978 10 29	675	0.0	0.3-	2000 01 30	704	0.9+	0.6+	2000 03 03	704	0.1-	0.0
1998 11 10	704	0.8+	0.5+	2000 01 30	703	0.5-	0.4-	2000 03 03	704	0.3-	0.5+

1998 11 10	704	0.9-	0.6+	2000 01 30	703	0.3-	0.1+	2000 03 03	704	0.3-	0.5+
1998 11 10	704	0.3+	0.3+	2000 01 30	703	0.3-	0.6+	2000 03 05	704	1.7-	1.4-
1998 11 10	704	0.4+	0.6+	2000 01 30	703	0.5-	0.3+	2000 03 05	704	0.5-	0.0
1998 11 11	704	0.1-	1.0+	2000 02 04	704	0.8+	0.0	2000 03 05	704	0.5+	0.3+
1998 11 11	704	0.3+	0.9-	2000 02 04	704	0.8+	1.1-	2000 03 05	704	0.1+	0.2+
1998 11 11	704	0.3+	0.3-	2000 02 04	704	0.1-	0.8-	2000 03 08	704	0.1+	0.1+
1998 11 11	704	0.9-	0.4+	2000 02 04	704	0.6+	0.1-	2000 03 08	704	0.4+	0.0
1998 11 24	691	0.3-	0.3-	2000 02 04	704	1.3+	0.4-	2000 03 08	704	0.3+	0.4-
1998 11 24	691	0.2-	0.3-	2000 02 07	691	0.3-	0.6+	2000 03 08	704	0.6-	0.6+
1998 11 24	691	0.1-	0.1-	2000 02 07	691	0.1-	0.8-	2000 03 08	704	0.0	0.3+
2000 01 04	704	0.4-	0.7-	2000 02 07	691	0.2-	0.0	2000 03 08	704	1.0+	1.7+
2000 01 04	704	0.0	0.8-	2000 02 11	704	0.2+	0.1+	2000 03 08	704	0.3+	0.5+
2000 01 04	704	0.8+	0.4-	2000 02 11	704	0.8+	1.1+	2000 03 08	704	(0.7-	2.5+)
2000 01 07	704	0.1-	0.3-	2000 02 11	704	0.4+	1.0+	2000 03 08	704	(0.5+	2.8+)
2000 01 07	704	0.0	0.6-	2000 02 11	704	0.6+	0.2+	2000 03 09	704	0.5+	0.3+
2000 01 07	704	0.3-	0.6-	2000 02 11	704	0.6-	1.3+	2000 03 09	704	0.2-	0.2-
2000 01 07	704	0.9-	0.1-	2000 02 29	704	0.1+	0.1+	2000 03 09	704	0.4-	0.2-
2000 01 07	704	1.1-	0.8-	2000 02 29	704	0.4+	0.3+	2000 03 09	704	0.1+	0.2+
2000 01 28	691	0.1-	0.4-	2000 02 29	704	1.0-	0.2+	2000 03 09	704	0.1+	0.0
2000 01 28	691	0.2-	0.3-	2000 03 01	691	0.5-	0.1-	2000 03 11	691	0.2-	0.7-
2000 01 28	691	0.2-	0.3-	2000 03 01	691	0.5-	0.1-	2000 03 11	691	0.3+	1.1-
2000 01 30	704	0.5+	0.1+	2000 03 01	691	0.6-	0.1-	2000 03 11	691	0.2-	0.7-

2000 BK₂₇ = 1995 QE₁₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	97.00220		(2000.0)		P		Q
<i>n</i>	0.29925539	ω	54.19099		+0.89569858		-0.44126155
<i>a</i>	2.2136454	Ω	331.87372		+0.36110944		+0.79385743
<i>e</i>	0.2097817	<i>i</i>	6.68578		+0.25946873		+0.41842397
<i>P</i>	3.29	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 08 22	372	0.4-	1.0+	2000 02 03	704	0.9+	0.1-	2000 02 29	704	0.0	0.0
1995 08 22	372	(3.1+	3.5+)	2000 02 05	704	0.3-	0.0	2000 02 29	704	0.4+	0.4+
1995 08 24	372	0.4-	0.5+	2000 02 05	704	0.4-	0.4-	2000 02 29	704	0.6-	0.1+
1995 08 24	372	(0.3-	2.7+)	2000 02 05	704	0.2-	0.6-	2000 02 29	704	0.3+	0.6+
1999 12 04	703	0.3-	0.3+	2000 02 05	704	1.5-	0.5+	2000 02 29	704	0.0	0.4+
1999 12 04	703	1.3+	0.3-	2000 02 05	704	1.2-	0.1-	2000 03 02	691	0.1-	0.5-
1999 12 04	703	1.1-	0.4+	2000 02 08	704	0.2+	0.3-	2000 03 02	691	0.2-	0.4-
1999 12 04	703	0.9-	0.2-	2000 02 08	704	0.5+	0.1-	2000 03 02	691	0.3-	0.5-
2000 01 06	704	0.5+	0.2+	2000 02 08	704	0.2+	0.1+	2000 03 03	704	0.7+	0.7+
2000 01 06	704	0.5+	0.9-	2000 02 08	704	0.6+	0.2-	2000 03 03	704	0.3+	0.2-
2000 01 06	704	0.4-	0.7-	2000 02 10	704	0.2-	0.5+	2000 03 03	704	0.7+	0.2+
2000 01 30	704	0.6+	0.0	2000 02 10	704	0.2-	1.3+	2000 03 03	704	0.2+	0.2-
2000 01 30	704	1.2+	1.0-	2000 02 10	704	0.3-	0.1-	2000 03 03	704	0.2-	0.8-
2000 01 30	704	1.1+	0.9+	2000 02 10	704	1.2-	0.1+	2000 03 05	704	0.2+	0.5+
2000 01 30	704	1.5+	1.3-	2000 02 11	704	0.1+	0.1-	2000 03 05	704	0.1+	0.6+
2000 01 30	703	0.0	0.7+	2000 02 11	704	0.4-	0.4+	2000 03 05	704	1.1-	1.2+
2000 01 30	703	0.4-	0.4-	2000 02 11	704	0.7+	0.3+	2000 03 05	704	0.8-	1.0+
2000 01 30	703	0.0	0.1-	2000 02 11	704	0.2+	0.1-	2000 03 05	704	0.2-	0.5+
2000 01 30	703	0.1-	0.4-	2000 02 11	704	0.2-	0.4+	2000 03 11	691	0.0	0.6-
2000 02 03	704	0.7+	0.1+	2000 02 27	703	0.4+	0.7+	2000 03 11	691	0.5+	0.8-
2000 02 03	704	0.0	0.7-	2000 02 27	703	1.1-	0.0	2000 03 11	691	0.1+	0.5-
2000 02 03	704	0.3+	0.2-	2000 02 27	703	0.5-	0.8+				
2000 02 03	704	0.7+	0.3+	2000 02 27	703	0.4-	0.4+				

2000 BX₂₇ = 1979 HG

Residuals in seconds of arc

1979 04 19	807	1.2−	1.1+	2000 02 11	704	0.4+	0.2+	2000 03 05	704	0.1+	0.6+
1979 04 26	807	1.2+	0.3−	2000 02 11	704	0.3−	0.1+	2000 03 05	704	0.1+	0.1+
1979 04 26	807	0.0	0.7−	2000 02 11	704	0.4+	0.1−	2000 03 05	704	1.2+	0.1+
1996 08 14	566	0.5+	0.2+	2000 02 11	704	0.0	0.1+	2000 03 05	704	0.2−	0.1−
1996 08 14	566	0.3−	0.3+	2000 02 13	704	(0.8+	3.2+)	2000 03 09	704	0.1−	0.3−
1996 08 14	566	0.3−	0.4+	2000 02 13	704	0.6+	1.2+	2000 03 09	704	0.2−	0.4+
2000 01 30	704	0.5+	0.3+	2000 02 13	704	0.3−	0.6+	2000 03 09	704	0.6−	0.3−
2000 01 30	704	0.1+	0.3+	2000 02 13	704	0.2−	0.4+	2000 03 09	704	0.9−	0.6+
2000 01 30	704	0.7+	1.2+	2000 02 25	703	0.0	0.3+	2000 03 09	704	0.4−	0.2+
2000 01 30	703	0.1+	0.2+	2000 02 25	703	0.6−	0.5−	2000 03 11	704	0.2−	0.1−
2000 01 30	703	0.1+	0.8+	2000 02 25	703	1.7−	1.0+	2000 03 11	704	0.4−	0.3−
2000 01 30	703	0.3+	0.4+	2000 02 25	703	0.8−	0.3−	2000 03 11	704	0.3+	0.1−
2000 01 30	703	0.1+	0.1+	2000 02 29	704	0.4+	0.1−	2000 03 11	704	0.2−	0.2−
2000 02 04	704	0.4+	0.2−	2000 02 29	704	0.4+	0.0	2000 03 11	704	0.1−	0.1−
2000 02 04	704	0.2+	0.0	2000 02 29	704	0.4+	0.1+	2000 03 12	704	1.0−	0.5−
2000 02 04	704	0.0	0.1+	2000 02 29	704	0.2+	0.2−	2000 03 12	704	0.1−	1.4−
2000 02 04	704	0.0	0.4−	2000 02 29	704	0.4+	0.0	2000 03 12	704	0.9+	0.2−
2000 02 04	704	0.5+	0.1−	2000 03 03	704	0.1+	0.3−	2000 03 12	704	0.2−	1.2−
2000 02 06	703	0.2+	1.0−	2000 03 03	704	0.2+	0.1+	2000 03 12	704	1.1−	0.0
2000 02 06	703	0.3−	0.6−	2000 03 03	704	0.0	0.0	2000 03 14	704	0.1+	0.0
2000 02 06	703	0.0	1.0−	2000 03 03	704	0.1−	0.2+	2000 03 14	704	0.2−	0.3+
2000 02 06	703	0.3−	0.2+	2000 03 03	704	0.1−	0.1+	2000 03 14	704	0.0	0.2+
2000 02 11	704	0.4+	0.3−	2000 03 05	704	0.3+	0.3+	2000 03 14	704	0.7+	0.3−

2000 BZ₂₇ = 1998 VR₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	50.56733		(2000.0)	P	Q
<i>n</i>	0.17103479	ω	291.80649	+0.06429366	−0.99787006
<i>a</i>	3.2142507	Ω	154.49968	+0.92478603	+0.05542373
<i>e</i>	0.1381477	<i>i</i>	1.46817	+0.37501615	+0.03440286
<i>P</i>	5.76	<i>H</i>	13.6	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 11 10	704	0.4+	0.4−	2000 02 04	704	0.4+	0.7−	2000 03 03	704	0.4+	0.2−
1998 11 10	704	0.4+	0.5−	2000 02 04	704	0.5+	0.5−	2000 03 03	704	0.2+	0.8−
1998 11 10	704	1.4−	0.2+	2000 02 11	704	0.4+	0.1+	2000 03 05	704	0.6+	0.4+
1998 11 10	704	0.0	0.0	2000 02 11	704	0.5+	0.4−	2000 03 05	704	0.3+	0.4+
1998 11 11	704	0.2−	0.6+	2000 02 11	704	0.4+	0.1−	2000 03 05	704	0.0	0.2+
1998 11 11	704	0.3−	0.9+	2000 02 11	704	0.2+	0.0	2000 03 05	704	0.2+	0.3+
1998 11 11	704	0.2+	0.1−	2000 02 11	704	0.3−	0.1−	2000 03 05	704	0.3+	0.1+
1998 11 11	704	0.2+	0.1−	2000 02 25	703	0.4−	0.2+	2000 03 09	704	0.5+	0.1+
1998 11 11	704	0.5+	0.4−	2000 02 25	703	0.9−	0.2−	2000 03 09	704	0.0	0.1−
1998 11 16	566	0.1+	0.5−	2000 02 25	703	0.8−	0.6+	2000 03 09	704	0.1−	0.9−
1998 11 16	566	0.2−	1.0−	2000 02 25	703	0.6−	0.4+	2000 03 09	704	0.6+	0.9+
1998 11 16	566	0.3−	0.8−	2000 02 26	413	0.2−	0.0	2000 03 09	704	0.2−	0.3+
1999 01 06	699	0.0	1.1+	2000 02 26	413	0.1−	0.1−	2000 03 09	608	0.5−	1.2−
1999 01 06	699	0.4+	0.5+	2000 02 27	413	0.1+	0.0	2000 03 09	608	0.7−	1.2−
1999 01 06	699	0.7+	0.7+	2000 02 27	413	0.1+	0.0	2000 03 09	608	0.2−	1.2−
1999 12 05	703	0.9−	0.4+	2000 02 27	413	0.2−	0.5−	2000 03 10	691	0.4−	0.1−
1999 12 05	703	0.1+	0.9+	2000 02 27	413	0.8−	0.1−	2000 03 10	691	0.5−	0.1−
1999 12 05	703	0.5−	0.2−	2000 02 27	413	0.0	0.3−	2000 03 10	691	0.1−	1.0−
1999 12 05	703	0.2+	0.0	2000 02 28	413	0.0	0.2−	2000 03 11	704	1.1+	0.2+
2000 01 30	704	0.0	0.1+	2000 02 28	413	0.2−	0.2+	2000 03 11	704	0.2−	0.7+
2000 01 30	704	0.8+	0.4−	2000 02 29	704	0.0	0.3+	2000 03 11	704	0.1+	0.7+
2000 01 30	704	0.5+	0.8+	2000 02 29	704	0.3+	0.0	2000 03 11	704	0.3+	1.3+
2000 02 02	703	(2.6+	1.5+)	2000 02 29	704	0.6−	0.1+	2000 03 11	704	0.3+	1.3+
2000 02 02	703	0.2−	0.2−	2000 02 29	704	0.1+	0.5+	2000 03 12	691	0.2−	0.3−
2000 02 02	703	0.8+	0.8+	2000 02 29	704	0.2−	0.9+	2000 03 12	691	0.3−	0.2−
2000 02 02	703	0.1+	0.3+	2000 03 03	704	0.2−	0.3−	2000 03 12	691	0.3−	0.3−
2000 02 04	704	0.6−	0.6−	2000 03 03	704	0.8+	0.1−				
2000 02 04	704	0.3−	0.5−	2000 03 03	704	0.3+	0.4−				

2000 BE₂₈ = 1998 QX₁₀₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	97.81944		(2000.0)	P	Q
<i>n</i>	0.24108098	ω	252.90053	+0.84967609	−0.50065738
<i>a</i>	2.5567842	Ω	136.74890	+0.52679252	+0.81978775
<i>e</i>	0.1062093	<i>i</i>	13.97788	−0.02324169	+0.27801122
<i>P</i>	4.09	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1996 02 17	010	0.4+	1.8−	2000 01 31	704	0.7−	0.6−	2000 02 03	704	0.2+	0.0
1996 02 17	010	0.4−	1.5−	2000 01 31	704	0.7+	0.7−	2000 02 05	704	0.5+	0.4+
1996 02 17	010	0.4−	1.1−	2000 01 31	704	0.4−	0.9−	2000 02 05	704	0.4+	0.5+
1998 08 25	809	0.8+	0.3+	2000 01 31	704	0.4−	0.8−	2000 02 05	704	0.7+	0.5−
1998 08 25	809	0.3+	1.7−	2000 01 31	704	0.8+	1.2−	2000 02 05	704	0.9+	0.7−
1998 08 25	809	(0.2+	2.6−)	2000 02 02	704	0.0	0.4−	2000 02 05	704	(0.6+	2.1+)
1998 08 26	809	0.6−	0.4+	2000 02 02	704	0.5−	0.4+	2000 02 10	691	1.0−	0.3+
1998 08 26	809	0.1+	0.0	2000 02 02	704	0.5−	0.1+	2000 02 10	691	0.9−	0.2+
1998 08 26	809	0.3−	0.2+	2000 02 02	704	0.1+	0.1+	2000 02 10	691	1.0−	0.2+
2000 01 30	703	1.3+	0.6+	2000 02 02	704	0.1−	0.4−	2000 02 11	704	1.1+	1.7+
2000 01 30	703	1.1−	0.2−	2000 02 03	704	0.3−	0.2+	2000 02 11	704	0.0	1.1+
2000 01 30	703	0.4−	0.2+	2000 02 03	704	0.4−	0.2−	2000 02 11	704	0.1−	1.4+
2000 01 30	703	0.4−	0.2−	2000 02 03	704	0.5−	0.2+	2000 02 11	704	1.4+	0.8+
2000 01 31	704	0.1−	0.8−	2000 02 03	704	0.2+	0.3+	2000 02 11	704	0.8+	1.8+

2000 BT₂₈ = 1991 LC = 1991 RC₃₅ = 1998 XC₅₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	220.73178		(2000.0)	P	Q
<i>n</i>	0.17396652	ω	161.35287	+0.38475398	+0.91970639
<i>a</i>	3.1780369	Ω	131.19489	−0.85951152	+0.38785114
<i>e</i>	0.1174303	<i>i</i>	5.95993	−0.33645851	+0.06092334
<i>P</i>	5.67	<i>H</i>	12.9	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1991 06 08	691	0.8−	0.9+	2000 01 07	704	0.3−	0.0	2000 02 27	703	0.2−	0.6+
1991 06 08	691	0.4−	1.2+	2000 01 28	691	0.1−	0.1−	2000 02 29	704	0.0	0.2+
1991 06 08	691	0.1−	1.8+	2000 01 28	691	0.0	0.2−	2000 02 29	704	0.2−	0.2+
1991 06 10	691	0.5+	0.3−	2000 01 28	691	0.0	0.2+	2000 02 29	704	0.2+	0.5+
1991 06 10	691	0.1−	0.2+	2000 01 30	704	0.5−	0.3−	2000 02 29	704	0.0	0.3+
1991 06 10	691	0.1+	0.3−	2000 01 30	704	0.3+	0.2−	2000 02 29	704	0.2+	0.0
1991 06 10	691	0.1−	0.1+	2000 01 30	704	1.1+	0.2−	2000 03 03	704	0.3−	0.4+
1991 09 12	675	0.6−	0.2+	2000 01 30	704	1.1+	0.2−	2000 03 03	704	0.3−	0.4+
1991 09 12	675	0.8+	1.2−	2000 01 30	703	0.2−	0.3+	2000 03 03	704	0.4−	0.3+
1998 12 15	704	0.2−	0.4−	2000 01 30	703	0.0	0.2+	2000 03 03	704	0.7−	0.6+
1998 12 15	704	0.3+	0.5−	2000 01 30	703	0.3+	0.1+	2000 03 03	704	0.2−	1.1+
1998 12 15	704	0.1+	0.6−	2000 01 30	703	0.5−	0.7−	2000 03 05	704	0.3+	0.2+
1998 12 15	704	0.8+	0.2−	2000 02 05	704	0.8−	0.1−	2000 03 05	704	0.1−	0.8+
1998 12 15	704	(3.4−	0.0)	2000 02 05	704	0.8−	0.1+	2000 03 05	704	0.2+	0.2+
1998 12 16	704	0.5+	0.5+	2000 02 05	704	1.8−	0.5+	2000 03 05	704	0.2+	0.4+
1998 12 16	704	0.1−	0.3+	2000 02 07	691	0.1+	0.1−	2000 03 05	704	0.4−	0.6+
1998 12 16	704	0.1+	0.5−	2000 02 07	691	0.2+	0.1−	2000 03 09	704	1.2+	0.3−
1998 12 16	704	1.8−	1.5+	2000 02 07	691	0.2+	0.1−	2000 03 09	704	0.3+	0.5−
1998 12 16	704	(2.7−	2.9+)	2000 02 11	704	0.0	0.5+	2000 03 09	704	0.2+	0.6−
1998 12 22	704	(2.5−	1.5−)	2000 02 11	704	0.1+	0.4−	2000 03 09	704	0.6+	0.8−
1998 12 22	704	0.5+	0.2+	2000 02 11	704	0.1−	0.3+	2000 03 09	704	0.0	0.4−
1998 12 22	704	1.0−	0.8−	2000 02 11	704	0.2+	0.3−	2000 03 11	608	0.6+	0.8−
1998 12 22	704	0.6+	0.9+	2000 02 11	704	0.1−	0.4−	2000 03 11	608	0.6+	0.5−
2000 01 07	704	0.1−	0.2−	2000 02 27	703	0.8−	0.4+	2000 03 11	608	1.1+	0.8−
2000 01 07	704	0.4+	0.5−	2000 02 27	703	0.5+	0.5+				
2000 01 07	704	0.3+	0.0	2000 02 27	703	0.7−	0.3+				

2000 MAR. 20

M.P.C. 39367

2000 BK₃₀ = 1998 SB₁₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	74.53125	(2000.0)	P		Q	
<i>n</i>	0.21365381	ω	279.51127	+0.49757088	-0.86425630	
<i>a</i>	2.7711644	Ω	140.36790	+0.83442837	+0.45357393	
<i>e</i>	0.0815381	<i>i</i>	6.66715	+0.23696519	+0.21755860	
<i>P</i>	4.61	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1998 09 26	704	0.2-	0.1-	2000 02 04	704	0.3+	0.1-	2000 03 03	704	0.4+	0.8+
1998 09 26	704	0.3-	0.1-	2000 02 04	704	0.5+	0.8-	2000 03 04	704	0.4-	0.3-
1998 09 26	704	0.6-	0.4-	2000 02 04	704	0.4-	0.3+	2000 03 04	704	0.5-	0.0
1998 09 26	704	0.1-	0.5+	2000 02 11	704	0.4-	1.5+	2000 03 04	704	0.1-	0.5-
1998 09 26	704	0.4-	0.8-	2000 02 11	704	0.5+	0.2-	2000 03 05	704	0.2-	0.3-
1998 09 27	704	0.5+	0.1+	2000 02 11	704	1.4+	0.3-	2000 03 05	704	0.1+	0.5-
1998 09 27	704	0.9+	0.8-	2000 02 29	704	0.3+	0.4+	2000 03 05	704	0.2-	0.3-
1998 09 27	704	0.5-	1.5+	2000 02 29	704	0.4+	0.1-	2000 03 05	704	0.2-	0.0
1998 09 27	704	0.3-	1.1+	2000 02 29	704	0.2-	0.3+	2000 03 05	704	0.0	0.1-
1998 10 20	699	0.3-	0.2-	2000 02 29	704	0.2+	0.2+	2000 03 05	704	0.3+	0.8+
1998 10 20	699	0.7+	1.1-	2000 03 02	691	0.4-	0.4-	2000 03 05	704	0.7-	0.4+
1998 10 20	699	0.6+	0.3+	2000 03 02	691	0.5-	0.5-	2000 03 05	704	0.1-	0.6+
2000 01 27	691	0.1+	0.7-	2000 03 02	691	0.3-	0.4-	2000 03 05	704	0.5-	0.2-
2000 01 27	691	0.1+	0.5-	2000 03 03	704	0.3+	0.2-	2000 03 05	608	0.0	1.1-
2000 01 27	691	0.1+	0.7-	2000 03 03	704	0.2+	0.1-	2000 03 05	608	0.7+	0.5-
2000 01 30	703	1.0-	1.0+	2000 03 03	704	0.2+	0.9+	2000 03 05	608	0.3+	0.6-
2000 01 30	703	1.3-	0.0	2000 03 03	704	0.4-	0.6+	2000 03 06	704	0.2+	0.3+
2000 01 30	703	0.1-	0.5+	2000 03 03	704	0.1+	0.9+	2000 03 06	704	0.4+	0.1+
2000 01 30	703	0.5+	0.3-	2000 03 03	704	0.5-	0.2+	2000 03 06	704	0.2+	1.1-
2000 02 04	704	0.4+	0.2+	2000 03 03	704	0.3+	0.6+	2000 03 06	704	0.1-	0.4+
2000 02 04	704	0.3+	0.1+	2000 03 03	704	0.3-	0.0				

2000 BN₃₀ = 1998 RW₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	359.93199	(2000.0)	P		Q	
<i>n</i>	0.26334428	ω	137.64392	-0.81130723	-0.58460040	
<i>a</i>	2.4105721	Ω	6.58654	+0.52456523	-0.73155885	
<i>e</i>	0.1621907	<i>i</i>	2.39339	+0.25809281	-0.35080482	
<i>P</i>	3.74	<i>H</i>	16.8	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1998 09 13	691	0.5+	0.2+	2000 01 30	703	0.5-	0.2+	2000 02 11	704	0.9+	0.3-
1998 09 13	691	0.5+	0.2+	2000 02 03	704	1.1-	0.7-	2000 02 11	704	0.3+	0.5+
1998 09 13	691	0.2+	0.4+	2000 02 03	704	0.4-	0.9-	2000 02 11	120	1.1-	0.5+
1998 09 20	691	0.3-	0.3+	2000 02 03	704	1.8+	0.4+	2000 02 11	120	0.4-	0.4+
1998 09 20	691	0.8-	0.0	2000 02 10	120	0.4-	0.4-	2000 02 11	120	0.8+	1.7-
1998 09 20	691	0.4-	0.5-	2000 02 10	120	0.6-	1.2+	2000 02 26	703	1.0+	0.4-
2000 01 27	120	0.3+	0.2-	2000 02 10	120	0.3+	0.9-	2000 02 26	703	1.8+	0.9+
2000 01 27	120	0.8-	0.6+	2000 02 10	120	(2.4+	1.7-)	2000 02 26	703	2.0-	1.0+
2000 01 30	703	1.4+	1.4-	2000 02 11	704	0.0	1.1-	2000 02 26	703	0.2-	1.1+
2000 01 30	703	1.6-	0.1-	2000 02 11	704	0.8+	0.4+				
2000 01 30	703	0.5-	0.6+	2000 02 11	704	0.2+	0.6+				

2000 CJ = 1995 WT₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	31.11885	(2000.0)	P		Q	
<i>n</i>	0.28062060	ω	345.71554	-0.36760496	-0.92850040	
<i>a</i>	2.3105907	Ω	125.82661	+0.85946809	-0.36074336	
<i>e</i>	0.0982746	<i>i</i>	3.71080	+0.35521994	-0.08804107	
<i>P</i>	3.51	<i>H</i>	16.0	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1995 11 16	691	0.1+	0.1+	2000 02 04	704	(2.1+	1.6-)	2000 02 27	684	0.4+	0.5-
1995 11 16	691	0.6+	0.0	2000 02 04	704	0.1-	1.3+	2000 02 27	703	0.2-	0.9-
1995 11 16	691	0.4-	0.3+	2000 02 04	704	1.6-	0.5-	2000 02 27	703	0.2-	0.7+
1995 11 28	691	0.0	0.3-	2000 02 08	684	0.3-	0.2+	2000 02 27	703	0.3+	0.5+

1995 11 28	691	0.3-	0.0	2000 02 08	684	0.6-	0.0	2000 02 27	703	0.0	0.9+
1995 11 28	691	0.2-	0.1+	2000 02 11	704	0.7-	0.3+	2000 02 29	704	0.1-	0.4+
1997 05 07	704	0.8+	0.2-	2000 02 11	704	0.1-	0.1-	2000 02 29	704	1.0+	0.1+
1997 05 07	704	0.2-	0.9-	2000 02 11	704	0.1+	0.9+	2000 02 29	704	0.3+	0.2+
1997 05 07	704	1.1+	0.9+	2000 02 11	704	0.4-	0.4+	2000 02 29	704	0.3-	0.5+
1997 05 07	704	(0.1+	2.8-)	2000 02 11	704	0.3-	0.0	2000 02 29	704	0.3+	0.3+
1997 05 07	704	1.7-	0.3+	2000 02 13	704	(2.2+	3.2-)	2000 03 05	704	0.4-	0.7-
2000 01 30	703	0.4+	0.3-	2000 02 13	704	0.5+	0.4+	2000 03 05	704	0.1-	0.3+
2000 01 30	703	0.0	0.6-	2000 02 13	704	(0.4-	3.1+)	2000 03 05	704	0.5-	0.2-
2000 01 30	703	1.8-	1.5-	2000 02 25	703	1.1-	0.9+	2000 03 05	704	0.3-	0.0
2000 01 30	703	0.4+	0.9+	2000 02 25	703	0.1+	1.5+	2000 03 05	704	0.3+	0.5-
2000 02 02	684	0.4+	0.1-	2000 02 25	703	(3.1-	0.6+)	2000 03 09	704	0.3+	0.3-
2000 02 02	684	0.0	0.2-	2000 02 25	703	0.4+	1.1-	2000 03 09	704	0.3+	0.0
2000 02 03	684	0.2+	0.4-	2000 02 26	684	0.4+	0.3-	2000 03 09	704	0.1-	0.2-
2000 02 03	684	0.3-	0.3-	2000 02 26	684	0.3+	0.5-	2000 03 09	704	0.1+	0.3-
2000 02 04	704	1.1+	0.8-	2000 02 27	684	1.6+	0.9-	2000 03 09	704	0.2+	0.6+

2000 CZ = 1998 VL₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	160.48742	(2000.0)	P		Q	
<i>n</i>	0.22920505	ω	207.25385	+0.92754947	+0.37021360	
<i>a</i>	2.6443561	Ω	130.92311	-0.32941376	+0.87435231	
<i>e</i>	0.0876403	<i>i</i>	3.86491	-0.17646118	+0.31376731	
<i>P</i>	4.30	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1998 10 26	910	1.2+	1.0+	2000 02 10	704	1.2+	0.7-	2000 02 11	120	1.6-	1.3-
1998 10 26	910	1.1+	1.4+	2000 02 10	704	0.2+	0.4-	2000 02 11	120	(2.6+	0.2-)
1998 10 27	910	1.1+	0.6+	2000 02 10	691	0.0	0.3-	2000 02 11	120	(2.6+	0.4-)
1998 11 10	704	1.1-	0.3+	2000 02 10	704	0.5-	0.7-	2000 02 14	691	0.1-	0.0
1998 11 10	704	0.0	0.1-	2000 02 10	704	0.2+	0.1-	2000 02 14	691	0.3-	0.1-
1998 11 10	704	0.3-	0.5-	2000 02 10	691	0.0	0.2-	2000 02 14	691	0.5-	0.6+
1998 11 11	704	0.6-	0.4-	2000 02 10	691	0.1-	0.2-	2000 02 29	704	0.2+	0.3+
1998 11 11	704	(2.0+	1.2+)	2000 02 10	120	(3.7-	1.8-)	2000 02 29	704	0.8+	0.2+
1998 11 11	704	0.2+	1.1-	2000 02 10	120	(3.1-	0.8-)	2000 02 29	704	0.1-	1.2-
1998 11 11	704	1.1-	0.0	2000 02 10	120	0.6+	0.0	2000 02 29	704	0.4+	0.1-
1998 11 11	704	0.4-	1.3-	2000 02 10	120	(2.1+	0.7+)	2000 02 29	704	0.1-	0.2+
2000 02 03	120	0.3-	0.5+	2000 02 11	704	(2.7-	0.5+)	2000 03 09	704	0.2-	0.3-
2000 02 03	120	0.9-	0.9+	2000 02 11	704	0.0	0.4+	2000 03 09	704	0.2+	0.3+
2000 02 04	120	0.4-	0.4+	2000 02 11	704	0.9-	0.3+	2000 03 09	704	0.8+	1.1-
2000 02 04	120	0.1+	0.3+	2000 02 11	704	0.4-	1.9+	2000 03 09	704	0.1+	0.6+
2000 02 10	704	0.3+	0.2+	2000 02 11	704	1.5+	0.3-				

2000 CE₁ = 1994 PX₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	205.52351	(2000.0)	P		Q	
<i>n</i>	0.27203222	ω	162.41685	+0.67644424	+0.73435286	
<i>a</i>	2.3589704	Ω	150.07519	-0.68851739	+0.65759170	
<i>e</i>	0.1339781	<i>i</i>	6.45880	-0.26147083	+0.16822315	
<i>P</i>	3.62	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1994 08 10	809	0.5+	0.1+	2000 02 04	704	0.2+	0.3+	2000 03 05	704	0.2-	0.1-
1994 08 10	809	0.1-	0.5+	2000 02 04	704	0.1+	0.2+	2000 03 05	704	0.5+	0.1-
1994 08 10	809	0.2-	0.1+	2000 02 04	120	0.0	0.8-	2000 03 05	704	0.8+	0.2-
1994 08 11	809	0.3-	0.4-	2000 02 04	120	1.7+	0.8-	2000 03 05	704	0.1+	0.3-
1994 08 11	809	0.4+	0.4+	2000 02 06	120	1.6+	0.1-	2000 03 05	608	(0.8+ 2.5-)	
1994 08 11	809	0.4-	0.5-	2000 02 06	120	1.0+	1.9-	2000 03 05	608	(0.9+ 2.4-)	
1998 12 11	699	0.1-	0.6-	2000 02 11	704	0.5+	0.7+	2000 03 05	608	(0.5+ 2.2-)	
1998 12 11	699	0.5-	0.2+	2000 02 11	704	0.9+	0.6+	2000 03 06	704	0.2-	0.3+
1998 12 11	699	0.2+	0.4-	2000 02 11	704	0.1+	0.9+	2000 03 06	704	0.2-	0.2+
1998 12 23	699	0.4-	0.9-	2000 02 11	704	0.8+	0.3-	2000 03 06	704	0.0	0.0
1998 12 23	699	1.3+	0.5+	2000 02 29	704	0.4-	0.0	2000 03 06	704	0.2-	0.5+
1998 12 23	699	0.3-	1.1+	2000 02 29	704	0.2-	0.0	2000 03 06	704	0.7-	0.4+
2000 02 02	703	0.4+	0.4+	2000 02 29	704	0.3-	0.3+	2000 03 11	704	0.0	0.0
2000 02 02	703	0.2-	0.3-	2000 02 29	704	0.2-	0.1-	2000 03 11	704	0.2+	0.4-

2000 02 02	703	0.5−	0.0	2000 02 29	704	0.7−	0.2−	2000 03 11	704	0.2−	0.5−
2000 02 02	703	0.2+	0.4−	2000 03 03	704	0.2−	0.1−	2000 03 11	704	0.0	0.1−
2000 02 04	120	0.6−	0.3+	2000 03 03	704	0.3−	0.1+	2000 03 11	704	0.1+	0.8−
2000 02 04	120	1.1−	0.1−	2000 03 03	704	0.3−	0.2+	2000 03 11	699	0.3−	0.0
2000 02 04	704	0.0	0.6+	2000 03 03	704	0.4−	0.7+	2000 03 11	699	0.1+	0.4+
2000 02 04	704	0.7−	0.0	2000 03 03	704	0.0	0.3+	2000 03 11	699	0.5−	0.0
2000 02 04	704	0.0	0.8+	2000 03 05	704	0.8−	0.0	2000 03 11	699	0.1+	0.4−

2000 CH₁ = 1993 FP₇₈

Id. G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	98.12501		(2000.0)	P	Q
<i>n</i>	0.26022517	ω	17.00880	+0.90728679	−0.42041114
<i>a</i>	2.4297962	Ω	7.87055	+0.37754784	+0.80472893
<i>e</i>	0.2244956	<i>i</i>	3.86377	+0.18517100	+0.41912506
<i>P</i>	3.79	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1993 03 21	809	0.3−	0.0	2000 02 05	747	0.0	0.1+	2000 02 26	747	0.0	0.0
1993 03 22	809	0.2+	0.2−	2000 02 05	747	0.3+	0.1−	2000 02 26	747	0.2−	0.5−
1998 08 17	704	1.0−	0.1−	2000 02 05	747	0.2+	0.0	2000 02 26	747	0.6+	0.2−
1998 08 17	704	0.9+	0.1+	2000 02 05	695	0.1−	0.0	2000 02 27	703	1.2+	0.4+
1998 08 17	704	0.2+	0.2+	2000 02 05	695	0.1+	0.0	2000 02 27	703	1.0−	0.1+
1998 08 17	704	0.3−	0.1+	2000 02 06	703	(2.5−	0.3+)	2000 02 27	703	1.8−	1.1+
2000 01 30	703	0.0	0.7+	2000 02 06	703	0.2+	1.7−	2000 02 27	703	1.1+	0.2+
2000 01 30	703	1.1+	1.5+	2000 02 06	703	0.4−	0.9+	2000 02 28	747	0.5+	0.1+
2000 01 30	703	1.1−	0.4−	2000 02 06	703	(2.0−	2.2+)	2000 02 28	747	0.7+	0.1−
2000 01 30	703	0.8−	0.4+	2000 02 11	704	0.8−	1.1−	2000 02 28	747	0.3+	0.1+
2000 02 04	747	0.8+	0.5+	2000 02 11	704	0.7+	1.4−	2000 02 28	704	1.0+	1.5+
2000 02 04	747	0.0	0.3−	2000 02 11	704	1.9−	1.1−	2000 02 28	704	0.9+	0.0
2000 02 04	747	0.7+	0.1−	2000 02 15	747	0.5−	0.3+	2000 02 28	704	0.6−	0.7−
2000 02 04	747	0.7−	0.1+	2000 02 15	747	0.4−	0.0				
2000 02 05	747	0.3+	0.3+	2000 02 15	747	0.0	0.1−				

2000 CK₁ = 1990 QL₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	290.39502		(2000.0)	P	Q
<i>n</i>	0.26986651	ω	176.99784	−0.38961430	+0.92070582
<i>a</i>	2.3715742	Ω	70.07079	−0.84547638	−0.34792614
<i>e</i>	0.1724615	<i>i</i>	1.36493	−0.36519911	−0.17677156
<i>P</i>	3.65	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1990 08 16	809	(2.4+	0.6−)	2000 02 04	704	0.2+	0.8+	2000 03 08	704	0.8+	0.5+
1990 08 16	809	1.0+	0.7−	2000 02 04	120	0.3−	0.1+	2000 03 08	704	0.2+	0.6+
1990 08 16	809	0.4−	1.1−	2000 02 04	120	0.2−	0.2−	2000 03 08	704	0.6+	0.9+
1990 08 20	809	1.0+	1.7+	2000 02 23	120	0.5+	0.0	2000 03 09	704	0.3+	0.4+
1990 08 20	809	0.6−	0.7+	2000 02 23	120	0.3−	0.2−	2000 03 09	704	0.1+	0.3−
1990 08 20	809	0.6+	0.2+	2000 02 23	120	0.0	0.4−	2000 03 09	704	0.3+	0.1+
1990 08 26	809	1.6−	1.9+	2000 02 29	704	0.3+	0.2−	2000 03 09	704	0.0	0.0
1990 08 26	809	1.3−	0.1+	2000 02 29	704	0.5+	0.4−	2000 03 09	704	0.1+	0.5+
1990 08 26	809	(3.2−	0.5−)	2000 02 29	704	0.4+	0.1+	2000 03 11	704	0.2−	0.4+
1995 12 25	566	0.0	0.2+	2000 02 29	704	0.1+	0.4−	2000 03 11	704	0.4−	0.4+
1995 12 25	566	0.1−	0.1−	2000 02 29	704	0.7+	0.8+	2000 03 11	704	0.5−	0.2+
1995 12 25	566	0.2+	0.2+	2000 03 05	704	0.1+	0.3+	2000 03 11	699	0.3−	0.0
2000 02 04	120	0.8−	0.3+	2000 03 05	704	0.3−	0.2−	2000 03 11	704	0.4−	0.5+
2000 02 04	120	0.6+	0.3−	2000 03 05	704	0.6+	0.4−	2000 03 11	704	0.6−	0.8+
2000 02 04	704	0.8+	0.2−	2000 03 05	704	0.1−	0.4−	2000 03 11	699	0.9−	0.1−
2000 02 04	704	0.5−	0.5−	2000 03 05	704	0.2+	0.4−	2000 03 11	699	0.8−	0.1+
2000 02 04	704	0.2+	0.5−	2000 03 08	704	0.0	0.2+	2000 03 11	699	0.7−	0.3+
2000 02 04	704	0.6+	0.3−	2000 03 08	704	0.3+	0.2+				

2000 CN₁ = 1993 FS₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	334.16939		(2000.0)	P	Q
<i>n</i>	0.27287325	ω	196.75211	−0.99951303	−0.02930143
<i>a</i>	2.3541208	Ω	341.55881	+0.03107682	−0.90368381
<i>e</i>	0.0823365	<i>i</i>	1.94385	+0.00281730	−0.42719667
<i>P</i>	3.61	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1993 03 19	809	0.8−	0.1−	2000 02 06	704	0.0	0.8+	2000 02 29	704	0.1−	0.1−
1993 03 20	809	0.8+	0.0	2000 02 06	695	0.1+	0.3+	2000 02 29	704	0.4+	0.3+
2000 02 03	120	0.5−	0.1+	2000 02 06	695	0.1−	0.3+	2000 02 29	704	0.4−	0.1−
2000 02 03	120	0.2+	0.1+	2000 02 06	120	0.4+	0.4−	2000 03 03	704	0.4+	0.2+
2000 02 04	704	0.3+	0.0	2000 02 06	120	0.3+	0.7−	2000 03 03	704	0.1+	0.2+
2000 02 04	704	0.0	1.0+	2000 02 06	120	0.3−	0.8−	2000 03 03	704	0.9−	0.8+
2000 02 04	704	0.5+	0.5+	2000 02 06	120	0.4−	0.6−	2000 03 03	704	1.0−	0.7+
2000 02 04	704	0.7−	0.5−	2000 02 06	120	1.7−	1.0−	2000 03 03	704	0.5−	0.7+
2000 02 04	704	1.6+	0.6−	2000 02 06	120	1.0−	1.0−	2000 03 05	704	1.0+	0.0
2000 02 04	120	0.6+	0.1+	2000 02 09	120	0.4+	0.7−	2000 03 05	704	0.5+	0.1+
2000 02 04	120	0.4+	0.3−	2000 02 09	120	0.3−	0.5−	2000 03 05	704	0.4+	0.3−
2000 02 05	695	0.2−	0.3+	2000 02 11	704	0.1+	0.5+	2000 03 05	704	1.1+	0.3+
2000 02 05	695	0.2+	0.3+	2000 02 11	704	0.2+	0.2+	2000 03 09	691	0.4−	0.3−
2000 02 05	120	1.3−	0.4−	2000 02 11	704	1.0+	0.1+	2000 03 09	691	0.3−	0.5−
2000 02 06	120	1.4−	1.0−	2000 02 11	704	0.9+	0.1+	2000 03 09	691	0.1−	0.3−
2000 02 06	704	0.9+	0.7+	2000 02 12	120	0.6−	0.3+	2000 03 14	691	0.1+	0.2−
2000 02 06	704	0.3+	0.5+	2000 02 12	120	0.3−	0.2−	2000 03 14	691	0.1+	0.3−
2000 02 06	704	0.1+	1.0+	2000 02 29	704	0.4−	0.0	2000 03 14	691	0.0	0.2−
2000 02 06	704	0.7+	0.6+	2000 02 29	704	0.2−	0.3−				

2000 CV₁ = 1998 XX₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	10.62136		(2000.0)	P	Q
<i>n</i>	0.17091886	ω	340.29731	−0.85136162	−0.52398026
<i>a</i>	3.2157039	Ω	168.00695	+0.49601842	−0.81963878
<i>e</i>	0.1064941	<i>i</i>	6.92725	+0.17073114	−0.23159654
<i>P</i>	5.77	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 09 04	910	0.1−	0.7+	2000 02 04	104	1.1−	0.0	2000 02 29	704	0.0	0.1+
1997 09 05	910	0.3−	0.9+	2000 02 04	104	1.7+	0.2−	2000 02 29	704	0.1+	0.3−
1997 09 05	910	0.3−	0.3+	2000 02 05	104	0.1+	0.2+	2000 03 03	704	0.3+	0.2+
1998 12 15	704	0.7−	0.4−	2000 02 05	104	0.2+	0.1−	2000 03 03	704	0.4+	0.0
1998 12 15	704	0.6+	1.7−	2000 02 05	704	0.2+	0.7+	2000 03 03	704	0.4+	0.2+
1998 12 15	704	1.8+	0.8−	2000 02 05	704	0.3+	0.2+	2000 03 03	704	0.4+	0.3+
1998 12 15	704	0.3+	0.3+	2000 02 05	704	0.1−	0.3+	2000 03 03	704	0.3+	0.4+
1998 12 15	704	0.8−	0.2−	2000 02 06	104	0.1−	0.4+	2000 03 04	704	0.3−	0.1−
1998 12 16	699	0.2−	0.0	2000 02 06	104	0.2−	0.9+	2000 03 04	704	0.4−	0.6−
1998 12 16	699	0.6−	0.8+	2000 02 06	704	0.4−	0.2+	2000 03 04	704	0.0	0.2−
1998 12 16	699	0.1+	0.8+	2000 02 06	704	1.1−	0.4+	2000 03 04	704	0.0	1.0−
1998 12 22	704	0.0	1.7+	2000 02 06	704	0.5−	0.4−	2000 03 04	704	0.2−	0.8−
1998 12 22	704	0.8+	1.6−	2000 02 06	704	0.4+	0.1−	2000 03 08	691	0.1−	0.2−
1998 12 22	704	0.2−	0.6−	2000 02 06	704	0.2+	0.7+	2000 03 08	691	0.2−	0.0
1998 12 22	704	0.1−	0.6−	2000 02 13	104	0.2−	0.3−	2000 03 08	691	0.4−	0.1−
1999 01 07	704	(0.5+	2.5−)	2000 02 13	104	0.2+	0.6−	2000 03 09	691	0.5−	0.2−
1999 01 07	704	0.3−	1.2+	2000 02 13	104	0.2−	0.4−	2000 03 09	691	0.7−	0.4−
1999 01 07	704	0.6−	1.3+	2000 02 23	104	0.1+	0.3−	2000 03 09	691	0.7−	0.3−
1999 01 07	704	(5.4−	1.3+)	2000 02 23	104	0.1+	0.7−	2000 03 10	704	0.5+	0.0
2000 01 05	704	0.9−	0.3−	2000 02 23	104	0.2+	0.1−	2000 03 10	704	0.8+	0.3+
2000 01 05	704	0.5−	0.6−	2000 02 26	703	0.3+	0.3−	2000 03 10	704	0.4+	1.0+
2000 01 05	704	0.7−	0.9−	2000 02 26	703	0.2−	0.2−	2000 03 10	704	1.2+	1.1+
2000 01 05	704	0.5+	1.6−	2000 02 26	703	0.1−	0.2−	2000 03 10	704	1.1+	1.2+
2000 02 02	704	0.1−	0.3+	2000 02 26	703	0.4−	0.6+	2000 03 11	699	0.3+	0.5+
2000 02 02	704	0.2−	0.8+	2000 02 27	691	0.2−	0.2−	2000 03 11	699	0.5+	0.2+
2000 02 02	704	0.1+	0.1+	2000 02 27	691	0.0	0.1−	2000 03 11	699	0.1+	0.9+
2000 02 02	704	0.2+	0.2+	2000 02 27	691	0.0	0.2−	2000 03 11	699	0.2−	0.7+

2000 MAR. 20

M.P.C. 39369

2000 02 02 704 0.5- 0.1+ 2000 02 29 704 0.1+ 0.1-
 2000 02 04 104 0.3- 0.3+ 2000 02 29 704 0.1+ 0.1-

2000 CA₂ = 1997 LP₉ = 1998 QJ₆₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams					
<i>M</i>	27.96135	(2000.0)		P		Q	
<i>n</i>	0.27371660	<i>ω</i>	311.60182	-0.45714461	-0.88929402		
<i>a</i>	2.3492827	<i>Ω</i>	165.58425	+0.83099030	-0.43237917		
<i>e</i>	0.0642741	<i>i</i>	3.04552	+0.31697623	-0.14901141		
<i>P</i>	3.60	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 06 07	809	0.2-	1.1+	2000 02 04	376	0.2-	0.6+	2000 02 29	704	0.2+	0.9+
1997 06 07	809	0.4+	1.3+	2000 02 08	704	(0.3+	2.0+)	2000 03 02	691	0.4-	0.3-
1997 06 07	809	0.0	0.9+	2000 02 08	704	0.5+	1.4+	2000 03 02	691	0.5-	0.2-
1997 06 08	809	0.1+	0.5-	2000 02 08	704	0.5+	0.8+	2000 03 02	691	0.7-	0.2-
1997 06 08	809	0.3+	0.5-	2000 02 08	704	0.8+	1.2+	2000 03 03	704	0.3+	1.0+
1997 06 08	809	0.1-	0.2-	2000 02 08	704	0.1+	1.8+	2000 03 03	704	0.5+	0.7+
1998 08 26	691	0.3-	1.1+	2000 02 09	376	1.0-	1.3-	2000 03 03	704	1.3+	0.8-
1998 08 26	691	0.2-	1.1+	2000 02 09	376	0.2+	0.3+	2000 03 03	704	0.2-	1.1-
1998 08 31	691	0.5-	1.0+	2000 02 11	704	0.9+	0.5+	2000 03 03	704	0.7+	0.0
1998 08 31	691	0.5-	1.0+	2000 02 11	704	0.5+	0.1-	2000 03 05	704	0.8+	0.3+
1998 08 31	691	0.5-	1.1+	2000 02 11	704	1.2+	0.4+	2000 03 05	704	0.2+	0.2+
2000 02 02	704	0.1+	0.0	2000 02 11	704	0.7+	0.0	2000 03 05	704	0.2+	0.4+
2000 02 02	704	0.3+	0.1-	2000 02 11	704	0.8+	0.7+	2000 03 05	704	0.3+	0.7+
2000 02 02	704	0.3+	0.0	2000 02 11	376	0.3-	1.0-	2000 03 05	704	0.7+	0.1-
2000 02 02	704	0.3-	1.1-	2000 02 11	376	0.4-	0.8-	2000 03 09	691	0.3-	0.1-
2000 02 02	704	0.0	0.1-	2000 02 27	703	0.9+	0.4-	2000 03 09	691	0.4-	0.1-
2000 02 02	376	0.6-	0.3-	2000 02 27	703	0.7-	0.0	2000 03 09	691	0.3-	0.9-
2000 02 02	376	0.4-	0.5-	2000 02 27	703	1.2+	0.2-	2000 03 11	704	0.2-	0.1+
2000 02 04	704	1.6-	0.2+	2000 02 27	703	0.3+	0.7+	2000 03 11	704	0.1-	0.6-
2000 02 04	704	0.0	0.3-	2000 02 29	704	0.7-	0.6+	2000 03 11	704	0.5-	0.3+
2000 02 04	704	0.4+	0.1-	2000 02 29	704	0.7-	0.3+	2000 03 11	704	1.1-	0.3+
2000 02 04	376	1.3-	0.4-	2000 02 29	704	0.4+	1.4+				
2000 02 04	376	0.7-	0.3-	2000 02 29	704	0.7-	0.3+				

2000 CE₂ = 1994 VJ₈ = 1996 FL

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams					
<i>M</i>	86.23686	(2000.0)		P		Q	
<i>n</i>	0.23054632	<i>ω</i>	35.10602	+0.79519951	-0.60628377		
<i>a</i>	2.6340899	<i>Ω</i>	2.27375	+0.49298008	+0.63798834		
<i>e</i>	0.2950346	<i>i</i>	12.83980	+0.35302745	+0.47475348		
<i>P</i>	4.28	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1994 11 04	675	0.0	0.1+	2000 02 02	411	(2.2+	1.3+)	2000 02 29	704	0.3-	0.6-
1994 11 04	675	0.0	0.5+	2000 02 02	411	(3.2+	0.8+)	2000 02 29	411	0.6-	1.4-
1994 11 06	675	0.1+	0.3-	2000 02 03	704	0.5+	0.3+	2000 02 29	411	1.2-	0.1+
1994 11 06	675	0.1-	0.2-	2000 02 03	704	0.9+	0.1+	2000 03 05	704	0.2+	0.6+
1996 03 17	566	0.8-	0.4+	2000 02 03	704	0.1+	0.4+	2000 03 05	704	0.0	0.1-
1996 03 17	566	0.2-	0.2+	2000 02 03	704	1.2+	0.1-	2000 03 05	704	1.1-	0.5+
1996 03 17	566	0.6-	0.4+	2000 02 03	704	0.6+	0.9+	2000 03 05	704	0.4+	0.7+
1996 03 19	566	0.5+	0.7-	2000 02 04	411	0.3+	0.1+	2000 03 05	704	0.4+	0.1-
1996 03 19	566	0.2+	0.4-	2000 02 04	411	1.1+	1.4-	1999 06 01	699	0.6-	0.5-
1996 03 19	566	0.0	0.3-	2000 02 11	411	(2.4-	0.1-)	2000 03 11	699	0.1-	0.1-
1998 08 20	699	0.2-	0.1+	2000 02 11	411	1.0-	1.1-	2000 03 11	699	0.3-	0.1+
1998 08 20	699	0.6-	0.0	2000 02 25	703	0.3-	0.2+	2000 03 11	699	0.0	0.3+
1998 08 20	699	0.5-	0.1-	2000 02 25	703	0.6+	0.9+	2000 03 12	704	0.8+	0.2+
1998 09 24	699	0.5+	0.8+	2000 02 25	703	0.1+	0.9+	2000 03 12	704	0.4+	0.1+
1998 09 24	699	0.4+	0.3+	2000 02 25	703	0.2-	0.4+	2000 03 12	704	0.0	0.0
1998 09 24	699	0.1+	0.5+	2000 02 29	704	0.1+	0.1+	2000 03 12	704	0.5+	0.0
1998 12 09	699	0.6+	0.7-	2000 02 29	704	0.4-	0.3-	2000 03 12	704	0.0	0.1-
1998 12 09	699	0.8-	0.2+	2000 02 29	704	0.1-	0.1+				
1998 12 09	699	0.5+	1.2-	2000 02 29	704	0.0	0.1-				

2000 CG₂ = 1979 VZ = 1997 SD₃₄ = 1998 XT₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams					
<i>M</i>	198.41645	(2000.0)		P		Q	
<i>n</i>	0.21349110	<i>ω</i>	318.59815	+0.80754550	+0.58942045		
<i>a</i>	2.7725722	<i>Ω</i>	5.41543	-0.46413864	+0.65735755		
<i>e</i>	0.1729656	<i>i</i>	13.04517	-0.36393075	+0.46953656		
<i>P</i>	4.62	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 11 14	095	0.2+	0.3-	1998 12 29	327	0.0	0.0	2000 02 25	703	0.4-	0.2+
1997 09 02	566	0.7-	0.3+	1998 12 29	327	0.7+	0.1+	2000 02 25	703	0.4-	0.2-
1997 09 02	566	0.5-	0.2+	1999 12 17	699	0.3+	1.2+	2000 02 29	704	0.2+	0.3-
1997 09 02	566	0.6-	0.2+	1999 12 17	699	0.4+	0.7+	2000 02 29	704	0.2+	0.3-
1997 09 28	566	0.0	0.8+	1999 12 17	699	0.3+	0.7+	2000 02 29	704	0.1+	0.3-
1997 09 28	566	0.0	0.4+	2000 01 12	327	0.0	0.3-	2000 02 29	704	0.1+	0.6-
1997 09 28	566	0.3+	0.3+	2000 01 12	327	0.1-	0.7-	2000 02 29	704	0.3+	0.3-
1997 09 30	566	0.5+	0.4+	2000 01 12	327	0.4-	0.1-	2000 02 29	411	(0.1+	2.4-)
1997 09 30	566	0.2-	0.5+	2000 01 17	327	0.2-	0.0	2000 02 29	411	0.2-	0.9-
1997 09 30	566	0.2-	0.0	2000 01 17	327	0.6-	0.0	2000 03 02	703	0.4-	0.3+
1997 11 30	566	0.8-	0.6+	2000 01 17	327	0.1-	0.1-	2000 03 02	703	0.7-	0.5+
1997 11 30	566	1.2-	1.0+	2000 02 02	411	0.8+	1.5+	2000 03 02	703	0.0	0.0
1997 11 30	566	0.5-	1.5+	2000 02 02	411	1.4+	0.9+	2000 03 02	703	0.2-	0.8-
1998 12 07	327	0.6-	0.1+	2000 02 03	704	0.1+	0.2+	2000 03 05	704	0.4-	0.1+
1998 12 07	327	0.5-	0.0	2000 02 03	704	0.3+	0.4+	2000 03 05	704	0.2-	0.2+
1998 12 07	327	0.4-	0.2-	2000 02 03	704	0.4+	0.3+	2000 03 05	704	0.3-	0.0
1998 12 08	327	1.0-	1.4-	2000 02 03	704	0.5+	0.1+	2000 03 05	704	0.1+	0.1+
1998 12 08	327	0.0	1.4-	2000 02 03	704	0.0	0.4-	2000 03 05	704	0.3+	0.3+
1998 12 08	327	0.1+	1.0-	2000 02 04	411	0.9-	1.5+	2000 03 11	699	0.7+	0.6+
1998 12 13	327	0.2-	0.3+	2000 02 04	411	0.5-	0.2+	2000 03 11	699	0.5+	0.7+
1998 12 13	327	0.3-	0.4+	2000 02 11	704	0.3-	0.1-	2000 03 11	699	0.5+	0.7+
1998 12 13	327	0.2-	0.4+	2000 02 11	704	1.1+	0.2+	2000 03 11	699	0.5+	0.4+
1998 12 14	704	0.3+	0.4+	2000 02 11	704	1.6+	0.2+	2000 03 12	704	0.5+	0.1+
1998 12 14	704	0.2+	0.6+	2000 02 11	704	1.4+	0.4-	2000 03 12	704	0.5+	0.2+
1998 12 14	704	0.6+	0.7+	2000 02 11	411	1.0-	1.0-	2000 03 12	704	0.3+	0.0
1998 12 14	704	1.9+	0.9+	2000 02 11	411	1.1-	0.3+	2000 03 12	704	0.1+	0.1-
1998 12 14	704	(2.7+	0.5+)	2000 02 25	703	1.0-	0.2+	2000 03 12	704	0.0	0.2+
1998 12 29	327	0.5-	0.6-	2000 02 25	703	0.1-	0.2-				

2000 CJ₂ = 1998 UU₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams					
<i>M</i>	110.58874	(2000.0)		P		Q	
<i>n</i>	0.26988653	<i>ω</i>	336.29151	+0.76172768	-0.63848392		
<i>a</i>	2.3714570	<i>Ω</i>	63.85040	+0.61231829	+0.65392894		
<i>e</i>	0.0634802	<i>i</i>	7.04157	+0.21174808	+0.40585124		
<i>P</i>	3.65	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 05 04	809	0.6+	1.6+	1998 10 29	704	0.5-	1.6+	2000 02 06	703	0.2+	0.7+
1997 05 04	809	0.2+	1.5+	1998 10 29	704	0.8-	1.3+	2000 02 06	703	0.2+	0.6+
1997 05 04	809	0.1+	0.8-	2000 01 04	704	0.6+	0.1-	2000 02 06	703	0.2-	0.5+
1998 09 21	699	0.3+	0.0	2000 01 04	704	0.5+	0.1+	2000 02 11	411	1.7-	0.5+
1998 09 21	699	0.2+	0.6-	2000 01 04	704	0.7+	1.2-	2000 02 11	411	0.1-	0.7-
1998 09 21	699	0.1+	0.1-	2000 01 04	704	0.1-	1.0-	2000 02 29	411	0.2-	0.4+
1998 09 22	910	0.6+	0.3-	2000 01 04	704	1.7+	0.4-	2000 02 29	411</		

2000 CO₂ = 1984 BZ₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	219.74503	(2000.0)	P			Q		
<i>n</i>	0.19121019	<i>ω</i>	181.55847	+0.61268435	+0.77234105			
<i>a</i>	2.9839762	<i>Ω</i>	126.26014	−0.72284361	+0.63338635			
<i>e</i>	0.0947461	<i>i</i>	12.00033	−0.31955438	+0.04807319			
<i>P</i>	5.15	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	2	

Residuals in seconds of arc

1984 01 25	675	0.8−	0.6−	2000 02 04	411	0.2−	0.9+	2000 03 05	704	0.3−	0.4+
1984 01 26	675	0.7+	0.0	2000 02 04	411	0.4−	0.5−	2000 03 05	704	0.1+	0.1−
1998 12 15	704	1.0+	1.4+	2000 02 11	704	0.2+	0.5+	2000 03 05	704	0.3+	0.1+
1998 12 15	704	0.7+	0.1+	2000 02 11	704	0.5+	0.9+	2000 03 05	704	(0.0	2.6+)
1998 12 15	704	1.3−	0.4−	2000 02 11	704	0.1−	0.2+	2000 03 09	704	0.1−	0.3+
1998 12 15	704	(3.3−	0.8−)	2000 02 11	704	0.3+	0.6+	2000 03 09	704	0.3−	0.2+
1998 12 22	704	0.2+	1.0−	2000 02 11	704	0.5−	0.7+	2000 03 09	704	0.1−	0.4+
1998 12 22	704	0.2+	0.1−	2000 02 11	411	1.3−	0.2−	2000 03 09	704	0.2−	0.2−
1998 12 22	704	1.4−	1.0−	2000 02 11	411	1.9−	1.9−	2000 03 09	704	0.4−	0.1+
1998 12 22	704	0.6+	0.4+	2000 02 29	704	0.1−	0.2−	2000 03 12	704	0.2−	0.1−
1998 12 22	704	0.1−	1.0+	2000 02 29	704	0.0	0.1+	2000 03 12	704	0.3−	0.5−
2000 01 10	699	0.4+	0.1−	2000 02 29	704	0.0	0.1+	2000 03 12	704	0.1−	0.4−
2000 01 10	699	0.4−	0.0	2000 02 29	704	0.0	0.0	2000 03 12	704	0.3+	0.6+
2000 01 10	699	1.1+	0.8−	2000 02 29	704	0.4−	0.3+	2000 03 12	704	0.2−	0.0
2000 02 02	411	(0.3+	2.2−)	2000 02 29	411	0.8−	0.9−	2000 03 13	704	1.4+	0.0
2000 02 02	411	0.2+	1.6−	2000 02 29	411	1.2−	1.5−	2000 03 13	704	0.6+	0.2−
2000 02 04	704	1.0+	0.1−	2000 03 02	703	0.2−	0.1+	2000 03 13	704	0.6−	0.8+
2000 02 04	704	1.2+	0.4+	2000 03 02	703	0.2−	0.1+	2000 03 13	704	0.2+	0.3+
2000 02 04	704	0.8+	0.1+	2000 03 02	703	0.4+	0.0	2000 03 13	704	0.9+	1.2+
2000 02 04	704	0.1+	0.4+	2000 03 02	703	0.9−	1.0−				
2000 02 04	704	1.9+	0.5+	2000 03 05	704	0.3−	0.4+				

2000 CQ₂ = 4644 T-1 = 1985 UX = 1998 XJ₆₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	216.07089	(2000.0)	P			Q		
<i>n</i>	0.23552892	<i>ω</i>	284.16865	+0.66378287	+0.73912704			
<i>a</i>	2.5968083	<i>Ω</i>	28.46348	−0.55958894	+0.59226195			
<i>e</i>	0.1799362	<i>i</i>	13.88648	−0.49623837	+0.32080679			
<i>P</i>	4.18	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	2	

Residuals in seconds of arc

1971 05 13	675	0.5−	1.6−	1998 12 14	704	0.2−	0.4−	2000 02 04	411	0.3−	0.2+
1971 05 14	675	0.3−	0.8−	1998 12 14	704	0.4−	0.7−	2000 02 04	411	0.6+	0.2−
1971 05 16	675	0.4−	0.2+	1998 12 14	704	0.5−	1.8−	2000 02 05	411	0.4+	0.3+
1985 10 20	046	(3.5−	0.2+)	1998 12 17	704	0.3−	1.6−	2000 02 05	411	0.2+	0.7+
1985 10 20	046	0.7+	1.6+	1998 12 17	704	1.0−	1.3−	2000 02 11	411	1.2−	0.6−
1985 10 22	046	1.0−	0.0	1998 12 17	704	0.8+	0.3+	2000 02 11	411	0.6−	0.3+
1985 10 22	046	0.7−	0.1+	1998 12 17	704	0.5−	0.2+	2000 03 04	704	0.0	0.2−
1985 10 25	046	0.9+	2.2−	1998 12 17	704	0.5+	1.5+	2000 03 04	704	0.1+	0.3−
1985 10 25	046	(5.2+	1.1+)	1999 12 17	699	1.2−	0.5+	2000 03 04	704	0.1−	0.3−
1998 11 16	704	0.3+	0.5+	1999 12 17	699	0.7+	0.3+	2000 03 04	704	0.0	0.0
1998 11 16	704	0.3−	1.4−	1999 12 17	699	0.8−	1.2+	2000 03 04	704	0.1−	0.2−
1998 11 16	704	1.4+	1.1+	2000 02 03	704	0.4+	0.0	2000 03 12	704	0.2+	0.3−
1998 11 16	704	0.5+	1.4+	2000 02 03	704	0.5+	0.2+	2000 03 12	704	0.4+	0.1−
1998 11 16	704	0.4+	1.7+	2000 02 03	704	0.0	0.4+	2000 03 12	704	0.3+	0.2−
1998 12 14	704	0.6+	1.1−	2000 02 03	704	0.4+	0.5+	2000 03 12	704	0.4+	0.2+
1998 12 14	704	0.1+	0.2+	2000 02 03	704	0.4+	0.7+	2000 03 12	704	0.1+	0.0

2000 CR₂ = 1998 XW₆₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	278.38039	(2000.0)	P			Q		
<i>n</i>	0.21646481	<i>ω</i>	224.06330	−0.22738757	+0.96771513			
<i>a</i>	2.7471214	<i>Ω</i>	33.23868	−0.82956188	−0.13401654			
<i>e</i>	0.1295752	<i>i</i>	11.44148	−0.51002155	−0.21346428			
<i>P</i>	4.55	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 12 14	704	0.0	0.4−	2000 02 03	704	0.3+	0.5+	2000 03 04	704	0.1+	0.1−
1998 12 14	704	0.0	0.3−	2000 02 03	704	0.0	0.9+	2000 03 04	704	0.2+	0.1−
1998 12 14	704	0.0	0.3−	2000 02 03	704	0.3+	0.6+	2000 03 04	704	0.0	0.1−
1998 12 14	704	1.5+	1.6+	2000 02 03	704	0.1+	0.7+	2000 03 04	704	0.0	0.2−
1998 12 14	704	0.3+	0.2+	2000 02 04	411	2.0+	0.4−	2000 03 12	704	0.1+	0.0
1998 12 17	704	0.9−	0.7+	2000 02 04	411	0.9+	1.5−	2000 03 12	704	0.2−	0.0
1998 12 17	704	0.6−	0.2−	2000 02 05	411	0.0	0.3−	2000 03 12	704	0.3−	0.0
1998 12 17	704	0.3+	0.1−	2000 02 05	411	1.4−	0.3+	2000 03 12	704	0.1+	0.2−
1998 12 17	704	0.3−	1.1−	2000 02 11	411	1.4−	0.0	2000 03 12	704	0.0	0.2−
1998 12 17	704	0.5−	0.3−	2000 02 11	411	1.1−	0.1+				
2000 02 03	704	0.4+	0.2+	2000 03 04	704	0.2+	0.1+				

2000 CN₃ = 1994 NY₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	12.88773	(2000.0)	P			Q		
<i>n</i>	0.07923590	<i>ω</i>	332.11964	+0.10396354	−0.89126914			
<i>a</i>	5.3685220	<i>Ω</i>	108.95862	+0.97708347	+0.00864435			
<i>e</i>	0.0452153	<i>i</i>	27.82122	+0.18574034	+0.45339232			
<i>P</i>	12.44	<i>H</i>	10.1	<i>G</i>	0.15	<i>U</i>	2	

Residuals in seconds of arc

1994 07 08	809	0.0	0.0	1999 11 05	704	1.5+	0.3+	2000 02 02	704	0.2−	0.1+
1994 07 08	809	0.0	0.4+	1999 11 05	704	0.4+	0.1−	2000 02 02	704	0.8−	0.3+
1994 07 08	809	0.9−	0.1−	1999 11 05	704	0.3+	0.6+	2000 02 03	704	0.3+	0.8+
1994 07 09	809	0.9+	1.9−	1999 11 05	704	0.9−	0.3−	2000 02 03	704	0.1+	0.1+
1994 07 09	809	0.0	1.5−	1999 11 05	704	0.1−	0.3−	2000 02 03	704	0.1+	0.1+
1994 07 09	809	1.2−	0.0	1999 12 14	704	0.2−	0.4+	2000 02 03	704	0.0	0.2−
1998 11 13	704	0.1−	0.2−	1999 12 14	704	0.4−	0.1−	2000 02 03	704	1.0−	0.1+
1998 11 13	704	0.0	0.2+	1999 12 14	704	0.1+	0.2+	2000 03 05	704	0.9+	0.8−
1998 11 13	704	0.3+	0.6+	1999 12 14	704	0.4−	0.0	2000 03 05	704	0.7+	0.4−
1998 11 13	704	1.7−	1.5+	1999 12 14	704	0.7−	0.0	2000 03 05	704	0.9+	0.2+
1998 12 19	704	1.1+	0.4−	2000 01 07	704	0.7+	0.5−	2000 03 05	704	0.7+	1.1+
1998 12 19	704	0.2−	0.0	2000 01 07	704	0.1+	1.1−	2000 03 09	704	0.3−	0.3−
1998 12 19	704	0.1+	0.0	2000 01 07	704	0.7+	1.1−	2000 03 09	704	0.1−	0.2+
1998 12 19	704	0.3+	0.5−	2000 01 07	704	0.5+	0.8−	2000 03 09	704	0.0	0.1+
1998 12 19	704	0.1+	0.0	2000 01 07	704	0.4+	1.1−	2000 03 09	704	0.5−	0.1−
1999 01 09	699	0.4+	0.3−	2000 02 02	704	0.3+	0.4−	2000 03 09	704	0.4+	0.5+
1999 01 09	699	0.2−	0.4+	2000 02 02	704	0.6−	0.9−				
1999 01 09	699	0.8−	0.0	2000 02 02	704	1.0−	0.4−				

2000 CS₉ = 1993 YA₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	47.32082	(2000.0)	P			Q		
<i>n</i>	0.17682038	<i>ω</i>	178.63370	+0.57825073	−0.81466476			
<i>a</i>	3.1437488	<i>Ω</i>	236.03673	+0.74803055	+0.55099301			
<i>e</i>	0.2462426	<i>i</i>	3.04997	+0.32569371	+0.18090889			
<i>P</i>	5.57	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1993 12 16	691	0.0	0.0	2000 01 06	704	0.0	0.0	2000 02 03	704	0.0	0.5+
1993 12 16	691	0.0	0.3+	2000 02 02	704	1.3−	0.3−	2000 02 03	704	0.0	0.6+
1993 12 16	691	0.0	0.1+	2000 02 02	704	0.1−	0.1−	2000 02 03	704	1.1+	0.3+
1993 12 17	691	0.3+	0.1+	2000 02 02	704	0.9−	0.3+	2000 02 08	704	0.5+	0.9−
1993 12 17	691	0.3−	0.2−	2000 02 02	704	0.6+	0.7+	2000 02 08	704	0.2−	1.0+
1993 12 17	691	0.0	0.1−	2000 02 02	704	0.1−	1.1+	2000 02 08	704	0.1+	0.4−

2000 MAR. 20

M.P.C. 39371

2000 01 06 704 0.3+ 0.5- 2000 02 03 704 0.5+ 1.3- 2000 02 08 704 0.3+ 0.3-
2000 01 06 704 0.5- 0.6- 2000 02 03 704 0.4- 0.1-

2000 CQ₁₁ = 1995 UL₁₃ = 1997 GO₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	134.31299		(2000.0)	P	Q
<i>n</i>	0.29308398	ω	139.17480	+0.97769599	+0.20954495
<i>a</i>	2.2446123	Ω	208.73880	-0.19955573	+0.90576454
<i>e</i>	0.1333386	<i>i</i>	1.69163	-0.06548331	+0.36834972
<i>P</i>	3.36	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1995 10 17	691	0.2+	0.3-	1998 08 17	704	(2.7-	2.0+)	2000 02 02	704	0.4-	0.2-
1995 10 17	691	0.1-	0.3-	1998 08 17	704	0.2+	1.1+	2000 02 02	704	0.0	1.1+
1995 10 17	691	0.1+	0.3-	1998 08 17	704	(2.1+	0.1+)	2000 02 02	704	0.7-	1.4-
1995 10 22	691	0.1-	0.1-	2000 01 06	704	1.5-	0.2-	2000 02 02	704	0.5+	0.5+
1995 10 22	691	0.3+	0.1-	2000 01 06	704	0.0	0.9+	2000 02 03	704	0.5+	0.4+
1995 10 22	691	0.0	0.0	2000 01 06	704	0.7-	0.2+	2000 02 03	704	0.8+	0.8-
1997 04 07	691	0.6+	1.0-	2000 01 06	704	0.9-	1.0+	2000 02 03	704	0.2+	0.3-
1997 04 07	691	0.1+	0.6-	2000 01 30	691	0.1-	0.2-	2000 02 03	704	0.6+	0.2+
1997 04 09	691	0.4-	0.0	2000 01 30	691	0.2-	0.1-	2000 02 03	704	0.8+	0.2-
1997 04 09	691	0.5-	0.5-	2000 01 30	691	0.0	0.1-	2000 02 08	704	0.1-	0.2+
1997 04 09	691	0.8-	0.6-	2000 02 02	704	0.8+	0.0	2000 02 08	704	0.4-	0.2-
1998 07 02	699	0.2+	0.6+	2000 02 02	704	0.3+	0.5-	2000 02 08	704	0.4+	1.8+
1998 07 02	699	1.4-	0.2+	2000 02 02	704	0.0	0.6+	2000 02 08	704	0.9+	0.1-
1998 07 02	699	0.0	0.1+	2000 02 02	704	0.2+	0.5+	2000 02 08	704	0.1+	0.5+
1998 08 17	704	0.7+	1.0-	2000 02 02	704	0.4-	0.7-				

2000 CU₁₂ = 1995 UX₄₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	322.41807		(2000.0)	P	Q
<i>n</i>	0.28476600	ω	11.25138	-0.99467710	+0.10284127
<i>a</i>	2.2881121	Ω	174.63897	-0.09906442	-0.93730771
<i>e</i>	0.1399675	<i>i</i>	3.93661	-0.02834981	-0.33298337
<i>P</i>	3.46	<i>H</i>	16.4	<i>G</i> 0.15	<i>U</i> 7

Residuals in seconds of arc

1995 10 25	691	0.0	0.7-	1995 10 28	691	0.3+	0.7+	2000 02 04	704	0.3+	0.7+
1995 10 25	691	0.2-	0.6-	2000 02 02	704	0.0	0.2+	2000 02 04	704	0.3-	0.8-
1995 10 25	691	0.0	0.5-	2000 02 02	704	0.2-	1.1+	2000 02 04	704	0.3-	1.5-
1995 10 28	691	0.1+	0.3+	2000 02 02	704	0.0	0.1+				
1995 10 28	691	0.2-	0.8+	2000 02 04	704	0.5+	0.2+				

2000 CM₁₇ = 1994 NZ₅ = 1998 SC₁₂₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	250.15998		(2000.0)	P	Q
<i>n</i>	0.28645350	ω	343.52074	-0.15765437	+0.98388679
<i>a</i>	2.2791171	Ω	277.34936	-0.89614347	-0.17842133
<i>e</i>	0.1474467	<i>i</i>	4.87778	-0.41481560	+0.01151610
<i>P</i>	3.44	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1994 07 11	809	0.3-	0.3-	2000 01 07	704	0.5+	1.2+	2000 02 06	704	0.2-	0.5+
1994 07 11	809	0.0	0.6-	2000 01 07	704	0.0	0.0	2000 02 06	704	0.4-	0.2+
1994 07 11	809	0.8+	0.3-	2000 02 02	704	0.1+	0.2+	2000 02 06	704	0.7+	1.4+
1994 07 12	809	1.1-	1.5+	2000 02 02	704	0.3-	0.3-	2000 02 10	704	1.5+	0.5+
1994 07 12	809	0.3-	1.6+	2000 02 02	704	0.7+	0.5+	2000 02 10	704	0.2+	1.1+
1994 07 12	809	0.1+	1.6+	2000 02 02	704	0.4+	0.8+	2000 02 10	704	0.3-	0.3+
1998 09 26	704	1.5+	1.6-	2000 02 02	704	0.8-	0.4+	2000 02 10	704	0.2+	0.0
1998 09 26	704	(0.3+	2.3-)	2000 02 04	704	1.4+	1.1-	2000 02 27	703	0.4-	1.3-
1998 09 26	704	0.8-	1.0-	2000 02 04	704	0.6-	0.1-	2000 02 27	703	0.6-	0.1+

1998 09 26	704	0.2+	0.3+	2000 02 04	704	0.2+	0.2-	2000 02 27	703	0.1-	0.3+
1998 09 26	704	0.1-	0.5-	2000 02 04	704	0.8+	0.9-	2000 02 27	703	0.6-	0.6+
1998 09 27	704	0.2+	0.5+	2000 02 05	704	0.1+	0.1-	2000 03 05	704	1.1-	0.4-
1998 09 27	704	1.4-	0.9+	2000 02 05	704	0.5-	0.2+	2000 03 05	704	0.2-	1.0-
1998 09 27	704	0.5+	0.5+	2000 02 05	704	0.6+	0.1-	2000 03 05	704	0.7-	0.6-
1998 09 27	704	0.5-	1.8+	2000 02 05	704	0.3+	0.3+	2000 03 05	704	0.9-	0.7-
2000 01 07	704	0.1+	0.5+	2000 02 05	704	0.5+	0.8+	2000 03 05	704	0.5-	0.1-
2000 01 07	704	0.1+	0.8+	2000 02 06	704	0.5+	0.3+				
2000 01 07	704	0.6+	0.1-	2000 02 06	704	0.2-	0.1+				

2000 CX₁₇ = 1996 EO₄ = 1998 ST₉₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	106.34753		(2000.0)	P	Q
<i>n</i>	0.22271311	ω	206.95155	+0.94235403	-0.33458905
<i>a</i>	2.6954970	Ω	172.59200	+0.31278452	+0.87615939
<i>e</i>	0.0943331	<i>i</i>	1.93951	+0.11888953	+0.34697968
<i>P</i>	4.43	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1993 07 20	809	0.5-	1.2+	1998 09 26	704	1.2-	0.7-	2000 02 02	704	1.4+	0.7+
1993 07 20	809	0.6+	0.5+	1998 09 27	704	0.1-	0.8+	2000 02 02	704	0.9+	0.3-
1993 07 20	809	0.4-	1.4+	1998 09 27	704	0.1+	0.6-	2000 02 02	704	0.9+	0.2-
1996 03 11	691	0.4+	0.7+	1998 09 27	704	0.0	0.4+	2000 02 02	704	0.3+	0.1-
1996 03 11	691	0.4+	0.5+	1998 09 27	704	0.8-	0.8+	2000 02 02	704	0.5-	0.5+
1996 03 11	691	0.0	0.3+	1998 09 27	704	1.3+	1.5+	2000 02 03	704	0.3-	0.5+
1996 03 18	691	0.0	0.2+	1998 10 14	699	0.7+	0.5+	2000 02 03	704	0.6+	0.3-
1996 03 18	691	0.2-	0.4+	1998 10 14	699	0.3-	0.4+	2000 02 03	704	0.2+	0.2-
1996 03 18	691	0.3-	0.0	1998 10 14	699	0.7+	0.8-	2000 02 03	704	1.0-	0.9-
1998 09 26	704	(0.6-	2.1+)	2000 01 30	703	(2.4+	0.6-)	2000 02 03	704	0.8-	0.1+
1998 09 26	704	1.4-	0.8-	2000 01 30	703	0.2-	1.7+	2000 02 06	704	0.4+	0.2-
1998 09 26	704	0.4+	0.5+	2000 01 30	703	0.1-	0.2+	2000 02 06	704	0.4+	0.1-
1998 09 26	704	0.4-	0.1-	2000 01 30	703	1.5-	0.9+	2000 02 06	704	0.2+	0.4+

2000 CD₁₈ = 1976 US₁₅ = 1998 RH₃₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	53.37651		(2000.0)	P	Q
<i>n</i>	0.22104413	ω	263.07963	+0.36034854	-0.93255255
<i>a</i>	2.7090482	Ω	165.73742	+0.88753299	+0.33541887
<i>e</i>	0.1464528	<i>i</i>	5.17952	+0.28711342	+0.13356615
<i>P</i>	4.46	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1976 10 22	381	0.4-	0.3+	2000 01 07	704	0.6+	1.0-	2000 02 04	704	1.0-	0.2+
1976 10 22	381	0.1+	0.6+	2000 01 07	704	0.4+	0.5-	2000 02 05	704	0.0	0.1-
1998 08 17	704	0.5-	1.8+	2000 01 07	704	0.7+	0.9-	2000 02 05	704	0.4-	0.1-
1998 08 17	704	0.7+	1.3+	2000 01 07	704	0.4+	0.4-	2000 02 05	704	0.2-	0.2-
1998 08 17	704	1.2+	1.0-	2000 01 07	704	1.2+	1.4-	2000 02 05	704	0.5+	0.1-
1998 08 17	704	(4.9-	1.0+)	2000 01 07	704	1.0+	0.6-	2000 02 05	704	0.0	0.0
1998 09 14	704	1.0-	0.3+	2000 01 30	703	0.5-	1.2+	2000 02 06	704	0.3+	0.2+
1998 09 14	704	1.1+	1.7-	2000 01 30	703	1.2-	0.4+	2000 02 06	704	0.0	0.7-
1998 09 14	704	0.7-	0.9-	2000 01 30	703	1.2-	0.6+	2000 02 06	704	0.5-	0.0
1998 09 14	704	(2.6-	0.1-)	2000 01 30	703	0.5-	0.1-	2000 02 06	704	0.4+	0.1+
1998 09 18	704	0.3-	0.2+	2000 02 02	704	0.2+	0.6+	2000 02 06	704	0.0	0.3-
1998 09 18	704	0.1-	0.9-	2000 02 02	704	0.2-	0.2-	2000 03 05	704	0.6+	0.5+
1998 09 18	704	(3.6-	3.3+)	2000 02 02	704	0.0	0.3+	2000 03 05	704	0.5+	0.3+
1999 12 05	704	0.8-	0.4+	2000 02 02	704	0.2+	0.7+	2000 03 05	704	0.4+	0.1+
1999 12 05	704	1.4+	0.9+	2000 02 02	704	0.5+	0.4+	2000 03 05	704	0.4+	0.4+
1999 12 05	704	0.1+	1.2+	2000 02 04	704	1.3-	0.7-	2000 03 05	704	0.3-	0.4+
2000 01 07	704	1.3+	0.5-	2000 02 04	704	1.4-	0.4-				
2000 01 07	704	0.2+	1.2-	2000 02 04	704	1.0-	0.4+				

2000 CF₁₈ = 1979 OJ₁₀ = 1992 CZ₇

Id. M. E. Sansaturio

M.P.C. 39372

2000 MAR. 20

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	280.80806		(2000.0)	P	Q
<i>n</i>	0.12453862	ω	82.64525	-0.67480428	+0.71651752
<i>a</i>	3.9713059	Ω	142.84512	-0.73798792	-0.65398547
<i>e</i>	0.1137793	<i>i</i>	17.01680	-0.00360813	-0.24270488
<i>P</i>	7.91	<i>H</i>	11.6	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1979 07 24	413	0.9+	1.6-	2000 01 07	704	0.0	0.5-	2000 02 06	704	0.3-	0.8-
1979 07 26	675	0.3+	1.0-	2000 01 07	704	0.4+	0.0	2000 02 06	704	0.4+	0.6-
1979 07 28	413	1.5-	1.3-	2000 02 02	704	0.1+	0.2-	2000 02 06	704	0.3+	0.7-
1992 02 12	809	1.0+	1.8-	2000 02 02	704	0.0	0.2+	2000 02 12	704	0.1-	0.3-
1992 02 12	809	0.5+	1.5-	2000 02 02	704	0.0	0.3+	2000 02 12	704	0.1+	0.5-
1992 02 12	809	1.2-	1.5-	2000 02 02	704	0.1+	0.3+	2000 02 12	704	0.3+	0.2-
1998 12 15	704	0.5-	0.4-	2000 02 02	704	0.0	0.4+	2000 02 12	704	0.1+	0.8+
1998 12 15	704	0.8+	0.0	2000 02 04	704	0.3-	0.2+	2000 02 12	704	0.3+	1.2+
1998 12 15	704	1.7-	0.6-	2000 02 04	704	0.1+	0.1-	2000 02 27	703	0.2-	0.5+
1998 12 15	704	0.5+	0.7-	2000 02 04	704	0.7-	0.5+	2000 02 27	703	0.5+	0.9+
1998 12 15	704	1.3+	1.6+	2000 02 04	704	0.1-	0.5+	2000 02 27	703	0.6+	0.1-
2000 01 05	704	0.1+	0.8-	2000 02 04	704	0.3-	0.7+	2000 02 27	703	0.0	0.3+
2000 01 05	704	0.5+	0.1-	2000 02 05	704	0.5-	0.2+	2000 03 05	704	1.7-	0.3+
2000 01 05	704	0.4+	0.1-	2000 02 05	704	0.2-	0.0	2000 03 05	704	0.0	0.0
2000 01 05	704	0.3+	0.4-	2000 02 05	704	0.1-	0.3-	2000 03 05	704	0.5-	0.1-
2000 01 05	704	0.0	1.0-	2000 02 05	704	0.3-	0.0	2000 03 05	704	0.2-	1.2+
2000 01 07	704	0.1-	0.0	2000 02 05	704	0.5-	0.1-	2000 03 05	608	0.5+	0.2-
2000 01 07	704	0.3+	0.6-	2000 02 06	704	0.0	0.1+	2000 03 05	608	0.3+	0.3-
2000 01 07	704	0.3-	0.1+	2000 02 06	704	0.0	0.1+	2000 03 05	608	0.2+	0.1-

2000 CM₁₉ = 1996 EC₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	230.68192		(2000.0)	P	Q
<i>n</i>	0.23096817	ω	127.43613	+0.04462242	+0.99818571
<i>a</i>	2.6308815	Ω	145.05635	-0.93741651	+0.05582521
<i>e</i>	0.0621485	<i>i</i>	4.04713	-0.34533914	-0.02255756
<i>P</i>	4.27	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1996 03 12	691	0.1+	0.1+	1997 06 29	704	1.2+	0.3+	2000 02 03	704	0.6+	0.0
1996 03 12	691	0.2+	0.1-	1997 06 29	704	0.1+	0.4-	2000 02 03	704	1.7+	1.4-
1996 03 12	691	0.1+	0.2-	1997 06 29	704	0.0	0.5-	2000 03 04	691	0.8-	0.0
1996 03 17	691	0.3+	0.2+	1997 06 29	704	1.3-	0.1-	2000 03 04	691	1.1-	0.4+
1996 03 17	691	0.1+	0.3+	2000 02 02	704	1.9+	0.1+	2000 03 04	691	0.8-	0.3+
1996 03 17	691	0.0	0.2+	2000 02 02	704	0.7-	0.1+	2000 03 10	691	0.0	0.9-
1996 03 24	691	0.3-	0.5+	2000 02 02	704	1.0-	0.1+	2000 03 10	691	0.0	0.8-
1996 03 24	691	0.1+	0.2-	2000 02 02	704	0.6-	0.1+	2000 03 10	691	0.0	0.7-
1996 03 24	691	0.1-	0.4+	2000 02 03	704	0.4+	0.7+				

2000 CC₂₀ = 1977 CJ₁ = 1998 XW₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	49.80152		(2000.0)	P	Q
<i>n</i>	0.08403294	ω	285.67656	+0.13121576	-0.98671244
<i>a</i>	5.1622180	Ω	156.14243	+0.97587637	+0.11155006
<i>e</i>	0.0424808	<i>i</i>	13.70361	+0.17449277	+0.11813186
<i>P</i>	11.73	<i>H</i>	11.3	<i>G</i> 0.15	<i>U</i> 0

Residuals in seconds of arc

1977 02 11	675	0.7-	0.6-	2000 01 05	699	0.0	0.4-	2000 02 02	704	0.1+	0.1-
1977 02 12	675	0.6+	0.7-	2000 01 05	704	0.6+	0.2+	2000 02 02	704	0.2+	0.1+
1995 08 26	809	0.4+	0.8-	2000 01 05	699	1.2+	0.2-	2000 02 02	704	0.6+	0.2+
1995 08 27	809	0.1+	0.8-	2000 01 05	704	0.2-	0.0	2000 02 04	704	0.1+	0.2-
1995 08 29	809	0.1-	0.1+	2000 01 05	704	0.5-	0.6+	2000 02 04	704	0.0	0.2+
1995 08 30	809	0.2-	0.1-	2000 01 05	699	0.1-	0.2-	2000 02 04	704	0.3-	0.3-
1998 12 15	704	0.8+	1.1+	2000 01 07	704	0.2+	0.4+	2000 02 04	704	0.5+	0.4+
1998 12 15	704	1.3+	0.5+	2000 01 07	704	0.2-	0.1-	2000 02 27	703	0.1-	0.0
1998 12 15	704	0.7-	0.2+	2000 01 07	704	0.5-	0.1-	2000 02 27	703	0.6+	0.2-

1998 12 15	704	1.0+	0.1-	2000 01 07	704	0.3+	0.6-	2000 02 27	703	0.2+	0.1-
1998 12 15	704	1.2-	0.3-	2000 01 07	704	0.5-	0.6-	2000 02 27	703	0.0	0.1-
1998 12 22	704	0.0	1.8-	2000 02 02	703	0.3-	0.2+	2000 03 05	704	0.1-	0.4-
1998 12 22	704	1.4-	1.1+	2000 02 02	704	0.4+	0.2-	2000 03 05	704	0.5+	0.1-
1998 12 22	704	0.8+	0.4+	2000 02 02	703	0.5-	0.1-	2000 03 05	704	0.3-	0.1+
1998 12 22	704	0.8-	0.1+	2000 02 02	703	0.8+	0.1-	2000 03 05	704	0.4-	0.3-
2000 01 05	704	0.8-	0.4+	2000 02 02	704	0.3+	0.0	2000 03 05	704	1.7-	0.7+
2000 01 05	704	0.2-	0.3+	2000 02 02	703	0.2-	0.1-				

2000 CE₂₀ = 1998 RV₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	17.87681		(2000.0)	P	Q
<i>n</i>	0.24451715	ω	296.79074	-0.46001412	-0.88791122
<i>a</i>	2.5327744	Ω	180.59913	+0.83997162	-0.43487733
<i>e</i>	0.1421274	<i>i</i>	4.50153	+0.28781014	-0.14998459
<i>P</i>	4.03	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 13	691	0.0	0.1+	2000 02 02	704	0.0	0.7+	2000 02 06	609	0.6-	0.3-
1998 09 13	691	0.1+	0.1-	2000 02 02	704	0.1+	0.5+	2000 02 27	703	0.7-	0.2+
1998 09 13	691	0.1+	0.2+	2000 02 02	704	0.3+	0.6+	2000 02 27	703	0.1+	1.2+
1998 09 19	691	0.1-	0.2+	2000 02 02	704	0.3+	0.9+	2000 02 27	703	1.3-	0.7+
1998 09 19	691	0.2-	0.1-	2000 02 04	704	0.6-	0.2-	2000 02 27	703	0.2+	0.3-
1998 09 19	691	0.0	0.2-	2000 02 04	704	0.0	0.0	2000 03 05	704	0.4-	0.4-
2000 01 07	704	0.4-	0.2-	2000 02 04	704	1.2-	0.3-	2000 03 05	704	0.4+	1.0-
2000 01 07	704	1.0+	0.2-	2000 02 05	609(13.7-	6.2+)		2000 03 05	704	0.6+	0.1-
2000 01 07	704	0.7-	0.1+	2000 02 05	609	1.6+	0.1-	2000 03 05	704	0.2-	0.1-
2000 01 07	704	0.0	0.5-	2000 02 06	609	0.6+	1.2-	2000 03 05	704	0.9+	0.1-

2000 CG₂₀ = 1989 ST₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	214.35450		(2000.0)	P	Q
<i>n</i>	0.23052002	ω	127.20091	+0.32489382	+0.94431424
<i>a</i>	2.6342902	Ω	161.54999	-0.91148923	+0.32734244
<i>e</i>	0.0726960	<i>i</i>	9.47583	-0.25225263	+0.03342978
<i>P</i>	4.28	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1989 09 25	809	0.2+	0.5-	2000 02 02	704	0.1-	0.1-	2000 02 12	704	0.1+	0.1+
1989 09 25	809	0.3+	0.1-	2000 02 02	704	0.0	0.3-	2000 02 12	704	0.1-	0.6+
1989 09 25	809	0.6-	0.8+	2000 02 02	704	0.5+	0.3-	2000 02 12	704	0.7-	0.2+
1989 09 26	809 (1.8-	5.3-)		2000 02 02	704	0.9-	0.0	2000 02 12	704	0.3-	0.1+
1989 09 26	809 (2.4-	5.7-)		2000 02 02	704	0.2-	0.4-	2000 02 12	704	1.4-	0.4+
1989 09 26	809 (2.1-	6.5-)		2000 02 04	704	0.2-	0.0	2000 03 05	704	0.2-	0.6+
1998 10 12	699 (4.1-	0.3+)		2000 02 04	704	0.0	0.2-	2000 03 05	704	0.4-	0.2-
1998 10 12	699	0.7+	0.9-	2000 02 04	704	0.2-	0.4+	2000 03 05	704	0.5-	0.2+
1998 10 12	699	0.6-	0.7+	2000 02 06	704	0.3+	0.5+	2000 03 05	704	0.4-	0.5-
2000 01 07	704	0.4+	0.7+	2000 02 06	704	0.2-	0.7-	2000 03 05	704	0.3-	0.4-
2000 01 07	704	0.2+	0.5-	2000 02 06	704	0.3+	0.4+	2000 03 11	608	0.3+	0.0
2000 01 07	704	0.2+	0.5-	2000 02 06	704	1.6+	0.8+	2000 03 11	608	0.3+	0.0
2000 01 07	704	1.2+	0.2+	2000 02 06	704	0.5+	0.9-	2000 03 11	608	0.3+	0.0

2000 CX₂₁ = 1998 RJ₂₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	104.30133		(2000.0)	P	Q
<i>n</i>	0.26086322	ω	202.84035	+0.91620311	-0.40071308
<i>a</i>	2.4258326	Ω	180.78429	+0.37747309	+0.86385211
<i>e</i>	0.1287504	<i>i</i>	3.95362	+0.13448393	+0.30526800
<i>P</i>	3.78	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 17	704	0.2-	0.6+	2000 01 07	704	0.1+	0.4-	2000 02 06	704	0.1-	0.6-
1998 08 17	704	0.3+	0.1-	2000 01 07	704	0.6-	0.2+	2000 02 06	704	0.2-	0.4+
1998 08 17	704	0.1-	0.3-	2000 02 02	704	0.0	0.4-	2000 02 06	704	0.0	0.5+

2000 MAR. 20

M.P.C. 39373

1998 08 17	704	0.4+	0.5+	2000 02 02	704	0.8+	0.3-	2000 02 06	704	0.2-	0.4+
1998 08 17	704	0.2-	0.1-	2000 02 02	704	0.2+	0.6+	2000 02 06	704	0.2+	1.6-
1998 09 14	704	0.2-	0.2+	2000 02 02	704	0.0	0.5-	2000 02 06	704	0.1-	0.4+
1998 09 14	704	0.0	0.9+	2000 02 02	704	0.0	0.4+	2000 02 08	704	0.0	0.4+
1998 09 14	704	0.8-	0.5+	2000 02 04	704	0.2-	0.4+	2000 02 08	704	0.6-	0.3+
1998 09 15	699	1.5+	0.7-	2000 02 04	704	0.2+	0.8+	2000 02 08	704	0.3-	0.5+
1998 09 15	699	0.2+	1.3-	2000 02 04	704	0.2+	1.2+	2000 02 08	704	0.4-	0.6-
1998 09 15	699	0.3+	0.7-	2000 02 04	704	0.1+	0.3-	2000 02 08	704	0.7+	0.1-
1998 09 18	704	0.5-	0.1-	2000 02 04	704	0.2-	0.2-	2000 02 10	704	0.3+	0.4+
1998 09 18	704	0.2-	0.2+	2000 02 05	704	0.0	0.7-	2000 02 10	704	0.7-	0.9-
1998 09 18	704	0.3+	0.3+	2000 02 05	704	0.2-	1.3+	2000 02 10	704	0.5+	2.0-
1998 09 18	704	1.6-	0.8+	2000 02 05	704	0.3-	0.8+	2000 03 05	704	0.3+	0.1-
1998 09 26	327	0.1+	0.3-	2000 02 05	704	0.0	1.3+	2000 03 05	704	0.1-	0.2+
1998 09 26	327	0.1+	0.2+	2000 02 06	704	0.4+	0.7+	2000 03 05	704	0.2+	0.4+
1998 09 26	327	0.2+	0.0	2000 02 06	704	0.4+	0.6-	2000 03 05	704	0.1+	0.1-
2000 01 07	704	0.2-	1.4-	2000 02 06	704	0.1-	0.1-	2000 03 05	704	0.1-	0.1+

2000 CA₂₂ = 1996 FS₁₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	290.98080	(2000.0)	P	Q	
<i>n</i>	0.23493586	ω	67.36158	-0.79752556	+0.60141097
<i>a</i>	2.6011766	Ω	149.54784	-0.58220014	-0.74661957
<i>e</i>	0.0628138	<i>i</i>	5.37964	-0.15810116	-0.28436607
<i>P</i>	4.20	<i>H</i>	15.3	<i>G</i>	0.15
				<i>U</i>	6

Residuals in seconds of arc

1996 03 17	691	0.2+	0.1-	2000 02 02	704	0.5+	0.2+	2000 02 04	704	0.0	0.3-
1996 03 17	691	0.5+	0.2+	2000 02 02	704	0.3-	0.2-	2000 02 06	704	0.7+	0.6+
1996 03 17	691	0.0	0.0	2000 02 02	704	0.4+	0.7-	2000 02 06	704	0.5-	1.7+
1996 03 23	691	0.1-	0.0	2000 02 02	704	0.1+	0.5-	2000 02 06	704	0.7+	0.4-
1996 03 23	691	0.3-	0.1-	2000 02 04	704	0.0	0.1-	2000 02 06	704	0.4-	0.2-
1996 03 23	691	0.3-	0.0	2000 02 04	704	0.1+	0.9+	2000 02 06	704	0.5-	0.0
2000 02 02	704	0.7-	0.5-	2000 02 04	704	0.2-	0.6-				

2000 CJ₂₃ = 1991 VK₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	315.12430	(2000.0)	P	Q	
<i>n</i>	0.27448921	ω	13.39267	-0.88843537	+0.45874136
<i>a</i>	2.3448723	Ω	193.94439	-0.42681538	-0.83805654
<i>e</i>	0.1870868	<i>i</i>	3.67792	-0.16885268	-0.29532627
<i>P</i>	3.59	<i>H</i>	15.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1991 11 05	691	1.4+	0.5-	2000 02 04	704	0.5-	0.8-	2000 02 08	704	0.2+	0.0
1991 11 05	691	0.2+	0.4+	2000 02 04	704	1.6+	0.5-	2000 02 08	704	0.0	0.4-
1991 11 05	691	0.3-	0.7+	2000 02 05	704	0.4-	0.3-	2000 02 08	704	0.3-	0.3-
1991 11 06	691	0.5-	0.5-	2000 02 05	704	0.2+	0.6+	2000 02 08	704	0.5-	1.2-
1991 11 06	691	0.3-	0.7-	2000 02 05	704	1.0+	0.7+	2000 02 08	704	0.5-	0.2-
1991 11 06	691	0.5-	0.7+	2000 02 06	704	1.3+	0.3-	2000 02 27	703	0.7+	0.2+
1998 09 18	910	0.1+	0.4-	2000 02 06	704	1.1-	0.1-	2000 02 27	703	0.3+	0.6+
1998 09 18	910	0.2+	0.4+	2000 02 06	704	0.7-	1.2+	2000 02 27	703	1.6-	0.4+
1998 09 18	910	0.4-	0.1-	2000 02 06	704	0.2-	0.6+	2000 02 27	703	0.8-	0.4+
2000 02 02	704	0.1-	0.3-	2000 02 06	704	0.0	0.4+	2000 03 05	704	0.1+	0.3+
2000 02 02	704	0.1+	0.2-	2000 02 06	704	0.7-	0.3+	2000 03 05	704	0.9-	0.2+
2000 02 02	704	0.1+	0.0	2000 02 06	704	1.0+	0.5-	2000 03 05	704	0.2+	0.2-
2000 02 02	704	0.2+	0.1-	2000 02 06	704	0.3-	1.2+	2000 03 05	704	0.6+	0.5-
2000 02 02	704	0.7+	0.1-	2000 02 06	704	0.1+	0.6-	2000 03 05	704	0.0	0.1-
2000 02 04	704	1.2+	1.1-	2000 02 06	704	0.9-	0.6+				

2000 CM₂₃ = 1996 JL₉ = 1998 SN₁₄₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	55.94524	(2000.0)	P	Q	
<i>n</i>	0.19312920	ω	245.84960	+0.20730688	-0.97811652
<i>a</i>	2.9641767	Ω	192.22525	+0.92510354	+0.20187816
<i>e</i>	0.0886253	<i>i</i>	4.78435	+0.31813096	+0.05033173
<i>P</i>	5.10	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1996 05 13	691	0.0	0.4+	1998 09 21	809	0.3-	1.0-	2000 02 04	704	0.3-	0.4-
1996 05 13	691	0.5-	0.1+	1998 09 21	809	0.7+	0.3-	2000 02 06	704	0.3-	0.6+
1996 05 13	691	0.1+	0.1+	2000 02 02	704	0.1-	1.2+	2000 02 06	704	0.6+	0.1-
1996 05 20	691	0.1+	0.3+	2000 02 02	704	0.7-	0.1-	2000 02 06	704	0.5-	0.2-
1996 05 20	691	0.3+	0.1+	2000 02 02	704	0.1+	0.9-	2000 02 06	704	0.3+	1.2-
1996 05 20	691	0.2+	0.1+	2000 02 02	704	0.2+	0.1-	2000 02 08	704	0.1+	0.1-
1998 09 20	809	1.7+	2.3+	2000 02 02	704	0.2-	0.8-	2000 02 08	704	0.6+	0.4+
1998 09 20	809	0.6-	0.4+	2000 02 04	704	0.6-	0.2+	2000 02 08	704	1.0+	0.0
1998 09 20	809	1.6-	0.8+	2000 02 04	704	1.1+	1.4+	2000 02 08	704	0.7-	0.3+
1998 09 21	809	0.2-	0.9-	2000 02 04	704	0.4-	0.3+				

2000 CZ₂₃ = 1996 CD₆ = 1998 SH₁₄₄ = 1998 UQ₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	304.61147	(2000.0)	P	Q	
<i>n</i>	0.24534481	ω	37.72008	-0.91253572	+0.40877251
<i>a</i>	2.5270750	Ω	166.38828	-0.38786455	-0.85439972
<i>e</i>	0.0569769	<i>i</i>	3.30058	-0.12976767	-0.32078990
<i>P</i>	4.02	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1996 02 10	691	0.0	0.8-	1998 10 29	704	1.1+	0.7+	2000 02 04	704	0.1+	0.4-
1996 02 10	691	0.2-	0.7-	1998 10 29	704	0.0	1.5-	2000 02 04	704	0.4+	0.2-
1996 02 10	691	0.4-	0.6-	1998 10 29	704	1.3+	0.2+	2000 02 04	704	0.3+	0.1-
1996 02 16	691	0.3-	0.4-	2000 01 30	703	0.8-	0.0	2000 02 29	704	0.1-	0.0
1996 02 16	691	0.1+	0.7-	2000 01 30	703	0.9-	0.2+	2000 02 29	704	0.2-	0.8+
1996 02 16	691	0.2-	0.4-	2000 01 30	703	1.7-	1.8+	2000 02 29	704	0.4+	0.2+
1998 09 18	809	(2.8-	4.3+)	2000 01 30	703	1.4+	1.0+	2000 02 29	704	0.1-	0.8+
1998 09 18	809	(3.4-	3.6+)	2000 02 01	703	0.0	0.6+	2000 02 29	704	0.2-	0.7+
1998 09 18	809	(3.4-	2.7+)	2000 02 01	703	0.3+	0.5-	2000 03 05	704	0.1+	0.5+
1998 09 20	809	1.7-	1.2+	2000 02 01	703	0.5+	0.2+	2000 03 05	704	0.3-	0.6+
1998 09 20	809	1.2-	1.2+	2000 02 01	703	0.4+	0.0	2000 03 05	704	0.1+	0.1+
1998 09 20	809	1.5-	1.5+	2000 02 02	704	0.3+	0.5-	2000 03 05	704	0.2-	0.7+
1998 10 28	704	(2.6+	0.8-)	2000 02 02	704	0.2+	0.5-	2000 03 05	704	0.4-	0.2+
1998 10 28	704	1.6+	0.1+	2000 02 02	704	0.0	0.7-	2000 03 09	704	0.5+	0.5-
1998 10 28	704	0.4+	0.9+	2000 02 02	704	0.0	0.3-	2000 03 09	704	0.6+	0.7+
1998 10 28	704	0.7-	1.7-	2000 02 02	704	0.0	1.1-	2000 03 09	704	0.1-	0.4+
1998 10 29	704	(2.6+	0.7+)	2000 02 04	704	0.0	0.6-	2000 03 09	704	0.0	0.5+
1998 10 29	704	0.1+	1.5-	2000 02 04	704	0.5+	0.3-	2000 03 09	704	0.2-	0.8+

2000 CL₂₄ = 1991 RM₃₈ = 1998 RW₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	148.36210	(2000.0)	P	Q	
<i>n</i>	0.28148779	ω	191.23202	+0.96766712	+0.24595968
<i>a</i>	2.3058427	Ω	154.31946	-0.22027291	+0.93201278
<i>e</i>	0.1762187	<i>i</i>	7.41072	-0.12288284	+0.26618795
<i>P</i>	3.50	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1991 09 12	808	0.6-	0.4-	1998 09 16	699	0.0	0.0	2000 02 29	704	0.7+	0.1+
1991 09 12	808	0.3+	1.7+	1998 09 16	699	0.2+	0.7+	2000 02 29	704	0.0	0.5-
1997 04 07	566	0.0	0.3+	1998 09 16	699	0.4-	0.3+	2000 02 29	704	0.5+	0.8+
1997 04 07	566	0.2-	0.1+	1998 09 18	704	0.1+	0.7+	2000 02 29	704	1.4+	1.0+
1997 04 07	566	0.2+	0.3+	1998 09 18	704	0.1+	0.0	2000 02 29	704	0.6+	0.5+
1998 08 17	704	0.4+	0.1+	1998 09 18	704	0.6+	1.3-	2000 03 05	704	0.4+	0.6-
1998 08 17	704	0.7+	0.5+	1998 09 18	704	0.1+	0.1-	2000 03 05	704	0.7+	0.4+
1998 08 17	704	0.3+	0.4+	1998 09 18	704	0.2+	0.2-	2000 03 05	704	1.1-	0.2+
1998 08 17	704	0.2-	0.3-	2000 02 02	704	0.4-	0.2+	2000 03 05	704	0.2+	0.6-

1998 08 17	704	0.1−	0.3−	2000 02 02	704	0.0	0.2+	2000 03 09	691	0.1−	0.1+
1998 08 30	699	0.3+	0.2−	2000 02 02	704	0.1−	0.0	2000 03 09	691	0.2−	0.4−
1998 08 30	699	0.3+	0.3+	2000 02 02	704	0.1+	1.0+	2000 03 09	691	0.5−	0.3−
1998 08 30	699	0.3+	0.1−	2000 02 02	704	0.6−	0.2−	2000 03 09	704	0.2−	0.1−
1998 09 14	704	0.6−	0.3−	2000 02 04	704	1.0−	1.0−	2000 03 09	704	0.3−	1.1+
1998 09 14	704	0.4+	0.0	2000 02 04	704	0.2+	0.4−	2000 03 09	704	0.1−	0.1−
1998 09 14	704	1.6−	0.5+	2000 02 04	704	0.1+	0.2−	2000 03 09	704	0.0	0.1−
1998 09 14	704	0.2−	0.1+	2000 02 04	704	0.4+	0.0				
1998 09 14	704	0.7−	1.2−	2000 02 04	704	0.4−	0.1+				

2000 CQ₂₄ = 1997 LX₃ = 1998 QH₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	79.30410		(2000.0)	P	Q		
n	0.22468705	ω	244.51072	+0.78949232	−0.61286525		
a	2.6796867	Ω	153.24815	+0.58623692	+0.73700170		
e	0.2288345	i	4.22177	+0.18173650	+0.28499944		
P	4.39	H	14.9	G	0.15	U	3

Residuals in seconds of arc

1997 06 09	691	0.5−	0.3+	1998 08 23	704	1.9−	1.4+	2000 02 27	691	0.9−	0.0
1997 06 09	691	0.2+	0.1−	1998 08 23	699	0.1+	0.3+	2000 02 27	691	1.0−	0.2−
1997 06 09	691	0.0	0.0	1998 11 19	910	0.3−	0.4−	2000 02 29	704	0.4+	0.1+
1997 06 10	691	0.3+	0.1+	1998 11 19	910	0.4+	0.1+	2000 02 29	704	0.5+	0.4+
1997 06 10	691	0.0	0.1+	1998 11 19	910	0.1−	0.1+	2000 02 29	704	0.4+	0.9−
1997 06 10	691	0.3+	0.4+	2000 02 02	704	0.1−	0.5+	2000 02 29	704	0.4−	0.2−
1998 08 17	704	0.7+	0.7−	2000 02 02	704	0.1+	0.1+	2000 02 29	704	0.1−	1.0+
1998 08 17	704	1.7−	1.1−	2000 02 02	704	0.6+	0.0	2000 03 03	691	0.3−	0.0
1998 08 17	704	1.1−	0.7−	2000 02 02	704	0.6−	0.5−	2000 03 03	691	0.3−	0.1−
1998 08 17	704	0.3+	0.0	2000 02 02	704	0.1−	0.0	2000 03 03	691	0.2−	0.1−
1998 08 17	704	1.5+	1.9+	2000 02 04	704	0.7+	0.2+	2000 03 05	704	0.1+	0.6+
1998 08 23	699	0.1+	0.6−	2000 02 04	704	0.5+	1.5+	2000 03 05	704	0.1+	0.2+
1998 08 23	704	0.8−	0.2+	2000 02 04	704	(2.2+ 0.8−)		2000 03 05	704	0.4+	0.1+
1998 08 23	704	1.2+	0.8+	2000 02 04	704	0.3+	1.6+	2000 03 05	704	0.0	0.2+
1998 08 23	699	0.1−	0.6+	2000 02 04	704	1.3+	0.7−	2000 03 05	704	0.6+	0.2+
1998 08 23	704	0.6+	1.6+	2000 02 27	691	0.9−	0.0				

2000 CR₂₄ = 1998 RD₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	217.40347		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.31371048	ω	27.79266	+0.43409931	+0.90070441
a	2.1451123	Ω	267.93963	−0.82965241	+0.39235488
e	0.1589275	i	0.97530	−0.35104795	+0.18651867
P	3.14	H	15.1	G 0.15	U 4

Residuals in seconds of arc

1998 08 28	699	0.3−	0.2+	1998 09 18	704	0.2−	0.5+	2000 02 29	704	0.0	0.3+
1998 08 28	699	0.2+	0.1−	1998 10 14	699	0.4−	0.9+	2000 02 29	704	0.3−	0.1−
1998 08 28	699	0.1−	0.9+	1998 10 14	699	0.1+	0.5+	2000 03 03	691	0.3−	0.4−
1998 08 31	704	(2.6+ 1.3+)		1998 10 14	699	0.2−	0.1−	2000 03 03	691	0.1−	0.2−
1998 08 31	704	0.6+	1.0+	2000 01 07	704	0.0	1.6−	2000 03 03	691	0.2−	0.2−
1998 08 31	704	0.4−	1.8−	2000 01 07	704	0.6−	0.2+	2000 03 05	704	0.9+	0.6−
1998 08 31	704	1.6−	1.5−	2000 01 07	704	1.7−	0.4−	2000 03 05	704	0.6+	0.4−
1998 09 14	704	1.2+	0.9−	2000 02 02	704	0.4−	0.4+	2000 03 05	704	0.7−	0.5−
1998 09 14	704	1.3+	1.4−	2000 02 02	704	0.6+	0.6+	2000 03 09	691	0.1−	0.3+
1998 09 14	704	0.0	1.2−	2000 02 02	704	0.6+	0.1+	2000 03 09	691	0.1−	0.1+
1998 09 15	699	0.5+	0.3−	2000 02 04	704	0.7+	0.0	2000 03 09	691	0.0	0.4+
1998 09 15	699	0.6−	0.2−	2000 02 04	704	1.2+	1.8+	2000 03 09	704	0.3−	0.2+
1998 09 15	699	0.2−	1.3+	2000 02 04	704	0.6+	0.1−	2000 03 09	704	0.1−	0.2−
1998 09 18	704	0.2+	0.5+	2000 02 04	704	1.1+	0.4−	2000 03 09	704	0.1−	0.2−
1998 09 18	704	1.0−	0.6+	2000 02 29	704	0.1−	0.5+	2000 03 09	704	0.1−	0.2−
1998 09 18	704	0.5+	0.2+	2000 02 29	704	0.1−	0.1+	2000 03 09	704	0.4−	0.2−
1998 09 18	704	0.3+	0.5+	2000 02 29	704	0.9−	0.2+				

2000 CU₂₄ = 1998 US₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	273.68924		(2000.0)	P	Q		
n	0.30238375	ω	336.29704	−0.42216164	+0.90516684		
a	2.1983513	Ω	268.70063	−0.82359468	−0.40579702		
e	0.1234441	i	2.83936	−0.37877613	−0.12649808		
P	3.26	H	14.8	G	0.15	U	4

Residuals in seconds of arc

1998 09 17	699	0.5−	0.4+	1998 10 29	704	0.4+	0.8+	2000 02 04	704	0.5+	0.7−
1998 09 17	699	1.4−	1.3+	1998 10 29	704	1.6+	1.8+	2000 02 04	704	0.2+	0.3+
1998 09 17	699	1.1+	0.8+	2000 01 07	704	0.8−	0.0	2000 02 05	704	0.6−	0.1+
1998 10 11	699	0.6+	0.2+	2000 01 07	704	0.3−	0.0	2000 02 05	704	0.2+	0.9−
1998 10 11	699	0.1+	0.2−	2000 01 07	704	(0.8− 2.6−)		2000 02 05	704	0.4+	0.9−
1998 10 11	699	0.7+	0.4−	2000 02 02	704	0.1+	0.2+	2000 02 29	704	0.7−	1.2−
1998 10 28	704	1.3−	1.7−	2000 02 02	704	0.5−	0.0	2000 02 29	704	0.0	0.2−
1998 10 28	704	0.8−	0.0	2000 02 02	704	0.2−	0.5+	2000 02 29	704	0.1−	0.5−
1998 10 28	704	1.7−	0.7−	2000 02 02	704	0.2+	0.8+	2000 03 05	704	0.1+	0.4+
1998 10 28	704	0.0	1.1−	2000 02 02	704	0.0	1.1+	2000 03 05	704	0.3+	0.3+
1998 10 29	704	0.4+	0.4−	2000 02 04	704	0.1−	0.3−	2000 03 05	704	0.2+	0.5+
1998 10 29	704	0.7+	0.3−	2000 02 04	704	0.5+	0.3+	2000 03 05	704	0.2+	0.4+
1998 10 29	704	0.1+	0.2−	2000 02 04	704	0.2+	0.2+	2000 03 05	704	0.2+	0.3+

2000 CW₂₄ = 1987 DB₄ = 1993 PL₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	144.38986		(2000.0)	P	Q
n	0.22508375	ω	53.76024	+0.98565063	+0.04968071
a	2.6765372	Ω	302.86167	−0.12315295	+0.86524748
e	0.0450239	i	11.07264	+0.11543911	+0.49887736
P	4.38	H	13.9	G 0.15	U 2

Residuals in seconds of arc

1987 02 23	010	0.8−	0.6+	1998 11 16	704	(1.6− 2.4−)		2000 02 10	704	0.6+	0.1+
1987 02 24	010	1.5+	0.7+	1999 12 07	704	0.2+	0.5+	2000 02 10	704	0.4+	0.0
1993 08 14	010	0.5−	0.4+	1999 12 07	704	1.0−	0.5−	2000 02 10	704	0.2−	0.6+
1993 08 14	010	0.3−	0.6+	1999 12 07	704	0.5−	1.1−	2000 02 10	704	0.5−	0.1−
1993 08 14	010	0.3+	0.3+	1999 12 07	704	0.6−	0.1−	2000 02 10	704	0.1+	0.1+
1993 08 15	010	(3.0− 2.0−)		2000 01 07	704	0.2+	1.3−	2000 02 12	704	(1.0− 6.2+)	
1993 08 18	010	(0.5+ 4.5+)		2000 01 07	704	0.6+	0.1+	2000 02 12	704	(1.7+ 3.1+)	
1993 08 18	010	(0.2− 4.5+)		2000 01 07	704	1.5−	0.0	2000 02 12	704	0.3+	0.1+
1993 08 18	010	(0.8+ 3.9+)		2000 01 07	704	0.6−	0.1−	2000 02 12	704	1.1+	0.6−
1998 10 02	699	0.1−	0.2+	2000 02 02	704	1.1+	0.5+	2000 02 27	703	0.4+	1.7+
1998 10 02	699	1.0+	0.0	2000 02 02	704	0.2−	0.1−	2000 02 27	703	0.0	0.1−
1998 10 02	699	0.5+	0.7+	2000 02 02	704	0.1+	0.0	2000 02 27	703	0.7−	0.6−
1998 11 15	699	1.0−	0.3+	2000 02 02	704	0.1−	0.5+	2000 02 27	703	0.7−	0.1+
1998 11 15	699	0.5−	0.7−	2000 02 02	704	0.2+	0.5+	2000 03 06	704	0.3+	0.7+
1998 11 15	699	0.0	0.2+	2000 02 04	704	0.6+	0.6−	2000 03 06	704	0.0	0.3+
1998 11 16	704	0.2−	0.0	2000 02 04	704	0.4+	0.3−	2000 03 06	704	0.2+	0.6+
1998 11 16	704	1.6−	0.4+	2000 02 04	704	0.1−	0.4+	2000 03 06	704	0.4−	0.1−
1998 11 16	704	0.6+	1.5−	2000 02 04	704	0.2+	0.4−	2000 03 06	704	0.4−	0.2−
1998 11 16	704	0.9+	1.2+	2000 02 04	704	0.3−	0.5−				

2000 CD₂₅ = 1989 VM₄ = 1998 SZ₁₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	108.33048		(2000.0)	P	Q
n	0.21532359	ω	219.12488	+0.94886395	−0.30950675
a	2.7568193	Ω	158.65493	+0.31510236	+0.91661614
e	0.1719014	i	9.83159	+0.01917569	+0.25302258
P	4.58	H	14.0	G 0.15	U 4

Residuals in seconds of arc

1989 11

2000 MAR. 20

M.P.C. 39375

1998 09 24	699	0.1−	0.2+	2000 02 04	704	0.4+	0.2+	2000 02 29	704	0.5−	0.4+
1998 09 24	699	0.1+	0.1−	2000 02 04	704	0.3+	0.4+	2000 02 29	704	0.3−	0.2+
1998 09 24	699	0.0	0.0	2000 02 04	704	0.2−	0.3+	2000 02 29	704	0.6−	0.5+
1998 09 26	704	0.3−	0.3+	2000 02 04	704	(2.1+	0.4−)	2000 03 03	704	0.3+	0.1+
1998 09 26	704	0.4+	0.5−	2000 02 06	704	0.0	0.0	2000 03 03	704	(0.7−	2.9+)
1998 09 26	704	1.0+	0.6−	2000 02 06	704	0.5+	0.0	2000 03 03	704	0.1−	0.0
1998 09 27	704	0.9−	1.3+	2000 02 06	704	0.3−	0.3+	2000 03 03	704	0.0	0.3+
1998 09 27	704	(0.9−	2.6+)	2000 02 06	704	0.3+	0.1+	2000 03 03	704	0.0	0.6+
1998 09 27	704	0.4−	1.8+	2000 02 06	704	0.0	0.4+	2000 03 05	704	0.6+	0.7+
1998 09 27	704	1.0−	1.7+	2000 02 10	704	0.3−	0.0	2000 03 05	704	0.3−	0.0
2000 01 08	704	0.4−	0.7−	2000 02 10	704	0.4+	0.5−	2000 03 05	704	0.3+	1.0−
2000 01 08	704	0.4−	0.7−	2000 02 10	704	0.6−	1.2+	2000 03 05	704	0.3+	0.7−
2000 01 08	704	0.2+	1.0−	2000 02 12	704	(3.4+	0.1+)	2000 03 05	704	0.6+	0.9−
2000 02 02	704	0.2−	0.3+	2000 02 12	704	1.3+	0.5−				
2000 02 02	704	0.1−	0.7+	2000 02 12	704	0.6−	0.4+				

2000 CH₂₅ = 1998 UP₉

Id. G. V. Williams, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	37.83001		(2000.0)	P		Q	
<i>n</i>	0.23753696	ω	262.95349	−0.17135006		−0.98494743	
<i>a</i>	2.5821527	Ω	196.96412	+0.93190517		−0.15454213	
<i>e</i>	0.0938302	<i>i</i>	4.47268	+0.31967470		−0.07742930	
<i>P</i>	4.15	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 16	691	0.4+	0.2+	2000 01 08	704	0.7−	0.4−	2000 02 08	704	0.2−	0.7+
1998 10 16	691	0.2+	0.4+	2000 01 08	704	1.5−	1.1−	2000 02 08	704	0.1+	0.2+
1998 10 16	691	0.4+	0.4+	2000 02 02	704	1.1+	0.2−	2000 02 08	704	0.0	0.3+
1998 10 24	691	0.2−	0.2−	2000 02 02	704	0.4+	0.3+	2000 02 08	704	0.1−	1.2+
1998 10 24	691	0.4−	0.1+	2000 02 02	704	0.6+	1.0−	2000 02 12	704	0.1−	0.3+
1998 10 24	691	0.5−	0.2−	2000 02 02	704	0.1+	0.2−	2000 02 12	704	0.2−	0.0
1999 12 14	704	0.6−	0.5−	2000 02 02	704	0.1+	0.5−	2000 02 12	704	0.0	0.3−
1999 12 14	704	1.3+	0.2−	2000 02 04	704	0.5+	0.1+	2000 02 12	704	1.0+	0.8+
1999 12 14	704	0.8−	0.1−	2000 02 04	704	0.0	0.5−	2000 02 27	703	1.0−	0.1+
1999 12 14	704	0.7+	0.0	2000 02 04	704	0.3+	0.2+	2000 02 27	703	0.4+	0.4+
2000 01 08	704	1.0−	0.2+	2000 02 04	704	0.1+	0.3−	2000 02 27	703	1.4−	0.5+
2000 01 08	704	0.3+	0.5−	2000 02 04	704	0.1+	0.1+	2000 02 27	703	0.5+	0.4−
2000 01 08	704	0.4−	0.3+	2000 02 08	704	0.1+	0.8+				

2000 CK₂₅ = 1997 RW₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	218.12373		(2000.0)	P		Q	
<i>n</i>	0.19278657	ω	120.01426	+0.32759417		+0.94437173	
<i>a</i>	2.9676877	Ω	168.99185	−0.91079183		+0.32382499	
<i>e</i>	0.0434035	<i>i</i>	8.75174	−0.25127735		+0.05744059	
<i>P</i>	5.11	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 09 03	910	0.0	0.1+	2000 02 02	704	0.5−	0.3−	2000 02 27	703	0.1−	0.8+
1997 09 03	910	0.2+	0.0	2000 02 02	704	0.3−	0.1−	2000 02 27	703	1.3+	0.0
1997 09 03	910	0.1+	0.1−	2000 02 02	704	0.4+	0.2−	2000 02 27	703	0.8+	0.5+
1997 09 05	910	0.1−	0.0	2000 02 04	704	0.4+	0.9−	2000 02 27	703	0.3−	0.1−
1997 09 05	910	0.1−	0.0	2000 02 04	704	0.1−	1.1+	2000 03 05	704	0.5+	0.5+
1997 09 05	910	0.1−	0.1+	2000 02 04	704	0.7−	0.4+	2000 03 05	704	0.1−	0.6+
2000 02 02	704	0.3+	0.3+	2000 02 04	704	0.4+	0.0	2000 03 05	704	1.0−	0.4−
2000 02 02	704	0.1−	1.0−	2000 02 04	704	0.1−	0.4+	2000 03 05	704	0.6−	1.4−

2000 CN₂₅ = 1996 JA₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	303.08694		(2000.0)	P		Q	
<i>n</i>	0.24146061	ω	64.86462	−0.68729685		+0.72539948	
<i>a</i>	2.5541037	Ω	161.55797	−0.70193473		−0.64993848	
<i>e</i>	0.2224282	<i>i</i>	6.83797	−0.18684399		−0.22666177	
<i>P</i>	4.08	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 03 19	566	0.8+	1.2+	2000 02 02	704	0.2−	0.2−	2000 02 29	704	0.1+	0.1+
1996 03 19	566	0.4+	1.3+	2000 02 04	704	0.8+	0.5−	2000 02 29	704	0.0	0.2+
1996 03 19	566	0.4+	0.8+	2000 02 04	704	0.4+	0.6−	2000 02 29	704	0.1−	0.1−
1996 05 10	327	0.0	0.6+	2000 02 04	704	0.6+	0.2−	2000 03 03	704	0.0	0.3+
1996 05 10	327	0.0	0.4+	2000 02 04	704	0.4+	1.0−	2000 03 03	704	0.4+	0.1+
1996 05 10	327	0.1+	0.0	2000 02 04	704	0.0	0.1−	2000 03 03	704	(2.3+	0.1−)
1996 05 11	327	1.0−	0.5−	2000 02 06	704	0.4+	0.0	2000 03 03	704	0.3+	1.0+
1996 05 11	327	0.2−	0.7−	2000 02 06	704	0.0	0.0	2000 03 03	704	1.7+	0.8+
1996 05 11	327	0.1−	0.4−	2000 02 06	704	0.2+	0.2+	2000 03 05	704	0.3−	0.1−
1997 09 26	910	0.3−	1.3+	2000 02 06	704	0.2+	0.2−	2000 03 05	704	0.0	0.1+
1997 09 26	910	0.3−	1.2+	2000 02 27	703	0.8−	0.4+	2000 03 05	704	0.3−	0.1+
1997 09 26	910	0.3−	1.3+	2000 02 27	703	0.7−	0.2−	2000 03 05	704	0.8−	0.2+
2000 02 02	704	0.2−	0.2−	2000 02 27	703	0.3−	1.0+	2000 03 05	704	0.0	0.3+
2000 02 02	704	0.5−	0.1+	2000 02 27	703	0.3−	0.3+	2000 03 05	608	0.1+	0.5−
2000 02 02	704	0.4−	0.3−	2000 02 29	704	0.5−	0.4+	2000 03 05	608	0.4+	0.5−
2000 02 02	704	0.2−	0.2−	2000 02 29	704	0.3−	0.2+	2000 03 05	608	0.4−	0.5−

2000 CO₂₅ = 1991 JL₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	203.84299		(2000.0)	P		Q	
<i>n</i>	0.19604502	ω	147.05036	+0.53325763		+0.84090341	
<i>a</i>	2.9347121	Ω	154.80327	−0.81547242		+0.53999715	
<i>e</i>	0.0375192	<i>i</i>	12.52032	−0.22503564		+0.03584044	
<i>P</i>	5.03	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 05 08	413	0.6−	0.5+	2000 02 02	704	0.2−	0.3−	2000 02 29	704	0.3+	0.4+
1991 05 18	413	0.1+	0.1−	2000 02 02	704	0.0	0.1−	2000 02 29	704	0.6+	0.1+
1991 05 18	413	0.5+	0.4−	2000 02 02	704	0.3−	0.1−	2000 02 29	704	0.1+	0.2+
1997 09 02	566	0.4+	0.1+	2000 02 02	704	1.0+	0.3−	2000 02 29	704	0.0	0.3+
1997 09 02	566	0.5−	0.2−	2000 02 02	704	0.5+	0.1+	2000 02 29	704	0.2+	0.7+
1997 09 02	566	0.0	0.1+	2000 02 04	704	0.7−	1.2+	2000 03 03	704	0.2+	0.0
1998 11 13	704	0.1−	0.7−	2000 02 04	704	0.5−	0.7+	2000 03 03	704	0.5+	0.5−
1998 11 13	704	0.1+	0.5−	2000 02 04	704	0.3−	0.3+	2000 03 03	704	1.6+	0.1−
1998 11 13	704	1.0+	0.4−	2000 02 04	704	0.3−	0.4+	2000 03 03	704	1.1+	0.1−
1998 11 13	704	1.0−	2.0+	2000 02 04	704	1.1−	0.6−	2000 03 05	704	0.1+	0.4−
2000 01 08	704	1.7−	0.9−	2000 02 27	703	0.4+	1.3−	2000 03 05	704	0.1+	0.2−
2000 01 08	704	0.0	0.7−	2000 02 27	703	0.1−	0.2+	2000 03 05	704	0.1−	0.4+
2000 01 08	704	0.3−	0.2−	2000 02 27	703	0.2−	0.5+	2000 03 05	704	0.5+	0.2+
2000 01 08	704	1.0−	0.5−	2000 02 27	703	0.8−	0.4+				

2000 CA₂₆ = 1997 HY₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	71.39990		(2000.0)	P		Q	
<i>n</i>	0.26837774	ω	237.26967	+0.58750724		−0.80921823	
<i>a</i>	2.3803367	Ω	176.74944	+0.74850373		+0.54293328	
<i>e</i>	0.1734837	<i>i</i>	1.06124	+0.30753440		+0.22447564	
<i>P</i>	3.67	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 04 29	691	0.2+	0.2−	2000 02 04	704	0.9+	0.4+	2000 03 03	704	0.0	0.1+
1997 04 29	691	0.1+	0.2−	2000 02 08	691	0.2+	0.7−	2000 03 03	704	0.1−	0.0
1997 04 29	691	0.0	0.5−	2000 02 08	691	0.3+	0.8−	2000 03 03	691	0.2−	0.3−

M.P.C. 39376

2000 MAR. 20

2000 02 02	704	0.7−	0.5−	2000 02 26	703	0.3−	0.4+	2000 03 05	704	0.7−	0.4−
2000 02 02	704	0.0	0.3−	2000 02 26	703	0.5−	0.8+	2000 03 05	704	0.1−	0.0
2000 02 02	704	0.0	0.2−	2000 02 29	704	0.0	0.2+	2000 03 05	704	0.5+	0.8+
2000 02 02	704	0.0	0.7+	2000 02 29	704	0.3−	0.7+	2000 03 05	704	0.9+	0.5+
2000 02 02	704	0.2−	0.2−	2000 02 29	704	0.5−	0.1+	2000 03 14	691	0.1−	0.5−
2000 02 04	704	1.0+	0.0	2000 02 29	704	0.1+	0.1−	2000 03 14	691	0.1−	0.5−
2000 02 04	704	0.3+	0.2+	2000 03 03	704	0.1+	0.5+	2000 03 14	691	0.0	0.4−
2000 02 04	704	0.5+	0.2+	2000 03 03	691	0.2−	0.5−				

2000 CD₂₆ = 1993 FE₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		357.58547		(2000.0)		<i>Q</i>	
<i>n</i>		0.27163305	ω	341.71207	−0.86756033	−0.49726347	
<i>a</i>		2.3612809	Ω	168.45813	+0.46128732	−0.81077492	
<i>e</i>		0.1295009	<i>i</i>	2.36409	+0.18588459	−0.30882531	
<i>P</i>		3.63	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1993 03 19	809	0.5−	0.2−	2000 02 04	704	0.3+	0.2+	2000 03 04	704	0.8−	0.1−
1993 03 20	809	0.9+	1.1−	2000 02 29	704	0.3+	0.1−	2000 03 04	704	0.0	0.5+
1993 03 24	809	0.6−	0.8+	2000 02 29	704	0.8−	0.7+	2000 03 05	704	0.2+	0.0
2000 02 02	704	0.1+	0.3−	2000 02 29	704	0.8−	0.2+	2000 03 05	704	0.2−	0.0
2000 02 02	704	0.2+	0.3−	2000 02 29	704	1.2−	0.4+	2000 03 05	704	0.1−	0.1+
2000 02 02	704	0.2−	0.5−	2000 03 03	704	0.5−	0.3−	2000 03 05	704	0.8+	0.4−
2000 02 02	704	0.4−	0.8−	2000 03 03	704	0.3+	0.2−	2000 03 06	704	0.7+	0.2+
2000 02 02	704	0.2−	0.3+	2000 03 03	704	0.5+	0.4−	2000 03 06	704	1.1+	0.4−
2000 02 04	704	1.1+	0.1−	2000 03 03	704	0.1+	0.1+	2000 03 06	704	0.3+	1.3+
2000 02 04	704	0.3−	0.5−	2000 03 03	704	0.0	0.5+	2000 03 06	704	0.5−	0.2+
2000 02 04	704	0.5+	0.1+	2000 03 04	704	(1.2−	3.8−)				

2000 CE₂₆ = 1998 RF₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		82.05367		(2000.0)		<i>Q</i>	
<i>n</i>		0.24025756	ω	119.29314	+0.69261236	−0.71957113	
<i>a</i>		2.5626227	Ω	286.77883	+0.64232863	+0.64685941	
<i>e</i>		0.1512759	<i>i</i>	2.99683	+0.32817989	+0.25256741	
<i>P</i>		4.10	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1998 08 23	704	1.2−	0.8+	2000 01 07	704	0.4−	0.3−	2000 02 27	703	0.4+	0.3−
1998 08 23	704	0.4+	1.0+	2000 01 07	704	0.1−	0.4−	2000 02 27	703	0.8−	0.9+
1998 08 23	704	0.3−	0.4−	2000 01 07	704	0.3−	0.2−	2000 02 27	703	0.0	0.2+
1998 08 23	704	1.7+	0.9−	2000 01 07	704	0.5−	0.4−	2000 02 27	703	0.5−	0.2−
1998 08 23	704	(2.5+	1.5+)	2000 02 02	704	0.2+	0.1+	2000 02 29	704	0.9+	0.5−
1998 09 14	704	0.6−	0.8−	2000 02 02	704	0.4−	0.3−	2000 02 29	704	0.2+	0.0
1998 09 14	704	0.7+	0.4+	2000 02 02	704	0.1+	0.1+	2000 02 29	704	0.2+	0.1−
1998 09 14	704	0.9−	1.1+	2000 02 02	704	0.3−	0.0	2000 02 29	704	0.0	0.4−
1998 09 14	704	1.0−	0.9+	2000 02 04	704	0.4+	0.4+	2000 02 29	704	0.3+	0.2+
1998 09 14	704	0.3+	0.5+	2000 02 04	704	0.3−	0.5−	2000 03 03	704	0.3+	0.5−
1998 09 15	699	0.5+	0.3+	2000 02 04	704	1.3−	0.6−	2000 03 03	704	0.0	0.5−
1998 09 15	699	1.5+	0.2−	2000 02 04	704	0.2−	0.5−	2000 03 03	704	0.7−	0.1+
1998 09 15	699	0.3+	0.6+	2000 02 04	704	0.7+	1.4+	2000 03 03	704	0.6−	0.6+
1998 09 18	704	1.8−	0.7−	2000 02 12	704	1.2+	1.3+	2000 03 05	704	0.2+	1.0−
1998 09 18	704	0.8−	1.3−	2000 02 12	704	1.5+	1.7+	2000 03 05	704	0.5−	0.3−
1998 09 18	704	0.3+	1.9−	2000 02 12	704	0.3−	0.6−	2000 03 05	704	0.2−	0.5+
1998 09 18	704	0.7+	0.9+	2000 02 12	704	0.6+	0.2+				

2000 CF₂₆ = 1998 SB₁₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		295.67706		(2000.0)		<i>Q</i>	
<i>n</i>		0.28389053	ω	62.35829	−0.75906148	+0.65036943	
<i>a</i>		2.2928137	Ω	158.17135	−0.62146032	−0.71057044	
<i>e</i>		0.0923946	<i>i</i>	4.48455	−0.19394007	−0.26853165	
<i>P</i>		3.47	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1993 01 28	809	0.7+	1.2−	1999 12 07	704	0.8−	0.5+	2000 03 03	704	0.2−	0.7+
1993 01 28	809	0.2−	1.4−	1999 12 07	704	0.9+	1.4−	2000 03 03	704	0.5+	0.7+
1993 01 28	809	1.3−	0.6−	2000 01 07	704	0.8+	0.3−	2000 03 03	704	0.2+	0.8+
1997 05 07	704	0.1+	0.7+	2000 01 07	704	0.9+	1.0−	2000 03 03	704	0.6+	1.1+
1997 05 07	704	0.1+	0.6+	2000 01 07	704	0.5+	0.6−	2000 03 03	704	0.4+	1.0+
1997 05 07	704	0.3+	0.5+	2000 01 07	704	0.6+	0.4−	2000 03 05	704	0.1−	0.0
1997 05 07	704	0.1+	0.3+	2000 01 07	704	0.4+	0.7+	2000 03 05	704	0.1+	0.5−
1997 05 07	704	0.0	0.2+	2000 02 02	704	0.0	0.5+	2000 03 05	704	0.2+	0.2−
1998 09 18	699	0.4−	0.2+	2000 02 02	704	0.4+	0.7+	2000 03 05	704	0.0	0.3−
1998 09 18	699	0.9−	0.8+	2000 02 02	704	0.3+	0.2+	2000 03 05	704	0.5−	0.4−
1998 09 18	699	0.5−	0.1−	2000 02 02	704	0.2+	0.1+	2000 03 05	608	0.0	0.6−
1998 09 26	704	0.2−	0.9+	2000 02 02	704	0.3+	0.2+	2000 03 05	608	0.4−	0.2+
1998 09 26	704	0.1+	0.6+	2000 02 04	704	0.0	0.6+	2000 03 05	608	0.3−	0.4−
1998 09 26	704	0.1+	0.0	2000 02 04	704	0.4+	0.5+	2000 03 09	691	0.4−	0.2−
1998 09 26	704	0.3−	0.7+	2000 02 04	704	0.3−	0.6+	2000 03 09	691	0.4−	0.0
1998 09 27	704	0.2+	0.4+	2000 02 04	704	0.2−	0.1+	2000 03 09	691	0.5−	0.1+
1998 09 27	704	1.0+	0.6+	2000 02 04	704	0.3+	1.2+	2000 03 14	691	0.9−	0.1−
1998 09 27	704	0.5−	0.4+	2000 02 29	704	0.1−	0.6+	2000 03 14	691	0.9−	0.0
1998 09 27	704	1.3+	0.2+	2000 02 29	704	0.0	0.1−	2000 03 14	691	1.0−	0.0
1998 09 27	704	1.6−	0.3−	2000 02 29	704	(2.6+	2.2−)				
1999 12 07	704	0.8+	0.2−	2000 02 29	704	0.1+	0.1+				

2000 CL₂₆ = 1993 FD₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		287.32607		(2000.0)		<i>Q</i>	
<i>n</i>		0.27079856	ω	293.18161	−0.50733651	+0.86135171	
<i>a</i>		2.3661293	Ω	306.30590	−0.77830765	−0.47101970	
<i>e</i>		0.1813416	<i>i</i>	1.85829	−0.36992820	−0.19029891	
<i>P</i>		3.64	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1993 03 21	809	0.1+	0.3+	2000 02 08	691	0.5−	0.5−	2000 03 03	704	0.1+	0.3+
1993 03 22	809	0.5+	0.2−	2000 02 08	691	0.5−	0.6−	2000 03 03	704	0.5−	0.4−
1993 03 26	809	0.6−	0.2−	2000 02 08	691	0.4−	0.5−	2000 03 03	704	0.1+	0.0
2000 02 02	704	0.4−	0.4+	2000 02 27	703	0.3−	0.1+	2000 03 03	704	0.4+	0.0
2000 02 02	704	0.0	0.3+	2000 02 27	703	0.2+	0.1−	2000 03 05	704	0.6+	0.8−
2000 02 02	704	0.4+	0.3−	2000 02 27	703	0.9+	0.3+	2000 03 05	704	0.4+	0.6−
2000 02 02	704	0.2+	0.1−	2000 02 27	703	0.5−	0.1+	2000 03 05	704	0.5+	0.4−
2000 02 02	704	0.0	0.6−	2000 02 29	704	0.2−	0.8+	2000 03 05	704	0.4−	0.6−
2000 02 04	704	0.1−	0.2+	2000 02 29	704	0.2−	1.3+	2000 03 05	704	0.1+	0.9−
2000 02 04	704	0.3+	0.5−	2000 02 29	704	0.4−	1.4+	2000 03 09	691	0.1−	0.5−
2000 02 04	704	0.2+	0.5+	2000 02 29	704	0.3−	1.9+	2000 03 09	691	0.3−	0.4−
2000 02 04	704	0.4+	0.0	2000 02 29	704	0.2−	1.4+	2000 03 09	691	0.3−	0.6−
2000 02 04	704	0.4+	0.2−	2000 03 03	704	0.5+	0.1−				

2000 CN₂₆ = 1998 SC₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	27.55570		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.21428438	ω	305.15558	−0.41867480	−0.90811817
a	2.7657253	Ω	169.59069	+0.84316877	−0.39105793
e	0.0693396	i	1.81658	+0.33730970	−0.14964987
P	4.60	H	14.8	G 0.15	U 4

2000 MAR. 20

M.P.C. 39377

2000 02 04	704	1.2+	1.5+	2000 02 29	704	0.6−	0.3−	2000 03 09	704	0.3+	0.0
2000 02 04	704	0.1+	0.6+	2000 02 29	704	0.8−	0.0	2000 03 09	704	0.0	0.2−
2000 02 04	704	0.5+	0.3−	2000 03 03	704	0.2−	0.1+				
2000 02 04	704	0.6+	0.3−	2000 03 03	704	0.8+	0.7−				

2000 CS₂₆ = 1992 DQ₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	303.63350		(2000.0)	P	Q
<i>n</i>	0.24318683	ω	317.36153	−0.87247935	+0.48743009
<i>a</i>	2.5420028	Ω	251.84057	−0.43797065	−0.81136621
<i>e</i>	0.0683079	<i>i</i>	2.08204	−0.21670603	−0.32264032
<i>P</i>	4.05	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1992 02 29	809	0.3−	0.4−	2000 02 04	704	0.1−	0.3−	2000 02 29	704	0.5+	0.1+
1992 03 03	809	0.2−	0.3+	2000 02 04	704	0.4−	0.1+	2000 02 29	704	0.3+	0.5−
1992 03 05	809	0.6+	0.1+	2000 02 04	704	0.0	0.3−	2000 02 29	704	0.1+	0.1+
1992 03 08	809	0.6−	1.1−	2000 02 04	704	0.3+	0.0	2000 02 29	704	0.3+	0.3−
1993 07 23	809	0.8−	1.1+	2000 02 12	704	0.1−	0.8+	2000 03 03	704	0.3+	0.1−
1993 07 23	809	0.5+	0.2+	2000 02 12	704	0.2+	0.3+	2000 03 03	704	0.7+	0.2−
1993 07 23	809	0.1+	0.2−	2000 02 12	704	0.3−	0.7+	2000 03 03	704	0.2+	0.2+
2000 02 02	704	0.3−	0.2+	2000 02 12	704	0.0	0.5+	2000 03 03	704	0.2+	0.3+
2000 02 02	704	0.7−	0.2+	2000 02 27	703	0.4+	1.6−	2000 03 03	704	0.0	0.5+
2000 02 02	704	0.3−	0.3+	2000 02 27	703	0.2−	0.1−	2000 03 05	704	0.5+	0.0
2000 02 02	704	0.3−	1.0+	2000 02 27	703	0.1+	0.2−	2000 03 05	704	0.1+	0.1−
2000 02 02	704	0.3−	0.6+	2000 02 27	703	0.5−	0.3−	2000 03 05	704	0.1+	0.3−
2000 02 04	704	0.3−	0.7+	2000 02 29	704	0.2+	0.3+	2000 03 05	704	0.2+	0.6−

2000 CU₂₆ = 1978 PZ = 1985 UE₅ = 1985 VF₅ = 1991 KS = 1998 MC₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	130.90040		(2000.0)	P	Q
<i>n</i>	0.29461937	ω	187.93225	+0.99927067	+0.03683494
<i>a</i>	2.2368070	Ω	169.94031	−0.03110300	+0.93806586
<i>e</i>	0.2324520	<i>i</i>	3.30356	−0.02215257	+0.34449329
<i>P</i>	3.35	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1978 08 08	095	(0.3+	3.3+)	2000 01 07	704	0.2−	0.1−	2000 02 11	691	0.4−	0.9−
1985 10 22	095	0.4+	2.0+	2000 01 07	704	0.3+	0.4+	2000 02 27	703	0.1−	0.5+
1985 11 11	095	0.6−	0.7−	2000 01 07	704	0.2−	0.7−	2000 02 27	703	0.8+	0.3+
1991 05 17	809	0.0	0.3+	2000 01 07	704	0.3+	0.8−	2000 02 27	703	0.2−	0.2+
1991 05 17	809	0.6−	0.6+	2000 01 07	704	0.4−	2.0−	2000 02 27	703	1.1−	0.3+
1991 05 17	809	0.5+	0.9−	2000 02 02	704	0.5+	0.4+	2000 02 29	704	0.2+	0.5−
1998 06 24	704	0.1−	0.7+	2000 02 02	704	0.8+	0.0	2000 02 29	704	0.0	0.0
1998 06 24	704	0.6+	0.6−	2000 02 02	704	0.1+	0.4+	2000 02 29	704	0.9+	0.0
1998 06 24	704	0.5−	1.1+	2000 02 02	704	0.6+	0.2+	2000 02 29	704	0.7−	0.1+
1998 06 24	704	1.1+	1.2+	2000 02 02	704	0.6+	0.2+	2000 02 29	704	0.4+	0.3+
1998 06 24	704	1.0+	1.4+	2000 02 04	704	0.5−	0.8+	2000 03 03	704	0.2−	0.3+
1998 06 26	704	0.3+	0.2+	2000 02 04	704	0.2−	1.0+	2000 03 03	704	0.5+	0.5+
1998 06 26	704	0.1−	0.3−	2000 02 04	704	0.1+	1.1+	2000 03 03	704	0.0	0.1+
1998 06 26	704	1.4+	0.3+	2000 02 04	704	0.0	0.8+	2000 03 03	704	0.0	0.1+
1998 06 26	704	1.1+	0.5−	2000 02 04	704	0.2+	0.8+	2000 03 03	704	0.4+	0.1−
1998 06 26	704	0.3+	0.7−	2000 02 08	691	0.1−	0.5−	2000 03 05	704	0.4−	0.0
1998 07 21	704	(2.9−	0.2+)	2000 02 08	691	0.4−	0.7−	2000 03 05	704	0.2−	0.8+
1998 07 21	704	1.6−	0.0	2000 02 08	691	0.2−	0.6−	2000 03 05	704	0.4−	0.4+
1998 07 21	704	1.7−	0.4−	2000 02 11	691	0.3−	0.8−	2000 03 05	704	0.3+	0.2+
1998 07 21	704	1.6−	0.6−	2000 02 11	691	0.5−	0.9−	2000 03 05	704	0.1+	0.0

2000 CV₂₆ = 1998 XS₆₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	249.56964		(2000.0)	P	Q
<i>n</i>	0.21371218	ω	315.45316	+0.01592132	+0.98688113
<i>a</i>	2.7706598	Ω	314.71947	−0.84265807	−0.07324859
<i>e</i>	0.1367945	<i>i</i>	13.06789	−0.53821360	+0.14387590
<i>P</i>	4.61	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 08 30	566	0.3−	0.9+	2000 02 02	704	0.4+	0.4+	2000 02 27	703	0.1−	0.4−
1997 08 30	566	0.8−	1.3+	2000 02 02	704	0.6+	0.5+	2000 02 27	703	0.0	0.2+
1997 08 30	566	0.9−	0.9+	2000 02 04	704	0.2−	0.4−	2000 02 27	703	0.1+	0.3−
1998 11 16	704	0.2−	0.7−	2000 02 04	704	0.0	0.7+	2000 02 29	704	0.4+	0.7−
1998 11 16	704	0.5−	1.6−	2000 02 04	704	0.2−	0.1−	2000 02 29	704	0.3+	0.1−
1998 11 16	704	1.0+	1.0+	2000 02 04	704	0.2−	0.9−	2000 02 29	704	0.7+	0.5+
1998 11 16	704	(4.2−	2.0−)	2000 02 04	704	0.1−	0.6−	2000 02 29	704	0.0	0.3−
1998 12 14	704	1.1+	1.0−	2000 02 05	695	0.5−	0.1+	2000 02 29	704	0.2+	0.1+
1998 12 14	704	0.8+	0.3−	2000 02 05	695	0.6−	0.5+	2000 03 03	704	0.6+	0.1+
1998 12 14	704	0.4+	1.5+	2000 02 06	704	0.7−	0.2+	2000 03 03	704	0.3−	1.0+
1998 12 14	704	(0.8−	2.6−)	2000 02 06	704	0.0	0.5+	2000 03 03	704	0.2+	0.3−
1998 12 17	704	0.2−	0.2−	2000 02 06	704	0.5−	0.3+	2000 03 03	704	0.1+	0.4+
1998 12 17	704	(0.7+	2.4−)	2000 02 06	704	0.2−	0.6+	2000 03 03	704	0.2+	0.6+
1998 12 17	704	1.4−	0.1+	2000 02 06	704	0.6−	0.9+	2000 03 05	704	0.3+	0.4−
1998 12 17	704	1.1−	0.2−	2000 02 08	704	0.6+	0.8−	2000 03 05	704	0.2+	0.7−
2000 02 02	704	0.5−	1.7+	2000 02 08	704	0.8+	0.8+	2000 03 05	704	0.7+	0.6−
2000 02 02	704	0.4+	0.9+	2000 02 08	704	(3.1+	2.1+)	2000 03 05	704	0.0	0.5−
2000 02 02	704	0.1+	0.0	2000 02 27	703	0.2−	0.5+	2000 03 05	704	0.4+	0.7−

2000 CZ₂₆ = 2000 AE₁₄₂ = 1998 XA₈₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	226.98850		(2000.0)	P	Q
<i>n</i>	0.22773767	ω	136.94373	+0.41490252	+0.90672661
<i>a</i>	2.6557028	Ω	157.24978	−0.87880685	+0.42085724
<i>e</i>	0.2426745	<i>i</i>	11.26092	−0.23569986	+0.02694502
<i>P</i>	4.33	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 08 30	566	0.1−	0.6+	2000 01 05	704	0.2−	0.6−	2000 02 12	704	0.1+	1.2−
1997 08 30	566	0.2+	0.8+	2000 01 05	704	0.1−	0.3+	2000 02 12	704	0.2+	0.2−
1997 08 30	566	0.2+	0.7+	2000 01 05	704	0.2−	0.2−	2000 02 12	704	0.2+	0.5+
1997 10 29	566	0.2−	0.2−	2000 01 05	704	0.2−	0.9+	2000 02 29	704	0.0	0.3+
1997 10 29	566	0.2−	0.3−	2000 01 08	704	0.0	0.5−	2000 02 29	704	0.2−	0.4+
1997 10 29	566	0.4−	0.7−	2000 01 08	704	0.1−	0.1+	2000 02 29	704	0.1+	0.3+
1998 12 15	704	0.8−	0.2−	2000 01 08	704	0.2−	0.3−	2000 02 29	704	0.4−	0.2+
1998 12 15	704	0.9−	0.3−	2000 01 08	704	0.6+	0.4−	2000 02 29	704	0.4−	0.4+
1998 12 15	704	0.5−	0.4−	2000 01 08	704	0.6−	0.6−	2000 03 03	704	0.2−	0.2+
1998 12 15	704	0.9+	0.5−	2000 02 02	704	0.1−	0.2+	2000 03 03	704	0.2−	0.0
1998 12 15	704	0.1+	0.1−	2000 02 02	704	0.1+	0.2−	2000 03 03	704	0.0	0.3+
1998 12 22	704	0.8+	1.1+	2000 02 02	704	0.0	0.0	2000 03 03	704	0.0	0.3+
1998 12 22	704	0.2+	0.0	2000 02 02	704	0.2−	0.2+	2000 03 03	704	0.4−	0.1−
1998 12 22	704	0.8−	0.1−	2000 02 02	704	0.2+	0.6+	2000 03 05	704	0.6+	0.3+
1998 12 22	704	1.9+	1.4+	2000 02 04	704	0.2−	0.1−	2000 03 05	704	0.2+	0.0
1998 12 22	704	(2.3+	0.2+)	2000 02 04	704	0.0	0.1+	2000 03 05	704	0.1−	0.3+
1999 01 14	699	0.2−	0.0	2000 02 04	704	0.1−	0.1−	2000 03 05	704	0.1+	0.4+
1999 01 14	699	0.3−	0.2+	2000 02 04	704	0.4−	0.1−	2000 03 05	704	0.0	0.5+
1999 01 14	699	0.3−	0.5−	2000 02 04	704	0.3−	0.4−				
2000 01 05	704	0.9+	0.3+	2000 02 12	704	1.3+	0.6−				

2000 CB₂₇ = 1993 ST₁₃ = 1998 VU₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	92.38815		(2000.0)	P	Q
n	0.21069064	ω	232.40594	+0.66314531	-0.74845398
a	2.7970865	Ω	176.02973	+0.71604086	+0.63148052
e	0.0449442	i	6.14476	+0.21799950	+0.20260551
P	4.68	H	14.2	G 0.15	U 4

M.P.C. 39378

1998 11 10	704	0.5+	0.6+	2000 02 02	704	0.2−	0.0	2000 02 13	704	1.2+	0.2+
1998 11 10	704	1.6+	0.1−	2000 02 02	704	0.2−	0.5+	2000 02 13	704	0.0	0.1−
1998 11 10	704	0.7−	0.7+	2000 02 02	704	0.2+	0.2+	2000 02 27	703	1.0−	0.2−
1998 11 10	704	0.9−	0.5−	2000 02 04	704	0.9+	0.8+	2000 02 27	703	0.4−	0.3−
1998 11 11	704	1.7−	1.2−	2000 02 04	704	0.6+	0.1+	2000 02 27	703	0.7−	0.1+
1998 11 11	704	0.4+	0.2+	2000 02 04	704	0.5+	0.1−	2000 02 27	703	0.0	0.7−
1998 11 11	704	0.1−	0.7−	2000 02 04	704	0.3+	0.3−				
1998 11 11	704	0.9+	0.2+	2000 02 04	704	0.5+	1.1−				

2000 CG₂₇ = 1998 SH₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 354.71212			(2000.0)			Williams			<i>Q</i>		
<i>n</i> 0.28847129			<i>ω</i> 335.87591			<i>P</i> −0.89821617			<i>Q</i> −0.43954687		
<i>a</i> 2.2684767			<i>Ω</i> 178.04377			<i>P</i> +0.41426702			<i>Q</i> −0.84843310		
<i>e</i> 0.0481370			<i>i</i> 4.20565			<i>P</i> +0.14693724			<i>Q</i> −0.29488950		
<i>P</i> 3.42			<i>H</i> 15.6			<i>G</i> 0.15			<i>U</i> 4		

Residuals in seconds of arc

1998 09 18	704	0.5+	1.6−	2000 02 02	704	0.3+	0.0	2000 02 29	704	0.2−	0.3+
1998 09 18	704	1.2+	0.5−	2000 02 02	704	0.2−	0.4−	2000 02 29	704	0.2+	0.2−
1998 09 18	704	1.0+	1.0+	2000 02 02	704	0.5+	1.2−	2000 02 29	704	0.2−	0.4+
1998 09 18	704	(6.1−	0.9−)	2000 02 04	704	0.1−	0.1+	2000 02 29	704	0.5−	0.1−
1998 09 20	691	0.3+	0.5+	2000 02 04	704	0.2−	0.9+	2000 02 29	704	0.4−	0.3+
1998 09 20	691	0.1+	0.1+	2000 02 04	704	0.1−	0.0	2000 03 03	704	0.2+	0.2−
1998 09 21	691	0.1−	0.1−	2000 02 04	704	0.2−	0.3−	2000 03 03	704	0.3+	0.0
1998 09 21	691	0.0	0.0	2000 02 04	704	0.6+	0.9+	2000 03 03	704	0.1−	0.1−
1998 09 21	691	0.1−	0.3+	2000 02 12	704	1.5+	0.8−	2000 03 03	704	0.2+	0.4−
1998 09 23	691	0.9−	0.4+	2000 02 12	704	0.1−	0.7+	2000 03 03	704	0.1+	0.7−
1998 09 23	691	0.6−	0.1+	2000 02 12	704	1.2−	1.6+	2000 03 05	704	0.2+	0.2−
1998 09 23	691	0.8−	0.3+	2000 02 12	704	0.3−	1.4+	2000 03 05	704	0.6+	0.4+
1998 09 26	691	0.1−	0.1−	2000 02 27	703	0.6−	0.9−	2000 03 05	704	0.5+	0.0
1998 09 26	691	0.1−	0.4−	2000 02 27	703	0.0	0.2−	2000 03 05	704	0.2+	0.1−
1998 09 26	691	0.2−	0.1−	2000 02 27	703	0.3−	0.2+	2000 03 05	704	0.2−	0.0
2000 02 02	704	0.1−	1.1−	2000 02 27	703	0.5−	0.6−				

2000 CT₂₇ = 1990 FB₂ = 1998 QQ₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 71.71454			(2000.0)			Williams			<i>Q</i>		
<i>n</i> 0.28861188			<i>ω</i> 267.18006			<i>P</i> +0.45524615			<i>Q</i> −0.88936807		
<i>a</i> 2.2677399			<i>Ω</i> 155.60061			<i>P</i> +0.85205323			<i>Q</i> +0.42143618		
<i>e</i> 0.1199568			<i>i</i> 5.85429			<i>P</i> +0.25837226			<i>Q</i> +0.17724554		
<i>P</i> 3.41			<i>H</i> 13.8			<i>G</i> 0.15			<i>U</i> 2		

Residuals in seconds of arc

1990 03 17	046	1.7+	1.3−	2000 01 07	704	0.5+	0.5−	2000 02 26	691	0.3−	0.8+
1990 03 17	046	1.9−	0.7+	2000 01 07	704	0.8−	0.5−	2000 02 27	703	0.0	0.2+
1998 08 17	704	0.1+	0.4+	2000 01 07	704	1.1−	0.3−	2000 02 27	703	0.0	0.3+
1998 08 17	704	(0.4−	2.8−)	2000 01 08	704	0.9+	0.3+	2000 02 27	703	0.1−	0.3+
1998 08 17	704	0.6+	0.0	2000 01 08	704	0.9+	0.9+	2000 02 27	703	0.2+	0.0
1998 08 17	704	(2.2−	0.5−)	2000 01 08	704	0.9−	0.1−	2000 02 29	704	0.0	0.1+
1998 08 23	704	0.1−	0.3+	2000 01 08	704	0.1−	1.1+	2000 02 29	704	0.1+	0.2−
1998 08 23	704	0.1−	1.5+	2000 01 08	704	1.0−	1.8+	2000 02 29	704	0.3+	0.6−
1998 08 23	704	1.8+	1.3+	2000 01 09	704	0.0	0.4−	2000 02 29	704	0.6+	0.7−
1998 08 23	704	(0.9+	2.2+)	2000 01 09	704	0.5+	0.1+	2000 02 29	704	0.3+	0.7−
1998 09 14	699	1.5−	0.5+	2000 01 09	704	(1.1−	2.7+)	2000 03 02	691	0.2+	0.1−
1998 09 14	699	0.9−	0.5+	2000 02 02	704	0.7+	0.9−	2000 03 02	691	0.0	0.2−
1998 09 14	699	1.8−	0.4+	2000 02 02	704	0.3−	0.1+	2000 03 02	691	0.1+	0.2−
1999 11 06	703	0.7−	0.9−	2000 02 02	704	0.2−	0.2+	2000 03 03	704	0.0	0.1−
1999 11 06	703	0.3−	0.3+	2000 02 02	704	0.3−	0.2+	2000 03 03	704	0.2−	0.2+
1999 11 06	703	0.6−	0.8−	2000 02 02	704	0.2−	0.1−	2000 03 03	704	0.3−	0.2+
1999 11 06	703	0.5−	0.8−	2000 02 04	704	0.6+	0.1+	2000 03 03	704	0.2−	0.2+
1999 12 05	703	0.7+	0.3+	2000 02 04	704	0.3+	0.3+	2000 03 03	704	0.3−	0.0
1999 12 05	703	0.2+	0.9+	2000 02 04	704	0.4+	0.4+	2000 03 05	704	0.2−	0.3+
1999 12 05	704	0.3+	0.9−	2000 02 04	704	0.1+	0.2+	2000 03 05	704	0.1−	0.5+
1999 12 05	703	0.7+	0.2+	2000 02 04	704	0.3+	0.0	2000 03 05	704	0.3−	0.5+
1999 12 05	704	0.2+	0.8−	2000 02 12	704	0.1+	0.1+	2000 03 05	704	0.4−	0.5+

2000 MAR. 20

1999 12 05	703	1.0+	0.3+	2000 02 12	704	0.3−	0.3+	2000 03 05	704	0.1+	1.0+
1999 12 05	704	0.2+	0.5−	2000 02 12	704	0.4−	0.7+	2000 03 09	704	0.3+	0.3+
1999 12 05	704	0.7+	0.4−	2000 02 12	704	0.6−	0.8+	2000 03 09	704	0.2+	0.5+
1999 12 05	704	0.4+	0.6−	2000 02 12	704	0.3−	0.7+	2000 03 09	704	0.3+	0.1+
1999 12 16	699	1.5−	0.5+	2000 02 13	704	(1.3+	2.1−)	2000 03 09	704	0.3+	0.1+
1999 12 16	699	0.5−	1.4+	2000 02 13	704	0.8+	0.3−	2000 03 09	704	0.0	0.5+
1999 12 16	699	0.1−	1.0+	2000 02 13	704	0.1−	0.0	2000 03 11	608	0.1−	0.5−
2000 01 07	704	0.4+	1.0−	2000 02 26	691	0.1−	0.4−	2000 03 11	608	0.2−	0.0
2000 01 07	704	0.9+	0.4−	2000 02 26	691	0.1−	0.4−	2000 03 11	608	0.1−	1.0−

2000 CU₂₇ = 1998 SB₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 6.92066			(2000.0)			Williams			<i>Q</i>		
<i>n</i> 0.24137846			<i>ω</i> 316.27652			<i>P</i> −0.75941422			<i>Q</i> −0.65060562		
<i>a</i> 2.5546832			<i>Ω</i> 183.13738			<i>P</i> +0.60439151			<i>Q</i> −0.70459084		
<i>e</i> 0.1215961			<i>i</i> 1.61273			<i>P</i> +0.24083386			<i>Q</i> −0.28330916		
<i>P</i> 4.08			<i>H</i> 15.6			<i>G</i> 0.15			<i>U</i> 5		

Residuals in seconds of arc

1998 09 19	691	0.2+	0.1+	2000 02 05	888	0.3−	0.3−	2000 03 02	691	0.5−	1.1−
1998 09 19	691	0.0	0.1+	2000 02 05	888	0.2+	0.2−	2000 03 02	691	0.5−	0.7−
1998 09 19	691	0.3+	0.0	2000 02 05	888	0.4−	0.1+	2000 03 03	704	0.2−	0.7−
1998 09 26	691	0.1+	0.4+	2000 02 05	888	0.1−	0.2+	2000 03 03	704	0.3+	0.4−
1998 09 26	691	0.5−	0.5−	2000 02 08	691	0.6−	0.4−	2000 03 03	704	0.7+	0.3−
1998 09 26	691	0.0	0.1−	2000 02 08	691	0.7−	0.4−	2000 03 03	704	0.7+	0.4+
2000 02 02	704	1.0−	0.8+	2000 02 08	691	0.7−	0.5−	2000 03 03	704	0.3+	0.3−
2000 02 02	704	0.1+	0.4+	2000 02 27	703	0.6−	0.3+	2000 03 05	704	0.6+	0.5+
2000 02 02	704	0.3−	0.5−	2000 02 27	703	0.4−	0.3−	2000 03 05	704	0.0	0.3+
2000 02 02	704	0.6+	1.0−	2000 02 27	703	0.2−	0.4−	2000 03 05	704	0.9+	0.1−
2000 02 04	704	1.0+	1.4+	2000 02 27	703	0.3−	0.2−	2000 03 05	704	0.8+	1.1+
2000 02 04	704	0.2+	0.8+	2000 02 29	704	0.3−	0.2−	2000 03 05	704	0.4+	0.9+
2000 02 04	704	1.6+	0.7+	2000 02 29	704	0.1+	1.1−	2000 03 11	704	0.0	0.0
2000 02 04	704	0.1+	0.2+	2000 02 29	704	0.7−	0.4−	2000 03 11	704	0.0	0.8+
2000 02 04	888	0.2+	0.4+	2000 02 29	704	0.2−	0.0	2000 03 11	704	0.9−	0.1+
2000 02 04	888	0.5+	0.6−	2000 02 29	704	0.3+	0.3−	2000 03 11	704	0.1+	0.8+
2000 02 04	888	0.3−	0.1+	2000 03 02	691	0.3−	0.6−	2000 03 11	704	0.3−	0.9+

2000 MAR. 20

M.P.C. 39379

2000 CD₂₈ = 1998 SB₉₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	43.07998	(2000.0)	P		Q	
<i>n</i>	0.23764113	ω	304.84355	-0.11539974	-0.99103185	
<i>a</i>	2.5813980	Ω	151.55648	+0.95128452	-0.12978323	
<i>e</i>	0.1069165	<i>i</i>	8.13162	+0.28590324	+0.03181481	
<i>P</i>	4.15	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1998 09 17	699	0.1+	0.4-	2000 02 08	704	0.1+	0.4+	2000 03 02	691	0.4-	0.2-
1998 09 17	699	1.2+	1.9-	2000 02 08	704	0.0	0.3+	2000 03 02	691	0.1+	0.4-
1998 09 17	699	0.2+	0.1+	2000 02 10	557	0.1-	0.4+	2000 03 02	691	0.3-	0.7-
1998 09 26	704	0.5-	0.1-	2000 02 10	557	0.7-	0.1-	2000 03 02	691	0.1+	0.4-
1998 09 26	704	0.9+	0.3+	2000 02 10	557	0.1+	0.5-	2000 03 02	691	0.3+	0.5-
1998 09 26	704	0.6+	0.0	2000 02 11	704	0.5-	0.1-	2000 03 02	691	0.3+	0.5-
1998 09 26	704	0.5-	0.4-	2000 02 11	704	0.5+	0.1+	2000 03 02	691	0.4-	0.4-
1998 09 26	704	0.1+	0.8-	2000 02 11	704	0.3+	0.3-	2000 03 02	691	0.3-	0.4-
1998 09 27	704	0.6-	0.5+	2000 02 11	704	0.0	0.6-	2000 03 02	691	0.4-	0.5-
1998 09 27	704	1.3-	0.7+	2000 02 12	704	1.1+	0.5-	2000 03 03	704	0.1+	0.3+
1998 09 27	704	1.1-	0.5+	2000 02 12	704	0.7+	0.2-	2000 03 03	704	0.3-	0.9+
1998 09 27	704	1.4+	0.3+	2000 02 12	704	0.1+	0.0	2000 03 03	704	0.4+	0.0
1998 09 27	704	0.3-	1.0+	2000 02 12	704	0.4+	0.0	2000 03 03	704	0.6+	0.0
2000 02 02	704	0.4+	0.3+	2000 02 12	704	0.0	0.3+	2000 03 03	704	0.3+	0.5-
2000 02 02	704	0.0	0.5-	2000 02 26	691	0.2-	0.4-	2000 03 05	704	0.4-	0.1-
2000 02 02	704	0.2-	0.4-	2000 02 26	691	0.1+	0.4-	2000 03 05	704	0.9-	0.0
2000 02 02	704	0.4+	0.3-	2000 02 26	691	0.0	0.3-	2000 03 05	704	0.2+	0.2-
2000 02 02	704	0.9-	0.9-	2000 02 27	703	0.4-	0.0	2000 03 05	704	0.1+	0.0
2000 02 04	704	0.1+	0.2+	2000 02 27	703	0.3+	0.5+	2000 03 05	704	0.1+	0.1-
2000 02 04	704	0.1-	0.8+	2000 02 27	703	0.6-	0.2+	2000 03 11	704	0.2-	0.1+
2000 02 04	704	0.2+	0.5+	2000 02 27	703	0.2+	0.3-	2000 03 11	704	0.3+	0.4+
2000 02 04	704	0.4+	0.5-	2000 02 29	704	0.0	0.5+	2000 03 11	704	0.1+	0.1-
2000 02 04	704	0.2-	0.2+	2000 02 29	704	0.1+	0.1+	2000 03 11	704	0.3-	0.3-
2000 02 08	704	0.9-	0.9+	2000 02 29	704	0.3-	0.7+	2000 03 11	691	1.0+	1.3+
2000 02 08	704	0.2+	0.2+	2000 02 29	704	0.1+	0.4+	2000 03 11	691	0.3-	0.4-
2000 02 08	704	0.7-	1.2+	2000 02 29	704	0.2-	0.7+	2000 03 11	691	0.1+	0.1-

2000 CE₂₈ = 1990 QT₅ = 1990 QG₁₈ = 1997 LP₁₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	231.10721	(2000.0)	P		Q	
<i>n</i>	0.26433844	ω	117.42982	+0.33184468	+0.94331576	
<i>a</i>	2.4045243	Ω	171.94432	-0.87961456	+0.31167273	
<i>e</i>	0.1582444	<i>i</i>	2.40179	-0.34081863	+0.11408545	
<i>P</i>	3.73	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i> 1

Residuals in seconds of arc

1990 08 22	675	0.1-	0.7-	1998 11 24	699	0.9+	0.7+	2000 02 12	704	0.3-	0.3+
1990 08 22	675	0.1+	0.4-	2000 01 05	704	0.7+	0.4+	2000 02 12	704	0.4+	0.0
1990 08 28	095	(1.9+	2.1+)	2000 01 05	704	0.6-	0.6-	2000 02 12	704	0.1+	0.3+
1990 08 28	095	(1.9-	3.0-)	2000 01 05	704	0.8-	0.7-	2000 02 12	704	0.1-	1.0+
1990 08 29	675	(2.7+	0.4-)	2000 02 02	704	0.1-	0.4+	2000 02 12	704	0.6+	1.4+
1990 08 29	675	0.8+	1.1-	2000 02 02	704	0.2-	0.2-	2000 02 29	704	0.0	0.0
1997 06 08	809	0.1+	0.9-	2000 02 02	704	0.7+	0.2-	2000 02 29	704	0.1-	0.3-
1997 06 08	809	0.6-	0.6-	2000 02 02	704	0.1-	0.9-	2000 02 29	704	0.2+	0.2+
1997 06 08	809	0.1-	1.3-	2000 02 02	704	0.3-	1.5-	2000 02 29	704	0.2-	0.2+
1997 06 09	809	(0.2-	2.8-)	2000 02 04	704	0.9+	0.1+	2000 02 29	704	0.6+	0.2+
1997 06 09	809	(0.6+	3.1-)	2000 02 04	704	0.8+	0.5+	2000 03 03	704	0.1+	0.1-
1997 06 09	809	(0.1+	2.7-)	2000 02 04	704	0.0	0.2+	2000 03 03	704	0.0	0.1-
1998 11 11	699	0.2-	0.2+	2000 02 04	704	0.5+	0.1+	2000 03 03	704	0.3-	0.3-
1998 11 11	704	1.5-	0.3-	2000 02 08	704	0.9-	0.1+	2000 03 03	704	0.1-	0.5-
1998 11 11	699	1.0-	1.4-	2000 02 08	704	0.3-	0.0	2000 03 03	704	0.4+	0.6-
1998 11 11	704	1.5+	0.6-	2000 02 08	704	0.7-	0.0	2000 03 05	704	0.1+	0.5-
1998 11 11	699	0.7+	0.3-	2000 02 08	704	0.3+	0.4+	2000 03 05	704	0.1-	0.3-
1998 11 11	704	(4.4-	0.2+)	2000 02 08	704	0.3+	0.2-	2000 03 05	704	0.5+	0.5-
1998 11 18	704	0.4-	0.1-	2000 02 10	557	0.3-	0.7-	2000 03 05	704	0.1-	0.2+
1998 11 18	704	0.9+	0.8-	2000 02 10	557	0.6-	0.3-	2000 03 11	704	0.0	0.2-

1998 11 18	704	0.8+	0.1+	2000 02 10	557	0.5-	0.1-	2000 03 11	704	0.2+	0.0
1998 11 18	704	0.2-	1.6-	2000 02 11	704	0.7+	0.9+	2000 03 11	704	0.0	0.1-
1998 11 18	704	(4.5-	0.5+)	2000 02 11	704	0.2-	0.0	2000 03 11	704	0.7-	0.4-
1998 11 24	699	1.0-	1.4+	2000 02 11	704	0.6+	0.6-	2000 03 11	704	0.8-	0.5-
1998 11 24	699	0.1+	0.0	2000 02 11	704	1.4-	0.2-				

2000 CS₂₈ = 1998 SH₅₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	8.03101	(2000.0)	P		Q	
<i>n</i>	0.25929501	ω	308.36778	-0.75739879	-0.65291277	
<i>a</i>	2.4356036	Ω	190.87712	+0.61035759	-0.70402426	
<i>e</i>	0.1290073	<i>i</i>	2.18970	+0.23197129	-0.27938281	
<i>P</i>	3.80	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 28	691	0.3+	0.4-	2000 02 12	704	(2.2+	0.3+)	2000 03 03	704	0.2-	0.3-
1998 09 28	691	0.6+	0.1+	2000 02 12	704	0.3+	1.4+	2000 03 03	704	0.1+	0.1-
1998 09 28	691	0.3+	0.3-	2000 02 12	704	0.1+	0.7-	2000 03 03	704	0.1+	0.2-
1998 10 01	691	0.5-	0.3+	2000 02 12	704	0.9+	0.9+	2000 03 05	704	0.3+	0.3-
1998 10 01	691	0.6-	0.3+	2000 02 27	703	0.5-	0.2-	2000 03 05	704	0.3+	0.2-
1998 10 01	691	0.1+	0.1+	2000 02 27	703	1.3-	0.1-	2000 03 05	704	0.2+	0.3+
2000 02 02	704	0.3-	0.4-	2000 02 27	703	0.9-	0.6-	2000 03 05	704	0.2+	0.3-
2000 02 02	704	0.1+	0.1+	2000 02 27	703	0.1-	0.4+	2000 03 05	704	0.5+	0.8+
2000 02 02	704	0.0	0.1+	2000 02 29	704	0.8+	0.7+	2000 03 11	704	0.3-	0.3-
2000 02 02	704	0.1+	0.0	2000 02 29	704	0.4+	0.9+	2000 03 11	704	0.0	0.2-
2000 02 02	704	0.4+	0.7+	2000 02 29	704	0.0	0.0	2000 03 11	704	0.4-	0.2+
2000 02 04	704	1.2-	0.9-	2000 02 29	704	1.1+	0.3-	2000 03 11	704	0.4-	0.1+
2000 02 04	704	1.2-	0.6+	2000 02 29	704	0.7+	0.1-	2000 03 11	704	0.2-	0.2+
2000 02 04	704	0.8+	0.1+	2000 03 03	704	0.2-	0.1+				
2000 02 04	704	0.0	1.7-	2000 03 03	704	0.2-	0.6-				

2000 CX₂₈ = 1992 EB₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	241.41007	(2000.0)	P		Q	
<i>n</i>	0.24152493	ω	118.33777	+0.22756138	+0.97341621	
<i>a</i>	2.5536502	Ω	164.74900	-0.92445757	+0.22435474	
<i>e</i>	0.1724502	<i>i</i>	5.67539	-0.30593140	+0.04610675	
<i>P</i>	4.08	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1992 03 02	809	1.8-	0.3-	2000 02 02	704	0.2+	0.2-	2000 03 03	704	0.6+	0.8-
1992 03 06	809	(0.1-	3.6+)	2000 02 02	704	0.1+	0.9+	2000 03 03	704	0.3+	0.4+
1992 03 08	809	1.3+	0.3-	2000 02 02	704	0.6+	0.6-	2000 03 03	704	0.5+	0.5+
1992 03 09	809	0.4+	0.3+	2000 02 02	704	0.0	1.5+	2000 03 03	704	0.4+	0.1+
2000 01 08	704	0.4-	0.1-	2000 02 04	704	0.0	0.8-	2000 03 03	704	0.3+	0.5+
2000 01 08	704	0.3+	0.6-	2000 02 04	704	0.3-	0.2-	2000 03 05	704	1.0-	0.1+
2000 01 08	704	0.1+	1.4-	2000 02 04	704	0.2-	0.0	2000 03 05	704	0.5-	0.2+
2000 01 08	704	0.7-	0.3-	2000 02 04	704	0.0	0.9+	2000 03 05	704	0.2-	0.7-
2000 02 02	704	1.0+	0.6-	2000 02 04	704	0.5-	0.5+	2000 03 05	704	1.3-	0.4-
2000 02 02	704	0.0	0.8+	2000 02 29	704	0.1+	0.1+	2000 03 11	704	0.0	0.3+
2000 02 02	704	0.2+	0.1+	2000 02 29	704	0.1-	0.2-	2000 03 11	704	0.4-	0.0
2000 02 02	704	0.0	0.5+	2000 02 29	704	0.1+	0.1+	2000 03 11	704	0.2-	0.2-
2000 02 02	704	0.5+	0.5-	2000 02 29	704	0.2+	0.4+	2000 03 11	704	0.0	1.0-
2000 02 02	704	0.2-	0.5+	2000 02 29	704	0.1+	0.3+	2000 03 11	704	0.3+	0.3-

Residuals in seconds of arc

1992 08 08	010	0.4+	0.5+	2000 02 04	704	0.7+	0.4-	2000 03 03	704	0.1+	0.0
1992 08 08	010	0.6-	1.1+	2000 02 12	704	0.5-	0.1+	2000 03 05	704	0.6+	0.2+
1992 08 08	010	0.1+	0.6+	2000 02 12	704	0.7-	1.9+	2000 03 05	704	0.4-	0.3-
1992 08 09	010	0.0	0.8-	2000 02 12	704	1.4+	0.7-	2000 03 05	704	0.8+	0.8-
1992 08 09	010	0.1-	1.0-	2000 02 12	704	0.1-	0.6+	2000 03 05	704	0.1-	0.1+
1992 08 09	010	0.3+	0.4-	2000 02 12	704	0.5-	0.5+	2000 03 05	704	0.5-	0.4-
2000 02 02	704	0.6+	0.5+	2000 02 29	704	0.1+	0.1+	2000 03 11	704	1.0+	0.1-
2000 02 02	704	0.2-	0.6+	2000 02 29	704	0.7-	0.1-	2000 03 11	704	0.1-	0.6+
2000 02 02	704	0.3-	0.1-	2000 02 29	704	1.0-	0.8-	2000 03 11	704	0.1+	0.0
2000 02 02	704	0.2-	0.4-	2000 03 03	704	0.4+	0.1-	2000 03 11	704	0.1-	0.9+
2000 02 02	704	0.1-	0.8-	2000 03 03	704	0.0	0.3+	2000 03 11	704	0.5+	0.5-
2000 02 04	704	0.5+	0.4-	2000 03 03	704	0.9-	0.2-				
2000 02 04	704	0.5+	0.4-	2000 03 03	704	0.6-	0.2-				

2000 CK₂₉ = 1997 TS_s

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	299.01696		(2000.0)	P	Q
<i>n</i>	0.21351049	ω	51.87317	-0.63460594	+0.77283547
<i>a</i>	2.7724044	Ω	178.73522	-0.71988937	-0.59075378
<i>e</i>	0.1762015	<i>i</i>	2.07065	-0.28113090	-0.23180878
<i>P</i>	4.62	<i>H</i>	14.3	<i>G</i>	0.15

Residuals in seconds of arc

1996 05 21	566	0.4+	1.3+	2000 02 02	704	1.0+	0.6-	2000 02 13	704	0.7+	0.6+
1996 05 21	566	0.4+	1.2+	2000 02 02	704	0.3-	0.2-	2000 02 29	704	0.3+	0.1+
1996 05 21	566	0.1-	0.9+	2000 02 02	704	0.0	0.3-	2000 02 29	704	0.0	0.4+
1997 10 05	709	1.1-	0.8+	2000 02 02	704	1.4-	0.9-	2000 02 29	704	0.2-	0.3+
1997 10 05	709	0.6-	1.1+	2000 02 02	704	0.2-	0.1-	2000 02 29	704	0.4-	0.1+
1997 10 05	709	1.6-	0.8+	2000 02 04	704	0.0	0.6+	2000 02 29	704	0.1+	0.6-
1997 10 05	709	0.9-	0.7+	2000 02 04	704	0.6-	0.5+	2000 03 03	704	1.4-	0.2-
1997 10 05	709	1.3-	0.7+	2000 02 04	704	0.4-	1.2-	2000 03 03	704	0.0	0.2+
1997 10 05	709	0.9-	0.8+	2000 02 04	704	0.4-	0.5-	2000 03 03	704	0.3-	0.6+
1997 10 05	709	0.7-	0.9+	2000 02 04	704	0.1+	0.2+	2000 03 03	704	0.1+	0.5+
1997 10 06	709	0.9+	0.5+	2000 02 12	704	0.5+	1.4+	2000 03 05	704	0.2-	0.1+
1997 10 06	709	0.4+	0.5+	2000 02 12	704	0.0	1.5+	2000 03 05	704	0.6-	0.1+
1997 10 06	709	0.9+	0.5+	2000 02 12	704	1.2+	0.0	2000 03 05	704	0.1-	0.1-
1997 10 06	709	0.6+	0.6+	2000 02 12	704	0.5+	0.7+	2000 03 05	704	0.4+	0.3+
1997 10 06	709	0.9+	0.4+	2000 02 12	704	0.1-	0.8+	2000 03 05	704	1.3+	0.9+
1998 11 19	910	0.1+	0.2-	2000 02 13	704	(2.5+	1.0+)	2000 03 11	704	0.6+	0.0
1998 11 19	910	0.0	0.5-	2000 02 13	704	1.6+	1.2+	2000 03 11	704	0.0	0.1+
1998 11 19	910	0.1-	0.5+	2000 02 13	704	0.1+	0.1-	2000 03 11	704	0.2+	0.0

2000 CO₂₉ = 1993 RO₂₀ = 1997 TX

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	279.36862		(2000.0)	P	Q
<i>n</i>	0.22606640	ω	65.35083	-0.48384131	+0.87513488
<i>a</i>	2.6687755	Ω	175.69807	-0.82925380	-0.45624558
<i>e</i>	0.0846039	<i>i</i>	4.62159	-0.27970650	-0.16117978
<i>P</i>	4.36	<i>H</i>	13.5	<i>G</i>	0.15

Residuals in seconds of arc

1993 09 15	809(61.2-	15.6-)	1998 11 23	699	0.4-	1.0+	2000 02 04	704	0.5-	0.9+	
1993 09 15	809(61.2-	15.6-)	1998 11 23	699	0.0	0.6+	2000 02 12	704	0.8+	0.6+	
1993 09 15	809(60.9-	13.6-)	1998 11 23	699	0.5+	0.3+	2000 02 12	704	0.1+	0.7-	
1993 09 20	691	0.3-	0.7+	1998 11 24	704	0.5+	0.3+	2000 02 12	704	0.3+	0.2+
1993 09 20	691	0.0	0.4+	1998 11 24	704	(2.8+	1.7+)	2000 02 12	704	0.0	0.3+
1993 09 20	691	0.1+	0.5+	1998 11 24	704	0.1-	0.4+	2000 02 12	704	0.8-	1.1+
1993 09 22	809	1.2-	0.8-	1998 11 24	704	0.1+	0.9+	2000 02 13	704	(3.8-	3.4-)
1993 09 22	809	0.2+	1.0-	1998 11 24	704	(2.9-	1.7+)	2000 02 13	704	(3.1-	0.3-)
1993 09 22	809	0.5-	1.9-	1998 12 11	699	0.9+	0.8-	2000 02 13	704	0.7-	1.5+
1993 09 23	675	0.8+	0.8+	1998 12 11	699	0.5+	0.5-	2000 02 13	704	(1.4+	4.2+)
1993 09 23	675	0.8+	1.7+	1998 12 11	699	0.7-	0.2-	2000 02 29	704	0.2+	0.2-
1997 10 03	910	0.0	0.4+	1999 12 05	704	0.6-	0.8-	2000 02 29	704	0.2-	0.1-
1997 10 03	910	0.1-	0.4+	1999 12 05	704	1.0-	0.5-	2000 02 29	704	0.1-	0.2+
1997 10 03	910	0.1+	0.4+	1999 12 05	704	0.7-	0.3+	2000 02 29	704	0.1-	0.2+

1997 10 04	910	0.1-	0.2+	1999 12 05	704	0.5-	0.3+	2000 02 29	704	0.5-	0.3+
1997 10 04	910	0.5-	0.7+	1999 12 05	704	0.8-	0.4+	2000 03 03	704	0.2+	0.2+
1997 10 04	910	0.1-	0.5+	2000 02 02	704	0.3+	0.2+	2000 03 03	704	0.6+	0.5+
1998 10 20	699	0.0	0.1-	2000 02 02	704	0.2+	0.1+	2000 03 03	704	0.6+	0.2-
1998 10 20	699	0.4-	0.1-	2000 02 02	703	0.2-	0.2+	2000 03 03	704	0.6+	0.5-
1998 10 20	699	0.5-	0.6-	2000 02 02	704	0.5+	0.0	2000 03 03	704	0.8+	0.6-
1998 11 10	704	0.3+	0.1-	2000 02 02	703	0.1+	0.1+	2000 03 09	608	0.2+	1.0-
1998 11 10	704	1.0-	0.2+	2000 02 02	704	0.4+	0.0	2000 03 09	608	0.3+	0.9-
1998 11 10	704	(0.6+	2.9-)	2000 02 02	703	0.3-	0.3-	2000 03 09	608	0.1+	1.1-
1998 11 10	704	(2.3+	1.4-)	2000 02 02	703	0.1+	0.4-	2000 03 11	704	0.2+	0.0
1998 11 18	704	0.7+	0.2+	2000 02 02	704	0.8+	0.2-	2000 03 11	704	0.0	0.2+
1998 11 18	704	0.4+	0.7-	2000 02 04	704	0.1+	0.3+	2000 03 11	704	0.0	0.4+
1998 11 18	704	0.3-	0.3-	2000 02 04	704	0.1-	0.3-	2000 03 11	704	0.2-	0.7+
1998 11 18	704	0.3-	0.9-	2000 02 04	704	0.6+	0.3-	2000 03 11	704	0.2-	0.5+
1998 11 18	704	(2.4-	2.0-)	2000 02 04	704	1.0-	0.7+				

2000 CR₂₉ = 1998 RD₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	336.30313		(2000.0)	P	Q
<i>n</i>	0.27760519	ω	221.91334	-0.99516444	-0.08432037
<i>a</i>	2.3272926	Ω	313.17516	+0.09790900	-0.89254938
<i>e</i>	0.0274907	<i>i</i>	3.96108	-0.00784653	-0.44299626
<i>P</i>	3.55	<i>H</i>	14.8	<i>G</i>	0.15

Residuals in seconds of arc

1998 09 14	704	0.6+	1.7-	2000 02 02	704	0.3-	0.3+	2000 03 03	704	0.2+	0.1-
1998 09 14	704	0.9+	0.3-	2000 02 02	704	0.4-	0.3+	2000 03 03	704	0.1+	0.4+
1998 09 14	704	0.4-	0.1+	2000 02 02	704	0.1-	0.2+	2000 03 03	704	0.7+	0.5+
1998 09 15	699	0.3-	0.3+	2000 02 04	704	0.2-	0.3+	2000 03 03	704	0.6+	0.5+
1998 09 15	699	1.1-	0.1+	2000 02 04	704	0.6+	0.8-	2000 03 03	704	0.5+	0.5+
1998 09 15	699	1.3-	1.3+	2000 02 04	704	0.2+	0.1-	2000 03 05	704	0.3-	0.0
1998 09 18	704	0.4+	1.1-	2000 02 04	704	0.3-	0.3-	2000 03 05	704	0.9-	0.0
1998 09 18	704	1.9+	1.8+	2000 02 04	704	0.3+	0.3+	2000 03 05	704	0.2+	0.2-
1998 09 18	704	0.1+	0.4+	2000 02 12	704	(3.2-	2.1+)	2000 03 05	704	0.4+	0.5-
1998 09 18	704	(2.1-	1.1-)	2000 02 12	704	(0.7+	2.4-)	2000 03 05	704	0.3-	0.6-
1998 09 18	704	0.1-	0.4+	2000 02 12	704	(3.8+	3.8+)	2000 03 11	704	0.0	0.4-
1998 10 14	699	0.5+	0.0	2000 02 29	704	0.2+	0.3+	2000 03 11	704	0.5-	0.2+
1998 10 14	699	0.2-	0.3-	2000 02 29	704	0.0	0.1+	2000 03 11	704	0.3-	0.1-
1998 10 14	699	1.0-	0.8-	2000 02 29	704	0.3+	0.2-	2000 03 11	704	0.0	0.2+
2000 02 02	704	0.5-	0.0	2000 02 29	704	0.1+	0.1-	2000 03 11	704	0.1+	0.1-
2000 02 02	704	0.5-	0.5-	2000 02 29	704	0.0	0.0				

2000 CT₂₉ = 1998 WA₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	312.22202		(2000.0)	P	Q
<i>n</i>	0.17442758	ω	54.97709	-0.84826632	+0.52941962
<i>a</i>	3.1724341	Ω	156.98127	-0.49577404	-0.78553392
<i>e</i>	0.1492304	<i>i</i>	1.84858	-0.18615141	-0.32039244
<i>P</i>	5.65	<i>H</i>	13.3	<i>G</i>	0.15

Residuals in seconds of arc

1998 11 17	684	0.0	1.0-	2000 02 06	704	0.0	0.5-	2000 03 04	704	0.2-	0.5-
1998 11 17	684	0.1+	0.3-	2000 02 06	704	0.1+	0.3+	2000 03 04	704	0.1+	0.3-
1998 11 19	684	0.0	0.0	2000 02 06	704	0.3-	0.2+	2000 03 04	704	0.2+	0.3-
1998 11 19	684	0.1+	0.1-	2000 02 06	704	0.2-	0.0	2000 03 05	704	1.3+	0.5-
1999 12 05	704	0.9-	0.8-	2000 02 11	704	0.2-	0.3+	2000 03 05	704	0.5-	0.6+
1999 12 05	704	0.6+	0.7+	2000 02 11	704	0.2+	1.0+	2000 03 05	704	1.0-	0.2-
1999 12 05	703 (0.4+	2.2+)		2000 02 11	704	0.2-	0.6+	2000 03 05	704	0.3+	0.2-
1999 12 05	704	0.7-	1.0+	2000 02 11	704	0.0	0.4+	2000 03 05	704	0.6+	0.6-
1999 12 05	703	1.2+	0.5+	2000 02 11	704	0.1-	0.5+	2000 03 10	691	0.2-	0.6-
1999 12 05	704	0.3-	0.1+	2000 02 25	703	0.2-	0.1-	2000 03 10	691	0.2-	0.6-
1999 12 05	703	0.1-	0.7+	2000 02 25	703	0.4-	0.6+	2000 03 10	691	0.1-	0.7-
1999 12 05	703	0.3+	0.2+	2000 02 25	703	0.1-	0.3+	2000 03 11	704	0.0	1.0-
2000 02 02	704	0.1+	0.0	2000 02 25	703	0.3+	0.1+	2000 03 11	704	0.4+	0.6-
2000 02 02	704	0.1-	0.2+	2000 02 29	704	0.1+	0.0	2000 03 11	704	0.5+	1.0-
2000 02 02	704	0.0	0.1+	2000 02 29	704	0.2+	0.1+	2000 03 11	704	0.2+	1.1-

2000 MAR. 20

M.P.C. 39381

2000 02 02	704	0.1+	0.1+	2000 02 29	704	0.1−	0.5+	2000 03 11	704	0.2+	1.2−
2000 02 02	704	0.3+	0.3+	2000 02 29	704	0.4+	0.3+	2000 03 11	691	0.8−	0.1−
2000 02 04	704	0.3−	0.4−	2000 02 29	704	0.0	0.2+	2000 03 11	691	0.7−	0.2−
2000 02 04	704	0.1−	0.1−	2000 03 03	704	0.6+	0.5+	2000 03 11	691	0.8−	0.1−
2000 02 04	704	0.8+	0.9+	2000 03 03	704	0.1+	0.1+	2000 03 12	691	0.3−	0.3−
2000 02 04	704	1.4+	0.4+	2000 03 03	704	0.2+	0.3+	2000 03 12	691	0.3−	0.3−
2000 02 05	704	0.2+	0.6−	2000 03 03	704	0.0	0.6+	2000 03 12	691	0.1−	0.4−
2000 02 05	704	0.1+	0.4+	2000 03 03	704	0.2−	0.6+	2000 03 14	608	0.8−	0.2+
2000 02 05	704	0.3+	0.5+	2000 03 04	704	0.1+	0.1−	2000 03 14	608	0.4−	0.1−
2000 02 06	704	0.1+	0.3−	2000 03 04	704	0.4+	0.2−	2000 03 14	608	0.6−	0.2+

2000 CC₃₀ = 1998 RX₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams											
<i>M</i> 108.71815 (2000.0)				<i>P</i>				<i>Q</i>			
<i>n</i>	0.28976435	ω	84.25042	+0.79446281				−0.60232491			
<i>a</i>	2.2617230	Ω	312.75655	+0.50689674				+0.72810075			
<i>e</i>	0.0458101	<i>i</i>	6.07269	+0.33449145				+0.32722164			
<i>P</i>	3.40	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>		<i>3</i>			

Residuals in seconds of arc

1998 08 17	704	0.8+	0.7+	1998 09 18	704	(3.0−	3.6−)	2000 02 29	704	0.0	0.1−
1998 08 17	704	0.3+	1.5−	1998 09 18	704	0.0	0.7−	2000 02 29	704	0.2−	0.9+
1998 08 17	704	1.6−	0.9+	1998 09 18	704	0.2−	1.5+	2000 02 29	704	0.2−	0.4+
1998 08 17	704	0.8−	0.4+	1998 09 18	704	(2.6−	0.7+)	2000 03 03	704	0.3+	0.1+
1998 08 17	704	(0.1−	2.5+)	2000 02 02	704	0.5+	0.6+	2000 03 03	704	0.2−	0.3+
1998 08 23	704	0.1−	0.5+	2000 02 02	704	0.3−	0.2−	2000 03 03	704	0.0	0.5−
1998 08 23	704	1.4+	0.2−	2000 02 02	704	0.3−	0.6+	2000 03 03	704	0.1−	0.3−
1998 08 23	704	0.2−	0.1+	2000 02 02	704	0.4+	0.5+	2000 03 03	704	0.3+	0.7−
1998 08 23	704	(7.3−	0.4−)	2000 02 02	704	0.6−	0.0	2000 03 11	704	0.5−	0.2+
1998 09 14	704	0.1+	1.1−	2000 02 04	704	0.4+	0.9−	2000 03 11	704	0.0	0.3+
1998 09 14	704	0.9−	0.3+	2000 02 04	704	0.4+	1.1−	2000 03 11	704	0.2−	0.4−
1998 09 14	704	1.0+	0.9−	2000 02 04	704	1.0−	0.4+	2000 03 11	704	0.0	0.5−
1998 09 14	704	0.1−	0.2+	2000 02 04	704	0.6+	0.1−	2000 03 11	704	0.1+	0.7+
1998 09 14	704	(3.8−	0.2+)	2000 02 29	704	0.4+	0.1−				
1998 09 18	704	(1.3+	2.1−)	2000 02 29	704	0.4+	0.2+				

2000 CF₃₀ = 1998 OA_s

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams											
<i>M</i> 52.64354 (2000.0)				<i>P</i>				<i>Q</i>			
<i>n</i>	0.25555564	ω	286.74352	+0.22875546				−0.97014975			
<i>a</i>	2.4593050	Ω	149.66845	+0.94282529				+0.20020246			
<i>e</i>	0.2094062	<i>i</i>	9.17247	+0.24238692				+0.13685190			
<i>P</i>	3.86	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>		<i>4</i>			

Residuals in seconds of arc

1998 07 26	809	0.5−	0.2−	2000 02 04	704	1.0+	0.0	2000 03 03	704	0.2+	0.4+
1998 07 26	809	0.1+	0.4+	2000 02 04	704	0.0	0.1+	2000 03 03	704	0.0	0.3+
1998 07 26	809	0.2−	0.7−	2000 02 04	704	0.2+	0.5−	2000 03 04	704	0.4+	1.1+
1998 07 27	809	0.3+	0.4+	2000 02 04	704	0.4+	0.5+	2000 03 04	704	0.2−	0.3+
1998 07 27	809	0.6−	1.3+	2000 02 04	704	0.5+	0.2−	2000 03 04	704	0.5+	0.5+
1998 07 27	809	0.0	0.3+	2000 02 25	703	0.9−	0.0	2000 03 04	704	0.2+	0.1+
1998 08 17	704	1.1+	1.7−	2000 02 25	703	0.6−	0.2−	2000 03 05	704	1.0+	0.4−
1998 08 17	704	0.7−	0.8−	2000 02 25	703	0.7−	0.4−	2000 03 05	704	0.1−	0.1+
1998 08 17	704	0.7+	0.9+	2000 02 26	691	0.9−	0.5−	2000 03 05	704	0.4+	0.2−
1998 08 17	704	0.4−	0.3+	2000 02 26	691	0.7−	0.7−	2000 03 05	704	0.7+	0.2+
2000 01 08	704	0.4−	0.1+	2000 02 26	691	0.5−	0.8−	2000 03 05	704	0.9+	0.1+
2000 01 08	704	0.0	0.5−	2000 02 29	704	0.2+	0.1+	2000 03 06	704	0.4+	0.2−
2000 01 08	704	1.0−	0.9+	2000 02 29	704	0.2+	0.2−	2000 03 06	704	0.1−	0.0
2000 02 02	704	0.2−	0.1−	2000 02 29	704	0.1+	0.1−	2000 03 06	704	0.0	0.7+
2000 02 02	704	0.4−	0.0	2000 02 29	704	0.0	0.4+	2000 03 06	704	0.1−	0.1+
2000 02 02	703	0.2+	0.4+	2000 02 29	704	0.2−	0.2+	2000 03 06	704	0.6−	0.3+
2000 02 02	704	0.4−	0.0	2000 03 02	691	0.3−	0.6−	2000 03 11	704	0.4+	0.3−
2000 02 02	703	1.1+	0.6+	2000 03 02	691	0.3−	0.3−	2000 03 11	704	0.1−	0.1−
2000 02 02	704	0.5−	0.3−	2000 03 02	691	0.1−	0.5−	2000 03 11	704	0.2−	0.1−
2000 02 02	703	0.0	0.4+	2000 03 03	704	0.2+	0.1−	2000 03 11	704	0.4−	0.6−

2000 02 02	704	0.3−	0.2+	2000 03 03	704	0.6+	0.2+	2000 03 11	704	0.3−	0.2−
2000 02 02	703	0.2+	0.2−	2000 03 03	704	0.4+	0.3+				

2000 CM₃₀ = 1998 ST₁₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams											
<i>M</i> 42.86068 (2000.0)				<i>P</i>				<i>Q</i>			
<i>n</i>	0.19548757	ω	289.21757	−0.13825566				−0.99031823			
<i>a</i>	2.9402885	Ω	168.70768	+0.93089355				−0.13423307			
<i>e</i>	0.1282531	<i>i</i>	3.64749	+0.33811620				−0.03537364			
<i>P</i>	5.04	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>		<i>3</i>			

Residuals in seconds of arc

1998 09 20	809	1.0+	1.4−	2000 02 06	704	0.1−	0.3+	2000 02 25	703	0.7+	0.8−
1998 09 20	809	0.9+	1.2−	2000 02 06	704	0.2+	0.4+	2000 02 25	703	0.5+	0.1−
1998 09 20	809	0.5−	0.7−	2000 02 08	704	0.5−	0.3−	2000 02 29	704	0.5−	0.5−
1998 09 21	809	0.6+	0.4−	2000 02 08	704	0.0	0.6+	2000 02 29	704	0.2+	0.2−
1998 09 21	809	0.4+	0.7−	2000 02 08	704	0.3+	1.3+	2000 02 29	704	0.1−	0.6−
1998 09 21	809	0.3+	0.1−	2000 02 08	704	0.7+	0.1+	2000 02 29	704	0.1+	0.4−
1998 10 14	699	1.5−	1.7+	2000 02 08	704	0.1−	1.2+	2000 02 29	704	0.1+	0.7−
1998 10 14	699	0.2−	1.2+	2000 02 10	704	0.0	0.1+	2000 03 03	704	0.2+	0.2−
1998 10 14	699	0.7−	0.4+	2000 02 10	704	0.4+	0.8+	2000 03 03	704	0.1+	0.6−
2000 02 02	704	0.4+	0.3+	2000 02 10	704	0.9−	0.3−	2000 03 03	704	0.0	0.2−
2000 02 02	704	0.5+	0.2−	2000 02 10	704	1.9−	0.6−	2000 03 03	704	0.1+	0.1−
2000 02 02	703	0.3+	0.4−	2000 02 11	704	0.3−	0.0	2000 03 03	704	0.1+	0.2+
2000 02 02	704	0.5+	0.3+	2000 02 11	704	0.6+	1.4−	2000 03 09	704	0.2−	0.2−
2000 02 02	703	0.0	0.3+	2000 02 11	704	0.4−	0.0	2000 03 09	704	0.4−	0.4−
2000 02 02	704	0.3+	0.1−	2000 02 11	704	0.0	0.2−	2000 03 09	704	0.4+	0.2−
2000 02 02	703	1.3+	0.2+	2000 02 11	704	0.4−	0.2−	2000 03 09	704	0.3+	0.2+
2000 02 02	703	0.6−	0.2+	2000 02 12	704	0.1−	1.0−	2000 03 09	704	0.1+	0.5+
2000 02 02	704	0.1+	0.0	2000 02 12	704	0.3+	0.6+	2000 03 11	704	0.1−	0.6−
2000 02 04	704	0.1+	0.1+	2000 02 12	704	0.5−	0.7−	2000 03 11	704	0.0	0.2−
2000 02 04	704	0.4−	0.5+	2000 02 12	704	0.2−	0.8+	2000 03 11	704	0.1−	0.5−
2000 02 04	704	1.4+	0.3+	2000 02 12	704	0.4−	0.4+	2000 03 11	704	0.2+	0.3−
2000 02 04	704	0.1−	0.2−	2000 02 13	704	0.1+	0.0	2000 03 11	704	0.1+	0.2−
2000 02 04	704	0.2−	0.2−	2000 02 13	704	0.1−	0.0	2000 03 11	699	0.5−	0.3−
2000 02 06	704	0.5−	0.6+	2000 02 13	704	0.2+	0.2−	2000 03 11	699	0.2+	0.2+
2000 02 06	704	0.3−	0.4+	2000 02 25	703	1.2−	0.3+	2000 03 11	699	0.2−	0.8+
2000 02 06	704	0.7+	0.1+	2000 02 25	703	0.2+	0.2+	2000 03 11	699	0.7−	0.4+

2000 CN₃₀ = 1998 SV₅

Epoch 2000 Feb.

2000 CU₃₀ = 1998 SQ₉₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 227.54055 (2000.0)			Williams		P		Q	
<i>n</i>	0.29547835	ω	122.20239		+0.15053200		+0.98761020	
<i>a</i>	2.2324699	Ω	156.33491		−0.94014690		+0.15687982	
<i>e</i>	0.0955791	<i>i</i>	6.34248		−0.30571870		+0.00384948	
<i>P</i>	3.34	<i>H</i>	14.9		<i>G</i> 0.15		<i>U</i> 4	

Residuals in seconds of arc

1998 08 02	699	0.2−	0.9+	1998 10 17	699	0.9+	0.5−	2000 02 05	704	0.6+	1.5+
1998 08 02	699	0.2+	1.8+	1998 10 17	699	0.3+	1.1−	2000 02 05	704	0.5−	0.2+
1998 08 02	699	0.1+	0.8+	2000 01 07	704	0.1−	0.2+	2000 02 06	704	0.3−	0.2+
1998 08 31	704	1.2+	0.9−	2000 01 07	704	0.1+	0.0	2000 02 06	704	0.3−	0.0
1998 08 31	704	0.5+	1.1−	2000 01 07	704	0.2−	0.3−	2000 02 06	704	0.4−	0.3+
1998 08 31	704	0.1+	1.1−	2000 01 07	704	0.2−	0.6+	2000 02 06	704	0.8+	0.1−
1998 08 31	704	0.2−	1.3−	2000 01 07	704	0.9+	0.5+	2000 02 06	704	0.0	0.4−
1998 08 31	704	0.8−	1.5−	2000 01 30	703	0.2−	0.0	2000 02 08	704	0.6−	0.5+
1998 09 17	699	1.0−	1.1+	2000 01 30	703	0.5+	0.2−	2000 02 08	704	0.2−	0.0
1998 09 17	699	0.6−	1.0+	2000 01 30	703	0.1+	0.1+	2000 02 08	704	0.2+	0.4−
1998 09 17	699	0.9−	0.9+	2000 01 30	703	0.4−	0.1+	2000 02 08	704	1.0−	0.4+
1998 09 26	704	0.7−	0.1+	2000 02 02	704	0.4−	0.3+	2000 02 08	704	0.5+	0.2+
1998 09 26	704	0.1+	0.3+	2000 02 02	704	0.8+	0.5−	2000 03 05	704	0.3−	0.5+
1998 09 26	704	0.2+	0.3+	2000 02 02	704	0.1+	1.3−	2000 03 05	704	0.0	0.1−
1998 09 26	704	0.3+	0.3−	2000 02 02	704	0.3+	0.4−	2000 03 05	704	0.4−	0.4+
1998 09 26	704	0.6+	0.3+	2000 02 04	704	0.0	0.9−	2000 03 05	704	0.2+	0.3−
1998 09 27	704	0.2−	0.2+	2000 02 04	704	0.3−	0.5+	2000 03 05	704	0.3−	0.1−
1998 09 27	704	0.4−	0.2+	2000 02 04	704	1.2+	0.4−	2000 03 05	608	0.1+	0.1+
1998 09 27	704	0.5+	0.4−	2000 02 04	704	0.9−	0.5+	2000 03 05	608	0.5+	0.0
1998 09 27	704	0.2+	0.7+	2000 02 05	704	0.5−	0.5−	2000 03 05	608	0.6+	0.1−
1998 09 27	704	0.1−	0.5−	2000 02 05	704	0.3−	0.4−				
1998 10 17	699	0.0	0.9+	2000 02 05	704	0.2+	0.4−				

2000 CN₃₁ = 1993 FN₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 87.28813 (2000.0)			Williams		P		Q	
<i>n</i>	0.26336079	ω	245.84549		+0.74614737		−0.66530845	
<i>a</i>	2.4104713	Ω	155.83636		+0.63091887		+0.69454795	
<i>e</i>	0.1238449	<i>i</i>	3.51198		+0.21261580		+0.27380252	
<i>P</i>	3.74	<i>H</i>	15.6		<i>G</i> 0.15		<i>U</i> 3	

Residuals in seconds of arc

1993 03 19	809	0.0	1.0+	2000 02 02	704	1.1+	0.3−	2000 02 28	691	0.3−	0.3−
1993 03 20	809	0.7+	1.5−	2000 02 02	704	0.0	0.4+	2000 02 28	691	0.7−	0.4−
1993 03 24	809	0.5−	1.1+	2000 02 02	704	0.6+	0.1−	2000 02 28	691	1.0−	0.4−
1998 08 23	704	(2.2+ 0.4+)		2000 02 04	704	0.4+	0.0	2000 02 29	704	1.1+	0.1+
1998 08 23	704	0.6−	1.7+	2000 02 04	704	0.3+	0.6+	2000 02 29	704	0.8−	0.4+
1998 08 23	704	(0.7+ 2.5+)		2000 02 04	704	0.2+	0.8−	2000 02 29	704	0.9−	1.4+
1998 08 23	704	(3.2− 1.3−)		2000 02 04	704	0.1+	0.1+	2000 02 29	704	0.2+	0.7+
1998 10 14	910	0.4+	0.3−	2000 02 04	704	0.5−	0.5−	2000 02 29	704	0.1+	0.7+
1998 10 14	910	0.5−	0.2+	2000 02 27	691	0.3−	0.2−	2000 03 09	704	0.5+	0.1−
1998 10 14	910	0.0	0.8+	2000 02 27	691	0.2−	0.2−	2000 03 09	704	0.5+	0.6+
2000 02 02	704	1.0+	0.1+	2000 02 27	691	0.1−	0.1−	2000 03 09	704	0.9−	0.4+

2000 CR₃₁ = 1998 SN₁₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 57.84935 (2000.0)			Williams		P		Q	
<i>n</i>	0.22436241	ω	195.22180		+0.16554725		−0.98609957	
<i>a</i>	2.6822710	Ω	245.25086		+0.90644814		+0.15781765	
<i>e</i>	0.0547976	<i>i</i>	0.89616		+0.38851755		+0.05197334	
<i>P</i>	4.39	<i>H</i>	14.8		<i>G</i> 0.15		<i>U</i> 4	

Residuals in seconds of arc

1998 09 26	704	0.1+	0.1−	2000 02 04	704	0.6+	0.1−	2000 03 03	691	0.8−	0.3−
1998 09 26	704	0.6+	0.4−	2000 02 08	691	0.2+	0.4−	2000 03 04	704	0.0	0.7+

1998 09 26	704	0.2+	1.7+	2000 02 08	691	0.4+	0.4−	2000 03 04	704	0.6+	0.6+
1998 09 26	704	0.4−	0.9−	2000 02 08	691	0.5+	0.4−	2000 03 04	704	0.0	0.0
1998 09 26	704	1.1+	1.1−	2000 02 26	703	0.4−	0.8+	2000 03 04	704	1.1+	0.3−
1998 09 27	704	0.5+	0.1+	2000 02 26	703	0.3−	1.4+	2000 03 04	704	1.2+	0.1+
1998 09 27	704	1.5−	0.2+	2000 02 26	703	0.9−	0.5+	2000 03 05	704	0.1+	0.9+
1998 09 27	704	0.8+	0.2+	2000 02 26	703	1.9+	1.1+	2000 03 05	704	0.1−	0.7+
1998 09 27	704	1.4−	0.4+	2000 02 29	704	0.5+	0.4+	2000 03 05	704	0.2−	0.4+
2000 01 30	703	0.6−	0.2−	2000 02 29	704	0.7+	0.1−	2000 03 05	704	0.2+	0.4−
2000 01 30	703	0.9−	0.2+	2000 02 29	704	0.1−	0.2−	2000 03 05	704	1.2−	0.3−
2000 01 30	703	0.1−	0.8−	2000 02 29	704	0.2+	0.2+	2000 03 05	120	(2.7− 0.2+)	
2000 01 30	703	1.1−	0.2−	2000 02 29	704	0.4−	0.4−	2000 03 05	120	0.1+	1.2−
2000 02 02	704	0.1+	0.6+	2000 03 03	704	0.1+	0.1−	2000 03 05	120	0.8−	0.7−
2000 02 02	704	0.7−	0.1−	2000 03 03	704	0.4−	0.8+	2000 03 06	704	0.0	0.7−
2000 02 02	704	0.7−	1.0−	2000 03 03	691	0.7−	0.5−	2000 03 06	704	1.0+	0.2−
2000 02 04	704	0.0	0.2+	2000 03 03	704	0.4+	0.7+	2000 03 06	704	0.2−	0.2+
2000 02 04	704	1.1+	0.5+	2000 03 03	704	0.2−	0.7+	2000 03 09	691	0.0	0.5−
2000 02 04	704	0.7+	0.1−	2000 03 03	691	0.7−	0.4−	2000 03 09	691	0.4−	1.6−
2000 02 04	704	0.8+	0.3−	2000 03 03	704	0.2−	0.5+	2000 03 09	691	0.0	0.6−

2000 CY₃₁ = 1992 EZ₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 356.94933 (2000.0)			Williams		P		Q	
<i>n</i>	0.24369188	ω	343.89004		−0.89777299		−0.44023128	
<i>a</i>	2.5384893	Ω	169.95610		+0.41253673		−0.85167918	
<i>e</i>	0.2108250	<i>i</i>	4.65197		+0.15432789		−0.28432198	
<i>P</i>	4.04	<i>H</i>	16.0		<i>G</i> 0.15		<i>U</i> 4	

Residuals in seconds of arc

1992 03 01	809	0.6+	0.7+	2000 02 27	703	1.0+	0.4−	2000 03 03	704	0.2+	0.1−
1992 03 03	809	1.1−	0.2+	2000 02 27	703	0.6−	0.6−	2000 03 05	704	0.6−	0.2+
1992 03 06	809	0.5+	0.8−	2000 02 27	703	0.2−	0.5+	2000 03 05	704	0.2−	0.4+
2000 02 02	704	0.3−	0.3−	2000 02 29	704	0.2−	0.1+	2000 03 05	704	0.1+	0.5−
2000 02 02	704	0.1−	0.4−	2000 02 29	704	0.4−	0.4+	2000 03 05	704	0.1−	0.4+
2000 02 02	704	0.6−	0.6−	2000 02 29	704	0.1+	0.4+	2000 03 05	704	0.1−	0.5−
2000 02 02	704	1.5+	0.3+	2000 02 29	704	0.3+	0.3−	2000 03 05	704	0.8+	0.1+
2000 02 04	704	0.6+	0.1−	2000 02 29	704	0.0	0.9−	2000 03 05	704	0.3+	0.8−
2000 02 04	704	0.1−	0.4+	2000 03 03	704	0.2−	0.2+	2000 03 05	704	0.2−	0.6+
2000 02 04	704	1.1−	1.6+	2000 03 03	704	0.0	0.1+	2000 03 05	704	0.0	0.5−
2000 02 04	704	0.2−	0.6−	2000 03 03	704	0.2−	0.2+	2000 03 05	704	0.4−	0.5+
2000 02 27	703	0.3+	0.2−	2000 03 03	704	0.4+	0.3+				

2000 CB₃₂ = 1998 XU₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 121.68514 (2000.0)			Williams		P		Q	
<i>n</i>	0.17576802	ω	63.47303		+0.98530802		−0.16131578	
<i>a</i>	3.1562845	Ω	305.75994		+0.12146488		+0.89274445	
<i>e</i>	0.1801834	<i>i</i>	3.96303		+0.12005990		+0.42069533	
<i>P</i>	5.61	<i>H</i>	13.0		<i>G</i> 0.15		<i>U</i> 5	

Residuals in seconds of arc

1998 12 14	704	0.8+	0.2−	2000 02 04	704	0.4−	1.3+	2000 02 29	704	0.2−	0.8−
1998 12 14	704	1.3+	0.4−	2000 02 04	704	0.3+	0.2−	2000 02 29	704	0.0	1.6−
1998 12 14	704	0.7−	0.2−	2000 02 04	704	0.3+	0.3+	2000 03 03	704	0.5+	0.1+
1998 12 14	704	0.0	0.1+	2000 02 04	704	0.1−	0.4+	2000 03 03	704	0.3+	0.2+
1998 12 17	704	0.3−	0.8+	2000 02 08	691	0.1−	1.1−	2000 03 03	704	0.0	0.5+
1998 12 17	704	1.1−	0.2+	2000 02 08	691	0.2−	1.0−	2000 03 03	704	0.1−	0.2+
1998 12 17	704	0.3+	0.6−	2000 02 08	691	0.1+	0.9−	2000 03 03	704	0.1−	0.2+
1998 12 17	704	0.1+	0.2−	2000 02 27	703	(2.9−	3.0+)	2000 03 05	704	0.2−	1.3+
1998 12 17	704	0.4−	0.4+	2000 02 27	703	(3.0+	1.2+)	2000 03 05	704	0.3−	0.1−
2000 02 02	704	0.2−	0.1+	2000 02 27	703	0.2−	0.6+	2000 03 05	704	0.1+	0.1−
2000 02 02	704	0.1+	0.6−	2000 02 27	703	0.5+	0.3+	2000 03 05	704	0.5−	0.1−
2000 02 02	704	0.2−	0.2−	2000 02 29	704	0.2+	0.2−	2000 03 05	704	0.0	0.2+
2000 02 02	704	0.1+	0.2+	2000 02 29	704	0.2+	0.1+				
2000 02 04	704	0.1−	1.2+	2000 02 29	704	0.1+	0.3−				

2000 MAR. 20

M.P.C. 39383

2000 CG₃₂ = 1979 MD₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17048024	ω	288.32417	-0.35436894	-0.93510051		
<i>a</i>	3.2212173	Ω	182.43724	+0.88322038	-0.33361069		
<i>e</i>	0.0937781	<i>i</i>	4.19945	+0.30715535	-0.11954475		
<i>P</i>	5.78	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1979 06 24	413	(5.2+ 2.1+)	2000 02 02	704	0.9- 0.2+	2000 02 29	704	0.5+ 0.6+
1979 06 25	413	0.4- 0.9+	2000 02 02	704	0.8- 0.5-	2000 03 03	704	0.7+ 0.2-
1979 06 29	413	0.2+ 0.1+	2000 02 02	704	0.0 0.3+	2000 03 03	704	1.7+ 0.5+
1998 11 24	704	(3.0+ 0.9+)	2000 02 02	704	0.0 0.2+	2000 03 03	704	0.0 0.1+
1998 11 24	704	0.7+ 0.2+	2000 02 04	704	0.3+ 0.8-	2000 03 03	704	0.2- 0.2+
1998 11 24	704	0.5- 0.0	2000 02 04	704	0.1+ 0.6-	2000 03 03	704	0.1- 0.3+
1998 11 24	704	0.3- 0.5+	2000 02 04	704	0.8- 1.2+	2000 03 11	704	0.2+ 0.5-
2000 01 08	704	0.0 0.3+	2000 02 04	704	0.1- 0.7+	2000 03 11	704	0.5+ 0.7+
2000 01 08	704	0.3+ 0.4-	2000 02 29	704	0.4- 0.1+	2000 03 11	704	0.2+ 0.1+
2000 01 08	704	0.5- 0.4+	2000 02 29	704	0.1- 0.5-	2000 03 11	704	0.4- 0.2-
2000 01 08	704	0.0 0.0	2000 02 29	704	0.1+ 0.4-	2000 03 11	704	0.2+ 0.3+
2000 01 08	704	0.3- 1.2-	2000 02 29	704	0.0 0.1-			

2000 CH₃₂ = 1977 RO₁₇ = 1989 PB₂ = 1992 EG₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24071820	ω	143.96289	+0.68050094	+0.73264063		
<i>a</i>	2.5593524	Ω	168.90123	-0.68656104	+0.64347459		
<i>e</i>	0.1586055	<i>i</i>	3.72231	-0.25603205	+0.22176150		
<i>P</i>	4.09	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1977 09 09	675	0.5- 0.1+	2000 02 02	704	1.3+ 1.3-	2000 03 03	704	0.8+ 0.6+
1977 09 10	675	0.1+ 0.9+	2000 02 04	704	0.4- 0.1+	2000 03 03	704	0.4+ 0.4+
1989 08 01	675	0.1- 0.6+	2000 02 04	704	0.2+ 0.3+	2000 03 03	704	0.4+ 1.5+
1989 08 01	675	(0.6+ 3.5+)	2000 02 04	704	1.5- 0.4-	2000 03 05	704	0.0 0.0
1992 03 01	809	0.3- 0.3+	2000 02 04	704	(2.1- 0.0)	2000 03 05	704	0.3- 0.0
1992 03 03	809	1.1- 0.2-	2000 02 04	704	0.2- 0.0	2000 03 05	704	0.1- 0.6+
1992 03 06	809	1.2+ 0.8-	2000 02 29	704	0.6+ 0.5+	2000 03 05	704	0.1+ 0.5-
2000 02 02	704	0.3- 1.1-	2000 02 29	704	0.2+ 0.0	2000 03 05	704	0.1- 0.5-
2000 02 02	704	0.2+ 0.1-	2000 02 29	704	0.5+ 0.3+	2000 03 11	704	0.8- 0.1-
2000 02 02	703	0.1+ 0.5-	2000 02 29	704	0.0 0.5+	2000 03 11	704	0.0 0.3+
2000 02 02	704	(1.8+ 3.0-)	2000 02 29	704	0.3+ 0.4+	2000 03 11	704	0.3- 0.1+
2000 02 02	703	(2.4- 0.2-)	2000 03 03	704	0.8+ 0.6-	2000 03 11	704	0.7- 0.7+
2000 02 02	703	0.7- 0.3-	2000 03 03	704	0.3+ 0.9+	2000 03 11	704	0.3- 0.6+

2000 CS₃₂ = 1998 SK₇₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23398975	ω	353.32081	-0.87733769	-0.47947290		
<i>a</i>	2.6081836	Ω	157.99492	+0.44266058	-0.82440039		
<i>e</i>	0.1143922	<i>i</i>	2.99913	+0.18528410	-0.30078188		
<i>P</i>	4.21	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 03 24	566	0.1+ 0.4+	2000 02 04	704	0.1+ 0.5-	2000 03 05	704	0.5- 0.2-
1996 03 24	566	0.1+ 0.7+	2000 02 04	704	0.4+ 0.6+	2000 03 05	704	0.7- 0.2+
1996 03 24	566	0.3+ 0.3+	2000 02 04	704	0.3- 0.1-	2000 03 05	704	1.2- 0.4+
1998 09 21	809	0.3- 0.5+	2000 02 04	704	0.3- 0.0	2000 03 05	704	1.3- 0.6+
1998 09 21	809	1.4- 0.0	2000 02 13	704	(2.3+ 1.1+)	2000 03 05	608	0.9+ 0.4-
1998 09 21	809	0.8- 0.2-	2000 02 13	704	1.8+ 0.5+	2000 03 05	608	0.3+ 1.0-
1998 09 23	809	(2.5+ 0.9+)	2000 02 13	704	(3.6+ 0.4-)	2000 03 05	608	0.2+ 0.4-
1998 09 23	809	1.1+ 0.2+	2000 02 29	704	0.2+ 0.1-	2000 03 11	704	0.2+ 0.5+
1998 09 23	809	1.0+ 0.7+	2000 02 29	704	0.3+ 0.0	2000 03 11	704	0.1- 0.5+
2000 02 02	703	1.0- 0.0	2000 02 29	704	0.3+ 0.3+	2000 03 11	704	0.2+ 0.2+
2000 02 02	703	0.2+ 0.1+	2000 02 29	704	0.3+ 0.3+	2000 03 11	704	0.0 0.1-

2000 02 02	703	0.3+ 0.1-	2000 02 29	704	0.2+ 0.4+	2000 03 11	704	0.7- 0.1-
2000 02 02	704	0.2+ 0.4-	2000 03 03	704	0.2+ 0.0	2000 03 11	699	0.4- 0.3+
2000 02 02	703	0.5+ 0.1+	2000 03 03	704	0.1+ 0.5-	2000 03 11	699	0.0 0.0
2000 02 02	704	0.0 0.4-	2000 03 03	704	0.1+ 0.5-	2000 03 11	699	0.5- 0.4+
2000 02 02	704	0.2+ 0.3-	2000 03 03	704	0.5+ 0.5-	2000 03 11	699	0.5- 0.6+
2000 02 02	704	0.5+ 0.0	2000 03 03	704	0.1+ 0.3-			
2000 02 02	704	0.1+ 0.5+	2000 03 05	704	0.7- 0.0			

2000 CY₃₂ = 1998 WJ₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21345895	ω	51.03272	+0.99822155	-0.02252376		
<i>a</i>	2.7728506	Ω	310.18595	-0.00403419	+0.89822847		
<i>e</i>	0.1225656	<i>i</i>	4.14313	+0.05947659	+0.43895137		
<i>P</i>	4.62	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 10 26	098	0.5+ 1.6+	2000 02 02	703	0.3- 0.1-	2000 02 29	704	0.0 0.1+
1998 10 26	098	1.2- 1.3+	2000 02 02	703	0.2+ 0.5-	2000 02 29	704	0.1+ 0.2-
1998 11 18	704	0.3- 0.4+	2000 02 02	703	(3.2+ 0.7-)	2000 02 29	704	0.0 0.2+
1998 11 18	704	0.0 0.0	2000 02 02	704	0.1+ 0.5+	2000 03 03	704	0.3+ 0.1+
1998 11 18	704	0.8- 1.2-	2000 02 02	704	0.1+ 0.1-	2000 03 03	704	0.5+ 1.1-
1998 11 18	704	0.0 0.3-	2000 02 02	704	0.1+ 0.0	2000 03 03	704	0.4+ 0.0
1998 11 18	704	0.1- 1.2-	2000 02 02	704	1.1+ 0.0	2000 03 03	704	0.4+ 0.4-
1998 11 21	704	1.2+ 0.1+	2000 02 02	704	0.8+ 1.2+	2000 03 03	704	0.6+ 0.6-
1998 11 21	704	1.1+ 0.3-	2000 02 04	704	0.4+ 1.4+	2000 03 11	704	0.3- 0.9-
1998 11 21	704	0.0 1.4+	2000 02 04	704	0.2- 0.0	2000 03 11	704	0.3- 0.7-
1998 11 21	704	0.4- 1.4+	2000 02 04	704	0.3- 0.2-	2000 03 11	704	0.9+ 0.6-
1998 11 24	704	0.2+ 0.4+	2000 02 25	703	0.2+ 0.6-	2000 03 11	704	0.1+ 1.2-
1998 11 24	704	0.5+ 1.2-	2000 02 25	703	0.6- 0.3+	2000 03 11	699	0.1+ 1.2+
1998 11 24	704	0.4+ 0.9-	2000 02 25	703	0.0 0.6+	2000 03 11	699	0.8- 0.9+
1998 11 24	704	1.1- 1.4-	2000 02 25	703	1.9- 0.9+	2000 03 11	699	0.5- 1.2+
1998 11 24	704	(5.6- 0.1-)	2000 02 29	704	0.7+ 0.2-	2000 03 11	699	0.3- 0.2+
2000 02 02	703	1.1- 0.7-	2000 02 29	704	0.1- 0.3-			

2000 CA₃₃ = 1998 SQ₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27014071	ω	264.72886	+0.40756295	-0.91305220		
<i>a</i>	2.3699692	Ω	161.19718	+0.85529020	+0.37587996		
<i>e</i>	0.1059360	<i>i</i>	2.68588	+0.31995487	+0.15827171		
<i>P</i>	3.65	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 23	691	0.2- 0.1+	2000 02 02	704	1.4- 0.4-	2000 03 03	704	0.4- 0.4+
1998 09 23	691	0.6- 0.2+	2000 02 04	704	0.0 0.7-	2000 03 05	704	0.0 0.1+
1998 09 23	691	0.1- 0.0	2000 02 04	704	0.6+ 0.4+	2000 03 05	704	0.7- 0.8+
1998 09 26	691	0.3+ 0.2+	2000 02 04	704	0.2+ 1.2+	2000 03 05	704	0.0 0.3-
1998 09 26	691	0.3+ 0.1-	2000 02 29	704	(2.5+ 0.7-)	2000 03 05	704	0.4- 0.5-
1998 09 26	691	0.6+ 0.2-	2000 02 29	704	1.1+ 0.0	2000 03 05	704	1.6- 0.3-
1998 09 29	691	0.1+ 0.3-	2000 02 29	704	1.1+ 0.7+	2000 03 11	704	0.3- 0.9-
1998 09 29	691	0.1- 0.2+	2000 02 29	704	1.3+ 1.0-	2000 03 11	704	0.1- 0.1-
1998 09 29	691	0.2- 0.1-	2000 02 29	704	0.1- 0.0	2000 03 11	704	0.7- 1.1+
2000 02 02	704	0.2+ 1.1-	2000 03 03	704	1.0+ 0.3+	2000 03 11	704	0.3+ 0.2-
2000 02 02	704	0.5- 0.6+	2000 03 03	704	0.3+ 0.3+	2000 03 11	704	0.0 0.4-

2000 CB₃₃ = 1998 VQ₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28997286	ω	133.00342	+0.25576869	+0.96531742		
<i>a</i>	2.2606386	Ω	151.68994	-0.91599788	+0.25931426		
<i>e</i>	0.1243182	<i>i</i>	6.34239	-0.30907972	+0.03030500		
<i>P</i>	3.40	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 12	699	0.6+	0.2+	2000 02 02	703	0.6−	0.3+	2000 03 03	704	0.4+	0.6−
1998 10 12	699	1.3+	1.2+	2000 02 02	703	0.9+	0.5−	2000 03 03	704	0.5+	0.3−
1998 10 12	699	0.4+	0.1+	2000 02 02	703	0.6−	0.1+	2000 03 03	704	0.2+	0.1−
1998 11 10	704	0.4−	0.7−	2000 02 02	704	0.2−	0.4+	2000 03 03	704	0.2+	0.6−
1998 11 10	704	1.7−	0.8−	2000 02 02	704	0.2−	0.2−	2000 03 05	704	0.1−	0.3+
1998 11 10	704	(2.8−	0.1−)	2000 02 02	704	0.4+	0.1−	2000 03 05	704	0.6−	0.2+
1998 11 10	704	1.3−	0.4+	2000 02 02	704	0.8−	0.0	2000 03 05	704	0.2−	0.2+
1998 11 11	704	0.4−	0.3+	2000 02 02	704	0.3−	0.6+	2000 03 05	704	0.3+	0.3+
1998 11 11	704	0.6−	0.9−	2000 02 04	704	0.5+	0.0	2000 03 05	704	0.0	0.1+
1998 11 11	704	0.1+	0.2+	2000 02 04	704	0.5+	0.0	2000 03 11	704	0.4+	0.2−
1998 11 11	704	0.7+	0.9−	2000 02 04	704	0.1−	1.2+	2000 03 11	704	0.1+	0.2+
1998 11 11	704	0.0	1.9−	2000 02 04	704	1.1−	0.9−	2000 03 11	704	0.4+	0.1−
1998 11 13	704	0.3−	0.8+	2000 02 04	704	0.2−	0.8−	2000 03 11	704	0.6+	0.1−
1998 11 13	704	0.5+	0.9+	2000 02 25	703	1.0−	0.4+	2000 03 11	704	0.2+	0.4−
1998 11 13	704	(2.5−	1.0+)	2000 02 25	703	0.0	0.4−	2000 03 11	699	0.2−	0.0
1998 11 13	704	1.1+	1.1+	2000 02 25	703	0.1+	0.3+	2000 03 11	699	0.8+	0.6−
1998 11 13	704	0.1+	0.1+	2000 02 25	703	0.4−	0.4+	2000 03 11	699	0.3+	1.2+
2000 02 02	703	0.1−	0.1+	2000 03 03	704	0.2+	0.2−	2000 03 11	699	0.0	0.1−

2000 CC₃₃ = 1984 BU₃ = 1997 GN₅ = 1998 SK₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	15.30728		(2000.0)	P	Q
<i>n</i>	0.31066771	ω	295.37687	−0.72805426	−0.68550125
<i>a</i>	2.1590961	Ω	201.34925	+0.63378817	−0.67031364
<i>e</i>	0.0541443	<i>i</i>	0.78750	+0.26124616	−0.28419651
<i>P</i>	3.17	<i>H</i>	16.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1984 01 25	675	0.5−	1.0−	2000 02 02	703	0.4+	0.4−	2000 03 03	704	0.1−	0.8+
1984 01 26	675	0.0	0.9−	2000 02 02	703	1.3−	0.0	2000 03 03	704	0.4+	0.4+
1997 04 08	691	0.1−	0.4−	2000 02 02	703	1.3+	1.8−	2000 03 03	704	0.2+	0.7+
1997 04 08	691	0.2−	0.5−	2000 02 02	703	(3.4+	1.4+)	2000 03 08	704	0.6+	0.7+
1997 04 08	691	0.1−	0.5−	2000 02 02	704	0.1−	0.5−	2000 03 08	704	0.0	0.6−
1997 04 09	691	0.4−	0.9+	2000 02 02	704	1.9−	1.0−	2000 03 08	704	0.3−	0.1+
1997 04 09	691	0.1+	0.2+	2000 02 02	704	0.9+	0.1−	2000 03 08	704	0.6+	0.1−
1997 04 09	691	0.1−	0.5+	2000 02 02	704	0.4−	0.0	2000 03 09	704	0.7+	0.6−
1997 04 15	691	0.2−	0.5−	2000 02 04	704	0.2+	0.9+	2000 03 09	704	0.4+	0.2+
1997 04 15	691	0.3+	0.8−	2000 02 04	704	0.2−	0.3+	2000 03 09	704	0.2+	0.3−
1997 04 15	691	0.0	0.9−	2000 02 04	704	0.4+	0.8+	2000 03 09	704	1.0+	0.0
1998 09 23	691	0.4−	0.2+	2000 02 25	703	0.2+	0.7+	2000 03 09	704	0.4+	0.6−
1998 09 23	691	0.4−	0.5−	2000 02 25	703	0.5−	0.7+	2000 03 11	704	1.2−	0.1−
1998 09 23	691	0.3−	0.1−	2000 02 25	703	1.0−	0.1−	2000 03 11	704	0.6−	1.1+
1998 09 26	691	0.1+	0.4+	2000 02 25	703	0.8+	0.4+	2000 03 11	704	0.7−	0.0
1998 09 26	691	0.5+	0.1+	2000 02 29	704	0.5+	0.4+	2000 03 11	704	0.3−	0.5+
1998 09 26	691	0.5+	0.0	2000 02 29	704	0.1+	0.0	2000 03 11	699	0.7−	0.9+
2000 02 01	703	0.4+	0.1−	2000 02 29	704	0.8+	0.6−	2000 03 11	699	1.0−	0.7+
2000 02 01	703	0.8−	0.4+	2000 02 29	704	0.9+	0.5−	2000 03 11	699	0.2−	0.4−
2000 02 01	703	0.3+	0.2+	2000 03 03	704	0.1+	0.2+	2000 03 11	699	0.4−	0.2+
2000 02 01	703	1.0+	0.2−	2000 03 03	704	0.0	0.0				

2000 CE₃₃ = 1993 FZ₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	58.33765		(2000.0)	P	Q
<i>n</i>	0.27070535	ω	272.56549	+0.22666030	−0.97390458
<i>a</i>	2.3666724	Ω	164.31930	+0.90981634	+0.20745692
<i>e</i>	0.1733352	<i>i</i>	2.46368	+0.34764830	+0.09204075
<i>P</i>	3.64	<i>H</i>	15.7	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1993 03 19	809	(0.5+	3.4−)	2000 02 04	704	0.8+	0.6+	2000 03 04	704	0.1−	0.5−
1993 03 20	809	0.4−	1.0−	2000 02 25	703	0.6−	0.1−	2000 03 04	704	0.1+	0.2−
1998 08 17	704	(2.8+	2.4+)	2000 02 25	703	0.1+	0.7−	2000 03 04	704	0.6+	0.4+
1998 08 17	704	0.5+	1.2+	2000 02 25	703	0.5−	0.5−	2000 03 04	704	0.5+	1.1+
1998 08 17	704	0.0	1.5+	2000 02 25	703	0.6+	0.1−	2000 03 04	704	0.0	0.8+
1998 08 17	704	0.0	0.2+	2000 02 29	704	0.1+	0.2+	2000 03 11	704	0.0	0.5−

1998 08 17	704	1.4−	0.2−	2000 02 29	704	0.2−	0.3+	2000 03 11	704	1.5−	0.6+
2000 02 02	704	0.3−	0.0	2000 02 29	704	0.2+	0.2+	2000 03 11	704	0.4−	0.2+
2000 02 02	704	0.1−	1.2−	2000 02 29	704	0.1−	0.1+	2000 03 11	704	1.0+	0.4−
2000 02 02	704	1.0+	0.1−	2000 02 29	704	0.1+	0.1+	2000 03 11	704	0.0	0.1+
2000 02 02	704	1.3−	0.1−	2000 03 03	704	0.5+	0.1+	2000 03 11	699	0.4+	0.2+
2000 02 02	704	0.1−	0.2+	2000 03 03	704	0.1−	0.2+	2000 03 11	699	0.2−	0.0
2000 02 04	704	1.0−	0.0	2000 03 03	704	0.8+	0.4+	2000 03 11	699	0.9+	0.1−
2000 02 04	704	0.9−	0.4+	2000 03 03	704	0.2+	0.1+	2000 03 11	699	0.2−	0.7+
2000 02 04	704	0.1+	1.4+	2000 03 03	704	0.6+	0.3−				

2000 CS₃₃ = 1998 QA₁₀₆

Id. G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	125.47205		(2000.0)	P	Q
<i>n</i>	0.25968553	ω	231.64179	+0.97664345	−0.17379754
<i>a</i>	2.4331612	Ω	137.93320	+0.20184854	+0.94366600
<i>e</i>	0.1394538	<i>i</i>	10.86930	−0.07365281	+0.28158285
<i>P</i>	3.80	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 08 25	809	1.2−	0.1−	2000 02 04	704	0.3−	1.7−	2000 02 08	704	0.3−	0.5−
1998 08 25	809	1.4−	0.3−	2000 02 04	704	0.5+	0.5−	2000 02 08	704	0.5−	0.6−
1998 08 25	809	1.3−	0.6−	2000 02 04	120	0.4+	1.6−	2000 02 08	704	0.9−	0.2−
1998 08 26	809	0.6+	0.0	2000 02 04	120	0.0	0.8−	2000 02 08	704	0.9−	0.9−
1998 08 26	809	1.5+	0.3+	2000 02 05	695	0.2−	0.5+	2000 02 08	704	0.6+	0.4+
1998 08 26	809	1.8+	0.8+	2000 02 05	695	0.0	0.5+	2000 02 11	704	0.5−	0.9+
2000 01 07	704	0.3−	0.3−	2000 02 05	120	0.2−	0.4−	2000 02 11	704	0.2+	1.8+
2000 01 07	704	0.1+	0.3−	2000 02 06	120	0.3−	0.3−	2000 02 11	704	0.4−	0.8+
2000 01 07	704	0.0	0.4−	2000 02 06	704	0.3−	0.8+	2000 02 11	704	0.5−	0.4+
2000 01 07	704	0.1−	0.1+	2000 02 06	704	1.0+	0.1+	2000 02 11	704	0.5−	0.9+
2000 01 07	704	0.5−	0.1−	2000 02 06	704	0.5−	0.5+	2000 02 12	120	0.6−	0.0
2000 01 27	120	1.5+	0.0	2000 02 06	704	0.2+	0.3+	2000 02 12	120	0.3−	0.1−
2000 01 28	120	0.3−	0.0	2000 02 06	704	0.0	0.3+	2000 02 28	704	(2.5+	1.4−)
2000 01 28	120	1.1+	0.8+	2000 02 06	695	0.3−	0.2+	2000 02 28	704	0.1+	0.6−
2000 01 30	703	0.9+	0.1+	2000 02 06	695	0.3−	0.5+	2000 02 28	704	0.1−	0.6+
2000 01 30	703	0.2+	0.4+	2000 02 06	120	0.4+	0.6−	2000 02 28	704	0.6+	0.3+
2000 01 30	703	(2.7−	2.0−)	2000 02 06	120	0.8+	0.1−	2000 02 28	704	0.7−	0.3−
2000 01 30	703	0.3+	0.3+	2000 02 06	120	0.3−	0.7−	2000 03 05	704	0.5+	0.0
2000 02 04	704	1.0+	0.5+	2000 02 06	120	1.8−	0.3−	2000 03 05	704	1.1+	0.3+
2000 02 04	704	0.5+	1.2+	2000 02 06	120	0.4−	0.1+	2000 03 05	704	0.6+	0.3+
2000 02 04	704	0.8+	0.5−	2000 02 06	120	0.3+	0.2−	2000 03 05	704	1.0−	1.8−

2000 CT₃₃ = 1996 HM₉ = 1998 WY₂₀

Id. G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	257.55821		(2000.0)	P	Q
<i>n</i>	0.20692670	ω	249.68748	−0.30345718	+0.95284451
<i>a</i>	2.8309033	Ω	2.64781	−0.86563441	−0.27522793
<i>e</i>	0.0285128	<i>i</i>	1.28576	−0.39823462	−0.12781596
<i>P</i>	4.76	<i>H</i>	13.8	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1996 04 17	809	0.9+	0.8+	2000 02 06	704	0.1−	0.3+	2000 03 04	704	(0.5+	2.0+)</

2000 MAR. 20

M.P.C. 39385

2000 01 04	704	0.2+	0.1-	2000 02 11	704	0.9+	0.6-	2000 03 06	704	(2.1+	0.6-)
2000 01 04	704	0.1+	1.2-	2000 02 12	120	1.1-	0.5-	2000 03 06	704	0.0	0.6+
2000 01 04	704	0.2-	1.2-	2000 02 12	120	1.4-	0.2-	2000 03 08	704	0.3+	0.4-
2000 01 07	704	0.7+	1.3+	2000 02 27	703	0.2-	1.0+	2000 03 08	704	0.6+	0.0
2000 01 07	704	0.1-	0.9+	2000 02 27	703	0.7-	0.1+	2000 03 08	704	0.1+	0.1+
2000 01 07	704	1.0-	1.2-	2000 02 27	703	0.0	0.4-	2000 03 08	704	0.2-	0.1+
2000 02 04	704	0.0	0.0	2000 02 27	703	0.1+	0.7+	2000 03 08	704	0.1+	0.1-
2000 02 04	704	1.0+	0.7-	2000 02 29	704	0.2-	0.4+	2000 03 09	704	0.6+	0.1+
2000 02 04	704	1.0-	0.7-	2000 02 29	704	0.7-	0.6+	2000 03 09	704	0.2+	0.0
2000 02 04	704	0.1+	0.5+	2000 02 29	704	0.4-	0.6+	2000 03 09	704	0.3+	0.2+
2000 02 04	704	0.7+	0.7-	2000 02 29	704	0.4-	0.9+	2000 03 09	704	0.6+	0.4-
2000 02 04	120	0.7+	1.6-	2000 02 29	704	0.0	1.2+	2000 03 09	704	0.2+	0.1-
2000 02 04	120	0.2+	1.3-	2000 03 03	704	0.8+	0.5+	2000 03 11	704	0.0	0.1-
2000 02 05	695	0.2+	0.4+	2000 03 03	704	0.7+	0.4+	2000 03 11	704	0.2-	0.0
2000 02 05	695	0.0	0.3+	2000 03 03	704	0.2+	0.6+	2000 03 11	691	0.1-	0.1+
2000 02 05	120	0.0	0.7-	2000 03 03	704	0.9+	0.0	2000 03 11	704	0.1-	0.5+
2000 02 06	120	1.4-	1.4-	2000 03 03	704	1.2+	0.1+	2000 03 11	691	0.3-	0.0
2000 02 06	704	0.0	0.2+	2000 03 04	704	0.1-	0.2-	2000 03 11	704	0.2+	0.4+
2000 02 06	704	0.6+	0.6+	2000 03 04	704	0.2+	0.5+	2000 03 11	704	0.2+	0.6+
2000 02 06	704	0.2-	0.4+	2000 03 04	704	0.4+	0.3+	2000 03 11	691	0.4-	0.2+
2000 02 06	704	0.4-	0.3+	2000 03 04	704	0.8+	1.1+				

2000 CA₃₄ = 1993 TU₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	253.98957		(2000.0)	P	Q	
<i>n</i>	0.21592627	ω	130.42156	-0.02971007	+0.99905531	
<i>a</i>	2.7516872	Ω	137.84321	-0.93079227	-0.01608725	
<i>e</i>	0.0368540	<i>i</i>	2.70839	-0.36433920	-0.04036930	
<i>P</i>	4.56	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1993 10 09	809	1.1-	1.3+	2000 02 04	120	0.1+	0.6-	2000 03 05	704	1.0+	0.3-
1993 10 09	809	1.5-	1.3+	2000 02 04	120	1.7-	1.0-	2000 03 05	704	0.4+	0.1-
1993 10 09	809	(4.7-	0.2-)	2000 02 04	120	0.6-	0.0	2000 03 05	704	0.9-	1.7+
1993 10 11	809	(2.9-	1.5-)	2000 02 06	120	0.7+	0.7-	2000 03 06	704	0.4+	0.5+
1993 10 11	809	(4.4-	1.6-)	2000 02 06	120	(2.1-	0.3-)	2000 03 06	704	0.7+	0.2-
1993 10 11	809	(3.0-	1.7-)	2000 02 23	120	1.1-	0.3-	2000 03 06	704	0.0	0.2+
1993 10 11	809	(1.0+	3.1-)	2000 02 23	120	0.7+	0.4-	2000 03 08	704	0.0	0.1+
1993 10 11	809	(0.9+	2.6-)	2000 02 23	120	0.2-	1.0+	2000 03 08	704	0.0	0.9-
1993 10 11	809	(0.2-	2.5-)	2000 02 25	703	0.1-	0.2+	2000 03 08	704	0.5+	0.3+
1993 10 20	809	0.7+	0.4+	2000 02 25	703	1.1+	0.7+	2000 03 08	704	1.0-	0.3-
1993 10 20	809	0.6+	0.2+	2000 02 25	703	0.5+	1.0+	2000 03 08	704	0.7-	0.7-
1993 10 20	809	0.3+	0.2-	2000 02 25	703	0.6-	1.0+	2000 03 11	704	0.4+	0.5+
1996 03 27	809	0.1+	0.7-	2000 02 29	704	0.2-	0.1+	2000 03 11	704	0.0	0.0
1996 03 27	809	0.7-	0.6-	2000 02 29	704	0.1-	0.7+	2000 03 11	704	0.8+	1.0+
1996 03 27	809	0.1-	1.1-	2000 02 29	704	0.0	0.1-	2000 03 11	699	0.8+	1.1-
1998 12 22	910	0.1+	1.3-	2000 02 29	704	0.1-	0.9+	2000 03 11	704	0.5+	0.6+
1998 12 22	910	0.5+	1.2-	2000 03 03	704	0.7-	0.2+	2000 03 11	704	0.5+	1.1+
1998 12 22	910	0.4+	1.4-	2000 03 03	704	0.1+	0.1+	2000 03 11	699	0.8+	0.2-
2000 02 04	704	1.1+	1.2+	2000 03 03	704	0.0	0.1+	2000 03 11	699	0.1-	0.2-
2000 02 04	704	0.1+	0.3+	2000 03 03	704	0.2-	0.1-	2000 03 11	699	0.1-	0.0
2000 02 04	704	0.7+	0.5-	2000 03 03	704	0.5-	0.0				
2000 02 04	704	1.1-	1.4-	2000 03 05	704	0.3-	0.8-				

2000 CB₃₄ = 1996 JS₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	293.61952		(2000.0)	P	Q	
<i>n</i>	0.22679953	ω	88.20382	-0.49935046	+0.85918513	
<i>a</i>	2.6630212	Ω	150.97577	-0.85785429	-0.47226405	
<i>e</i>	0.1331653	<i>i</i>	13.29567	-0.12138839	-0.19689482	
<i>P</i>	4.35	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1996 05 14	327	0.1-	0.1-	2000 02 06	120	0.7+	0.2-	2000 03 11	699	0.5-	0.1+
1996 05 14	327	0.1-	0.1-	2000 02 25	703	0.3-	0.7+	2000 03 11	699	0.3-	0.0
1996 05 14	327	0.1-	0.1+	2000 02 25	703	1.2-	0.1+	2000 03 11	699	0.2+	0.4-

1996 05 15	327	0.0	0.4+	2000 02 25	703	0.0	0.6+	2000 03 11	699	0.3+	0.2-
1996 05 15	327	0.1+	0.1+	2000 02 25	703	0.7-	0.1-	2000 03 12	704	0.3+	0.3-
1996 05 15	327	0.2+	0.3-	2000 03 05	704	0.6+	0.0	2000 03 12	704	0.0	0.0
2000 02 04	120	0.1-	1.3-	2000 03 05	704	0.2+	0.2-	2000 03 12	704	0.0	0.1-
2000 02 04	120	0.7+	0.3+	2000 03 05	704	0.3+	0.2+	2000 03 12	704	0.1-	0.2+
2000 02 04	120	1.2+	0.6-	2000 03 05	704	0.1-	0.0	2000 03 12	704	0.5-	0.1+
2000 02 06	120	0.3-	0.5+	2000 03 05	704	0.2-	0.4+				

2000 CC₃₄ = 1994 SR₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	272.62995		(2000.0)	P	Q	
<i>n</i>	0.28253357	ω	229.41971	-0.02340706	+0.99972156	
<i>a</i>	2.3001492	Ω	39.23935	-0.91579979	-0.02024498	
<i>e</i>	0.2091838	<i>i</i>	0.27026	-0.40095244	-0.01212162	
<i>P</i>	3.49	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1994 09 28	691	0.0	0.1+	2000 02 06	120	0.1-	0.3-	2000 02 29	704	0.3-	0.1+
1994 09 28	691	0.0	0.0	2000 02 06	120	0.2+	0.4-	2000 02 29	704	0.1-	0.1+
1994 09 28	691	0.2+	0.2+	2000 02 06	120	0.1+	0.2+	2000 02 29	704	0.1+	0.4-
1994 10 04	691	0.1-	0.0	2000 02 06	120	0.3-	0.4-	2000 03 03	704	0.1+	0.3+
1994 10 11	691	0.1+	0.6+	2000 02 10	120	0.1-	0.6+	2000 03 03	704	0.3+	0.1+
1994 10 11	691	0.5-	0.3+	2000 02 10	120	0.4+	0.9+	2000 03 03	704	0.3+	0.4+
1994 10 11	691	0.3-	0.3+	2000 02 11	704	0.6-	0.8-	2000 03 03	704	0.4+	0.4+
1997 06 10	046	0.0	0.1+	2000 02 11	704	0.5+	0.2+	2000 03 03	704	0.4+	0.5+
1997 06 10	046	0.0	0.2-	2000 02 11	704	0.2-	0.1-	2000 03 11	704	0.2+	0.1-
1997 06 10	046	0.2-	0.1-	2000 02 11	704	0.3-	0.3-	2000 03 11	704	0.4-	0.1-
1997 06 10	046	0.1+	0.1+	2000 02 11	704	0.7-	0.8-	2000 03 11	704	0.0	0.2+
1998 11 25	699	0.0	0.6+	2000 02 13	120	1.6+	0.4-	2000 03 11	699	0.1+	0.0
1998 11 25	699	0.1+	0.0	2000 02 13	120	0.2+	0.5+	2000 03 11	704	0.1-	0.2+
1998 11 25	699	0.1+	1.4-	2000 02 25	703	0.2-	0.4-	2000 03 11	704	0.5+	0.4-
2000 02 04	120	(3.2-	0.1-)	2000 02 25	703	0.9-	0.4+	2000 03 11	699	1.0+	1.0-
2000 02 04	120	1.6-	0.2+	2000 02 25	703	0.3-	0.3+	2000 03 11	699	0.3-	0.4+
2000 02 04	120	1.0+	0.0	2000 02 25	703	0.1-	0.1+	2000 03 11	699	0.4-	0.6+
2000 02 06	120	(2.2+	0.1-)	2000 02 29	704	0.0	0.1+				

2000 CD₃₄ = 1970 EG₃ = 1998 QF₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	49.32012		(2000.0)	P	Q	
<i>n</i>	0.26246508	ω	108.38876	+0.01813541	-0.99969879	
<i>a</i>	2.4159524	Ω	340.54976	+0.89756691	+0.02356482	
<i>e</i>	0.1921262	<i>i</i>	2.84646	+0.44050512	-0.00685815	
<i>P</i>	3.76	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1970 03 10	805	0.9-	0.1-	2000 02 04	704	1.1+	0.8+	2000 02 25	703	1.1+	0.4+
1970 03 10	805	0.7+	0.0	2000 02 04	704	1.3+	1.0+	2000 02 25	703	0.4-	0.3+
1970 03 10	805	0.3+	0.2+	2000 02 04	704	0.5+	0.5+	2000 02 29	704	0.1+	0.2+
1998 08 17	704	0.0	0.7+	2000 02 04	120	0.4-	0.1+	2000 02 29	704	0.1-	0.1-
1998 08 17	704	0.4-	0.9+	2000 02 04	120	0.6-	0.3-	2000 02 29	704	0.0	0.0
1998 08 17	704	(1.1-	2.7+)	2000 02 04	120	0.6-	0.1+	2000 02 29	704	0.3-	0.0
1998 08 17	704	1.8-	0.8-	2000 02 06	120	0.8+	0.1+	2000 02 29	704	0.4-	0.4-
1998 08 23	699	0.6+	0.9-	2000 02 06	120	0.1-	0.2+	2000 03 03	704	0.1+	0.4-
1998 08 23	704	0.9-	0.9+	2000 02 10	120	0.3+	0.1-	2000 03 03	704	0.1-	0.1-
1998 08 23	704	0.7+	0.3-	2000 02 10	120	0.1-	0.3-	2000 03 03	704	0.1+	0.0
1998 08 23	699	0.6-	1.0+	2000 02 11	704	0.3-	0.7+	2000 03 03	704	0.2-	0.1-
1998 08 23	704	0.2+	1.7+	2000 02 11	704	0.4+	0.6+	2000 03 03	704	0.3-	0.1+
1998 08 23	699	0.1+	1.1+	2000 02 11	704	0.4+	0.3+	2000 03 11	704	0.1-	0.1-
1999 11 16	704	0.3+	0.3-	2000 02 11	704	0.3+	0.1+	2000 03 11	704	0.2+	0.1-
1999 11 16	704	0.7+	0.2-	2000 02 11	704	0.4+	0.0	2000 03 11	704	0.1+	0.2-
1999 11 16	704	0.2+	1.3+	2000 02 11	691	0.2+	0.5-	2000 03 11	699	0.3-	0.5+
1999 11 16	704	0.2+	0.4+	2000 02 11	691	0.1+	0.5-	2000 03 11	704	0.2+	0.1+
2000 01 04	704	1.2-	0.7-	2000 02 11	691	0.0	0.5-	2000 03 11	704	0.1+	0.2+
2000 01 04	704	0.2-	0.0	2000 02 13	120	0.5-	0.1+	2000 03 11	699	0.2-	0.1+
2000 01 04	704	1.6-	0.8-	2000 02 13	120	0.5+	0.0	2000 03 11	699	0.1-	0.2+

2000 02 04	704	0.9+	0.5+	2000 02 25	703	0.4+	0.2+	2000 03 11	699	0.6-	0.1+
2000 02 04	704	0.3+	0.1+	2000 02 25	703	0.0	0.4+				

2000 CE₃₄ = 1981 UK₂₀ = 1997 NF

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	95.70840		(2000.0)		P		Q
<i>n</i>	0.17621293	ω	252.39440		+0.71815161		-0.69418025
<i>a</i>	3.1509696	Ω	151.50754		+0.67089884		+0.67208000
<i>e</i>	0.1745485	<i>i</i>	5.85980		+0.18480530		+0.25772515
<i>P</i>	5.59	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 10 28	095	0.1-	0.3+	2000 02 06	704	0.2-	0.6+	2000 02 29	704	0.3-	0.1+
1997 07 01	691	0.2+	0.6+	2000 02 06	704	0.9+	1.5-	2000 02 29	704	0.0	0.2+
1997 07 01	691	0.3+	0.5+	2000 02 06	704	0.8+	1.0+	2000 02 29	704	0.2-	0.4+
1997 07 01	691	0.5+	0.3+	2000 02 10	120	1.9-	1.9+	2000 03 03	704	0.2-	0.1+
1997 07 02	691	0.2-	0.8+	2000 02 10	120	0.5+	0.1-	2000 03 03	704	0.3+	0.1-
1997 07 02	691	0.5-	0.5+	2000 02 11	704	0.3+	1.2+	2000 03 03	704	0.6+	0.3+
1997 07 12	691	0.4-	0.3+	2000 02 11	704	0.1+	0.7+	2000 03 03	704	0.1+	0.1+
1997 07 12	691	0.4-	0.1+	2000 02 11	704	(2.4+ 0.3-)		2000 03 03	704	0.3+	0.5+
1997 07 12	691	0.1-	0.3+	2000 02 11	691	0.3-	0.7-	2000 03 06	704	0.0	0.5+
1998 11 16	566	0.6-	0.3-	2000 02 11	691	0.3-	0.6-	2000 03 06	704	0.4+	0.8+
1998 11 16	566	0.7-	0.1-	2000 02 11	691	0.2-	0.7-	2000 03 06	704	0.5+	0.1+
1998 11 16	566	0.7-	0.3-	2000 02 13	120	1.8-	0.1-	2000 03 09	608	0.1-	0.7-
1998 12 22	704	0.5+	0.9+	2000 02 13	120	1.1-	0.4+	2000 03 09	608	0.7+	0.8-
1998 12 22	704	0.2+	0.2+	2000 02 23	120	0.2+	0.1+	2000 03 09	608	(0.0 2.9-)	
1998 12 22	704	0.3+	0.0	2000 02 23	120	0.2-	0.2+	2000 03 11	704	0.6+	1.2-
1998 12 22	704	0.8+	1.1+	2000 02 23	120	0.6-	1.5+	2000 03 11	704	0.1+	0.7+
2000 02 04	120	1.5-	1.3-	2000 02 25	703	0.9-	1.9+	2000 03 11	699	0.8+	0.0
2000 02 04	120	0.0	0.6-	2000 02 25	703	0.1-	0.1+	2000 03 11	704	0.4+	0.0
2000 02 04	120	0.1-	1.0-	2000 02 25	703	0.9+	0.7+	2000 03 11	704	0.3+	0.0
2000 02 06	120	0.6-	0.2-	2000 02 25	703	1.1+	0.1+	2000 03 11	699	0.3+	0.0
2000 02 06	120	0.6+	0.3-	2000 02 29	704	0.2+	0.3-	2000 03 11	699	0.1+	0.4+
2000 02 06	120	0.2-	0.9-	2000 02 29	704	0.3+	0.9-	2000 03 11	699	0.4+	0.1+

2000 CF₃₄ = 1998 XK₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	267.11155		(2000.0)		P		Q
<i>n</i>	0.23256537	ω	70.56161		-0.23942202		+0.97091363
<i>a</i>	2.6188223	Ω	185.58705		-0.89815646		-0.22224395
<i>e</i>	0.0480675	<i>i</i>	1.14996		-0.36877104		-0.08907494
<i>P</i>	4.24	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 10 23	910	0.4+	0.3+	2000 02 06	120	0.7+	0.2-	2000 02 29	704	0.1+	0.5-
1998 10 23	910	0.3+	0.1+	2000 02 06	120	0.5+	0.1-	2000 03 03	704	0.3+	0.6-
1998 10 23	910	0.0	0.3+	2000 02 06	704	0.4-	0.7+	2000 03 03	704	0.3+	0.4-
1998 12 10	691	0.7-	0.6-	2000 02 06	704	0.2-	1.1+	2000 03 03	704	0.1+	0.1+
1998 12 10	691	0.7-	0.0	2000 02 06	704	0.4-	0.9+	2000 03 03	704	0.4+	0.0
1998 12 10	691	0.2-	0.1+	2000 02 23	120	(3.0- 1.1+)		2000 03 03	704	0.5+	0.0
1998 12 13	691	0.2+	0.1-	2000 02 23	120	1.6-	0.4-	2000 03 11	704	0.0	0.4+
1998 12 13	691	0.9+	0.0	2000 02 23	120	1.6-	0.2-	2000 03 11	704	0.5+	0.9+
1998 12 13	691	0.1+	0.3-	2000 02 24	120	0.3+	0.8-	2000 03 11	704	0.2-	0.3+
2000 02 02	704	0.8-	0.8+	2000 02 24	120	1.8-	1.0-	2000 03 11	699	0.5+	0.0
2000 02 02	704	0.3-	0.1+	2000 02 27	120	0.5-	0.9-	2000 03 11	704	0.0	0.2+
2000 02 02	704	0.0	0.5-	2000 02 27	120	0.3-	0.9-	2000 03 11	704	0.0	0.9+
2000 02 02	704	0.3+	0.7+	2000 02 29	704	0.7+	0.1-	2000 03 11	699	0.1-	0.4+
2000 02 05	120	0.4-	0.9+	2000 02 29	704	0.4+	0.0	2000 03 11	699	0.4+	0.7+
2000 02 05	120	1.6+	0.7-	2000 02 29	704	0.7+	0.5-	2000 03 11	699	0.4-	0.1+
2000 02 05	120	(2.5+ 1.0+)		2000 02 29	704	0.7+	0.7-				

2000 CJ₃₄ = 1986 RX₈ = 1995 WS₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	264.12641		(2000.0)		P		Q
<i>n</i>	0.26473085	ω	113.19173		+0.11812076		+0.99292852
<i>a</i>	2.4021475	Ω	163.57875		-0.92570036		+0.11442623
<i>e</i>	0.2104147	<i>i</i>	2.40258		-0.35934153		+0.03161635
<i>P</i>	3.72	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1986 09 08	095	0.1-	0.3-	2000 02 05	120	0.5-	0.6-	2000 02 29	704	0.3+	0.4-
1995 11 18	691	0.2+	0.4-	2000 02 05	120	0.6-	0.3-	2000 03 03	704	0.0	0.0
1995 11 18	691	0.5+	0.0	2000 02 06	120	0.2-	0.6-	2000 03 03	704	0.1+	0.1-
1995 11 18	691	0.6+	0.2-	2000 02 06	120	0.3+	0.1-	2000 03 03	704	0.0	0.0
1995 11 28	691	0.1-	0.3-	2000 02 06	704	1.2+	0.1-	2000 03 03	704	0.1-	0.1+
1995 11 28	691	0.0	0.3-	2000 02 06	704	0.1+	1.1+	2000 03 03	704	0.1-	0.1+
1995 11 28	691	0.0	0.7-	2000 02 06	704	1.1+	0.2-	2000 03 09	608	0.2-	0.3-
1997 06 26	327	0.1-	1.0+	2000 02 06	704	0.9+	1.5-	2000 03 09	608	0.3-	0.4-
1997 06 26	327	0.3+	0.9-	2000 02 11	704	0.3+	0.7+	2000 03 09	608	0.2-	0.4+
1997 06 26	327	0.2-	1.0+	2000 02 11	704	0.2+	0.6+	2000 03 11	704	0.2-	0.1+
1998 12 15	704	1.5+	0.3+	2000 02 11	704	0.0	1.1+	2000 03 11	704	0.3-	0.1+
1998 12 15	704	0.3-	1.1-	2000 02 11	704	0.2-	1.0+	2000 03 11	704	0.1+	0.0
1998 12 15	704	0.8-	0.4+	2000 02 11	704	0.2-	0.1+	2000 03 11	699	0.3-	0.1+
1998 12 15	704	1.1-	2.0+	2000 02 23	120	0.9-	0.3-	2000 03 11	704	0.1-	0.1+
2000 02 02	704	0.5-	0.0	2000 02 23	120	0.4-	0.4-	2000 03 11	704	0.4+	0.5+
2000 02 02	704	0.2-	0.1-	2000 02 23	120	0.2-	0.5-	2000 03 11	699	0.4+	0.5+
2000 02 02	704	0.4+	0.3+	2000 02 29	704	0.1+	0.4-	2000 03 11	699	0.1-	0.0
2000 02 02	704	0.9+	0.6+	2000 02 29	704	0.1-	0.2+	2000 03 11	699	0.1+	0.2+
2000 02 02	704	0.6+	0.6+	2000 02 29	704	0.2-	0.4-				
2000 02 05	120	1.3-	0.5-	2000 02 29	704	0.0	0.1+				

2000 CK₃₄ = 1998 RQ₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	104.39758		(2000.0)		P		Q
<i>n</i>	0.27558202	ω	70.44975		+0.73392882		-0.67775837
<i>a</i>	2.3386692	Ω	332.16325		+0.58184564		+0.66124898
<i>e</i>	0.0985826	<i>i</i>	5.48486		+0.35043420		+0.32154841
<i>P</i>	3.58	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 23	704	1.0+	0.2-	2000 02 05	120	0.9-	0.5-	2000 02 23	120	0.1-	1.5-
1998 08 23	704	0.1+	0.1+	2000 02 05	120	0.8-	0.4-	2000 02 24	120	0.1-	1.2-
1998 08 23	704	0.5-	0.0	2000 02 05	704	0.2+	0.1-	2000 02 24	120	0.6-	0.4-
1998 08 23	704	0.9-	0.7+	2000 02 05	704	0.6+	0.0	2000 02 29	704	0.0	0.5+
1998 08 23	704	0.8+	0.9+	2000 02 05	704	0.5+	0.0	2000 02 29	704	0.2-	0.1+
1998 08 26	699	0.7-	1.8+	2000 02 06	120	0.1+	0.2-	2000 02 29	704	0.1-	1.1+
1998 08 26	699	0.1+	0.1+	2000 02 06	120	0.6-	0.8+	2000 02 29	704	0.1+	0.2+
1998 08 26	699	0.0	1.5+	2000 02 06	704	0.3+	0.2+	2000 02 29	704	0.3+	0.4+
1998 09 14	704	0.8-	0.5-	2000 02 06	704	0.7+	0.6+	2000 03 03	704	0.2-	0.5+
1998 09 14	704	1.7+	1.5-	2000 02 06	704	0.3+	0.1+	2000 03 03	704	0.2-	0.6+
1998 09 14	704	0.4-	1.2-	2000 02 10	120	0.5+	0.7-	2000 03 03	704	0.1-	0.5+
1998 09 14	704	0.1-	0.5-	2000 02 10	120	0.0	0.1+	2000 03 03	704	0.2-	0.8+
1998 09 18	704	0.3-	0.0	2000 02 10	120	0.7-	0.1+	2000 03 03	704	0.1+	1.2+
1998 09 18	704	0.1-	0.2-	2000 02 13	120	0.7+	0.2-	2000 03 11	704	0.9+	0.3+
1998 09 18	704	0.5+	0.4+	2000 02 13	120	0.1+	0.7-	2000 03 11	704	0.2+	0.3+
1998 09 18	704	0.2+	0.5+	2000 02 14	691	0.0	0.1-	2000 03 11	704	0.8+	0.4+
1998 09 18	704	0.3-	0.9-	2000 02 14	691	0.2-	0.0	2000 03 11	704	0.6+	0.4+
1998 09 25	699	0.5-	0.6+	2000 02 14	691	0.1-	0.0	2000 03 11	704	0.1+	0.6+
1998 09 25	699	0.7-	0.3+	2000 02 23	120	0.2-	0.8-				
1998 09 25	699	0.4-	0.6+	2000 02 23	120	0.7-	0.6-				

2000 MAR. 20

M.P.C. 39387

2000 CS₃₄ = 1994 PU₁₉ = 1998 QL₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	77.23055	ω	283.58928	+0.56290918	−0.82532682		
<i>a</i>	2.5401308	Ω	132.06402	+0.77954970	+0.51231477		
<i>e</i>	0.2299419	<i>i</i>	3.42655	+0.27465528	+0.23742203		
<i>P</i>	4.05	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 08 12	809	0.6+	0.4+	2000 02 04	704	0.5+	0.3−	2000 03 02	012	0.1−	0.1+
1994 08 12	809	0.0	0.5−	2000 02 04	704	0.3+	0.1+	2000 03 02	012	0.4+	0.5−
1994 08 12	809	0.0	0.1+	2000 02 04	104	0.5+	0.9+	2000 03 02	012	0.1+	0.0
1994 08 13	809	0.6+	0.7+	2000 02 04	104	0.8+	0.7+	2000 03 02	012	0.1−	0.1+
1994 08 13	809	1.0−	0.0	2000 02 06	104	1.6+	1.1−	2000 03 02	120	0.2+	0.6−
1994 08 13	809	0.7−	1.1+	2000 02 06	104	0.3−	0.3+	2000 03 02	120	0.6−	0.5−
1998 08 17	704	0.5−	0.5−	2000 02 06	104	1.0+	0.5+	2000 03 02	120	0.2−	0.2+
1998 08 17	704	0.8−	0.5+	2000 02 11	704	0.8+	0.5+	2000 03 05	120	0.7−	0.9+
1998 08 17	704	0.8+	0.5−	2000 02 11	704	0.1+	0.7−	2000 03 05	120	1.2−	0.6−
1998 08 17	704	(0.3+	2.2−)	2000 02 11	704	0.9+	0.2+	2000 03 05	120	0.5−	0.5+
1998 08 17	704	0.2−	0.2+	2000 02 13	104	0.2−	0.5+	2000 03 06	120	0.2−	0.0
1998 08 23	699	0.6−	0.1−	2000 02 13	104	0.8−	0.0	2000 03 06	120	0.2+	0.4+
1998 08 23	704	(2.3−	2.4−)	2000 02 23	120	0.7−	0.2+	2000 03 11	699	0.5−	0.8+
1998 08 23	704	(2.3−	0.2−)	2000 02 23	120	(2.2−	0.4+)	2000 03 11	699	1.1−	0.2+
1998 08 23	699	0.1+	0.7+	2000 02 23	120	0.8−	0.5+	2000 03 11	699	0.5−	0.3+
1998 08 23	704	1.3+	0.8−	2000 02 24	104	0.1−	0.4−	2000 03 11	699	0.5−	0.6+
1998 08 23	699	0.6+	1.3+	2000 02 24	104	0.0	0.3−	2000 03 12	704	0.7+	0.2−
1998 08 23	704	0.8−	0.2−	2000 02 24	104	0.1−	0.1−	2000 03 12	704	0.3+	0.2+
2000 02 04	704	0.9+	0.9−	2000 02 28	120	0.8+	0.2−	2000 03 12	704	0.3−	0.1−
2000 02 04	704	0.1+	0.1−	2000 02 28	120	0.4−	0.2−	2000 03 12	704	0.1−	0.0
2000 02 04	704	0.7+	0.4+	2000 03 02	012	0.2−	0.0	2000 03 12	704	0.6+	0.0

2000 CB₃₅ = 1992 EG₂₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	184.24124	ω	168.57206	+0.65908376	+0.73714381		
<i>a</i>	2.6069761	Ω	142.37952	−0.70782965	+0.67499107		
<i>e</i>	0.1834130	<i>i</i>	14.13675	−0.25413734	+0.03171836		
<i>P</i>	4.21	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 03 02	809	0.8+	0.8−	2000 01 30	703	0.1−	0.1+	2000 02 06	704	0.5+	0.0
1992 03 05	809	0.8−	0.2+	2000 01 30	703	1.0−	0.2−	2000 02 06	704	0.3+	0.5+
1996 02 17	010	(3.6+	0.9+)	2000 01 30	703	0.3−	0.2−	2000 02 06	704	0.1−	0.4−
1996 02 17	010	(3.3+	0.0)	2000 01 30	703	0.4−	0.2+	2000 02 06	704	0.4+	0.2−
1996 02 17	010	(3.5+	0.5−)	2000 02 02	704	0.1−	0.1−	2000 02 06	704	0.2+	0.2+
1998 11 13	704	0.5+	0.1−	2000 02 02	704	0.1−	0.3+	2000 02 06	704	1.5+	0.3−
1998 11 13	704	0.5+	0.9+	2000 02 02	704	0.3−	0.3+	2000 02 06	704	1.0+	1.0−
1998 11 13	704	0.0	0.5−	2000 02 02	704	0.4+	0.2+	2000 02 06	704	1.2+	1.3+
1998 11 13	704	0.9−	0.6−	2000 02 02	704	0.2−	0.2−	2000 02 06	704	0.0	0.6+
1998 11 13	704	(4.6−	1.9+)	2000 02 05	704	0.7+	0.3+	2000 02 27	703	0.0	0.4−
2000 01 07	704	0.3−	0.8−	2000 02 05	704	0.1−	0.1−	2000 02 27	703	0.4−	1.0+
2000 01 07	704	(2.4+	1.3−)	2000 02 05	704	0.4+	0.0	2000 02 27	703	1.8−	0.1−
2000 01 07	704	0.9+	0.9−	2000 02 06	704	1.0−	1.6+	2000 02 27	703	1.3−	1.2−

2000 CF₃₅ = 1997 EQ₇ = 1998 RF₃₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	171.63984	ω	171.85308	+0.78915864	+0.61336497		
<i>a</i>	2.2699147	Ω	150.24039	−0.56705902	+0.74752224		
<i>e</i>	0.2026617	<i>i</i>	3.67473	−0.23595067	+0.25493904		
<i>P</i>	3.42	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 03 07	684	0.3+	0.3+	1998 09 18	704	0.2−	0.4+	2000 02 02	704	0.6+	0.7+
1997 03 07	684	0.2+	0.4+	1998 09 18	704	1.1+	0.4+	2000 02 03	704	0.4−	0.0
1997 03 08	684	0.1−	0.4+	1998 09 18	704	0.9+	1.0+	2000 02 03	704	0.1−	0.4+
1997 03 08	684	0.2+	0.3+	1998 09 27	699	0.3+	0.4−	2000 02 03	704	0.0	0.6+
1997 03 08	684	0.1+	0.7+	1998 09 27	699	0.3+	0.2−	2000 02 03	704	1.5+	0.3+
1998 06 29	704	(3.1+	1.7+)	1998 09 27	699	0.1+	0.2−	2000 02 03	704	0.5+	0.2+
1998 06 29	704	0.2−	1.8+	1998 10 10	699	0.6−	0.1+	2000 02 05	704	0.1−	0.5−
1998 06 29	704	(1.0+	2.1+)	1998 10 10	699	0.2+	0.4−	2000 02 05	704	0.5−	0.2−
1998 06 29	704	0.0	0.8−	1998 10 10	699	0.5−	0.7−	2000 02 05	704	0.0	0.8−
1998 06 29	704	(4.3−	0.8−)	2000 01 26	691	0.8−	0.2−	2000 02 05	704	0.1+	0.4+
1998 08 03	699	0.4−	0.0	2000 01 26	691	0.7−	0.1−	2000 02 05	704	0.1+	0.7−
1998 08 03	699	0.1+	0.5−	2000 01 26	691	0.9−	0.2−	2000 02 05	704	0.4+	0.8−
1998 08 03	699	0.3−	0.5−	2000 01 30	703	0.6−	0.5−	2000 02 05	704	0.3+	0.1+
1998 09 14	704	0.3−	0.1+	2000 01 30	703	(2.6−	1.3+)	2000 02 06	704	0.1+	1.1−
1998 09 14	704	0.7−	0.5+	2000 01 30	703	0.1+	0.3+	2000 02 06	704	0.4+	0.0
1998 09 14	704	0.6−	0.7+	2000 01 30	703	0.6−	1.2+	2000 02 06	704	1.0−	0.3−
1998 09 14	704	0.1−	0.7+	2000 02 02	704	0.7+	1.0+	2000 03 04	691	0.5−	0.1+
1998 09 18	704	(2.2+	0.4+)	2000 02 02	704	0.5+	0.4+	2000 03 04	691	0.4−	0.1−
1998 09 18	704	(1.6+	2.4−)	2000 02 02	704	1.8+	0.0	2000 03 04	691	0.6−	0.0

2000 CN₃₅ = 1968 KN = 1976 HP = 1989 RM₃ = 1989 SE₁₂ = 1993 RO₃
= 1997 NK₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	244.01834	ω	94.82668	+0.17766598	+0.98400459		
<i>a</i>	2.5669346	Ω	185.45917	−0.94844701	+0.16768472		
<i>e</i>	0.2606829	<i>i</i>	7.87184	−0.26245585	+0.06013988		
<i>P</i>	4.11	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1968 05 22	095	0.5+	0.2+	1997 07 08	691	0.4−	0.8+	2000 02 05	704	0.9+	0.4−
1976 04 23	095	0.9−	1.3−	1997 07 08	691	0.3−	0.7+	2000 02 06	704	1.0+	0.1−
1989 09 09	474	(4.9+	23.3−)	1997 07 13	691	1.0+	0.7+	2000 02 06	704	0.3+	0.1−
1989 09 09	474	(4.5−	1.2+)	1997 07 13	691	0.4−	0.7+	2000 02 06	704	0.3−	0.7−
1989 09 30	809	(2.3+	3.3+)	1997 07 13	691	0.5−	0.8+	2000 02 06	704	0.1+	0.3+
1989 09 30	809	0.1+	1.4+	2000 02 02	704	0.5−	0.4+	2000 02 06	704	0.3+	1.1+
1989 09 30	809	2.1−	0.6−	2000 02 02	704	0.8+	0.1+	2000 02 27	703	0.4−	0.2+
1993 09 14	675	(2.5+	0.3+)	2000 02 02	704	0.4+	0.7+	2000 02 27	703	1.1−	1.0+
1993 09 14	675	1.2+	0.2−	2000 02 02	704	0.0	0.6+	2000 02 27	703	0.4−	0.9+
1993 09 16	675	0.1+	2.0−	2000 02 02	704	0.0	0.2+	2000 02 27	703	0.1−	0.2+
1993 09 16	675	0.6+	0.9+	2000 02 05	704	0.8+	0.3+				
1997 07 08	691	0.5−	0.9+	2000 02 05	704	0.1−	0.7+				

2000 CP₃₅ = 1998 US₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	15.94908	ω	243.73293	−0.51882818	−0.85384117		
<i>a</i>	3.1416271	Ω	237.58391	+0.80105163	−0.46837111		
<i>e</i>	0.1554406	<i>i</i>	2.85872	+0.29855250	−0.22712059		
<i>P</i>	5.57	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 28	704	0.8−	0.0	2000 01 05	704	0.2+	0.3+	2000 02 04	704	(2.5+	0.5+)
1998 10 28	704	1.1+	0.3+	2000 01 05	704	0.5−	0.2−	2000 02 05	704	0.1−	0.4−
1998 10 28	704	1.4−	0.6+	2000 02 01	703	1.5−	0.6−	2000 02 05	704	0.1+	0.1−
1998 10 28	704	0.7+	0.9+	2000 02 01	703	0.4−	0.0	2000 02 05	704	0.0	0.1+
1998 10 29	704	0.7−	0.9+	2000 02 01	703	0.2−	0.2+	2000 02 05	704	0.5+	0.2−
1998 10 29	704	0.3−	0.3−	2000 02 01	703	0.3+	0.1+	2000 02 12	704	(3.7+	1.1+)
1998 10 29	704	0.8+	0.7−	2000 02 02	704	0.1−	0.1+	2000 02 12	704	(2.9−	1.2+)
1998 10 29	704	0.3+	1.0−	2000 02 02	704	0.3+	0.3+	2000 02 12	704	1.0+	0.3+
1999 12 07	704	0.1−	0.3+	2000 02 02	704	0.0	0.2−	2000 02 12	704	(1.2+	2.7−)
1999 12 07	704	0.6−	1.1−	2000 02 02	704	0.3+	0.3+	2000 02 12	704	0.3+	0.1−
1999 12 07	704	0.9−	0.2−	2000 02 02	704	0.0	0.4+	2000 02 27	703	0.6−	0.2+
1999 12 07	704	0.3+	0.8−	2000 02 04	704	0.4−	0.5−	2000 02 27	703	0.3+	0.1−
2000 01 05	704	0.2+	1.8−	2000 02 04	704	0.5+	0.9+	2000 02 27	703	0.6−	0.4+

M.P.C. 39388

2000 MAR. 20

2000 01 05	704	0.4−	0.0	2000 02 04	704	0.9+	0.7+	2000 02 27	703	0.1+	0.2+
2000 01 05	704	0.8+	0.1+	2000 02 04	704	0.2+	0.9+				

2000 CR₃₅ = 1993 FS₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	57.47259		(2000.0)		P		Q
n	0.27095049	ω	253.15273		+0.40360475		−0.91479645
a	2.3652448	Ω	172.98179		+0.88101815		+0.38391776
e	0.2188141	i	7.44507		+0.24679998		+0.12551735
P	3.64	H	14.5	G	0.15	U	4

Residuals in seconds of arc

1993 03 17	809	1.1+	0.5+	2000 02 02	704	0.2+	0.3+	2000 02 27	703	0.5−	0.4+
1993 03 18	809	0.9−	0.0	2000 02 02	704	0.3+	0.5+	2000 02 27	703	0.0	0.1−
1999 12 14	704	0.7−	0.7−	2000 02 02	704	0.2+	0.1+	2000 02 27	703	1.2−	0.2+
1999 12 14	704	0.8+	0.8+	2000 02 05	704	0.5−	0.7−	2000 02 27	703	0.3−	0.1−
1999 12 14	704	0.4+	1.0+	2000 02 05	704	0.1+	0.2+	2000 03 06	704	0.2−	0.7+
1999 12 14	704	0.5−	0.4−	2000 02 05	704	0.2−	0.2+	2000 03 06	704	0.4−	0.1+
1999 12 14	704	0.0	0.2+	2000 02 06	704	0.3+	0.4+	2000 03 06	704	0.5+	0.1−
2000 01 08	704	0.1+	0.1+	2000 02 06	704	0.5+	0.4−	2000 03 06	704	0.2+	0.6−
2000 01 08	704	0.0	1.0−	2000 02 06	704	0.3+	0.2−	2000 03 06	704	0.7−	0.9+
2000 01 08	704	0.4+	0.4−	2000 02 06	704	0.1−	0.1−	2000 03 11	608	0.2+	0.6−
2000 01 08	704	0.4+	0.1+	2000 02 06	704	0.4−	0.3−	2000 03 11	608	0.7+	0.6−
2000 01 08	704	0.6−	0.2+	2000 02 12	704	(1.0+	2.4+)	2000 03 11	608	0.7+	0.9−
2000 02 02	704	0.2−	0.2+	2000 02 12	704	(2.5−	1.8+)				
2000 02 02	704	0.3+	0.1+	2000 02 12	704	(4.8−	1.4−)				

2000 CU₃₅ = 1998 SC₁₀₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	7.50929		(2000.0)		P		Q
n	0.23535668	ω	317.60138		−0.76941788		−0.63870779
a	2.5980750	Ω	182.73121		+0.61821619		−0.74190277
e	0.1675627	i	8.40236		+0.16063891		−0.20404079
P	4.19	H	14.4	G	0.15	U	4

Residuals in seconds of arc

1998 09 26	704	1.2−	1.3+	2000 02 02	704	0.4−	0.1−	2000 02 12	704	0.0	0.1+
1998 09 26	704	1.5+	0.3+	2000 02 02	704	0.5−	0.1−	2000 02 12	704	0.5+	0.4+
1998 09 26	704	0.0	0.5−	2000 02 02	704	0.2−	0.2−	2000 02 12	704	0.2+	0.2+
1998 09 26	704	0.5+	1.3+	2000 02 05	704	0.1−	0.4+	2000 02 12	704	0.2−	0.0
1998 09 27	704	0.2+	0.4−	2000 02 05	704	0.9+	0.2−	2000 02 12	704	0.4+	0.3+
1998 09 27	704	0.5−	0.3−	2000 02 05	704	0.4−	0.6−	2000 03 13	704	0.3−	0.0
1998 09 27	704	0.8+	0.2−	2000 02 06	704	0.6−	0.2−	2000 03 13	704	0.0	0.1+
1998 09 27	704	0.1−	1.3−	2000 02 06	704	0.2−	0.0	2000 03 13	704	0.3+	0.3+
1998 09 27	704	1.2−	0.2−	2000 02 06	704	0.1+	0.0	2000 03 13	704	0.3+	0.5−
2000 02 02	704	0.3−	0.1+	2000 02 06	704	0.3+	0.0	2000 03 13	704	0.4−	0.1−
2000 02 02	704	0.0	0.0	2000 02 06	704	0.5+	0.3+				

2000 CF₃₆ = 1994 RO₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	329.66790		(2000.0)		P		Q	
n	0.28059677	ω	35.38355		−0.95462592		+0.29366482	
a	2.3107215	Ω	161.50415		−0.29629472		−0.91983130	
e	0.1520949	i	8.97699		−0.02997995		−0.26013719	
P	3.51	H	14.9		G	0.15	U	4

Residuals in seconds of arc

1994 09 03	809	1.3+	1.8+	2000 02 06	704	0.2+	0.4−	2000 03 04	704	0.2+	0.1−
1994 09 03	809	0.7+	0.9−	2000 02 06	704	0.3−	0.0	2000 03 04	704	0.3+	0.1+
1994 09 03	809	(0.4+	2.8+)	2000 02 06	704	0.2+	0.1−	2000 03 04	704	0.5+	0.0
1994 09 04	809	0.2+	0.9+	2000 02 06	704	0.6−	0.3+	2000 03 04	704	0.2+	0.0
1994 09 04	809	0.6−	0.8−	2000 02 13	704	(2.2+	2.5+)	2000 03 05	704	0.2+	0.1+
1994 09 04	809	1.5−	1.5−	2000 02 13	704	0.3−	1.0+	2000 03 05	704	0.8−	0.3−
2000 01 08	704	0.1−	1.4−	2000 02 13	704	1.3+	0.5−	2000 03 05	704	0.2+	0.2−

2000 01 08	704	1.0−	1.1+	2000 02 29	704	0.1−	0.1−	2000 03 05	704	0.0	0.2+
2000 01 08	704	0.7+	0.5−	2000 02 29	704	0.2−	0.2−	2000 03 05	704	0.4+	0.3−
2000 01 08	704	0.1+	0.1+	2000 02 29	704	0.0	0.0	2000 03 11	704	0.2+	0.7−
2000 02 02	704	0.0	0.5+	2000 02 29	704	0.0	0.4−	2000 03 11	704	0.2−	0.3−
2000 02 02	704	0.3+	0.1−	2000 02 29	704	0.4−	0.1−	2000 03 11	704	0.3+	0.3−
2000 02 02	704	0.2+	0.4−	2000 03 03	704	0.4+	0.3+	2000 03 11	704	0.2−	0.4−
2000 02 02	704	0.3−	0.0	2000 03 03	704	0.6+	0.4+	2000 03 11	699	0.7−	0.1+
2000 02 02	704	0.9−	0.1−	2000 03 03	704	0.5+	0.2+	2000 03 11	704	0.3+	0.1+
2000 02 05	704	0.4−	0.6+	2000 03 03	704	0.4−	0.4+	2000 03 11	699	0.7−	0.2+
2000 02 05	704	0.8+	0.2−	2000 03 03	704	0.4+	0.3+	2000 03 11	699	0.8−	0.1−
2000 02 05	704	0.1+	0.4+	2000 03 04	704	0.1+	0.4+	2000 03 11	699	0.3−	0.1−

2000 CG₃₆ = 1979 OA₆

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	277.50014		(2000.0)		P		Q
n	0.22174124	ω	298.08160		−0.40519978		+0.90961225
a	2.7033674	Ω	307.71918		−0.79280800		−0.39958852
e	0.0550313	i	6.66096		−0.45526764		−0.11373027
P	4.44	H	13.7	G	0.15	U	1

Residuals in seconds of arc

1979 07 24	675	1.3−	0.9+	1999 12 05	704	0.4−	0.7+	2000 02 06	704	0.9+	0.1+
1979 07 25	675	0.4+	1.9+	1999 12 05	703	0.0	0.1−	2000 02 06	704	1.0+	0.8−
1995 01 02	010	(2.9−	1.9−)	1999 12 05	703	1.0−	0.4−	2000 02 06	704	0.7+	0.6−
1995 01 02	010	(3.4−	1.7−)	1999 12 05	704	0.6+	0.2−	2000 02 12	704	(0.1−	2.8+)
1997 09 01	566	0.0	0.0	1999 12 05	703	0.6−	0.1−	2000 02 12	704	(0.9+	3.2+)
1997 09 01	566	0.1−	0.1−	2000 01 05	704	0.4+	0.4−	2000 02 12	704	0.5−	1.2+
1997 09 01	566	0.2+	0.2−	2000 01 05	704	0.8+	0.4−	2000 02 12	704	1.0−	0.3−
1998 12 14	704	1.0+	0.3+	2000 01 05	704	0.4−	0.6+	2000 02 12	704	0.5−	0.4+
1998 12 14	704	0.3+	0.0	2000 01 05	704	0.1+	1.7−	2000 03 11	699	0.1−	0.4+
1998 12 14	704	1.2−	0.4+	2000 02 02	704	0.3+	0.6+	2000 03 11	699	0.6−	0.1−
1998 12 14	704	(4.7−	0.2−)	2000 02 02	704	0.4+	0.3+	2000 03 11	699	0.7−	0.1−
1998 12 24	699	0.4−	1.1+	2000 02 02	704	0.5+	1.0+	2000 03 11	699	0.9−	0.3−
1998 12 24	699	(2.2−	2.7+)	2000 02 02	704	0.5+	1.5+	2000 03 13	704	0.1−	0.1+
1998 12 24	699	(1.5−	2.6+)	2000 02 02	704	0.9+	0.2+	2000 03 13	704	0.7+	0.1−
1999 12 05	704	0.2−	0.5−	2000 02 05	704	0.3+	0.4+	2000 03 13	704	0.9+	0.0
1999 12 05	704	0.4+	1.4+	2000 02 05	704	0.5−	0.8+	2000 03 13	704	0.5+	0.5−
1999 12 05	704	0.2+	0.2−	2000 02 05	704	0.1−	0.6+				
1999 12 05	703	0.9−	0.4−	2000 02 06	704	1.1−	1.2−				

2000 CL₃₆ = 1998 SP₇₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	18.39405		(2000.0)		P		Q
n	0.28297465	ω	219.02875		−0.72635268		−0.68435682
a	2.2977584	Ω	277.66068		+0.64562788		−0.64752048
e	0.0914314	i	3.68962		+0.23574652		−0.33522078
P	3.48	H	14.7	G	0.15	U	4

Residuals in seconds of arc

1998 09 26	704	0.2+	1.1−	2000 01 05	704	0.1−	0.4−	2000 02 06	704	0.7+	0.9−
1998 09 26	704	1.0−	1.6−	2000 01 05	704	0.7+	0.1+	2000 02 06	704	0.5+	0.3−
1998 09 26	704	(2.3−	0.3+)	2000 01 05	704	0.6+	0.2+	2000 03 08	704	0.7−	0.3−
1998 09 26	704	1.0−	0.3−	2000 02 02	704	0.3−	0.6+	2000 03 08	704	0.2−	0.1+
1998 09 26	704	0.1−	1.5+	2000 02 02	704	0.6−	0.1+	2000 03 08	704	0.0	0.1−
1998 09 27	704	1.4+	0.9+	2000 02 02	704	0.1−	0.4+	2000 03 08	704	0.2+	0.2+
1998 09 27	704	(0.5+	3.1+)	2000 02 02	704	0.8+	0.3+	2000 03 08	704	0.3+	0.4−
1998 09 27	704	0.3+	0.6+	2000 02 05	704	0.3−	1.1+	2000 03 13	704	0.1−	0.2−
1998 09 27	704	1.5+	1.6−	2000 02 05	704	0.2−	0.1+	2000 03 13	704	0.6−	1.3−
1998 09 27	704	0.8−	0.6+	2000 02 05	704	0.2−	0.6+	2000 03 13	704	0.8−	0.2+
2000 01 05	704	0.2−	0.5−	2000 02 06	704	0.1−	0.0	2000 03 13	704	0.7+	0.4−

2000 MAR. 20

M.P.C. 39389

2000 CM₃₆ = 1997 NG₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23817498	ω	230.75622	−0.98631854	+0.12754211		
<i>a</i>	2.5775392	Ω	316.28137	−0.05995619	−0.86772233		
<i>e</i>	0.1454286	<i>i</i>	8.69212	−0.15356106	−0.48040708		
<i>P</i>	4.14	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 07 13	910	0.0	0.2−	2000 02 05	704	0.7−	0.3+	2000 03 08	704	0.2−	0.2+
1997 07 13	910	0.1−	0.1−	2000 02 06	704	0.2+	0.2+	2000 03 08	704	0.8−	1.6+
1997 07 13	910	0.4+	0.4−	2000 02 06	704	1.1+	0.3−	2000 03 08	704	0.2+	0.0
1997 07 14	910	0.4−	0.4+	2000 02 06	704	0.2−	0.6+	2000 03 08	704	0.7−	0.2−
1997 07 14	910	0.0	0.8+	2000 02 06	704	0.7−	0.3−	2000 03 08	704	0.3+	0.7+
1997 07 14	910	0.0	0.2−	2000 02 07	704	0.7−	0.8−	2000 03 11	699	0.3+	0.5−
2000 02 02	704	1.3+	1.2−	2000 02 07	704	0.6−	0.3−	2000 03 11	699	0.6−	0.5+
2000 02 02	704	0.0	0.8+	2000 02 07	704	0.9−	0.2−	2000 03 11	699	0.4−	0.7+
2000 02 02	704	0.3+	0.0	2000 02 07	704	0.7−	0.5−	2000 03 11	699	0.0	0.5−
2000 02 02	704	0.8+	1.2+	2000 02 07	704	0.0	0.2−	2000 03 13	704	0.0	0.8−
2000 02 02	704	0.5+	0.6+	2000 03 01	704	0.1−	0.4+	2000 03 13	704	0.2+	0.5−
2000 02 05	704	0.3+	0.3−	2000 03 01	704	0.7+	0.0	2000 03 13	704	0.8+	0.8−
2000 02 05	704	0.3+	0.1−	2000 03 01	704	0.5+	0.5−				

2000 CO₃₆ = 1996 QT₂ = 1998 YX₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17293332	ω	33.87464	−0.71324242	+0.70079025		
<i>a</i>	3.1906825	Ω	190.64802	−0.65803807	−0.67604826		
<i>e</i>	0.1630512	<i>i</i>	4.14396	−0.24139419	−0.22770987		
<i>P</i>	5.70	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 08 18	010	1.1+	1.5−	1998 12 22	704	0.8−	0.9+	2000 03 03	704	0.1−	0.0
1996 08 18	010	0.2+	1.1−	1998 12 22	704	(3.3−	0.0)	2000 03 03	704	0.4−	0.0
1996 08 18	010	0.1+	1.3−	2000 02 02	704	0.7+	0.6+	2000 03 03	704	0.3−	0.1−
1996 08 20	010	0.8+	1.2+	2000 02 02	704	0.0	0.1−	2000 03 03	704	0.3−	0.2−
1996 08 20	010	0.9−	0.1−	2000 02 02	704	0.0	0.5+	2000 03 04	704	0.3+	0.3−
1996 08 20	010	0.7−	0.6+	2000 02 02	704	0.3−	0.8−	2000 03 04	704	0.3−	0.2+
1997 10 29	566	0.2+	0.6+	2000 02 02	704	0.3−	0.7+	2000 03 04	704	0.4+	0.5+
1997 10 29	566	0.0	0.6+	2000 02 05	704	0.2+	0.2−	2000 03 04	704	0.2−	0.8+
1997 10 29	566	0.2+	0.3+	2000 02 05	704	0.4+	0.4+	2000 03 04	704	0.2+	0.7+
1997 11 03	704	0.1+	0.3+	2000 02 05	704	0.0	0.5+	2000 03 05	704	0.1+	0.0
1997 11 03	704	(2.4−	0.1−)	2000 02 06	704	0.0	0.0	2000 03 05	704	0.3+	0.1+
1997 11 03	704	1.3−	1.1+	2000 02 06	704	0.0	0.1−	2000 03 05	704	0.4+	0.2+
1997 11 03	704	0.0	0.3−	2000 02 06	704	0.0	0.6+	2000 03 05	704	0.1−	0.0
1997 11 03	704	(4.2−	0.1+)	2000 02 06	704	0.1+	0.6+	2000 03 05	704	0.1−	0.1+
1998 12 15	704	1.9−	1.8−	2000 02 26	703	0.6+	0.5−	2000 03 11	699	0.3−	0.1+
1998 12 15	704	(2.6−	0.7−)	2000 02 26	703	0.2+	0.6−	2000 03 11	704	0.3+	0.1+
1998 12 15	704	0.6+	0.2−	2000 02 26	703	0.1−	0.0	2000 03 11	699	0.5−	0.1−
1998 12 15	704	(3.3−	2.7+)	2000 02 26	703	0.2−	0.8−	2000 03 11	704	0.1+	0.1+
1998 12 16	704	0.8+	0.3−	2000 02 29	704	0.3+	0.3−	2000 03 11	699	0.1−	0.1−
1998 12 16	704	(0.7−	2.3−)	2000 02 29	704	0.3−	0.9−	2000 03 11	704	0.4+	0.2+
1998 12 16	704	(0.1+	2.4−)	2000 02 29	704	0.3−	0.9−	2000 03 11	704	0.2+	0.2+
1998 12 22	704	0.9+	0.5+	2000 02 29	704	0.5−	1.0−	2000 03 11	699	0.3−	0.1+
1998 12 22	704	0.4+	1.9−	2000 03 03	704	0.1−	0.1−	2000 03 11	704	0.3+	0.1+

2000 CZ₃₆ = 1998 XO₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24429159	ω	7.02645	+0.16776638	+0.98531973		
<i>a</i>	2.5343332	Ω	272.63509	−0.90601137	+0.14146358		
<i>e</i>	0.0976887	<i>i</i>	1.81359	−0.38858441	+0.09556717		
<i>P</i>	4.03	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	0.8+	0.2+	2000 02 06	704	0.3−	0.2+	2000 03 03	704	0.1−	0.7+
1998 12 14	704	0.5+	0.5+	2000 02 06	704	0.7−	1.0+	2000 03 05	608	0.3−	0.3−
1998 12 14	704	0.1−	1.4+	2000 02 06	704	0.6+	0.2+	2000 03 05	608	0.3−	0.2−
1998 12 14	704	0.8−	1.1+	2000 02 06	704	0.7+	1.2+	2000 03 05	608	0.4−	0.3−
1998 12 17	704	0.7+	0.1−	2000 02 07	704	0.6−	1.2−	2000 03 08	704	0.0	0.4−
1998 12 17	704	0.3+	0.5−	2000 02 07	704	0.0	0.6−	2000 03 08	704	0.2+	0.6−
1998 12 17	704	0.0	0.9−	2000 02 07	704	0.4−	0.4+	2000 03 08	704	1.1+	0.9−
1998 12 17	704	0.4−	0.9−	2000 02 07	704	0.3−	0.0	2000 03 08	704	0.1−	0.5−
1998 12 17	704	0.9−	1.2−	2000 02 07	704	0.1−	0.7+	2000 03 08	704	0.1+	0.4−
2000 02 02	704	0.4+	0.6+	2000 02 29	704	0.1+	0.0	2000 03 11	704	0.2+	0.3−
2000 02 02	704	0.7+	0.5+	2000 02 29	704	0.5+	0.4−	2000 03 11	704	0.1+	0.3−
2000 02 02	704	0.6+	0.3+	2000 02 29	704	0.1+	0.3−	2000 03 11	704	0.3+	0.1−
2000 02 02	704	0.5−	1.3−	2000 02 29	704	0.1−	0.3−	2000 03 11	704	0.3+	0.2+
2000 02 02	704	0.5+	1.5−	2000 03 03	704	0.1−	0.3+	2000 03 11	699	0.3−	0.0
2000 02 05	704	0.1−	0.1+	2000 03 03	704	0.0	0.5+	2000 03 11	699	0.5−	0.4+
2000 02 05	704	0.1+	0.5+	2000 03 03	704	0.2−	0.5+	2000 03 11	699	0.4−	0.0
2000 02 05	704	0.1−	0.5+	2000 03 03	704	0.3−	0.5+	2000 03 11	699	0.3−	0.3+

2000 CA₃₇ = 1991 TW₅ = 1998 UO₁₇

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27767622	ω	192.28062	−0.19255872	−0.98112753		
<i>a</i>	2.3268957	Ω	268.82345	+0.90179503	−0.16985838		
<i>e</i>	0.0825263	<i>i</i>	1.00893	+0.38689387	−0.09239540		
<i>P</i>	3.55	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 10 03	033	0.8−	0.2+	2000 02 05	704	0.4+	0.5−	2000 03 05	704	0.3−	0.4+
1991 10 04	033	0.4−	1.5+	2000 02 05	704	0.2+	0.4+	2000 03 05	704	0.3−	0.2+
1991 10 04	033	0.2+	0.7+	2000 02 27	684	0.5+	0.5−	2000 03 05	704	0.0	0.1+
1998 09 27	699	0.9+	0.7+	2000 02 27	684	0.6+	0.3−	2000 03 05	704	0.4−	0.1+
1998 09 27	699	0.1+	0.2+	2000 02 29	684	0.4+	0.6−	2000 03 05	704	0.1−	0.1+
1998 09 27	699	0.7+	0.0	2000 02 29	684	0.5+	0.1−	2000 03 05	608	0.1+	0.2−
1998 10 18	327	0.4+	0.5−	2000 03 03	704	0.1+	0.3+	2000 03 05	608	0.2+	0.4−
1998 10 18	327	0.2+	1.3−	2000 03 03	691	0.3−	0.5−	2000 03 05	608	0.1+	1.3−
1998 10 18	327	0.5−	1.0−	2000 03 03	704	0.2+	0.3+	2000 03 10	691	0.3−	0.7−
1998 10 19	327	0.2−	0.5−	2000 03 03	704	0.1+	0.3+	2000 03 10	691	0.1+	0.6−
1998 10 19	327	0.5−	0.3−	2000 03 03	691	0.2−	0.3−	2000 03 10	691	0.0	0.5−
1998 10 19	327	0.1+	0.4−	2000 03 03	704	0.1−	0.1−	2000 03 11	704	0.3+	1.5+
2000 01 05	704	0.0	0.9−	2000 03 03	704	0.2−	0.4+	2000 03 11	704	0.3+	0.0
2000 01 05	704	0.3−	0.5−	2000 03 03	691	0.3−	0.4−	2000 03 11	704	0.3+	0.2+
2000 01 05	704	0.3−	0.6−	2000 03 04	704	0.1−	0.2+	2000 03 11	704	0.2+	0.6+
2000 02 02	704	0.4+	0.1+	2000 03 04	704	0.2−	0.3+	2000 03 11	704	0.3+	0.3+
2000 02 02	704	0.7+	0.1−	2000 03 04	704	0.1−	0.2+	2000 03 12	691	0.8−	0.2−
2000 02 02	704	0.1+	0.2−	2000 03 04	704	0.1+	0.3+	2000 03 12	691	0.8−	0.3−
2000 02 02	704	0.4−	1.5+	2000 03 04	704	0.0	0.4+	2000 03 12	691	0.8−	0.3−
2000 02 02	704	0.0	1.2+	2000 03 04	684	0.0	0.3−				
2000 02 05	704	0.1−	0.5+	2000 03 04	684	0.2−	0.4−				

2000 CC₃₇ = 1993 UM₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	291.22611		(2000.0)		P		Q
n	0.22575491	ω	87.28248		-0.31423255		+0.94892069
a	2.6712298	Ω	164.31275		-0.90742267		-0.29142492
e	0.1647876	i	6.03241		-0.27900181		-0.12091746
P	4.37	H	14.0	G	0.15	U	4

1998 12 22	704	0.1−	0.5−	2000 02 28	849	(2.1+ 1.0−)	2000 03 04	704	0.4+	0.6+
1998 12 22	704	0.2+	0.0	2000 02 28	849	0.2− 0.2−	2000 03 04	704	0.2−	0.1+
1998 12 22	704	(3.7− 0.4+)		2000 02 29	704	0.1+ 0.5−	2000 03 04	704	0.0	0.7+
1998 12 22	704	0.1−	0.8+	2000 02 29	704	0.5+ 0.3−	2000 03 04	704	0.2+	0.8+
2000 02 02	704	0.2+	0.0	2000 02 29	704	0.3+ 0.3−	2000 03 06	120	0.6−	0.1−
2000 02 02	704	0.6+	1.3−	2000 02 29	704	0.7+ 0.5−	2000 03 06	120	0.1−	0.3−
2000 02 02	704	0.3+ 0.3−		2000 03 01	732	0.4− 0.0	2000 03 06	120	0.1+ 0.4+	
2000 02 02	704	0.1+ 0.7+		2000 03 01	732	0.5− 0.3−	2000 03 11	704	0.2− 0.8−	
2000 02 02	704	0.1− 0.3+		2000 03 01	732	0.0 0.9+	2000 03 11	704	0.1− 0.6−	
2000 02 05	704	0.4− 0.7−		2000 03 01	732	0.1− 1.4+	2000 03 11	704	0.3− 1.0−	
2000 02 05	704	0.5− 0.7−		2000 03 01	732	1.0− 0.3−	2000 03 11	704	0.4− 0.7−	
2000 02 05	704	0.6− 0.4−		2000 03 02	732	0.6+ 0.5+	2000 03 11	704	0.1− 1.6−	
2000 02 25	691	0.2− 0.9−		2000 03 02	732	0.5+ 0.1+				
2000 02 25	691	0.1+ 0.5−		2000 03 02	732	0.7− 0.1+				

2000 CG₃₇ = 1998 XX₆₃

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	188.00486		(2000.0)	P	Q
<i>n</i>	0.24654506	ω	2.40183	+0.92677476	+0.37196409
<i>a</i>	2.5188667	Ω	335.55688	−0.34669353	−0.79354907
<i>e</i>	0.1136682	<i>i</i>	7.25580	−0.14454111	+0.48158342
<i>P</i>	4.00	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 11 14	704	(0.2− 2.6+)	2000 02 02	704	0.6+ 0.6+	2000 03 04	704	1.0− 0.1−
1998 11 14	704	(1.7+ 2.9+)	2000 02 02	704	0.0 1.0+	2000 03 04	704	0.0 0.2+
1998 11 14	704	1.3− 0.5+	2000 02 05	704	0.0 0.6+	2000 03 04	704	0.1+ 0.2+
1998 11 14	704	1.7+ 0.1−	2000 02 05	704	0.4− 0.1−	2000 03 04	704	0.3− 0.3+
1998 11 16	704	0.2− 1.0+	2000 02 05	704	1.3− 0.8−	2000 03 04	704	0.0 0.2+
1998 11 16	704	1.2+ 0.3−	2000 02 27	684	0.5− 0.1−	2000 03 10	691	0.2− 1.0−
1998 11 16	704	0.8− 1.6+	2000 02 27	684	0.8− 0.3−	2000 03 10	691	0.2− 1.0−
1998 11 16	704	0.8− 0.6−	2000 02 29	704	0.2+ 0.1−	2000 03 10	691	0.2− 1.0−
1998 12 14	704	(2.1+ 0.5+)	2000 02 29	704	0.1+ 0.2+	2000 03 11	704	0.0 0.3+
1998 12 14	704	1.7+ 0.2−	2000 02 29	704	0.7− 0.6+	2000 03 11	704	0.2+ 0.1+
1998 12 14	704	0.2+ 0.9−	2000 03 02	684	0.9+ 0.3−	2000 03 11	704	0.2+ 0.0
1998 12 14	704	0.6+ 0.1+	2000 03 02	684	1.3+ 0.6−	2000 03 11	704	0.2− 0.6+
1998 12 17	704	0.4− 0.9−	2000 03 03	704	0.3+ 0.1+	2000 03 11	704	0.5− 0.3+
1998 12 17	704	0.8+ 0.3−	2000 03 03	704	0.0 0.5+	2000 03 11	699	0.5+ 0.7+
1998 12 17	704	1.2− 0.0	2000 03 03	704	0.1+ 0.4−	2000 03 11	699	0.2− 0.7+
1998 12 17	704	1.4− 0.0	2000 03 03	684	0.7+ 0.4−	2000 03 11	699	0.6− 0.0
2000 02 02	704	0.4+ 0.3−	2000 03 03	684	0.7+ 0.2−	2000 03 11	699	0.6+ 0.4+
2000 02 02	704	0.1− 0.1+	2000 03 03	704	0.3+ 0.4−			

2000 CW₃₇ = 1994 TP₁₅ = 1998 XC₂₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	278.18510		(2000.0)	P	Q
<i>n</i>	0.26135438	ω	256.96689	−0.48913003	+0.87219322
<i>a</i>	2.4227924	Ω	343.74617	−0.79235766	−0.44699952
<i>e</i>	0.1837629	<i>i</i>	1.13613	−0.36458352	−0.19867163
<i>P</i>	3.77	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1994 10 14	381	0.4− 0.3+	2000 02 03	704	0.4+ 0.1+	2000 02 06	704	0.1+ 0.1+
1994 10 14	381	0.4− 0.6+	2000 02 03	704	0.1− 0.3−	2000 02 06	704	0.6− 0.7+
1994 10 15	381	0.0 0.1+	2000 02 03	704	0.2− 0.2−	2000 02 06	704	0.2− 0.5−
1994 10 15	381	0.2+ 0.5+	2000 02 05	704	0.1− 0.1−	2000 02 11	704	0.1+ 0.3+
1998 12 11	691	1.5+ 0.1−	2000 02 05	704	1.1+ 0.5−	2000 02 11	704	0.1− 0.3+
1998 12 11	691	0.1− 0.1−	2000 02 05	704	0.1− 0.8+	2000 02 11	704	0.0 0.0
1998 12 11	691	0.2− 0.1+	2000 02 05	704	0.1− 0.1−	2000 02 11	704	0.4+ 0.3−
1998 12 15	691	0.1+ 0.7−	2000 02 05	704	0.2+ 0.3−	2000 02 26	703	1.1− 1.0−
1998 12 15	691	0.2− 0.8−	2000 02 05	704	0.7− 0.3+	2000 02 26	703	0.0 0.2−
1998 12 15	691	0.4− 0.2−	2000 02 05	704	0.7− 0.8+	2000 02 26	703	1.2+ 0.6−
2000 02 03	704	0.1+ 0.1−	2000 02 05	704	0.6− 1.1+	2000 02 26	703	0.2+ 0.1+
2000 02 03	704	0.4+ 0.3−	2000 02 06	704	0.7+ 0.2+			

2000 CB₃₈ = 1998 VZ₂₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	117.16942		(2000.0)	P	Q
<i>n</i>	0.17487714	ω	28.18353	+0.99671474	−0.07553184
<i>a</i>	3.1669948	Ω	336.09478	+0.05385925	−0.88770403
<i>e</i>	0.1558221	<i>i</i>	4.13714	+0.06048884	+0.45417672
<i>P</i>	5.64	<i>H</i>	13.4	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 11 10	704	0.8+ 1.1+	2000 02 03	704	0.2− 0.6+	2000 02 06	704	0.7− 0.1+
1998 11 10	704	1.6− 0.3+	2000 02 03	704	0.6+ 0.0	2000 02 06	704	0.4− 0.1−
1998 11 10	704	0.3− 0.6−	2000 02 03	704	0.4+ 0.5+	2000 02 09	049	1.5− 1.1−
1998 11 10	704	0.8+ 0.8+	2000 02 03	704	0.1+ 0.9+	2000 02 09	049	1.7− 1.7−
1998 11 11	704	0.4− 0.2+	2000 02 03	704	0.2+ 0.6+	2000 02 09	049	1.3− 1.5−
1998 11 11	704	0.1+ 0.2+	2000 02 05	704	0.3− 0.1+	2000 02 11	704	0.3+ 0.2+
1998 11 11	704	0.4+ 0.3−	2000 02 05	704	0.5+ 0.3+	2000 02 11	704	0.2− 0.3−
1998 11 18	704	0.6− 0.0	2000 02 05	704	0.2+ 1.0+	2000 02 11	704	0.1+ 0.4−
1998 11 18	704	0.1+ 0.4+	2000 02 05	704	0.3+ 0.9+	2000 02 11	704	1.1+ 0.7+
1998 11 18	704	0.5+ 0.3−	2000 02 05	704	0.0 0.4+	2000 03 04	704	0.2+ 0.8−
1998 11 18	704	0.3+ 1.7−	2000 02 05	704	0.1+ 0.9+	2000 03 04	704	0.4− 0.6+
2000 01 04	704	0.5− 0.8−	2000 02 05	704	0.5+ 0.1−	2000 03 04	704	0.6+ 0.2−
2000 01 04	704	0.2− 0.5+	2000 02 05	704	0.3+ 0.6−	2000 03 04	704	0.2+ 0.7+
2000 01 04	704	0.9+ 0.6−	2000 02 06	704	0.4+ 0.3−			
2000 01 04	704	0.2− 0.3+	2000 02 06	704	0.7+ 0.8−			

2000 CV₃₈ = 1995 QW₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	88.35106		(2000.0)	P	Q
<i>n</i>	0.28938848	ω	60.25553	+0.80499370	−0.59214004
<i>a</i>	2.2636810	Ω	335.99463	+0.50827901	+0.72033207
<i>e</i>	0.1861631	<i>i</i>	5.19196	+0.30600258	+0.36123660
<i>P</i>	3.41	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1995 08 22	691	0.1− 0.2−	2000 02 05	704	0.5+ 0.2+	2000 02 29	704	0.5+ 0.1+
1995 08 22	691	0.1− 0.0	2000 02 05	704	0.3+ 0.4−	2000 02 29	704	0.8+ 0.1−
1995 08 22	691	0.4− 0.0	2000 02 08	704	0.2− 1.0+	2000 03 03	704	0.3+ 0.0
1995 08 28	691	0.1+ 0.0	2000 02 08	704	0.4+ 0.6+	2000 03 03	704	0.3− 0.2+
1995 08 28	691	0.3+ 0.0	2000 02 08	704	1.0+ 0.9+	2000 03 03	704	0.1− 0.1−
1995 08 28	691	0.3+ 0.0	2000 02 08	704	0.5+ 0.5+	2000 03 03	704	0.5− 0.2+
2000 01 04	704	0.7− 0.6−	2000 02 08	704	0.1− 0.7+	2000 03 03	704	0.3− 0.4+
2000 01 04	704	0.6+ 0.5+	2000 02 11	704	0.3− 0.4−	2000 03 05	704	0.1− 0.4+
2000 01 04	704	1.1− 0.6−	2000 02 11	704	0.9− 0.5+	2000 03 05	704	1.0− 0.0
2000 01 04	704	0.2+ 0.1−	2000 02 11	704	1.5+ 1.2+	2000 03 05	704	0.1− 0.0
2000 01 04	704	0.5+ 0.3+	2000 02 11	704	0.3− 0.4−	2000 03 05	704	0.4+ 0.5−
2000 02 03	704	0.1− 0.1−	2000 02 27	703	0.3− 1.1−	2000 03 09	704	0.8− 0.5−
2000 02 03	704	0.3+ 0.4−	2000 02 27	703	0.2− 0.6−	2000 03 09	704	0.6− 0.2−
2000 02 03	704	0.8− 0.8−	2000 02 27	703	0.0 0.9+	2000 03 09	704	0.1+ 0.5−
2000 02 03	704	0.2− 0.1−	2000 02 27	703	0.4+ 0.4+	2000 03 09	704	0.5+ 0.7−
2000 02 03	704	0.3− 0.3−	2000 02 29	704	0.9+ 0.1+	2000 03 09	704	0.0 0.5+
2000 02 05	704	0.3+ 0.0	2000 02 29	704	0.9− 0.7−			
2000 02 05	704	0.3+ 0.5−	2000 02 29	704	0.3− 0.0			

2000 CY₃₈ = 1992 EM₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	357.17343		(2000.0)	P	Q
<i>n</i>	0.24572328	ω	166.87249	−0.91647655	−0.39865263
<i>a</i>	2.5244795	Ω	349.44135	+0.34835218	−0.75347097
<i>e</i>	0.1626769	<i>i</i>	10.64998	+0.19677780	−0.52283609
<i>P</i>	4.01	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1992 03 04	809	0.0 0.6+	2000 02 06	704	0.4− 0.2−	2000 03 05	704	0.1+ 0.1+
1992 03 06	809	0.2+ 0.2−	2000 02 08	704	0.8+ 0.7−	2000 03 05	704	0.1+ 0.2+

2000 MAR. 20

M.P.C. 39391

2000 02 03	704	0.1+	0.2-	2000 02 08	704	0.3-	0.5-	2000 03 05	608	0.6+	1.1-
2000 02 03	704	0.3+	0.3-	2000 02 08	704	0.2+	0.6-	2000 03 05	608	0.3+	0.9-
2000 02 03	704	0.3-	0.6+	2000 02 08	704	0.0	0.4-	2000 03 05	608	0.3-	0.9-
2000 02 03	704	0.3-	0.2+	2000 02 08	704	0.2-	0.5-	2000 03 11	699	0.8-	0.4-
2000 02 03	704	0.9-	0.1+	2000 02 11	704	1.0-	0.1+	2000 03 11	699	0.1+	0.2+
2000 02 05	704	0.0	1.0+	2000 02 11	704	0.8+	0.5+	2000 03 11	699	0.9+	0.0
2000 02 05	704	0.6+	0.4+	2000 02 11	704	0.2-	0.7+	2000 03 11	699	1.0-	0.2+
2000 02 05	704	0.3-	0.8-	2000 02 11	704	0.0	0.2+	2000 03 12	704	0.8-	0.6-
2000 02 06	704	0.1+	0.2+	2000 02 11	704	0.1-	0.6+	2000 03 12	704	1.0+	0.2+
2000 02 06	704	0.4-	1.2-	2000 03 05	704	0.6-	0.1-	2000 03 12	704	0.3+	0.1+
2000 02 06	704	1.2+	0.5+	2000 03 05	704	0.1+	0.6+	2000 03 12	704	0.0	0.9+
2000 02 06	704	1.0+	0.7+	2000 03 05	704	1.0-	0.5+	2000 03 12	704	0.5+	0.4+

2000 CJ₃₉ = 1993 BG₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	315.75767	(2000.0)		P	Q		
<i>n</i>	0.28434453	<i>ω</i>	105.35278	-0.87874429	+0.47693776		
<i>a</i>	2.2903726	<i>Ω</i>	103.13582	-0.44483871	-0.80440522		
<i>e</i>	0.1511703	<i>i</i>	1.08308	-0.17299419	-0.35420701		
<i>P</i>	3.47	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 01 27	010	0.7+	0.1-	2000 02 10	704	0.3+	0.5+	2000 03 03	704	0.1+	0.3-
1993 01 27	010	0.4+	0.1-	2000 02 10	704	0.0	0.7+	2000 03 03	704	0.2+	0.2+
1993 01 27	010	0.1+	0.3-	2000 02 10	704	0.5+	0.9+	2000 03 03	704	0.2+	0.1-
1993 01 28	010	0.3+	1.1-	2000 02 11	704	0.4+	0.5+	2000 03 03	704	0.2+	0.2-
1993 01 28	010	0.1-	0.5-	2000 02 11	704	0.6+	0.8+	2000 03 03	704	0.2+	0.2-
1993 01 28	010	1.3-	1.7-	2000 02 11	704	0.4+	0.5+	2000 03 05	704	0.3-	0.3-
1993 02 20	010	0.6-	0.8-	2000 02 11	704	0.3+	1.0+	2000 03 05	704	0.2-	0.4-
1993 02 20	010	0.8-	1.2-	2000 02 11	704	1.4+	0.7+	2000 03 05	704	0.0	0.2-
1993 02 20	010	0.8-	1.4-	2000 02 25	703	0.1-	0.6-	2000 03 05	704	0.1-	0.2-
2000 01 29	703	0.3+	1.5+	2000 02 25	703	0.0	0.4+	2000 03 05	704	0.2-	0.1-
2000 01 29	703	(1.5+	2.4+)	2000 02 25	703	1.1-	0.0	2000 03 09	704	0.1-	0.3-
2000 01 29	703	0.4-	0.3-	2000 02 25	703	0.2-	0.6+	2000 03 09	704	0.3-	0.2-
2000 01 29	703	0.5-	1.3+	2000 02 26	684	0.2-	0.5-	2000 03 09	704	0.0	0.7-
2000 02 04	704	0.1-	0.3+	2000 02 26	684	0.1-	0.5-	2000 03 09	704	0.1-	0.4-
2000 02 04	704	0.3+	0.2+	2000 02 27	691	0.2-	0.2-	2000 03 09	704	0.1-	0.2-
2000 02 04	704	0.2-	0.2+	2000 02 27	691	0.1-	0.2-	2000 03 11	704	0.1+	0.5-
2000 02 04	704	0.2+	0.1+	2000 02 27	691	0.3-	0.2-	2000 03 11	704	0.3+	0.0
2000 02 04	704	0.1+	0.4+	2000 02 29	704	0.1+	0.4+	2000 03 11	704	0.1+	0.1-
2000 02 05	704	0.1-	0.5+	2000 02 29	704	(2.1+	1.3+)	2000 03 11	704	0.1+	0.3-
2000 02 05	704	0.1+	0.6+	2000 02 29	704	0.3-	1.4+	2000 03 11	704	0.2-	0.1-
2000 02 05	704	0.1-	0.6+	2000 02 29	704	0.5+	0.0				
2000 02 10	704	0.3+	0.4+	2000 02 29	704	0.7+	0.7-				

2000 CL₃₉ = 1975 TD₁ = 1975 VH = 1982 FW₃ = 1984 SO₂

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	81.27126	(2000.0)		P	Q		
<i>n</i>	0.21625042	<i>ω</i>	58.97563	+0.40031680	-0.91594219		
<i>a</i>	2.7489367	<i>Ω</i>	7.58970	+0.75097468	+0.31025789		
<i>e</i>	0.1264244	<i>i</i>	12.33695	+0.52515092	+0.25453868		
<i>P</i>	4.56	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1975 10 03	095	1.2-	0.8-	1998 08 31	704	0.1-	0.6+	2000 02 29	704	0.3-	0.1+
1975 11 01	095	(3.7-	0.3+)	2000 02 04	704	0.9+	1.4-	2000 02 29	704	0.4+	0.2-
1982 03 28	809	0.1-	1.5-	2000 02 04	704	0.3-	0.8-	2000 02 29	704	0.0	0.1-
1982 03 28	809	0.3-	1.1-	2000 02 04	704	0.2+	0.6+	2000 03 02	703	0.0	0.1+
1982 03 28	809	0.1+	1.2-	2000 02 04	704	0.1-	0.1+	2000 03 02	703	0.5-	0.5+
1982 03 29	809	0.6-	1.5-	2000 02 04	704	0.9-	0.3+	2000 03 02	703	0.2+	0.1-
1982 03 29	809	0.6-	1.3-	2000 02 05	704	0.2-	0.6+	2000 03 02	703	0.1-	0.1+
1982 03 29	809	0.5-	1.5-	2000 02 05	704	0.0	1.1+	2000 03 05	704	0.2-	0.0
1984 09 25	688	0.2+	1.3-	2000 02 05	704	0.5-	1.3+	2000 03 05	704	0.2-	0.1+
1984 09 25	688	0.4+	1.6-	2000 02 05	704	(0.3-	2.1+)	2000 03 05	704	0.0	0.2+
1984 09 28	688	0.6+	1.1-	2000 02 24	411	0.8-	0.9-	2000 03 05	704	0.2+	0.2+

1984 09 28	688	1.4+	0.6-	2000 02 24	411	0.6-	1.0-	2000 03 05	704	0.0	0.4+
1998 08 31	704	0.4+	1.1-	2000 02 25	411	(2.1-	1.5-)	2000 03 12	704	0.5+	0.1+
1998 08 31	704	1.5+	0.6-	2000 02 25	411	1.1-	0.0	2000 03 12	704	1.2-	0.4-
1998 08 31	704	0.5+	0.3-	2000 02 29	704	0.0	0.0	2000 03 12	704	0.7+	0.1+
1998 08 31	704	1.9+	0.0	2000 02 29	704	0.2-	0.1+	2000 03 12	704	0.9+	0.5+

2000 CM₃₉ = 1993 SR₁₅ = 1998 XD₇₉

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	144.96922	(2000.0)		P	Q		
<i>n</i>	0.21755845	<i>ω</i>	257.63011	+0.97565244	-0.16489791		
<i>a</i>	2.7379073	<i>Ω</i>	111.72031	+0.20550246	+0.91766903		
<i>e</i>	0.1669914	<i>i</i>	8.95495	-0.07662280	+0.36151381		
<i>P</i>	4.53	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 09 18	033	1.2+	0.2+	1999 01 07	704	1.3-	0.5+	2000 02 24	411	1.3-	1.4-
1993 09 18	033	1.0-	0.2+	1999 01 07	704	1.9-	0.5+	2000 02 24	411	0.8-	0.4+
1993 09 19	675	0.5-	0.4+	1999 01 07	704	(4.2-	0.2-)	2000 02 25	411	0.5+	0.3-
1993 09 19	675	1.1-	0.1-	1999 01 23	699	0.4+	0.4-	2000 02 25	411	0.5+	0.0
1993 09 23	675	1.1+	1.3-	1999 01 23	699	0.1+	0.8-	2000 03 05	704	0.1+	0.2-
1993 09 23	675	0.2+	0.8+	1999 01 23	699	1.8+	0.3-	2000 03 05	704	0.0	0.4-
1998 12 15	704	0.7+	1.1+	1999 02 04	699	0.4+	1.5+	2000 03 05	704	0.3+	0.1+
1998 12 15	704	1.1+	0.2-	1999 02 04	699	0.1-	0.1+	2000 03 05	704	0.3+	0.2+
1998 12 15	704	0.1-	0.6+	1999 02 04	699	0.0	0.9-	2000 03 05	704	0.3+	0.4-
1998 12 15	704	0.5+	1.3+	2000 02 04	704	0.2-	0.1-	2000 03 09	704	0.1+	0.2+
1998 12 15	704	0.5-	1.2+	2000 02 04	704	0.4+	0.1-	2000 03 09	704	0.2-	0.5-
1998 12 22	704	1.3+	1.5-	2000 02 04	704	0.3+	0.1+	2000 03 09	704	0.0	0.6-
1998 12 22	704	0.4-	1.0-	2000 02 04	704	0.0	0.5+	2000 03 09	704	0.3+	0.8-
1998 12 22	704	0.3-	0.0	2000 02 04	704	0.6-	0.6+	2000 03 12	704	0.2-	0.5+
1998 12 22	704	0.2-	0.2-	2000 02 05	704	0.2-	0.4+	2000 03 12	704	0.2+	0.1+
1998 12 22	704	0.3-	0.2-	2000 02 05	704	0.0	0.6+	2000 03 12	704	0.1-	0.0
1999 01 07	704	0.2-	0.9-	2000 02 05	704	0.0	0.2+	2000 03 12	704	0.3+	0.5-
1999 01 07	704	0.8-	0.8-	2000 02 05	704	0.1-	1.5+	2000 03 12	704	0.3+	0.5+

2000 CO₄₀ = 1998 SS₉₀

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	42.48724	(2000.0)		P	Q		
<i>n</i>	0.23122977	<i>ω</i>	301.35643	-0.07838625	-0.99589897		
<i>a</i>	2.6288969	<i>Ω</i>	153.02870	+0.94515797	-0.08865203		
<i>e</i>	0.1262920	<i>i</i>	5.71648	+0.31706784	+0.01805729		
<i>P</i>	4.26	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 26	704	1.5-	0.9-	2000 02 08	691	0.5-	0.4-	2000 02 29	704	0.2+	0.2+
1998 09 26	704	0.3-	0.6-	2000 02 08	691	0.4-	0.5-	2000 02 29	704	0.1-	0.5+
1998 09 26	704	0.8+	0.2+	2000 02 09	888	0.3-	1.0-	2000 02 29	704	0.1+	0.4+
1998 09 26	704	0.9-	1.2-	2000 02 09	888	0.1-	0.3-	2000 02 29	704	0.3-	0

M.P.C. 39392

2000 MAR. 20

2000 02 05 888 0.1− 0.2− 2000 02 27 888 0.3+ 1.1−
 2000 02 08 691 0.5− 0.4− 2000 02 27 888 0.6+ 0.6−

2000 CV₄₀ = 1997 UZ₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19126649	ω	315.43404	+0.79707288	+0.60348554		
<i>a</i>	2.9833906	Ω	7.54026	−0.49691881	+0.67607337		
<i>e</i>	0.0942671	<i>i</i>	9.61136	−0.34314212	+0.42276471		
<i>P</i>	5.15	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1995 03 23	033	0.2+	0.1−	2000 02 01	703	0.2+	0.1−	2000 02 25	703	0.7−	0.0
1995 03 23	033	0.3−	0.3−	2000 02 01	703	0.4+	0.4−	2000 02 25	703	0.3+	0.0
1997 10 23	691	1.2−	0.3+	2000 02 04	704	1.0+	0.7−	2000 02 29	704	0.6+	0.4+
1997 10 23	691	0.3−	1.0+	2000 02 04	704	0.4+	0.1−	2000 02 29	704	0.2+	0.8+
1997 10 23	691	0.5−	1.2+	2000 02 04	704	0.2+	0.6+	2000 02 29	704	0.0	0.4+
1997 11 03	691	0.5−	1.1+	2000 02 04	704	1.0+	0.5+	2000 02 29	704	0.2+	0.3+
1997 11 03	691	0.6−	1.1+	2000 02 04	704	0.3+	1.7+	2000 02 29	704	0.3+	0.1+
1997 11 03	691	0.6−	1.2+	2000 02 06	703	0.2−	0.4+	2000 03 05	704	0.1+	0.1−
1998 11 16	704	1.3+	1.2−	2000 02 06	703	0.2+	0.4+	2000 03 05	704	0.5+	0.0
1998 11 16	704	0.5−	1.0−	2000 02 06	703	0.1−	0.2−	2000 03 05	704	0.1−	0.1−
1998 11 16	704	0.2+	0.8−	2000 02 06	703	1.4−	0.0	2000 03 05	704	0.1−	0.1−
1998 11 16	704	(3.0+	0.6−)	2000 02 11	704	0.4+	0.4+	2000 03 05	704	0.2−	0.3−
1999 01 16	704	1.1−	0.3+	2000 02 11	704	0.2−	0.8+	2000 03 12	704	0.3+	0.0
1999 01 16	704	0.6−	0.5−	2000 02 11	704	0.0	0.1−	2000 03 12	704	0.7+	0.0
1999 01 16	704	0.2+	1.0−	2000 02 11	704	0.0	0.1−	2000 03 12	704	0.6+	0.1+
1999 01 16	704	0.5+	0.6+	2000 02 11	704	0.3+	0.3+	2000 03 12	704	0.3+	0.2+
2000 02 01	703	0.6−	0.1+	2000 02 25	703	0.9−	0.1+	2000 03 12	704	0.3+	0.1−
2000 02 01	703	0.6+	0.1+	2000 02 25	703	0.8−	0.9+				

2000 CH₄₁ = 1979 QU₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30862624	ω	31.16814	+0.95741767	−0.28843295		
<i>a</i>	2.1686068	Ω	345.57978	+0.25341147	+0.86042504		
<i>e</i>	0.1984792	<i>i</i>	2.89177	+0.13832582	+0.42008950		
<i>P</i>	3.19	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1979 08 22	809	0.4−	0.0	2000 02 10	120	0.7+	0.3+	2000 03 05	608	0.8+	0.9−
1979 08 22	809	1.4+	1.0+	2000 02 10	120	0.6−	0.4−	2000 03 05	608	0.5+	0.6−
1979 08 22	809	0.6−	0.2+	2000 02 10	120	0.0	0.3−	2000 03 05	608	0.3+	0.5−
1979 08 23	809	0.5−	0.6+	2000 02 11	704	0.6−	0.8+	2000 03 11	704	1.2−	0.1+
1979 08 23	809	0.8−	0.3+	2000 02 11	704	0.5+	0.4+	2000 03 11	704	0.2−	0.1−
1998 07 01	809	0.1−	0.6−	2000 02 11	704	0.7+	0.7−	2000 03 11	704	0.3+	0.3+
1998 07 01	809	0.3+	0.1+	2000 03 03	704	0.3+	0.6+	2000 03 11	704	(2.7+	1.7+)
1998 07 01	809	0.1−	0.1−	2000 03 03	704	0.4+	0.9+	2000 03 11	704	0.5+	0.9+
2000 02 04	120	0.4+	0.1−	2000 03 03	704	0.1−	0.4+	2000 03 11	699	0.4+	0.1+
2000 02 04	120	0.3+	1.1−	2000 03 03	704	0.2−	0.5+	2000 03 11	699	0.2−	0.3−
2000 02 07	684	0.5+	0.2−	2000 03 03	704	0.5+	1.0+	2000 03 11	699	0.4−	0.2+
2000 02 07	684	1.1−	0.4−	2000 03 05	704	0.4−	0.1+	2000 03 12	691	0.3−	0.2−
2000 02 08	684	0.3+	0.4−	2000 03 05	704	0.8−	1.6+	2000 03 12	691	0.5−	0.3−
2000 02 08	684	0.0	0.3−	2000 03 05	704	0.4+	1.3+	2000 03 12	691	0.3−	0.2−
2000 02 10	120	(3.1+	1.8+)	2000 03 05	704	0.1−	0.5−				

2000 CV₄₂ = 1997 PH₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20637979	ω	57.55708	−0.69675579	+0.71584886		
<i>a</i>	2.8359024	Ω	167.93324	−0.70938569	−0.67820759		
<i>e</i>	0.0247630	<i>i</i>	12.63734	−0.10631702	−0.16611706		
<i>P</i>	4.78	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 08 03	327	0.1−	0.6+	2000 01 08	704	0.4−	0.3+	2000 02 08	704	1.2−	0.1−
1997 08 03	327	0.1−	0.4+	2000 02 02	704	0.5+	0.6+	2000 02 12	704	(2.1+	0.5−)
1997 08 03	327	0.2−	0.6+	2000 02 02	704	0.2+	0.4+	2000 02 12	704	0.2−	0.2−
1997 08 10	327	0.4+	0.8+	2000 02 02	704	0.6−	0.5−	2000 02 12	704	0.6+	0.0
1997 08 10	327	0.1+	0.8+	2000 02 06	704	0.1−	0.6−	2000 02 12	704	0.5+	0.4+
1997 08 10	327	0.4−	0.4+	2000 02 06	704	0.1+	0.2+	2000 02 12	704	1.2−	1.5+
1998 12 18	557	0.5−	0.5+	2000 02 06	704	0.4−	0.3+	2000 03 06	704	0.8+	0.1+
1998 12 18	557	0.2+	0.1−	2000 02 06	704	0.3−	0.9+	2000 03 06	704	0.6+	0.7−
2000 01 08	704	0.3−	0.8−	2000 02 08	704	0.2+	0.7+	2000 03 06	704	0.8−	0.5+
2000 01 08	704	0.1−	0.5−	2000 02 08	704	0.5+	0.3+	2000 03 06	704	1.1+	0.1−
2000 01 08	704	0.5+	0.1+	2000 02 08	704	0.4+	0.7+				

2000 CY₄₄ = 1998 VW₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21800634	ω	332.48265	−0.95251267	+0.30122395		
<i>a</i>	2.7341561	Ω	225.12316	−0.26654787	−0.89554513		
<i>e</i>	0.0483883	<i>i</i>	3.60359	−0.14721358	−0.32751038		
<i>P</i>	4.52	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 18	699	0.1+	0.1−	2000 01 08	704	1.0−	0.6−	2000 02 12	704	0.7+	0.2+
1998 10 18	699	0.2+	0.7−	2000 01 08	704	0.2+	1.2−	2000 02 12	704	0.1+	0.9−
1998 10 18	699	1.3−	0.9+	2000 01 08	704	0.3−	0.2−	2000 02 12	704	0.1+	1.4+
1998 11 10	704	0.4−	0.5−	2000 01 08	704	0.7−	1.3−	2000 02 12	704	0.2+	0.1+
1998 11 10	704	0.6−	0.5+	2000 02 02	704	0.2+	0.2−	2000 02 12	704	0.1−	0.2−
1998 11 10	704	0.4−	0.7−	2000 02 02	704	0.3+	0.0	2000 02 13	704	0.2−	0.6−
1998 11 10	704	0.8+	0.8−	2000 02 02	704	0.2−	0.1−	2000 02 13	704	0.1−	0.9+
1998 11 11	704	1.0+	0.6+	2000 02 02	704	0.3−	0.0	2000 02 13	704	(0.7−	2.2+)
1998 11 11	704	0.1+	0.2+	2000 02 02	704	0.3−	0.1+	2000 02 13	704	0.5+	1.3+
1998 11 11	704	0.6−	0.6+	2000 02 06	704	0.4+	0.5+	2000 02 13	704	0.4+	0.5+
1998 11 11	704	0.3−	0.3+	2000 02 06	704	0.7+	0.3−	2000 03 06	704	0.3+	0.1+
1998 11 11	704	1.1+	0.1+	2000 02 06	704	0.1+	0.3−	2000 03 06	704	0.4−	0.1+
2000 01 08	704	0.2−	0.1−	2000 02 06	704	0.6+	0.2+	2000 03 06	704	1.5−	0.2+

2000 CR₄₅ = 1991 PT₁₈ = 1998 XP₈₁

Id. M. E. Sansaturio, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17532492	ω	79.36065	−0.16083744	+0.98697306		
<i>a</i>	3.1616002	Ω	181.40203	−0.95674622	−0.15688903		
<i>e</i>	0.0559439	<i>i</i>	9.26037	−0.24242109	−0.03563730		
<i>P</i>	5.62	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1991 08 08	675	0.8−	1.5−	2000 01 08	704	0.5+	1.1−	2000 02 12	704	0.2+	1.4−
1991 08 08	675	0.0	0.4−	2000 01 08	704	0.3+	0.9−	2000 02 12	704	0.9−	0.3+
1991 09 14	675	0.3+	0.1+	2000 01 08	704	0.6−	1.0+	2000 02 12	704	0.3−	1.6+
1991 09 14	675	0.5+	0.9+	2000 01 08	704	0.4+	1.1+	2000 02 12	704	(1.1−	3.8+)
1998 12 15	704	0.1−	1.0−	2000 01 08	704	0.3−	0.5+	2000 03 06	704	0.1+	0.7−
1998 12 15	704	0.6+	0.4−	2000 02 02	704	0.1+	0.0	2000 03 06	704	0.4+	0.0
1998 12 15	704	0.9+	0.4−	2000 02 02	704	0.1−	0.1−	2000 03 06	704	0.1−	0.2−
1998 12 15	704	(1.1−	2.9−)	2000 02 02	704	0.1−	0.7−	2000 03 13	704	0.7−	1.0−
1998 12 15	704	1.3−	0.4−	2000 02 02	704	0.0	0.3−	2000 03 13	704	0.1−	0.2+
1998 12 22	704	1.0+	0.8−	2000 02 06	704	0.1−	0.1+	2000 03 13	704	0.6+	0.6+
1998 12 22	704	0.3−	0.4+	2000 02 06	704	0.1+	0.1+	2000 03 13	704	0.0	0.0
1998 12 22	704	0.1−	0.2+	2000 02 06	704	0.1+	0.2−	2000 03 13	704	0.2−	0.4+
1998 12 22	704	0.2−	1.1+	2000 02 06	704	0.1+	0.0				
1998 12 22	704	0.2−	1.3+	2000 02 06	704	0.3+	0.1−				

2000 MAR. 20

M.P.C. 39393

2000 CW₄₅ = 1998 SZ₁₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	312.40841		(2000.0)	P	Q
<i>n</i>	0.27541631	ω	12.27221	-0.91031643	+0.41342306
<i>a</i>	2.3396072	Ω	192.20693	-0.38735443	-0.86804127
<i>e</i>	0.0634062	<i>i</i>	5.46403	-0.14587853	-0.27492859
<i>P</i>	3.58	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 5
Residuals in seconds of arc					
1998 09 26	704	0.4+	0.6+	2000 02 02	704 0.3+ 0.1+ 2000 02 12 704 (0.2+ 2.3+)
1998 09 26	704	0.5-	1.4-	2000 02 02	704 0.1- 0.0 2000 03 06 704 1.3- 0.6+
1998 09 26	704	0.8+	1.3+	2000 02 02	704 0.1+ 0.1+ 2000 03 06 704 1.2- 0.2+
1998 09 26	704	1.0-	0.0	2000 02 06	704 0.4+ 0.8+ 2000 03 06 704 0.5- 0.5+
1998 09 26	704	1.3+	1.2-	2000 02 06	704 0.3+ 0.5- 2000 03 13 704 1.0+ 0.3-
1998 09 27	704	0.9+	1.0+	2000 02 06	704 0.5- 0.2- 2000 03 13 704 0.2- 0.2+
1998 09 27	704	1.8-	0.4-	2000 02 06	704 0.3+ 0.3- 2000 03 13 704 0.6+ 0.2-
1998 09 27	704	(4.4- 0.1-)	2000 02 12	704 (4.6- 0.2+)	2000 03 13 704 0.3+ 0.2-
2000 02 02	704	0.2-	0.5+	2000 02 12	704 0.2+ 0.0 2000 03 13 704 0.5+ 1.0-
2000 02 02	704	0.0	0.5-	2000 02 12	704 (4.2+ 0.2-)

2000 CX₄₅ = 1996 JU₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	222.02357		(2000.0)		P		Q	
<i>n</i>	0.23781615	ω	136.06420		+0.45930957		+0.88360169	
<i>a</i>	2.5801314	Ω	160.70775		-0.87191552		+0.46805088	
<i>e</i>	0.1265499	<i>i</i>	15.98969		-0.16969988		-0.01328291	
<i>P</i>	4.14	<i>H</i>	14.0		<i>G</i> 0.15		<i>U</i>	4
Residuals in seconds of arc								
1996 03 21	566	0.3-	0.8+	2000 02 02	704 0.4+	0.0	2000 03 06	704 0.8-
1996 03 21	566	0.2-	0.8+	2000 02 06	704 1.8+	0.6+	2000 03 06	704 0.6-
1996 03 21	566	0.3-	0.8+	2000 02 06	704 0.3+	0.8+	2000 03 06	704 0.0
1996 05 15	327	0.7+	0.5-	2000 02 06	704 1.1-	0.6+	2000 03 09	608 0.1+
1996 05 15	327	0.4+	0.3-	2000 02 06	704 0.1-	0.1-	2000 03 09	608 0.3+
1996 05 15	327	0.3+	0.5-	2000 02 12	704 (0.6+	2.8+)	2000 03 09	608 0.1-
1996 05 20	327	0.0	0.1-	2000 02 12	704 (2.5-	1.4+)	2000 03 11	704 0.2-
1996 05 20	327	0.5+	0.5-	2000 02 12	704 (4.4-	1.4+)	2000 03 11	704 0.5+
1996 05 20	327	0.6-	1.0+	2000 02 29	704 0.2-	0.2+	2000 03 11	704 0.1-
2000 02 02	704	0.1+	0.0	2000 02 29	704 0.0	0.1-	2000 03 11	704 0.3+
2000 02 02	704	0.2-	0.3+	2000 02 29	704 0.2-	0.1+	2000 03 11	704 0.5+
2000 02 02	704	0.3+	0.1-	2000 02 29	704 (0.1+	2.3-)		
2000 02 02	704	0.4+	0.2+	2000 02 29	704 1.5-	0.1+		

2000 CY₄₅ = 1984 SX₁ = 1992 GC₇ = 1992 HC₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	158.56988		(2000.0)	P	Q
<i>n</i>	0.21766169	ω	144.25722	+0.95492712	+0.29496991
<i>a</i>	2.7370415	Ω	198.67140	-0.29073760	+0.90679048
<i>e</i>	0.2843529	<i>i</i>	5.96530	-0.05988194	+0.30120387
<i>P</i>	4.53	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 4
Residuals in seconds of arc					
1984 09 27	033	1.0-	0.6+	1992 04 25	809 1.4+ 0.9+ 2000 02 12 704 1.5- 0.5-
1984 09 27	046	(4.2+ 1.4-)	1992 04 25	809 (3.0+ 0.5+)	2000 02 12 704 1.2- 1.7+
1984 09 27	046	(3.2+ 0.7+)	2000 01 08	704 0.4- 0.2+	2000 02 12 704 2.0+ 1.1-
1984 09 27	033	1.4-	0.7+	2000 01 08	704 0.8+ 1.6- 2000 02 12 704 0.1- 0.7+
1984 09 29	046	1.6+	1.4-	2000 01 08	704 0.2+ 1.8- 2000 02 12 704 1.0+ 0.3+
1984 09 29	046	0.6+	1.1-	2000 02 02	704 0.4- 0.3+ 2000 03 06 704 0.3- 0.3+
1984 09 30	046	0.2+	1.8+	2000 02 02	704 0.3+ 0.0 2000 03 06 704 0.5- 0.2-
1984 09 30	046	(2.1+ 3.1+)	2000 02 02	704 0.3+ 0.6-	2000 03 06 704 0.3- 0.6-
1984 10 19	801	(3.1+ 7.0+)	2000 02 02	704 0.5+ 0.3+	2000 03 13 704 0.2- 0.3+
1984 10 21	801	0.7-	1.6+	2000 02 02	704 0.1+ 0.1- 2000 03 13 704 0.1+ 0.1+
1992 04 04	809	0.2-	0.6+	2000 02 06	704 0.3- 0.7+ 2000 03 13 704 0.4+ 0.4+
1992 04 04	809	1.1-	0.3-	2000 02 06	704 0.0 0.5+ 2000 03 13 704 0.2- 0.3-

1992 04 04	809	0.3-	0.1-	2000 02 06	704	0.2-	1.1+
1992 04 25	809	0.7+	1.0+	2000 02 06	704	0.2+	0.6+

2000 CH₄₆ = 1993 BY₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	249.93865		(2000.0)		P		Q		
<i>n</i>	0.28874490	ω	338.60936		+0.12818160		+0.98799028		
<i>a</i>	2.2670434	Ω	298.66557		-0.89505193		+0.07777414		
<i>e</i>	0.1628076	<i>i</i>	5.64331		-0.42714344		+0.13351552		
<i>P</i>	3.41	<i>H</i>	13.7		<i>G</i> 0.15		<i>U</i> 2		
Residuals in seconds of arc									
1993 01 22	809	0.3+	0.4+	1999 12 05	704	0.1-	0.1-	2000 02 06	704 0.1+ 0.1-
1993 01 22	809	0.6+	0.3+	1999 12 05	703	1.3-	0.8+	2000 02 06	704 0.1+ 0.0
1993 01 22	809	0.8-	0.9+	1999 12 05	704	0.6+	1.1-	2000 02 06	704 0.7+ 0.4+
1993 01 28	809	0.0	1.3-	1999 12 05	703	(1.8-	3.5+)	2000 02 06	704 0.4+ 0.3+
1993 01 28	809	(0.3-	2.4-)	1999 12 05	704	0.1+	0.0	2000 02 12	704 0.1+ 0.0
1993 01 28	809	(0.9-	2.8-)	1999 12 05	703	(2.3+	0.2-)	2000 02 12	704 0.2+ 0.3-
1998 10 03	699	0.1+	0.4-	1999 12 05	703	0.6+	0.8+	2000 02 12	704 0.1+ 0.2+
1998 10 03	699	0.4-	0.4-	2000 02 02	704	0.0	0.4-	2000 02 12	704 0.2+ 0.0
1998 10 03	699	0.8+	1.0-	2000 02 02	704	0.2-	0.5-	2000 02 12	704 0.6- 0.5+
1998 10 19	699	0.8-	1.2+	2000 02 02	703	0.4-	0.1+	2000 03 06	704 0.1+ 0.1+
1998 10 19	699	0.6+	1.6+	2000 02 02	704	0.2-	0.1+	2000 03 06	704 0.4+ 0.2-
1998 10 19	699	0.4+	0.8+	2000 02 02	703	0.3+	0.3+	2000 03 06	704 0.2+ 0.2-
1998 11 14	704	0.6-	0.5-	2000 02 02	704	0.3+	0.3-	2000 03 13	704 0.3+ 0.3-
1998 11 14	704	0.3+	0.0	2000 02 02	703	0.6+	1.3-	2000 03 13	704 0.6- 0.4+
1998 11 14	704	0.0	0.3+	2000 02 02	703	1.1-	1.0+	2000 03 13	704 0.5- 0.2+
1998 11 14	704	0.6+	0.8-	2000 02 02	704	0.6-	0.7-	2000 03 13	704 0.0 0.4+
1998 11 14	704	0.9-	1.0-	2000 02 06	704	0.3+	0.3-	2000 03 13	704 0.2- 0.1+

2000 CQ₄₇ = 1992 SY₂₃ = 1998 XE₃₄

Id. G. V. Williams, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	137.75495		(2000.0)	P	Q
<i>n</i>	0.18280021	ω	80.60243	+0.98571273	-0.08961009
<i>a</i>	3.0748098	Ω	284.43957	+0.02037731	+0.90395915
<i>e</i>	0.1489756	<i>i</i>	8.46887	+0.16719804	+0.41812426
<i>P</i>	5.39	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 3
Residuals in seconds of arc					
1992 09 29	675	0.3-	0.5-	1998 12 17	704 0.4+ 1.1+ 2000 02 06 704 0.6+ 0.1-
1992 09 29	675	0.0	0.4+	2000 01 08	704 0.3- 0.1+ 2000 02 08 704 0.2+ 0.5+
1992 10 04	675	0.0	0.1-	2000 01 08	704 0.9- 1.1- 2000 02 08 704 0.5+ 0.8+
1992 10 04	675	0.5+	0.4-	2000 01 08	704 0.0 2.0- 2000 02 08 704 0.2- 1.0+
1998 12 14	704	0.3+	1.2-	2000 01 08	704 1.3- 0.1- 2000 02 08 704 (1.3- 2.4+)
1998 12 14	704	0.7+	0.3-	2000 02 02	704 0.5+ 0.5- 2000 03 06 704 0.2+ 0.7+
1998 12 14	704	0.4-	0.8+	2000 02 02	704 0.9- 0.4- 2000 03 06 704 0.2+ 0.1+
1998 12 14	704	0.9-	0.6+	2000 02 02	704 0.7+ 0.1- 2000 03 06 704 0.2- 1.1+
1998 12 14	704	0.1-	1.5-	2000 02 02	704 0.6- 0.8- 2000 03 08 704 0.2+ 0.0
1998 12 17	704	0.0	1.2-	2000 02 06	704 0.3- 0.7+ 2000 03 08 704 0.5- 0.3+
1998 12 17	704	0.8+	1.0+	2000 02 06	704 0.4+ 0.5- 2000 03 08 704 0.5+ 0.0
1998 12 17	704	0.3-	1.3+	2000 02 06	704 0.3+ 0.0 2000 03 08 704 0.2- 0.8-
1998 12 17	704	0.5-	0.3+	2000 02 06	704 0.2+ 0.1+

2000 CZ₄₇ = 1998 ST₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	346.79333		(2000.0)	P	Q
<i>n</i>	0.24231812	ω	335.09278	-0.98986141	-0.14009028
<i>a</i>	2.5480745	Ω	196.90378	+0.14004155	-0.93503110
<i>e</i>	0.1625921	<i>i</i>	4.62249	+0.02372231	-0.32571699
<i>P</i>	4.07	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 3
Residuals in seconds of arc					
1998 09 18	910	0.2-	0.3+	2000 02 02	704 0.1- 0.0 2000 02 13 704 0.4+ 0.3-
1998 09 18	910	0.0	0.4+	2000 02 02	704 0.0 0.1+ 2000 02 13 704 0.2+ 0.1-

1998 09 18	910	0.2+	0.4+	2000 02 02	704	0.1-	0.2-	2000 02 13	704	0.2-	0.3-
1998 09 20	910	0.3+	0.1+	2000 02 02	704	0.3-	0.2+	2000 03 06	704	0.6+	0.1+
1998 09 20	910	0.2-	0.1-	2000 02 02	704	0.3-	0.1+	2000 03 06	704	0.1-	0.9+
1998 09 20	910	0.3-	0.1+	2000 02 06	704	0.0	0.1-	2000 03 06	704	0.6+	0.3-
1999 12 05	703	0.7-	0.6-	2000 02 06	704	0.2-	0.2+	2000 03 11	699	0.6-	0.4-
1999 12 05	703	1.1+	0.1-	2000 02 06	704	0.3+	0.0	2000 03 11	699	0.4-	0.1-
1999 12 05	704	0.9-	0.1+	2000 02 06	704	0.1+	0.1+	2000 03 11	699	0.5-	0.4-
1999 12 05	703	1.0+	0.1+	2000 02 06	704	0.6+	0.4+	2000 03 11	699	0.6-	0.4-
1999 12 05	703	1.0+	0.2-	2000 02 12	704	0.5+	0.4+	2000 03 13	704	0.2+	0.2+
1999 12 05	704	0.8-	0.2+	2000 02 12	704	0.9-	0.0	2000 03 13	704	0.1+	0.1-
1999 12 05	704	0.1-	0.2+	2000 02 12	704	0.5-	0.0	2000 03 13	704	0.5+	0.6+
1999 12 14	704	1.8-	0.1+	2000 02 12	704	0.9+	0.6+	2000 03 13	704	0.1-	0.3+
1999 12 14	704	0.6-	1.7-	2000 02 12	704	0.1+	0.9+	2000 03 13	704	0.0	0.5+
1999 12 14	704	0.5+	0.9-	2000 02 13	704	0.9+	0.6-				

2000 CH₄₈ = 1992 GK₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	43.96887		(2000.0)	P	Q
n	0.24004478	ω	245.79587	+0.25418463	-0.96697907
a	2.5641369	Ω	189.53475	+0.92290577	+0.24822544
e	0.3271467	i	6.40681	+0.28919736	+0.05775479
P	4.11	H	13.5	G 0.15	U 2

Residuals in seconds of arc

1992 04 01	033	0.5+	0.7-	1999 12 14	704	1.0-	1.1-	2000 02 12	704	0.2-	0.6+
1992 04 02	033	0.4-	0.4+	1999 12 14	704	(2.4-	1.3+)	2000 02 12	704	0.1+	0.6+
1992 04 02	033	0.2-	0.2+	1999 12 14	704	1.1-	0.9-	2000 02 12	704	0.1-	0.3+
1998 08 17	704	(0.8+	2.3+)	1999 12 16	699	0.4-	0.6+	2000 02 12	704	0.4-	0.4+
1998 08 17	704	0.2+	0.3-	1999 12 16	699	0.2-	0.2-	2000 02 13	704	0.2+	0.2+
1998 08 17	704	0.0	0.7+	1999 12 16	699	0.8-	0.3-	2000 02 13	704	0.4+	0.5+
1998 08 17	704	0.9-	1.2-	2000 02 02	704	0.6+	0.3-	2000 02 13	704	0.2+	0.4+
1998 08 17	704	0.6+	1.2+	2000 02 02	704	0.5+	0.6-	2000 02 13	704	0.3-	0.2-
1999 11 08	703	0.6+	0.2+	2000 02 02	704	0.5+	0.7-	2000 02 13	704	0.5-	1.2+
1999 11 08	703	0.5+	0.3+	2000 02 02	704	0.2+	1.0-	2000 03 01	704	0.4-	0.3+
1999 11 08	703	0.4+	0.1-	2000 02 02	704	0.0	0.9-	2000 03 01	704	0.5-	0.2+
1999 11 08	703	0.5+	0.1+	2000 02 06	704	0.2+	0.0	2000 03 01	704	0.2-	0.2-
1999 11 13	699	0.1-	0.7+	2000 02 06	704	0.2+	0.2+	2000 03 13	704	0.3+	0.2-
1999 11 13	699	1.1+	1.6+	2000 02 06	704	0.1+	0.0	2000 03 13	704	0.2+	0.1+
1999 11 13	699	0.1-	1.0+	2000 02 06	704	0.2+	0.1+	2000 03 13	704	0.2+	0.3-
1999 12 14	704	0.7-	0.9-	2000 02 06	704	0.1+	0.1-	2000 03 13	704	0.2-	0.1+
1999 12 14	704	0.6-	0.8-	2000 02 12	704	0.5+	0.1+	2000 03 13	704	0.2+	0.0

2000 CM₄₈ = 1998 SY₁₆₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	320.81171		(2000.0)	P	Q
n	0.27827057	ω	340.12372	-0.92806498	+0.36792984
a	2.3235812	Ω	221.60961	-0.32887234	-0.88230321
e	0.1068271	i	4.98006	-0.17475234	-0.29354502
P	3.54	H	15.0	G 0.15	U 5

Residuals in seconds of arc

1998 09 26	704	1.6+	1.9+	2000 02 06	704	0.2+	0.1+	2000 02 13	704	0.6-	0.9-
1998 09 26	704	0.9-	1.6-	2000 02 06	704	0.3-	0.1+	2000 02 13	704	0.7-	0.3-
1998 09 26	704	1.1+	0.6-	2000 02 06	704	0.4-	0.6-	2000 03 11	699	0.0	0.3-
1998 09 26	704	1.3-	0.4+	2000 02 06	704	1.0+	0.1-	2000 03 11	699	0.3+	0.1+
1998 09 27	704	0.8+	0.3-	2000 02 06	704	0.4+	0.2+	2000 03 11	699	0.1-	0.1-
1998 09 27	704	1.3-	0.5+	2000 02 12	704	0.6-	0.4+	2000 03 11	699	0.1-	0.0
2000 02 02	704	0.2+	1.0+	2000 02 12	704	1.1+	0.6+	2000 03 13	704	0.1+	0.0
2000 02 02	704	0.2-	1.1-	2000 02 12	704	0.3+	0.9-	2000 03 13	704	0.2+	0.8+
2000 02 02	704	0.1-	0.5+	2000 02 12	704	(0.7-	2.9+)	2000 03 13	704	0.0	0.1+
2000 02 02	704	0.2-	0.4-	2000 02 13	704	1.4+	0.3-	2000 03 13	704	0.1-	0.2+
2000 02 02	704	0.6-	0.3+	2000 02 13	704	1.3-	0.2+	2000 03 13	704	0.0	0.5+

2000 CY₄₈ = 1997 EZ₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	49.02763		(2000.0)	P	Q
n	0.30019044	ω	269.46074	-0.07199057	-0.99738832
a	2.2090463	Ω	184.67953	+0.94113940	-0.06599565
e	0.1020802	i	4.09188	+0.33026353	-0.02934460
P	3.28	H	15.6	G 0.15	U 4

Residuals in seconds of arc

1997 03 12	809	0.8+	1.1+	2000 02 06	704	0.7-	0.1+	2000 03 05	704	0.7-	0.0
1997 03 12	809	1.4+	1.1+	2000 02 06	704	0.6-	0.3+	2000 03 05	704	0.6-	0.3+
1997 03 12	809	(1.2+	2.2+)	2000 02 06	704	0.7-	0.4-	2000 03 05	704	0.1-	0.6-
1997 03 13	809	1.2-	1.3+	2000 02 06	704	0.3-	0.2+	2000 03 05	704	0.1-	0.4+
1997 03 13	809	0.5-	0.8-	2000 02 12	704	1.0+	0.2-	2000 03 08	704	0.1+	0.6+
1997 03 13	809	(2.0-	1.9+)	2000 02 12	704	0.9-	0.1-	2000 03 08	704	0.5+	0.2-
1997 04 11	704	(1.2-	2.1-)	2000 02 12	704	(4.7-	0.1-)	2000 03 08	704	0.5+	1.5-
1997 04 11	704	0.3-	1.7-	2000 03 03	704	0.2+	0.4-	2000 03 08	704	1.0+	0.5+
1998 08 17	704	(34.7+	9.6+)	2000 03 03	704	0.1-	0.1-	2000 03 08	704	1.4+	0.7-
1998 08 17	704	(32.4+	11.4+)	2000 03 03	704	0.2-	0.1+	2000 03 11	704	0.8+	0.3+
1998 08 17	704	(33.1+	6.9+)	2000 03 03	704	0.5-	0.0	2000 03 11	704	0.4+	0.7-
1998 08 17	704	(28.9+	8.5+)	2000 03 03	704	0.3-	0.5-	2000 03 11	704	0.3+	0.5-
2000 02 02	704	0.7-	0.4+	2000 03 04	704	0.7+	0.6-	2000 03 11	704	0.3+	0.1+
2000 02 02	704	0.2+	0.1+	2000 03 04	704	0.1+	0.5+	2000 03 11	704	0.2-	0.4+
2000 02 02	704	0.5-	0.3+	2000 03 04	704	0.3+	0.1+	2000 03 11	699	0.4-	0.1-
2000 02 02	704	0.1+	0.5+	2000 03 04	704	0.4+	0.4-	2000 03 11	699	0.3-	1.1+
2000 02 02	704	0.7+	0.8+	2000 03 04	704	(0.1+	2.1+)	2000 03 11	699	0.7-	0.1-
2000 02 06	704	0.0	0.2+	2000 03 05	704	0.3-	0.5-	2000 03 11	699	0.2-	0.6-

2000 CE₄₉ = 1993 FY₂₄ = 1998 XY₆₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	271.91339		(2000.0)	P	Q
n	0.27133336	ω	58.12106	-0.12911412	+0.99153193
a	2.3630192	Ω	204.47203	-0.92078203	-0.12509122
e	0.1872569	i	1.92674	-0.36808967	-0.03488017
P	3.63	H	14.8	G 0.15	U 4

Residuals in seconds of arc

1993 03 21	809	0.3-	0.6+	2000 02 02	704	0.9-	0.5+	2000 03 04	704	0.2+	0.5+
1993 03 22	809	0.5+	0.4+	2000 02 06	704	0.9+	0.1+	2000 03 04	704	0.0	0.5+
1993 03 26	809	0.1+	0.1+	2000 02 06	704	0.6-	0.5+	2000 03 05	704	0.1+	1.0-
1998 11 18	704	0.2+	1.8+	2000 02 06	704	0.3+	0.1+	2000 03 05	704	0.3-	0.5-
1998 11 18	704	0.9+	0.9-	2000 02 06	704	0.6+	0.5-	2000 03 05	704	0.1-	0.3+
1998 11 18	704	0.9-	0.8+	2000 02 06	704	0.1-	0.6-	2000 03 05	704	0.4-	0.4-
1998 11 18	704	1.6-	0.5-	2000 02 25	703	0.5+	0.3+	2000 03 05	704	0.1+	0.5+
1998 11 24	704	0.5+	0.6+	2000 02 25	703	0.0	0.0	2000 03 06	704	0.4-	0.8-
1998 11 24	704	(2.9+	0.5-)	2000 02 25	703	0.4-	0.6+	2000 03 06	704	0.1-	0.1+
1998 11 24	704	0.3+	0.0	2000 02 25	703	0.8-	1.1+	2000 03 06	704	0.2+	0.4+
1998 11 24	704	(5.0-	1.0-)	2000 02 29	704	0.3-	0.1+	2000 03 09	704	0.6+	0.1+
1998 12 13	691	0.4+	0.2-	2000 02 29	704	0.5+	0.1-	2000 03 09	704	0.2+	0.1-
1998 12 13	691	0.7+	0.4-	2000 02 29	704	0.5+	0.4+	2000 03 09	704	0.2+	0.0
1998 12 13	691	0.6+	0.1-	2000 02 29	704	0.0	0.6-	2000 03 09	704	0.1+	0.4-
1998 12 22	691	0.1-	0.1+	2000 02 29	704	0.2+	1.4-	2000 03 09	704	0.1-	0.3-
1998 12 22	691	0.7-	0.3-	2000 03 03	704	0.1+	0.3-	2000 03 11	704	(0.7-	2.2+)
1998 12 22	691	0.4-	0.1-	2000 03 03	704	0.4+	0.1-	2000 03 11	704	1.1+	1.3+
2000 02 02	704	0.2-	0.3+	2000 03 03	704	0.2-	0.2-	2000 03 11	704	1.5-	0.4+
2000 02 02	704	0.2+	0.4-	2000 03 03	704	0.3+	0.2-	2000 03 11	704	0.2+	0.7-
2000 02 02	704	0.9-	0.7-	2000 03 03	704	0.2+	0.5-	2000 03 11	704	(0.5+	2.4-)
2000 02 02	704	0.4-	0.3+	2000 03 04	704	0.6-	0.4+				

2000 MAR. 20

M.P.C. 39395

2000 CF₄₉ = 1995 FC₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	215.47481		(2000.0)	P		Q	
<i>n</i>	0.18219202	ω	142.82763	+0.52946912		+0.84520258	
<i>a</i>	3.0816489	Ω	158.84005	−0.81871240		+0.53156822	
<i>e</i>	0.0565849	<i>i</i>	11.62973	−0.22219913		+0.05538805	
<i>P</i>	5.41	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1995 03 24	691	0.1+	0.3−	2000 02 06	704	0.0	0.1−	2000 02 29	704	0.2−	0.4−
1995 03 24	691	0.1+	0.4−	2000 02 06	704	0.5+	0.2+	2000 03 03	704	0.3−	0.0
1995 03 24	691	0.2−	0.0	2000 02 06	704	0.5+	0.1+	2000 03 03	704	0.1−	0.3+
1995 03 31	691	0.2−	0.6−	2000 02 06	704	0.4+	0.1+	2000 03 03	704	0.3−	0.2+
1995 03 31	691	0.0	0.3−	2000 02 12	704	0.2+	0.1−	2000 03 03	704	0.3−	0.5+
1995 03 31	691	0.1−	0.1−	2000 02 12	704	0.8−	0.3+	2000 03 03	704	0.6−	0.3−
1998 12 15	704	(2.0+	0.3−)	2000 02 12	704	0.1−	0.6−	2000 03 04	704	0.1+	0.2+
1998 12 15	704	0.0	0.3−	2000 02 12	704	0.6−	0.6+	2000 03 04	704	0.1−	0.4+
1998 12 15	704	0.1−	0.2−	2000 02 12	704	1.7−	1.4−	2000 03 04	704	0.2−	0.1−
1998 12 15	704	0.3+	0.2−	2000 02 13	704	0.7+	0.4−	2000 03 04	704	0.1+	0.5+
1998 12 15	704	(6.4−	0.0)	2000 02 13	704	0.4+	0.7+	2000 03 04	704	0.2+	0.2+
2000 02 02	703	0.3−	1.5−	2000 02 13	704	0.5+	0.1−	2000 03 06	704	0.3+	0.1+
2000 02 02	703	0.6−	0.0	2000 02 13	704	1.8+	1.1+	2000 03 06	704	0.1+	0.1−
2000 02 02	703	0.3+	0.2−	2000 02 25	703	0.2−	0.4+	2000 03 06	704	0.6−	0.2+
2000 02 02	703	1.5+	0.5−	2000 02 25	703	0.2+	0.1+	2000 03 06	704	0.2−	0.4+
2000 02 02	704	0.4+	0.1−	2000 02 25	703	0.9−	0.5+	2000 03 11	704	0.1+	0.2+
2000 02 02	704	0.4−	0.1−	2000 02 25	703	0.2−	0.8+	2000 03 11	704	0.0	0.6+
2000 02 02	704	0.4−	0.1+	2000 02 29	704	0.2+	0.2−	2000 03 11	704	0.2+	0.4+
2000 02 02	704	0.2+	0.0	2000 02 29	704	0.1−	0.0	2000 03 11	704	0.2−	0.5+
2000 02 02	704	0.0	0.2−	2000 02 29	704	0.0	0.4−	2000 03 11	704	0.0	0.3+
2000 02 06	704	0.0	0.7−	2000 02 29	704	0.6+	0.9−				

2000 CK₄₉ = 1986 HB₁ = 1991 XA₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	289.71602		(2000.0)	P		Q	
<i>n</i>	0.27570594	ω	56.57860	−0.41520723		+0.90959987	
<i>a</i>	2.3379684	Ω	188.92825	−0.86379789		−0.39943166	
<i>e</i>	0.1813285	<i>i</i>	5.62056	−0.28540527		−0.11437845	
<i>P</i>	3.57	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1986 04 29	675	1.7+	1.7+	1998 11 11	704	1.7−	0.3−	2000 02 06	704	0.1+	0.2−
1986 04 29	675	0.8−	2.2+	2000 02 02	704	0.3+	0.2−	2000 02 12	704	(1.5+	3.7+)
1991 12 03	691	0.0	0.1−	2000 02 02	704	0.0	0.2+	2000 02 12	704	(1.4−	5.1+)
1991 12 03	691	0.7+	0.8+	2000 02 02	704	0.4−	0.4−	2000 02 12	704	(3.4−	5.1+)
1991 12 03	691	0.2+	1.4−	2000 02 02	704	0.4−	1.2+	2000 03 13	704	0.1−	0.1+
1991 12 13	691	0.9−	1.3+	2000 02 02	704	0.5−	0.4−	2000 03 13	704	0.3+	0.4−
1991 12 13	691	0.1+	1.4+	2000 02 06	704	0.0	0.4+	2000 03 13	704	0.2−	0.7−
1991 12 13	691	0.0	1.0+	2000 02 06	704	0.2+	0.2−	2000 03 13	704	0.4+	1.3−
1998 11 11	704	0.2−	0.2+	2000 02 06	704	0.2−	0.3−				
1998 11 11	704	1.2+	1.5+	2000 02 06	704	0.0	0.0				

2000 CN₄₉ = 1998 SH₁₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	25.21154		(2000.0)	P		Q	
<i>n</i>	0.21858349	ω	223.78988	−0.55399915		−0.82983126	
<i>a</i>	2.7293411	Ω	259.96010	+0.78128320		−0.49050569	
<i>e</i>	0.1111398	<i>i</i>	3.89108	+0.28754392		−0.26605310	
<i>P</i>	4.51	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 26	704	0.5+	0.3+	1999 12 05	704	1.9+	0.3+	2000 02 13	704	0.2−	0.1−
1998 09 26	704	1.4+	1.5−	2000 01 05	704	0.6−	0.5+	2000 02 13	704	0.5−	0.4+
1998 09 26	704	0.4−	0.4−	2000 01 05	704	0.9−	0.5+	2000 02 13	704	0.3−	0.0
1998 09 26	704	0.6+	0.7−	2000 01 05	704	0.7−	0.3+	2000 02 13	704	0.0	0.6+

1998 09 27	704	0.7−	1.7+	2000 01 05	704	1.2−	1.2−	2000 03 11	699	0.4−	0.3+
1998 09 27	704	0.5−	0.1+	2000 02 02	704	0.2+	0.1+	2000 03 11	699	0.1+	0.1−
1998 09 27	704	0.5−	1.4−	2000 02 02	704	0.2−	0.2−	2000 03 11	699	0.2+	0.1+
1998 09 27	704	0.4−	1.6+	2000 02 02	704	0.2+	0.4−	2000 03 11	699	0.3−	0.0
1998 09 27	704	0.2−	0.2+	2000 02 02	704	0.3+	0.5+	2000 03 11	608	0.4−	0.6−
1998 11 11	704	(2.6−	1.9+)	2000 02 06	704	0.8+	0.2−	2000 03 11	608	0.2+	0.2−
1998 11 11	704	0.1+	0.5+	2000 02 06	704	0.9+	0.5−	2000 03 11	608	0.0	0.3−
1998 11 11	704	0.7+	0.9−	2000 02 06	704	0.3+	0.5+	2000 03 13	704	0.2+	0.1−
1998 11 11	704	0.0	0.1+	2000 02 06	704	0.2+	0.6−	2000 03 13	704	0.4+	1.1+
1998 11 11	704	0.8−	0.6+	2000 02 06	704	0.3+	1.4−	2000 03 13	704	0.7+	0.2−
1999 12 05	704	0.4−	0.7−	2000 02 12	704	0.2+	1.6−	2000 03 13	704	0.6−	0.3+
1999 12 05	704	0.1−	0.8+	2000 02 12	704	0.3−	0.8+	2000 03 13	704	0.3−	1.3+
1999 12 05	704	0.2−	0.0	2000 02 12	704	0.3+	0.5+				

2000 CA₅₀ = 1998 VG₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	102.75972		(2000.0)	P		Q	
<i>n</i>	0.21627781	ω	160.26725	+0.71730065		−0.69231183	
<i>a</i>	2.7487046	Ω	243.80475	+0.62692122		+0.69052726	
<i>e</i>	0.0837732	<i>i</i>	5.02786	+0.30405520		+0.20946702	
<i>P</i>	4.56	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	0.5+	0.1+	1998 12 08	699	0.6+	0.9+	2000 03 08	704	0.2+	0.2+
1998 11 10	704	1.8−	0.5+	1998 12 08	699	0.5−	0.1+	2000 03 08	704	0.5−	0.3+
1998 11 10	704	1.9−	0.3+	1998 12 08	699	0.1−	0.5+	2000 03 08	704	(2.2−	1.3+)
1998 11 10	704	0.9−	0.9+	2000 02 02	704	0.3−	0.4−	2000 03 08	704	0.5−	0.7+
1998 11 11	704	0.3−	0.7−	2000 02 02	704	0.0	0.3−	2000 03 11	699	0.4+	0.5+
1998 11 11	704	0.7+	0.7−	2000 02 02	704	1.3+	0.7−	2000 03 11	699	0.0	0.1−
1998 11 11	704	0.5+	1.1−	2000 02 02	704	1.2+	0.9−	2000 03 11	699	0.1+	0.5+
1998 11 11	704	1.5+	0.5−	2000 02 02	704	0.5−	0.5−	2000 03 11	699	0.3−	0.1+
1998 11 11	704	1.6+	0.7+	2000 02 06	704	0.4−	0.8+	2000 03 13	704	0.3−	0.4−
1998 11 24	691	0.1−	0.4−	2000 02 06	704	0.5−	0.7+	2000 03 13	704	0.5−	0.2+
1998 11 24	691	0.1+	0.5−	2000 02 06	704	0.3−	0.9+	2000 03 13	704	0.6+	1.1−
1998 11 24	691	0.0	0.1−	2000 02 06	704	0.2+	0.7+	2000 03 13	704	0.2+	1.5−

2000 CP₅₀ = 1995 KZ₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	3.08652		(2000.0)	P		Q	
<i>n</i>	0.17847915	ω	310.08530	−0.87011361		−0.49273291	
<i>a</i>	3.1242400	Ω	200.40142	+0.46108541		−0.80609889	
<i>e</i>	0.2094709	<i>i</i>	1.77493	+0.17407626		−0.32774815	
<i>P</i>	5.52	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 05 26	691	0.2−	0.0	2000 02 06	704	0.2+	0.2−	2000 03 05	704	0.5−	0.7+
1995 05 26	691	0.1−	0.2−	2000 02 06	704	0.2−	0.4−	2000 03 05	704	0.4−	1.5+
1995 05 26	691	0.1+	0.1+	2000 02 06	704	0.3−	0.3−	2000 03 05	704	(1.3−	2.1+)
1995 05 27	691	0.5−	0.3−	2000 02 06	704	0.5+	0.2+	2000 03 11	704	0.2+	0.3−
1995 05 27	691	0.3+	0.0	2000 02 29	704	0.1−	0.5−	2000 03 11	704	0.1−	0.2+
1995 05 27	691	0.4+	0.2+	2000 02 29	704	0.3+	0.5+	2000 03 11	704	0.3+	0.3+
2000 02 01	703	0.6+	0.8+	2000 02 29	704	0.1+	0.1+	2000 03 11	704	0.0	0.4−
2000 02 01	703	0.1+	0.7+	2000 02 29	704	0.4+	0.7+	2000 03 11	699	0.1+	0.5+
2000 02 01	703	1.2−	0.2−	2000 02 29	704	0.7+	0.2+	2000 03 11	704	0.2−	1.1−
2000 02 01	703	1.5−	0.5−	2000 03 03	704	0.4−	0.9+	2000 03 11	699	0.4−	0.0
2000 02 02	704	0.4+	0.4+	2000 03 03	704	0.2−	0.4−	2000 03 11	699	0.8−	0.0
2000 02 02	704	0.5+	0.5−	2000 03 03	704	0.6+	0.7−	2000 03 11	699	0.4−	1.0+
2000 02 02	704	0.5−	1.0−	2000 03 03	704	0.3+	0.8−				
2000 02 02	704	1.1+	0.6−	2000 03 03	704	0.5+	1.0−				

2000 CR₅₀ = 1998 RB₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	233.69550		(2000.0)		P		Q
<i>n</i>	0.31660597	ω	6.37197	+0.22365674			+0.97405447
<i>a</i>	2.1320137	Ω	276.55586	-0.89576985			+0.19144039
<i>e</i>	0.0165178	<i>i</i>	1.99455	-0.38415366			+0.12069992
<i>P</i>	3.11	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.1+	0.3-	2000 02 06	704	0.5+	0.3-	2000 03 03	704	0.2-	1.2+
1998 09 14	704	1.9-	1.0-	2000 02 06	704	0.2+	0.2-	2000 03 03	704	0.3+	0.5+
1998 09 14	704	0.4+	0.7-	2000 02 06	704	0.2+	1.0-	2000 03 11	704	0.7+	0.2+
1998 09 14	704	1.5-	1.3+	2000 02 06	704	0.3+	0.2+	2000 03 11	704	0.0	0.4+
1998 09 18	704	0.2-	0.7-	2000 02 06	704	0.2+	0.3+	2000 03 11	704	0.2-	0.0
1998 09 18	704	0.2+	0.4-	2000 02 29	704	0.2-	0.9-	2000 03 11	704	1.2+	0.4-
1998 09 18	704	0.7+	0.1+	2000 02 29	704	0.6-	0.8-	2000 03 11	704	0.7-	0.7-
1998 09 18	704	0.3+	0.5+	2000 02 29	704	0.0	0.7-	2000 03 11	699	0.1+	0.4+
1998 09 18	704	1.9+	1.0+	2000 02 29	704	0.7-	0.4-	2000 03 11	699	0.1-	0.3+
2000 02 02	704	0.3-	0.1-	2000 02 29	704	0.2-	0.1-	2000 03 11	699	0.5-	0.0
2000 02 02	704	0.1+	0.6-	2000 03 03	704	0.0	0.0	2000 03 11	699	0.0	0.0
2000 02 02	704	0.1-	0.9+	2000 03 03	704	0.2+	0.2+				
2000 02 02	704	0.1-	1.4+	2000 03 03	704	0.1-	0.4+				

2000 CW₅₀ = 1998 SQ₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	329.97933		(2000.0)		P		Q
<i>n</i>	0.26749571	ω	319.23312	-0.96936472			+0.24451535
<i>a</i>	2.3855663	Ω	234.93496	-0.21730594			-0.89799877
<i>e</i>	0.1230421	<i>i</i>	1.63333	-0.11449963			-0.36580111
<i>P</i>	3.68	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 26	691	0.3-	0.1+	2000 02 02	704	0.1+	0.1-	2000 03 03	704	0.1+	0.2+
1998 09 26	691	0.2-	0.2+	2000 02 06	704	0.5+	0.2+	2000 03 03	704	0.5-	0.4+
1998 09 26	691	0.0	0.2-	2000 02 06	704	0.2-	0.2-	2000 03 03	704	0.2-	0.6+
1998 09 30	691	0.6+	0.3+	2000 02 06	704	0.6-	1.4-	2000 03 09	704	1.0-	0.2-
1998 09 30	691	1.0+	0.0	2000 02 12	104	0.0	0.9-	2000 03 09	704	0.0	0.3-
1998 09 30	691	0.7+	0.1-	2000 02 12	104	1.2-	0.4-	2000 03 09	704	0.2-	0.3+
1998 10 01	691	0.5-	0.2+	2000 02 29	704	0.7+	0.2-	2000 03 09	704	0.5+	1.0+
1998 10 01	691	1.1-	0.2+	2000 02 29	704	0.1+	0.7-	2000 03 09	704	0.1+	0.7+
1998 10 01	691	0.6-	0.1+	2000 02 29	704	0.6+	0.4-	2000 03 11	704	0.4-	0.6+
2000 02 02	704	0.2-	0.7+	2000 02 29	704	0.3+	0.3-	2000 03 11	704	0.2+	0.3+
2000 02 02	704	0.5-	0.4+	2000 02 29	704	1.3+	0.7-	2000 03 11	704	0.0	0.5+
2000 02 02	704	0.3-	0.6-	2000 03 03	704	0.1+	0.3-	2000 03 11	704	0.1-	0.5+
2000 02 02	704	0.3+	0.2+	2000 03 03	704	0.4+	0.0	2000 03 11	704	0.1+	0.4+

2000 CH₅₁ = 1996 FF₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	260.98436		(2000.0)		P		Q
<i>n</i>	0.21852370	ω	39.90455	-0.03224041			+0.99752459
<i>a</i>	2.7298389	Ω	228.34416	-0.93702596			-0.05192202
<i>e</i>	0.1074011	<i>i</i>	4.79785	-0.34776847			+0.04742145
<i>P</i>	4.51	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 03 22	809	0.3+	0.5+	2000 02 02	704	0.3-	0.3+	2000 02 13	704	0.3+	0.0
1996 03 22	809	1.8-	0.2-	2000 02 02	704	0.8-	0.5+	2000 03 08	704	0.6+	0.3-
1996 03 22	809	0.8-	0.3+	2000 02 02	704	0.3-	0.1-	2000 03 08	704	0.1+	0.9-
1996 03 26	809	1.2+	0.5-	2000 02 02	704	0.3-	0.1+	2000 03 08	704	0.2+	0.0
1996 03 26	809	0.5+	0.7-	2000 02 02	704	0.8-	1.5+	2000 03 08	704	0.5+	0.2+
1996 03 26	809	0.2+	0.9-	2000 02 06	704	0.1+	0.5-	2000 03 11	699	0.4-	0.5+
1998 11 28	327	0.3-	0.0	2000 02 06	704	0.4+	0.5-	2000 03 11	699	0.1-	0.2+
1998 11 28	327	0.1-	0.3-	2000 02 06	704	1.1-	0.1+	2000 03 11	699	0.3-	0.4+
1998 11 28	327	0.2-	0.2+	2000 02 12	704	(0.5+	4.3+)	2000 03 11	699	0.1-	0.1+
1998 12 15	704	1.3+	0.3-	2000 02 12	704	(0.6-	2.7+)	2000 03 13	704	0.4+	0.2+

1998 12 15	704	0.6+	0.7-	2000 02 12	704	(0.3-	2.3+)	2000 03 13	704	0.8+	0.1+
1998 12 15	704	1.2-	0.0	2000 02 13	704	1.1+	1.2-	2000 03 13	704	0.5+	0.2+
1998 12 15	704	(3.1-	0.4+)	2000 02 13	704	0.0	0.5+				

2000 CM₅₁ = 1998 UF₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	28.93099		(2000.0)		P		Q
<i>n</i>	0.17317049	ω	257.36259	-0.54622658			-0.83582631
<i>a</i>	3.1877686	Ω	225.88713	+0.79520770			-0.49678380
<i>e</i>	0.1032475	<i>i</i>	4.39774	+0.26321329			-0.23366696
<i>P</i>	5.69	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 27	327	0.5+	0.0	2000 02 02	704	0.1+	0.1-	2000 03 08	704	0.7+	0.1-
1998 10 27	327	0.4+	0.0	2000 02 02	704	0.1+	0.1+	2000 03 08	704	0.3+	0.2-
1998 10 27	327	0.5+	0.4+	2000 02 06	704	0.5+	0.5+	2000 03 11	699	0.7-	0.1+
1998 11 01	327	0.1-	0.3-	2000 02 06	704	0.8+	0.5-	2000 03 11	699	0.3+	0.2+
1998 11 01	327	0.3-	0.2+	2000 02 06	704	0.1+	0.4+	2000 03 11	699	0.0	0.3+
1998 11 01	327	0.0	0.0	2000 02 12	704	0.4-	0.2-	2000 03 11	699	0.2-	0.2+
1998 12 08	699	0.2-	0.3-	2000 02 12	704	0.6-	0.4+	2000 03 13	704	0.2-	0.1-
1998 12 08	699	0.6-	0.6+	2000 02 12	704	0.8-	1.0+	2000 03 13	704	0.1+	0.8-
1998 12 08	699	0.0	0.7-	2000 03 08	704	0.7+	0.4-	2000 03 13	704	0.1+	0.4-
2000 02 02	704	0.8+	0.2-	2000 03 08	704	0.5-	0.9-	2000 03 13	704	0.2-	0.7-
2000 02 02	704	1.4-	0.8+	2000 03 08	704	0.4+	0.5+				

2000 CO₅₁ = 1997 QD₃ = 1998 XQ₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	143.97112		(2000.0)		P		Q
<i>n</i>	0.18889972	ω	58.00318	+0.97969083			-0.14747110
<i>a</i>	3.0082587	Ω	310.10406	+0.06149780			+0.86589461
<i>e</i>	0.1323565	<i>i</i>	10.23143	+0.19085045			+0.47799455
<i>P</i>	5.22	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 08 30	566	0.0	0.3+	1998 12 17	704	0.7+	0.4-	2000 02 07	704	0.3-	0.0
1997 08 30	566	0.1+	0.7+	1998 12 17	704	(2.2+	2.6-)	2000 02 07	704	0.5-	0.0
1997 08 30	566	0.0	0.5+	1998 12 17	704	0.4-	0.7-	2000 02 07	704	0.3+	0.7+
1997 09 02	566	0.1+	0.1-	2000 02 02	704	0.0	0.3+	2000 02 07	704	0.2-	0.6+
1997 09 02	566	0.2+	0.2-	2000 02 02	704	0.4+	0.2-	2000 03 01	704	1.0+	0.2+
1997 09 02	566	0.1+	0.1-	2000 02 02	704	0.1-	0.6+	2000 03 01	704	0.3+	0.2+
1997 09 03	625	1.8-	1.6+	2000 02 02	704	0.5-	0.5-	2000 03 01	704	0.0	0.7+
1997 09 03	625	1.2-	1.6+	2000 02 02	704	0.6-	0.7-	2000 03 08	704	0.5+	0.2+
1998 12 14	704	(3.8-	0.6-)	2000 02 06	704	0.2+	0.3+	2000 03 08	704	0.1+	0.8+
1998 12 14	704	1.8-	0.1+	2000 02 06	704	0.0	0.1+	2000 03 08	704	1.1+	0.5+
1998 12 14	704	1.0+	0.5+	2000 02 06	704	0.2-	0.0	2000 03 08	704	0.3+	0.9+
1998 12 14	704	0.3+	1.5+	2000 02 06	704	0.1-	0.4-	2000 03 08	704	1.0+	0.7+
1998 12 17	704	0.0	0.2-	2000 02 07	704	0.1-	0.8-				

2000 CV₅₁ = 1998 XO₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	188.33668		(2000.0)		P		Q
<i>n</i>	0.18534975	ω	167.72388	+0.85130402			+0.52290838
<i>a</i>	3.0465481	Ω	160.56520	-0.49164538			+0.82364595
<i>e</i>	0.0338103	<i>i</i>	7.42379	-0.18321103			+0.21948616
<i>P</i>	5.32	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.4-	0.2-	2000 02 02	704	0.4-	0.5+	2000 02 29	704	0.3+	0.3+
1998 12 15	704	(2.5-	0.2+)	2000 02 06	704	0.4-	0.7-	2000 02 29	704	0.0	0.4+
1998 12 15	704	0.2-	0.6+	2000 02 06	704	0.4+	1.6+	2000 03 03	704	0.3-	0.0
1998 12 15	704	0.3-	1.5+	2000 02 06	704	0.8+	0.8+	2000 03 03	704	0.1-	0.1-
1998 12 22	704	0.5-	0.1-	2000 02 08	704	0.3+	0.9+	2000 03 03	704	0.1-	0.3+

2000 MAR. 20

M.P.C. 39397

1998 12 22	704	0.7+	0.2+	2000 02 14	691	0.3-	0.8-	2000 03 11	704	0.2-	0.0
2000 02 02	704	0.1-	0.4-	2000 02 14	691	0.3-	0.9-	2000 03 11	704	0.2-	0.5-
2000 02 02	704	0.5+	0.7+	2000 02 29	704	0.2+	0.3+	2000 03 11	704	0.0	0.5-
2000 02 02	704	0.1+	0.0	2000 02 29	704	0.2+	0.2-	2000 03 11	704	0.4-	0.6-
2000 02 02	704	0.4-	1.0-	2000 02 29	704	0.4+	0.4+				

2000 CY₅₁ = 1998 SM₁₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	208.95740		(2000.0)	Williams							
				P		Q					
<i>n</i>	0.29778109	ω	358.56860	+0.67258150		+0.73836979					
<i>a</i>	2.2209459	Ω	313.69474	-0.67827665		+0.58836937					
<i>e</i>	0.1055642	<i>i</i>	3.92078	-0.29593060		+0.32959299					
<i>P</i>	3.31	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4				

Residuals in seconds of arc

1998 09 26	704	0.5+	1.0-	1998 11 10	704	0.1-	0.1+	2000 02 12	704	(2.8+	0.5+)
1998 09 26	704	0.2-	0.0	1998 11 17	699	0.2+	1.6+	2000 02 29	704	0.1+	0.6-
1998 09 26	704	0.8+	1.5-	1998 11 17	699	1.0+	1.3+	2000 02 29	704	0.1+	0.7-
1998 09 26	704	0.0	1.0-	1998 11 17	699	0.2-	0.3+	2000 02 29	704	0.1+	0.7-
1998 09 26	704	0.3+	0.3-	2000 02 02	704	0.2+	0.4-	2000 02 29	704	0.1-	0.7-
1998 09 27	704	0.2-	0.4-	2000 02 02	704	0.3+	0.3-	2000 02 29	704	0.2+	0.7-
1998 09 27	704	0.3-	0.3+	2000 02 02	704	1.7+	0.7+	2000 03 03	704	0.1+	0.0
1998 09 27	704	0.1+	0.2+	2000 02 02	704	0.2-	0.6+	2000 03 03	704	0.0	0.4-
1998 09 27	704	0.7-	0.1-	2000 02 02	704	0.6-	0.2-	2000 03 03	704	0.1-	0.3-
1998 09 27	704	0.0	1.0-	2000 02 06	704	0.6+	1.0+	2000 03 03	704	0.1-	0.1+
1998 10 12	699	0.0	1.2+	2000 02 06	704	0.4+	0.4-	2000 03 03	704	0.0	0.3+
1998 10 12	699	0.6-	0.8+	2000 02 06	704	0.2+	0.9+	2000 03 11	704	1.1-	0.1+
1998 10 12	699	0.1+	1.0+	2000 02 06	704	1.1-	0.1+	2000 03 11	704	0.3-	0.4-
1998 11 10	704	0.4+	0.8-	2000 02 12	704	(1.3+	4.8-)	2000 03 11	704	0.2-	0.1+
1998 11 10	704	0.0	0.5-	2000 02 12	704	(3.1+	2.7-)	2000 03 11	704	0.7-	0.8+
1998 11 10	704	0.8-	1.0-	2000 02 12	704	(2.6+	0.2-)				

2000 CZ₅₁ = 1997 EH₅₁ = 1998 VY₉

Id. G. V. Williams; 1997 LO₁₇ = 1978 VY₉ (*MPC* 34201) is invalid

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	219.77566		(2000.0)	Williams							
				P		Q					
<i>n</i>	0.30526774	ω	135.63052	+0.58095583		+0.81380766					
<i>a</i>	2.1844835	Ω	169.85825	-0.76767510		+0.55373154					
<i>e</i>	0.1426408	<i>i</i>	4.69137	-0.27049077		+0.17634757					
<i>P</i>	3.23	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3				

Residuals in seconds of arc

1997 03 05	809	0.2-	0.8-	1998 11 11	704	(0.1-	2.4-)	2000 03 03	704	0.7+	0.0
1997 03 05	809	0.4+	1.5-	1998 11 11	704	0.2+	1.9-	2000 03 03	704	0.5+	0.0
1997 03 05	809	0.4-	0.1-	2000 02 02	704	0.4-	0.3-	2000 03 05	704	0.3+	0.1-
1997 03 06	809	(2.6-	1.2-)	2000 02 02	704	0.4-	0.0	2000 03 05	704	0.1-	0.4-
1997 03 06	809	0.7-	1.2-	2000 02 02	704	0.5+	0.1-	2000 03 05	704	0.2+	0.1-
1997 03 06	809	0.7-	1.5-	2000 02 02	704	1.0-	0.5+	2000 03 05	704	0.1-	0.3+
1998 09 18	699	1.2+	1.8+	2000 02 02	704	0.9-	0.7+	2000 03 05	704	0.3+	0.3-
1998 09 18	699	0.1-	0.6+	2000 02 06	704	0.3-	0.2-	2000 03 11	704	0.3+	0.0
1998 09 18	699	0.7+	0.5+	2000 02 06	704	0.8+	0.1+	2000 03 11	704	0.5-	0.1+
1998 10 14	699	0.5+	0.7+	2000 02 06	704	1.6+	0.0	2000 03 11	704	0.2-	0.1+
1998 10 14	699	0.0	1.0+	2000 02 29	704	0.2+	0.1-	2000 03 11	704	0.2-	0.2+
1998 10 14	699	0.5+	1.4+	2000 02 29	704	0.1-	0.5+	2000 03 11	699	0.8-	0.2+
1998 11 10	704	0.6-	0.3+	2000 02 29	704	0.2+	0.2+	2000 03 11	704	0.3+	0.3+
1998 11 10	704	0.1-	0.9-	2000 02 29	704	0.2+	0.3+	2000 03 11	699	0.3-	0.5+
1998 11 10	704	0.2+	1.7-	2000 02 29	704	0.2+	0.7+	2000 03 11	699	0.1-	0.4+
1998 11 11	704	1.0-	0.2-	2000 03 03	704	0.3+	0.6+	2000 03 11	699	0.8-	0.4+
1998 11 11	704	0.6-	1.4-	2000 03 03	704	0.5+	0.3+				
1998 11 11	704	0.1-	1.7-	2000 03 03	704	0.5+	0.4+				

2000 CA₅₂ = 1987 QZ₅ = 1998 XP₆₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	233.09821		(2000.0)	Williams							
				P		Q					
<i>n</i>	0.28334094	ω	342.04525	+0.51789457		+0.85347520					
<i>a</i>	2.2957777	Ω	319.09273	-0.77359205		+0.43831478					
<i>e</i>	0.2286379	<i>i</i>	5.08243	-0.36515825		+0.28188693					
<i>P</i>	3.48	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3				

Residuals in seconds of arc

1987 08 28	809	0.7-	1.4-	2000 02 02	704	0.4+	1.0-	2000 03 03	704	0.1+	0.8-
1987 08 28	809	0.2-	1.6-	2000 02 02	704	0.1+	0.5+	2000 03 09	704	0.1-	0.1-
1987 08 28	809	0.5+	1.4-	2000 02 02	704	0.9-	0.4-	2000 03 09	704	0.1+	0.1-
1987 08 30	809	0.0	1.7+	2000 02 02	704	0.1-	0.8+	2000 03 09	704	0.2+	0.0
1987 08 30	809	1.1+	1.7+	2000 02 06	704	0.2+	0.9+	2000 03 09	704	0.1-	0.0
1987 08 30	809	0.7+	1.7+	2000 02 06	704	0.6+	0.5+	2000 03 09	704	0.2-	0.2+
1987 08 31	809	0.4-	0.2+	2000 02 06	704	0.2+	0.6+	2000 03 11	704	0.4-	0.4+
1987 08 31	809	1.8-	0.7+	2000 02 06	704	0.9+	1.7+	2000 03 11	704	0.2-	0.1-
1998 12 14	704	0.6+	0.9-	2000 02 29	704	0.2-	0.3+	2000 03 11	704	0.3+	0.2+
1998 12 14	704	1.1-	0.9+	2000 02 29	704	0.2+	0.1-	2000 03 11	704	0.1+	0.1-
1998 12 14	704	0.4-	1.4-	2000 02 29	704	0.0	0.1-	2000 03 11	699	0.5-	0.3-
1998 12 14	704	0.2-	0.3+	2000 02 29	704	0.1+	0.2-	2000 03 11	704	0.2+	0.1+
1998 12 17	704	1.0-	0.1-	2000 02 29	704	0.5+	0.1+	2000 03 11	699	1.3-	0.3+
1998 12 17	704	0.3+	0.4-	2000 03 03	704	0.6+	0.3-	2000 03 11	699	0.4-	0.5-
1998 12 17	704	0.8+	1.6+	2000 03 03	704	0.2+	0.6-	2000 03 11	699	0.4+	0.8+
1998 12 17	704	1.1+	0.4-	2000 03 03	704	0.9+	1.0-				
2000 02 02	704	0.3+	0.2+	2000 03 03	704	1.2-	0.6+				

2000 CF₅₂ = 1994 LR₆ = 1995 UF₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	50.91208		(2000.0)	Williams							
				P		Q					
<i>n</i>	0.29598239	ω	162.86763	-0.07896969		-0.99674934					
<i>a</i>	2.2299346	Ω	291.65940	+0.91259348		-0.06584309					
<i>e</i>	0.1178712	<i>i</i>	0.98362	+0.40116946		-0.04642678					
<i>P</i>	3.33	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4				

Residuals in seconds of arc

1994 06 03	809	1.2+	1.8-	2000 02 06	704	0.2-	0.1-	2000 03 05	704	0.1+	0.1+
1994 06 03	809	1.3-	0.3-	2000 02 06	704	0.5+	1.2-	2000 03 05	704	0.2+	0.4-
1994 06 03	809	0.6-	0.1-	2000 02 29	704	0.6+	0.4-	2000 03 05	704	0.4+	0.7-
1994 06 04	809	0.4-	1.0+	2000 02 29	704	0.4+	0.5-	2000 03 05	704	0.4+	0.0
1994 06 04	809	0.4+	0.1+	2000 02 29	704	0.7+	0.1-	2000 03 05	704	0.6+	0.5-
1994 06 04	809	0.6+	0.8+	2000 02 29	704	0.6+	1.0-	2000 03 06	704	0.0	0.2-
1995 10 20	010	1.8+	1.8+	2000 02 29	704	0.1-	0.9-	2000 03 06	704	0.5+	0.1-
1995 10 20	010	1.1+	1.8+	2000 03 03	704	0.4-	0.0	2000 03 06	704	(3.3-	0.4-)
1995 10 20	010	0.7+	0.7+	2000 03 03	704	0.3-	0.2-	2000 03 11	704	0.1-	0.5+
1995 10 23	010	1.0-	1.6-	2000 03 03	704	0.3-	0.0	2000 03 11	704	0.1+	0.2+
1995 10 23	010	1.1-	1.5-	2000 03 03	704	0.2-	0.1-	2000 03 11	704	0.1-	0.7+
1995 10 23	010	1.3-	1.6-	2000 03 03	704	0.2-	0.2-	2000 03 11	699	0.5-	0.7+
2000 02 02	704	0.3+	0.6-	2000 03 04	704	0.1+	0.0	2000 03 11	704	0.1-	0.4+
2000 02 02	704	0.8+	0.7+	2000 03 04	704	0.1-	0.3-	2000 03 11	704	0.3-	1.0+
2000 02 02	704	0.1-	1.5+	2000 03 04	704	0.2-	0.0	2000 03 11	699	0.4-	0.1+
2000 02 02	704	0.1-	0.4+	2000 03 04	704	0.4-	0.2+	2000 03 11	699	1.1-	1.1+
2000 02 06	704	0.3-	0.0	2000 03 04	704	0.2-	0.1-	2000 03 11	699	0.8-	0.0

2000 CG₅₂ = 1989 AM₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	350.09852		(2000.0)	P	Q
n	0.18382904	ω	232.56812	-0.98956885	-0.13284358
a	3.0633266	Ω	299.73503	+0.14389841	-0.89312775
e	0.1778926	i	3.67996	+0.00683720	-0.42973876
P	5.36	H	14.0	G 0.15	U 4

M.P.C. 39398

1989 01 10	413	0.2−	0.4+	2000 02 06	704	0.6+	0.7+	2000 03 03	704	0.4−	0.1+
1989 01 10	413	1.0+	0.4−	2000 02 06	704	0.3+	0.1+	2000 03 03	704	0.3−	0.5−
2000 01 05	704	0.4+	1.6+	2000 02 12	704	0.7+	0.3−	2000 03 03	704	1.5−	1.1−
2000 01 05	704	0.3+	0.1−	2000 02 12	704	1.1+	0.0	2000 03 03	704	0.7−	0.1−
2000 01 05	704	0.4+	1.1−	2000 02 12	704	0.5+	0.6−	2000 03 13	704	0.3+	0.0
2000 02 02	704	0.8−	1.2+	2000 02 29	704	0.1+	0.7−	2000 03 13	704	0.5+	0.7+
2000 02 02	704	0.1−	0.8+	2000 02 29	704	0.0	0.5−	2000 03 13	704	0.2+	0.2+
2000 02 02	704	0.4+	0.9+	2000 02 29	704	0.6−	0.9−	2000 03 13	704	1.1+	1.2+
2000 02 02	704	0.1−	0.5+	2000 02 29	704	0.2−	0.7−				

2000 CR₅₂ = 1966 PG₁ = 1998 XX₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>	173.98393	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.19249889	<i>ω</i>	20.86304	+0.96076850	+0.26000356		
<i>a</i>	2.9706437	<i>Ω</i>	323.62752	−0.27190623	+0.81434761		
<i>e</i>	0.1029149	<i>i</i>	9.36995	−0.05468905	+0.51887968		
<i>P</i>	5.12	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1966 08 09	074	0.6+	1.2−	1998 12 17	704	0.7−	0.0	2000 03 01	704	1.4−	0.3−
1998 11 16	704	0.2+	0.1−	2000 02 02	704	1.0−	0.0	2000 03 01	704	0.2−	0.0
1998 11 16	704	1.0+	0.6−	2000 02 02	704	0.4−	0.2+	2000 03 01	704	0.5−	1.1−
1998 11 16	704	0.8+	0.4+	2000 02 02	704	0.7−	1.0+	2000 03 11	704	0.1+	0.3+
1998 11 16	704	0.6+	1.1−	2000 02 02	704	0.0	0.5−	2000 03 11	704	0.4+	0.4−
1998 11 16	704	0.3−	0.9+	2000 02 06	704	0.2−	0.3−	2000 03 11	704	0.3+	0.1−
1998 12 14	704	1.7−	0.5−	2000 02 06	704	0.1+	0.5+	2000 03 11	699	0.3+	0.0
1998 12 14	704	(2.5−	0.3+)	2000 02 06	704	0.0	0.0	2000 03 11	704	0.2−	0.3−
1998 12 14	704	0.2−	0.3+	2000 02 29	704	0.3−	0.3−	2000 03 11	704	0.2+	0.2−
1998 12 17	704	0.5−	0.6+	2000 02 29	704	0.5−	0.2−	2000 03 11	699	0.4+	0.6−
1998 12 17	704	0.2−	0.1−	2000 02 29	704	0.2+	0.2+	2000 03 11	699	0.7+	0.2−
1998 12 17	704	0.2+	0.6−	2000 02 29	704	0.2−	0.2−	2000 03 11	699	0.4+	0.0
1998 12 17	704	0.7+	0.2+	2000 02 29	704	1.7+	1.5+				

2000 CV₅₂ = 1998 QP₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>	117.89517	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.23842153	<i>ω</i>	213.79293	+0.90165990	−0.43096671		
<i>a</i>	2.5757621	<i>Ω</i>	171.50469	+0.43058882	+0.88706677		
<i>e</i>	0.1773775	<i>i</i>	13.99925	+0.04003369	+0.16546976		
<i>P</i>	4.13	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 28	704	0.6+	0.6+	2000 02 02	704	0.2+	0.7+	2000 02 29	704	0.6−	0.3−
1998 08 28	704	0.6+	1.0+	2000 02 02	704	0.6+	0.6−	2000 02 29	704	0.2−	0.9−
1998 08 28	704	0.8−	0.2−	2000 02 02	704	0.8−	0.5−	2000 03 11	704	0.4−	0.1−
1998 08 28	704	0.9−	0.5−	2000 02 02	704	0.1+	0.1+	2000 03 11	704	0.1−	0.2−
1998 08 28	704	0.7+	0.9−	2000 02 06	704	0.2+	0.2+	2000 03 11	704	0.5−	0.1−
1998 08 31	704	0.9−	0.1−	2000 02 06	704	0.1+	0.4+	2000 03 11	704	0.2−	0.1−
1998 08 31	704	0.1+	0.9−	2000 02 06	704	0.4+	0.2+	2000 03 11	704	0.1+	0.6−
1998 08 31	704	0.4−	0.2−	2000 02 06	704	0.1+	0.9+	2000 03 15	704	0.2+	0.1−
1998 08 31	704	0.6−	0.4−	2000 02 07	704	0.3−	1.0−	2000 03 15	704	0.7−	0.2−
1998 08 31	704	0.3+	0.3−	2000 02 07	704	0.5+	0.1+	2000 03 15	704	0.2−	1.3+
1998 10 17	699	0.4+	0.3+	2000 02 07	704	0.6+	0.6−	2000 03 15	704	1.2−	0.6+
1998 10 17	699	0.3+	0.4+	2000 02 07	704	0.6+	0.6−	2000 03 15	704	0.1+	0.6+
1998 10 17	699	0.4+	0.5+	2000 02 07	704	1.1+	0.5+				
2000 02 02	704	0.1+	0.2+	2000 02 29	704	0.0	0.5−				

2000 CK₅₃ = 1974 SJ₁ = 1990 KY

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>	220.27680	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.17527329	<i>ω</i>	146.44730	+0.72577069	+0.68673703		
<i>a</i>	3.1622211	<i>Ω</i>	169.86743	−0.67096979	+0.71966580		
<i>e</i>	0.2052741	<i>i</i>	13.34617	−0.15184347	+0.10233959		
<i>P</i>	5.62	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

2000 MAR. 20

Residuals in seconds of arc

1974 09 19	095	0.1+	0.7−	2000 02 26	703	0.1−	0.1−	2000 03 04	704	0.1−	1.5−
1990 05 22	675	0.7+	0.3+	2000 02 29	704	0.2−	0.5+	2000 03 04	704	0.3+	0.4+
1990 05 22	675	1.2−	0.7−	2000 02 29	704	0.2−	0.5+	2000 03 04	704	0.7+	0.7+
1990 05 23	675	0.2−	1.0+	2000 02 29	704	0.1−	0.2+	2000 03 04	704	0.1+	0.0
1990 05 23	675	0.7+	0.8−	2000 02 29	704	0.5−	0.4+	2000 03 05	704	0.0	0.1+
2000 02 02	704	0.1−	0.0	2000 03 03	704	0.5+	0.1+	2000 03 05	704	0.2−	0.1+
2000 02 02	704	0.1−	0.1−	2000 03 03	704	0.1−	0.7−	2000 03 05	704	0.4+	0.4+
2000 02 02	704	0.1+	0.0	2000 03 03	704	1.7−	0.7+	2000 03 05	704	0.2+	0.6+
2000 02 02	704	0.8+	0.4+	2000 03 03	704	0.0	0.5+	2000 03 05	704	1.0+	0.1−
2000 02 06	704	0.7+	0.1+	2000 03 03	704	0.6+	0.3−	2000 03 11	704	0.7−	0.1+
2000 02 06	704	0.8+	0.3−	2000 03 03	704	(2.6+	0.8+)	2000 03 11	704	0.4−	0.1−
2000 02 06	704	0.8−	0.2+	2000 03 03	704	0.4+	0.1+	2000 03 11	704	0.5−	0.5−
2000 02 06	704	0.4−	0.6−	2000 03 03	691	(1.1−	2.7−)	2000 03 11	704	0.5−	0.9−
2000 02 26	703	0.1+	0.2+	2000 03 03	691	0.2+	0.6−	2000 03 11	704	0.7−	0.5−
2000 02 26	703	0.1−	0.1−	2000 03 03	691	0.3−	0.5−				
2000 02 26	703	0.2+	0.0	2000 03 04	704	0.5+	0.1−				

2000 CN₅₃ = 1990 GE₁ = 1998 XV₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>	305.11754	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.19550261	<i>ω</i>	316.66577	−0.76753612	+0.64088219		
<i>a</i>	2.9401378	<i>Ω</i>	263.19619	−0.58459813	−0.70791065		
<i>e</i>	0.0386493	<i>i</i>	0.72603	−0.26293216	−0.29687122		
<i>P</i>	5.04	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1990 04 04	809	0.9+	0.3+	2000 02 02	704	0.1−	0.3−	2000 03 04	704	0.4+	0.1+
1990 04 04	809	0.6+	0.5+	2000 02 02	704	0.3−	0.3−	2000 03 04	704	0.1−	0.3+
1990 04 04	809	0.5−	1.5+	2000 02 02	704	0.4+	0.5+	2000 03 04	704	0.0	0.2+
1997 12 05	910	0.1+	0.2+	2000 02 02	704	0.1−	0.5−	2000 03 04	704	0.2−	0.3−
1997 12 05	910	0.0	0.0	2000 02 02	704	0.7−	0.3+	2000 03 04	704	0.1−	0.3−
1997 12 05	910	0.1−	0.2+	2000 02 06	704	0.3−	0.1−	2000 03 05	704	0.1+	0.1−
1998 12 14	704	0.1−	0.1+	2000 02 06	704	0.3−	0.0	2000 03 05	704	0.3+	0.3−
1998 12 14	704	0.8+	1.4−	2000 02 06	704	0.6−	0.5−	2000 03 05	704	0.4+	0.1+
1998 12 14	704	1.2+	0.9+	2000 02 06	704	0.4−	1.2+	2000 03 05	704	0.2+	0.4−
1998 12 14	704	0.3−	0.3+	2000 02 26	703	1.4+	0.5−	2000 03 05	704	0.1+	1.2−
1998 12 17	704	0.9+	0.3+	2000 02 26	703	0.2−	0.1−	2000 03 11	704	0.1+	0.2−
1998 12 17	704	0.2−	1.0−	2000 02 26	703	0.6+	0.1−	2000 03 11	704	0.1−	0.2−
1998 12 17	704	0.2−	1.3+	2000 02 26	703	0.3−	0.1+	2000 03 11	704	0.2+	0.4−
1998 12 17	704	0.9−	0.5−	2000 02 29	704	0.1+	0.1+	2000 03 11	704	0.1−	0.6−
1998 12 18	104	0.1−	0.3−	2000 02 29	704	0.2−	0.4+	2000 03 11	704	0.4−	0.3−
1998 12 18	104	1.8−	0.5+	2000 02 29	704	0.5+	0.1−	2000 03 11	699	0.9−	0.5+
1998 12 18	104	0.2+	0.9+	2000 03 03	704	0.1+	0.1+	2000 03 11	699	0.3−	0.0
1999 12 05	704	0.9+	1.9−	2000 03 03	704	0.2+	0.3+	2000 03 11	699	0.9−	0.5+
1999 12 05	704	0.7−	0.3−	2000 03 03	704	0.4+	0.3+	2000 03 11	699	0.7−	0.4+
1999 12 05	704	0.3+	0.1−	2000 03 03	704	0.4+	0.6+				
1999 12 05	704	0.5−	0.9−	2000 03 03	704	0.4+	0.7+				

2000 CQ₅₃ = 1998 VA₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	274.41144		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.29007675	ω	318.91983	-0.09536642	$+0.99457283$
a	2.2600989	Ω	305.56751	-0.89941394	-0.10399726
e	0.1280949	i	2.93111	-0.42656747	-0.00307633
P	3.40	H	14.2	G 0.15	U 4

2000 MAR. 20

M.P.C. 39399

2000 01 08	704	0.3−	0.5+	2000 02 16	703	0.7+	0.0	2000 03 05	704	0.9−	1.1+
2000 01 08	704	0.1+	0.4−	2000 02 16	703	0.2+	0.4−	2000 03 05	704	0.2−	0.1+
2000 01 08	704	0.0	0.4+	2000 02 16	703	0.1+	0.4−	2000 03 05	704	0.2−	0.4+
2000 01 08	704	0.2+	0.1+	2000 02 16	703	0.4+	0.1−	2000 03 08	704	0.2−	0.2+
2000 02 02	704	0.0	0.1−	2000 02 27	703	0.3−	0.2+	2000 03 08	704	1.1+	0.7+
2000 02 02	704	0.2−	0.2−	2000 02 27	703	0.3−	0.0	2000 03 08	704	1.0+	0.5+
2000 02 02	704	0.2+	0.5−	2000 02 27	703	0.4−	0.0	2000 03 08	704	0.4+	0.4+
2000 02 02	704	0.5+	1.4−	2000 02 27	703	0.6−	0.2−	2000 03 08	704	0.8+	0.1−
2000 02 02	704	1.2−	0.5−	2000 02 29	704	0.3+	0.4−	2000 03 11	704	0.2−	0.1+
2000 02 06	704	0.2+	0.2−	2000 02 29	704	0.2−	0.6−	2000 03 11	704	0.0	0.1+
2000 02 06	704	0.1−	0.4−	2000 02 29	704	0.1−	0.6−	2000 03 11	704	0.1+	0.4+
2000 02 06	704	0.2+	0.6+	2000 02 29	704	0.3−	0.8−	2000 03 11	704	0.1−	0.5+
2000 02 06	704	0.3−	0.3+	2000 03 03	704	0.3−	0.1−	2000 03 11	704	0.1+	1.0+
2000 02 07	704	0.3+	0.4−	2000 03 03	704	0.0	0.1−				
2000 02 07	704	0.4+	0.0	2000 03 03	704	0.1+	0.2−				

2000 CJ₅₄ = 1998 QP₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	31.55330		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.24368272	ω	295.29369	-0.35270870	-0.93572761
a	2.5385530	Ω	175.35582	$+0.87221873$	-0.33001527
e	0.1811957	i	2.28476	$+0.33886732$	-0.12451412
P	4.04	H	15.4	G	0.15
				U	4

Residuals in seconds of arc

1996 02 15	566(72.4− 24.2+)	2000 02 06	704	0.3+	0.0	2000 03 04	704	0.4−	1.4+
1996 02 15	566(73.0− 24.0+)	2000 02 06	704	0.4+	1.0−	2000 03 04	704	0.4+	0.0
1996 02 15	566(71.7− 23.9+)	2000 02 06	704	0.2−	0.7−	2000 03 04	704	0.1−	0.9+
1998 08 30	691 0.5− 0.9+	2000 02 06	704	0.1+	0.1+	2000 03 04	704	0.6+	0.2+
1998 08 30	691 0.3− 0.4+	2000 02 29	704	0.1+	0.2+	2000 03 05	704	0.2−	0.1+
1998 08 30	691 0.4− 0.0	2000 02 29	704	0.0	0.9+	2000 03 05	704	0.1+	0.4+
1998 08 31	691 0.0 0.8+	2000 02 29	704	0.4+	0.5+	2000 03 05	704	0.6−	1.1+
1998 08 31	691 0.0 0.7+	2000 02 29	704	0.3+	0.5+	2000 03 05	704	0.7−	0.3+
1998 08 31	691 0.1− 0.6+	2000 02 29	704	0.9+	0.9+	2000 03 05	704	0.2+	0.3+
1999 12 05	704 0.7− 1.8−	2000 03 03	704	0.1+	0.1+	2000 03 11	704	0.0	0.6−
1999 12 05	704 0.8+	2000 03 03	704	1.0+	0.5−	2000 03 11	704	0.2−	0.1−
1999 12 05	704 1.2− 0.9−	2000 03 03	704	0.0	0.3−	2000 03 11	704	0.1−	0.7−
2000 02 02	704 0.1+	2000 03 03	704	0.4−	0.4−	2000 03 11	704	0.3+	0.3−
2000 02 02	704 0.5− 1.2+	2000 03 03	704	0.3−	0.7−	2000 03 11	704	0.1+	0.6−
2000 02 02	704 0.3+	2000 03 04	704	0.4−	0.2−				

2000 CL₅₄ = 1987 QY₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	187.74435		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.27827271	ω	13.67404	+0.87950443	+0.47044383
a	2.3235694	Ω	318.01878	−0.44609326	+0.76245376
e	0.1328058	i	6.16174	−0.16574910	+0.44423741
P	3.54	H	14.3	G 0.15	U 5

Residuals in seconds of arc

1987 08 26	809 0.6− 0.8+	2000 02 02	704	0.7−	0.3−	2000 02 29	704	0.2−	0.4+
1987 08 26	809 0.0 0.2−	2000 02 02	704	0.3+	0.0	2000 02 29	704	0.1−	0.5−
1987 08 26	809 0.5+	2000 02 02	704	0.1−	1.0+	2000 03 03	704	0.1+	0.4+
1987 08 28	809 0.6− 0.4−	2000 02 06	704	0.3+	0.3+	2000 03 03	704	0.3−	0.6+
1987 08 28	809 0.4+	2000 02 06	704	0.2−	0.0	2000 03 03	704	0.1−	0.1+
1987 08 28	809 0.2+	2000 02 06	704	0.1+	0.1+	2000 03 03	704	0.3+	0.8+
1987 08 31	809 0.2− 0.0	2000 02 06	704	1.4−	0.1+	2000 03 03	704	0.2+	0.9+
1987 08 31	809 0.2+	2000 02 29	704	0.1+	0.1−	2000 03 11	704	0.1+	0.6−
1987 08 31	809 0.3− 0.1−	2000 02 29	704	0.4+	0.1+	2000 03 11	704	0.5+	0.8−
2000 02 02	704 1.0+	2000 02 29	704	0.0	0.4−	2000 03 11	704	0.4+	1.9−

2000 CP₅₄ = 1998 SA₉₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	50.82676		(2000.0)	P	Q
n	0.22321383	ω	257.99923	-0.02740402	-0.99960242
a	2.6914645	Ω	193.57636	$+0.92778398$	-0.02296324
e	0.1724862	i	1.61966	$+0.37211008$	-0.01636128
P	4.42	H	14.7	G	U
				0.15	4

Residuals in seconds of arc

1998 09 26	704	0.2+	1.2+	2000 02 06	704	0.3−	0.2−	2000 03 03	704	0.5+	0.3−
1998 09 26	704	0.8+	1.8−	2000 02 06	704	0.5+	0.0	2000 03 03	704	0.0	0.1−
1998 09 26	704	1.1+	0.3−	2000 02 06	704	0.2−	1.0−	2000 03 03	704	0.1−	0.3−
1998 09 26	704	0.6+	0.9−	2000 02 06	704	0.4−	0.2+	2000 03 03	704	0.3−	0.6−
1998 09 26	704	0.8+	1.7−	2000 02 25	704	0.5−	0.2+	2000 03 04	704	0.1−	0.2+
1998 09 27	704	0.7−	0.7+	2000 02 25	704	0.1−	1.0+	2000 03 04	704	0.4−	0.6+
1998 09 27	704	0.7−	1.6+	2000 02 25	704	0.2+	0.6+	2000 03 04	704	0.8−	0.9−
1998 09 27	704	0.9−	0.1−	2000 02 25	704	0.3+	0.3−	2000 03 04	704	0.2−	0.3−
1998 09 27	704	1.2−	1.4+	2000 02 25	704	0.7+	0.0	2000 03 04	704	0.3+	0.1+
1998 09 27	704	(3.1− 0.5−)		2000 02 29	704	0.4+	0.6+	2000 03 11	704	0.1−	0.6−
2000 02 02	704	0.4+	0.0	2000 02 29	704	0.0	0.1+	2000 03 11	704	0.4−	0.2−
2000 02 02	704	0.5+	0.2+	2000 02 29	704	0.2+	1.2+	2000 03 11	704	0.1+	0.1−
2000 02 02	704	0.6−	0.3−	2000 02 29	704	0.5+	1.4+	2000 03 11	704	0.2+	0.6−
2000 02 02	704	0.4−	0.8−	2000 03 03	704	0.4+	0.1−				

2000 CS₅₅ = 1998 VN₂₂ = 2000 BL₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	220.54809		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.22529283	ω	326.28941	+0.30709028	+0.95127315		
a	2.6748810	Ω	321.57372	−0.86296338	+0.26601108		
e	0.0452004	i	2.56721	−0.40123529	+0.15594071		
P	4.37	H	14.4	G	0.15	U	3

Residuals in seconds of arc

1996 03 21	566	0.4+	0.1+	2000 02 06	704	0.1−	1.7+	2000 03 04	704	0.2+	0.2+
1996 03 21	566	0.4−	0.2−	2000 02 11	704	0.4−	0.3−	2000 03 04	704	0.6+	0.2+
1996 03 21	566	0.0	0.0	2000 02 11	704	0.8+	0.8+	2000 03 04	704	0.2+	0.4+
1998 11 10	704	0.7+	0.9+	2000 02 11	704	0.2+	0.2+	2000 03 04	704	0.5+	0.2+
1998 11 10	704	0.9−	1.4−	2000 02 11	704	0.2−	0.1+	2000 03 04	704	0.9+	0.4+
1998 11 10	704	0.5−	0.3−	2000 02 27	703	0.2−	0.3+	2000 03 05	704	0.5−	0.4+
1998 11 11	704	0.6+	0.3−	2000 02 27	703	0.4+	0.2−	2000 03 05	704	0.1+	0.0
1998 11 11	704	0.2+	0.9+	2000 02 27	703	0.4−	0.5−	2000 03 05	704	0.1−	0.4+
1998 11 11	704	(0.2+ 2.4−)		2000 02 27	703	0.2−	0.2+	2000 03 05	704	0.1+	0.1+
2000 01 27	691	0.4−	0.8−	2000 02 29	704	0.6+	0.3−	2000 03 06	704	1.1+	0.2−
2000 01 27	691	0.6−	0.7−	2000 02 29	704	0.0	0.1−	2000 03 06	704	1.0+	1.0+
2000 01 27	691	0.4−	0.6−	2000 02 29	704	0.7−	0.5−	2000 03 06	704	0.9+	0.1+
2000 01 30	703	0.3+	1.0−	2000 02 29	704	0.1+	0.1+	2000 03 06	704	0.2−	0.5−
2000 01 30	703	0.7+	0.5−	2000 02 29	704	0.4−	0.4+	2000 03 06	704	0.1−	1.3+
2000 01 30	703	0.0	0.4+	2000 03 03	704	0.0	0.1+	2000 03 09	691	0.1−	0.4−
2000 01 30	703	0.2+	0.0	2000 03 03	704	0.2+	0.7−	2000 03 09	691	0.0	0.5−
2000 02 04	704	0.5−	0.2−	2000 03 03	691	0.1−	0.3−	2000 03 09	691	0.0	0.4−
2000 02 04	704	0.6−	0.8+	2000 03 03	704	0.7−	0.6−	2000 03 14	691	0.5−	0.2−
2000 02 04	704	0.3+	1.0+	2000 03 03	704	0.2−	0.5−	2000 03 14	691	1.0−	0.2−
2000 02 06	704	0.4−	0.3+	2000 03 03	691	0.3−	0.4−	2000 03 14	691	0.8−	1.6−
2000 02 06	704	0.5+	0.4+	2000 03 03	704	0.2+	0.1−				
2000 02 06	704	0.0	0.9+	2000 03 03	691	0.3−	0.4−				

2000 CB₅₆ = 1995 YE₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	107.86184		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.26301371	ω	191.54798	+0.92762850	−0.37349748
a	2.4125915	Ω	190.38434	+0.34366433	+0.85584986
e	0.1918902	i	0.71129	+0.14628807	+0.35779973
P	3.75	H	15.0	G 0.15	U 3

Residuals in seconds of arc

1995 12 19	566	0.3+	0.2-	2000 02 06	704	0.4+	0.2-	2000 03 03	704	0.5+	0.1+
1995 12 19	566	0.0	0.3-	2000 02 06	704	0.5+	0.4-	2000 03 04	704	1.1-	0.2+
1995 12 19	566	0.7-	0.2+	2000 02 06	704	0.3+	0.6-	2000 03 04	704	0.3+	0.6+
1995 12 24	566	0.0	0.2-	2000 02 08	691	0.4-	0.3-	2000 03 04	704	0.5-	0.5+
1995 12 24	566	0.1+	0.3+	2000 02 08	691	0.5-	0.2-	2000 03 04	704	0.6+	1.5+
1995 12 24	566	0.4-	0.2+	2000 02 08	691	0.7-	0.3-	2000 03 05	704	0.0	1.1+
1995 12 24	566	1.0+	0.1-	2000 02 11	704	1.0+	0.1-	2000 03 05	704	0.2+	0.7+
1995 12 24	566	0.1-	0.3+	2000 02 11	704	0.6-	1.1-	2000 03 05	704	0.5+	0.6+
1995 12 24	566	0.1-	0.2+	2000 02 11	704	0.4-	1.2-	2000 03 05	704	1.6+	1.2+
1998 08 17	704	0.4-	0.3+	2000 02 11	704	0.1+	0.4+	2000 03 08	704	0.2+	0.3-
1998 08 17	704	1.1-	1.9+	2000 02 27	703	0.1-	1.6-	2000 03 08	704	0.6+	0.1-
1998 08 17	704	0.4-	0.3+	2000 02 27	703	0.1-	0.9+	2000 03 08	704	0.3-	0.5+
1998 08 17	704	0.3+	0.8+	2000 02 27	703	0.1+	0.4-	2000 03 08	704	0.2+	0.7-
1998 08 17	704	0.7-	1.2+	2000 02 27	703	0.5-	1.1-	2000 03 08	704	0.2-	0.4+
1998 09 21	699	0.5+	0.5+	2000 02 29	704	0.0	0.3+	2000 03 09	704	0.5+	1.1+
1998 09 21	699	0.0	0.5+	2000 02 29	704	0.0	0.4+	2000 03 09	704	0.1+	0.6+
1998 09 21	699	0.3+	0.5+	2000 02 29	704	0.2-	0.2+	2000 03 09	704	0.3-	0.4+
1998 11 11	910	0.3-	0.6+	2000 02 29	704	0.0	0.4+	2000 03 09	691	0.4-	0.2-
1998 11 11	910	0.3-	0.0	2000 02 29	704	1.8+	1.9+	2000 03 09	704	0.2+	1.1+
1998 11 11	910	0.2-	0.2+	2000 03 02	691	0.3-	0.6-	2000 03 09	704	0.4-	0.6+
2000 02 04	704	0.8-	0.5+	2000 03 02	691	0.2-	1.0-	2000 03 09	691	0.4-	0.3-
2000 02 04	704	0.8+	0.7+	2000 03 02	691	(2.7+	2.8-)	2000 03 09	691	0.5-	0.3-
2000 02 04	704	0.4+	0.2+	2000 03 03	704	0.7+	0.0	2000 03 11	704	0.2+	0.2+
2000 02 04	704	0.0	0.5+	2000 03 03	704	0.2+	0.0	2000 03 11	704	0.5-	0.4+
2000 02 06	704	0.9-	1.3-	2000 03 03	704	0.1+	0.6+	2000 03 11	704	0.6+	0.4+
2000 02 06	704	0.3+	0.4+	2000 03 03	704	0.1+	0.4+	2000 03 11	704	0.6-	0.5+

2000 CK₅₆ = 1997 GG₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.27539609	ω	245.52487	+0.98826186	-0.10499108		
<i>a</i>	2.3397217	Ω	120.33081	+0.13665215	+0.93229012		
<i>e</i>	0.1315289	<i>i</i>	7.38715	-0.06829855	+0.34613871		
<i>P</i>	3.58	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 04 07	809	1.6-	0.6-	2000 02 08	704	0.7-	0.0	2000 03 05	704	0.7+	0.4+
1997 04 07	809	1.1-	0.1-	2000 02 11	704	(1.3-	2.7+)	2000 03 05	704	0.0	0.2+
1997 04 07	809	0.3-	0.5-	2000 02 11	704	0.3-	0.2-	2000 03 05	704	0.2-	0.1+
1997 04 08	809	1.4+	0.2-	2000 02 11	704	0.2-	0.3-	2000 03 06	704	0.6-	0.3-
1997 04 08	809	0.4+	1.0+	2000 02 11	704	0.1+	0.5+	2000 03 06	704	0.3+	0.2-
1997 04 08	809	1.2+	0.6+	2000 02 11	704	0.5+	0.2-	2000 03 06	704	1.0-	0.3+
1998 09 27	699	0.2-	0.7+	2000 02 11	704	0.5-	0.5-	2000 03 06	704	0.4+	0.0
1998 09 27	699	0.2-	0.3-	2000 02 11	704	0.2+	0.0	2000 03 08	704	0.3-	0.0
1998 09 27	699	0.2+	0.2+	2000 02 11	704	0.1-	0.3+	2000 03 08	704	0.6+	0.1-
1999 12 05	704	0.6+	0.1-	2000 02 11	704	0.3+	1.0-	2000 03 08	704	0.3-	0.2+
1999 12 05	704	0.4+	0.3+	2000 02 11	704	1.1+	0.7+	2000 03 08	704	0.2-	0.1+
1999 12 05	704	0.1-	0.0	2000 02 25	703	0.9-	0.3+	2000 03 08	704	0.3-	0.0
2000 02 01	703	0.2-	0.2-	2000 02 25	703	0.2-	1.0+	2000 03 08	704	0.4-	0.1-
2000 02 01	703	0.4+	0.7-	2000 02 25	703	0.4-	0.4-	2000 03 08	704	0.1-	0.2-
2000 02 01	703	0.4-	0.4-	2000 02 25	703	0.5-	0.1+	2000 03 08	704	1.0-	0.2+
2000 02 01	703	0.6-	0.2+	2000 02 29	704	0.2+	0.1+	2000 03 08	704	0.8-	0.2+
2000 02 04	704	0.0	0.8-	2000 02 29	704	0.3+	0.4+	2000 03 08	704	0.9+	0.8+
2000 02 04	704	0.3+	0.5+	2000 02 29	704	0.7+	0.2-	2000 03 09	704	0.4+	0.2+
2000 02 04	704	0.0	1.2-	2000 02 29	704	0.0	0.0	2000 03 09	704	0.4+	0.1-
2000 02 04	704	0.7-	0.1+	2000 03 04	704	0.3+	0.2+	2000 03 09	704	0.7+	0.3-
2000 02 04	704	1.4-	0.5-	2000 03 04	704	0.5+	0.3-	2000 03 09	704	0.0	1.1-
2000 02 06	704	0.0	0.6+	2000 03 04	704	0.2+	0.2-	2000 03 09	704	0.7+	0.6-
2000 02 06	704	1.0+	0.2+	2000 03 04	704	0.5+	0.1+	2000 03 11	699	0.1+	0.2-
2000 02 06	704	0.0	0.6+	2000 03 04	704	0.5+	1.4-	2000 03 11	699	(2.1-	0.2-)
2000 02 06	704	0.1-	0.2+	2000 03 05	704	0.9-	0.3+	2000 03 11	699	0.4+	0.6+
2000 02 06	704	0.6-	0.0	2000 03 05	704	0.8+	0.1+	2000 03 11	699	0.3-	0.4+
2000 02 08	704	0.0	0.2-	2000 03 05	704	0.4+	0.2-	2000 03 12	704	0.3+	0.3-
2000 02 08	704	0.4-	0.2-	2000 03 05	704	0.0	0.2+	2000 03 12	704	0.0	0.1+
2000 02 08	704	0.6-	0.3+	2000 03 05	704	0.3+	0.1+	2000 03 12	704	0.4-	0.0
2000 02 08	704	0.2-	0.6+	2000 03 05	704	0.8+	0.3+	2000 03 12	704	0.1+	0.6+

2000 CO₅₆ = 1998 XD₆₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.21274647	ω	198.69741	+0.67783993	+0.72588006		
<i>a</i>	2.7790379	Ω	114.16535	-0.65717299	+0.66940302		
<i>e</i>	0.1807544	<i>i</i>	7.35211	-0.32963116	+0.15810673		
<i>P</i>	4.63	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.1+	1.6-	2000 02 01	703	0.4-	0.0	2000 02 29	704	0.1+	0.1-
1998 12 15	704	1.0-	1.7+	2000 02 01	703	0.2-	0.3+	2000 02 29	704	0.5+	0.0
1998 12 15	704	0.6-	0.4+	2000 02 01	703	0.4-	0.2-	2000 02 29	704	0.4+	0.1+
1998 12 15	704	(0.5-	2.1-)	2000 02 04	704	0.6-	1.0+	2000 02 29	704	0.3+	0.1-
1998 12 16	704	0.2+	0.2-	2000 02 04	704	0.1-	0.6+	2000 02 29	704	1.3+	0.6-
1998 12 16	704	0.5-	0.5-	2000 02 04	704	1.1+	0.6+	2000 03 05	704	0.7-	0.7-
1998 12 16	704	(3.4+	0.7-)	2000 02 04	704	0.3-	1.0+	2000 03 05	704	0.4+	0.2+
1998 12 16	704	0.5+	1.8+	2000 02 04	704	0.6-	0.1+	2000 03 05	704	0.4-	0.0
1998 12 16	704	0.6+	0.2-	2000 02 06	704	1.1+	0.7+	2000 03 05	704	0.8-	0.2-
1998 12 22	704	1.6+	0.0	2000 02 06	704	0.0	0.0	2000 03 05	704	0.1+	0.3-
1998 12 22	704	0.1+	0.5-	2000 02 06	704	0.4-	1.4-	2000 03 12	704	0.1+	0.5-
1998 12 22	704	1.9-	1.0+	2000 02 11	704	0.1+	0.7+	2000 03 12	704	0.5-	0.1-
1998 12 22	704	0.7+	0.5-	2000 02 11	704	1.4+	0.6+	2000 03 12	704	0.1+	0.0
1998 12 22	704	0.3+	1.7-	2000 02 11	704	0.3+	0.1-	2000 03 12	704	0.6-	0.1+
2000 02 01	703	0.4-	1.4-	2000 02 11	704	0.0	0.4-	2000 03 12	704	0.9-	0.4+

2000 CT₅₆ = 1998 XB₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.17703701	ω	253.44861	+0.90993675	-0.41158814		
<i>a</i>	3.1411837	Ω	130.82510	+0.40160562	+0.84363026		
<i>e</i>	0.0244861	<i>i</i>	3.87143	+0.10357627	+0.34479443		
<i>P</i>	5.57	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 24	704	0.3+	0.4-	2000 02 06	704	0.9+	0.5+	2000 03 05	704	0.8+	0.4-
1998 11 24	704	0.1-	0.3+	2000 02 06	704	1.1-	0.9-	2000 03 06	704	0.1-	0.5+
1998 11 24	704	0.4+	0.2-	2000 02 06	704	0.1-	0.4-	2000 03 06	704	0.2+	0.5-
1998 11 24	704	0.9-	0.1-	2000 02 06	704	0.4+	1.5-	2000 03 06	704	0.3-	0.5-
1998 12 08	910	0.1-	0.4-	2000 02 06	704	0.1-	0.0	2000 03 06	704	0.3+	0.6+
1998 12 08	910	0.2-	0.2+	2000 02 29	704	0.4-	0.2-	2000 03 06	704	0.4+	0.6-
1998 12 09	910	0.6-	0.2+	2000 02 29	704	0.1+	0.4+	2000 03 11	704	1.0-	0.2-
1998 12 17	910	0.4+	0.0	2000 02 29	704	0.8+	0.0	2000 03 11	704	0.1+	0.2+
1998 12 17	910	0.6+	0.1+	2000 02 29	704	0.1-	0.2-	2000 03 11	704	0.2-	0.2-
1998 12 17	910	0.3+	0.3+	2000 02 29	704	0.7+	0.2-	2000 03 11	704	0.9-	0.7+
2000 02 04	704	0.3+	0.2+	2000 03 05	704	0.6-	0.0	2000 03 11	704	0.7-	0.1+
2000 02 04	704	0.2+	1.1+	2000 03 05	704	0.7+	0.2-				
2000 02 04	704	0.7-	0.6+	2000 03 05	704	0.5+	0.7+				

2000 MAR. 20

M.P.C. 39401

1997 11 02	327	0.3+	0.1−	2000 02 08	691	0.2−	0.8−	2000 03 05	704	0.0	0.6−
1997 11 02	327	0.1+	0.1−	2000 02 27	703	0.2−	1.3+	2000 03 05	704	0.3+	0.4−
2000 01 04	704	0.6−	0.7−	2000 02 27	703	0.4−	0.4+	2000 03 11	704	0.0	0.7−
2000 01 04	704	0.4−	0.1+	2000 02 27	703	0.2−	0.1−	2000 03 11	704	0.0	0.9−
2000 01 04	704	0.1+	0.7+	2000 02 27	703	0.4+	1.3+	2000 03 11	704	0.1−	0.6+
2000 02 04	704	0.1+	1.3−	2000 02 29	704	0.9−	0.3+	2000 03 11	704	0.2+	0.0
2000 02 04	704	0.4−	0.6−	2000 02 29	704	0.0	0.3+	2000 03 11	704	0.0	0.6+
2000 02 04	704	0.5+	0.9−	2000 02 29	704	0.0	0.0				

2000 CV₅₆ = 1996 LF₃ = 1998 XL₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	132.26474		(2000.0)	P	Q
<i>n</i>	0.18457021	ω	248.11883	+0.95087314	−0.26971101
<i>a</i>	3.0551203	Ω	127.20401	+0.30342398	+0.90935509
<i>e</i>	0.1199099	<i>i</i>	10.99982	−0.06143427	+0.31674800
<i>P</i>	5.34	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1996 06 09	691	0.4+	0.0	2000 02 04	704	0.1+	0.3−	2000 03 05	704	0.1−	0.7+
1996 06 09	691	0.4+	0.0	2000 02 04	704	1.1−	0.9−	2000 03 05	704	0.4−	0.2−
1996 06 09	691	0.5+	0.2−	2000 02 04	704	0.3−	0.4+	2000 03 05	704	1.2+	0.3+
1996 06 17	691	0.3−	0.1+	2000 02 04	704	0.1+	0.2+	2000 03 09	704	0.0	0.2+
1996 06 17	691	0.6−	0.2+	2000 02 06	704	0.1+	0.3−	2000 03 09	704	0.4+	0.5+
1996 06 17	691	0.5−	0.1−	2000 02 06	704	0.2+	0.4+	2000 03 09	704	0.1−	1.9−
1998 12 15	704	0.1−	0.4+	2000 02 06	704	0.3−	0.1+	2000 03 09	704	0.0	0.7−
1998 12 15	704	0.1−	1.2−	2000 02 29	704	0.1−	1.1+	2000 03 09	704	0.9+	1.1−
1998 12 15	704	0.9+	1.6+	2000 02 29	704	0.3−	0.0	2000 03 12	704	0.3−	0.8+
1998 12 15	704	0.1−	0.2+	2000 02 29	704	0.2+	0.4−	2000 03 12	704	1.2−	0.1+
1998 12 22	704	0.3+	0.8−	2000 02 29	704	0.4−	0.1−	2000 03 12	704	0.1−	0.6+
1998 12 22	704	0.6−	0.2−	2000 02 29	704	0.2+	0.5−	2000 03 12	704	0.9+	0.7−
1998 12 22	704	0.5+	0.2+	2000 03 05	704	0.8+	0.9+				
1998 12 22	704	0.7−	0.3−	2000 03 05	704	0.5−	0.9+				

2000 CW₅₆ = 1986 RF₄ = 1991 RZ₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	183.77814		(2000.0)	P	Q
<i>n</i>	0.17682850	ω	220.46227	+0.94601747	+0.27735287
<i>a</i>	3.1436525	Ω	122.66828	−0.22126125	+0.93074194
<i>e</i>	0.2281557	<i>i</i>	11.49161	−0.23684258	+0.23831666
<i>P</i>	5.57	<i>H</i>	12.4	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1986 09 10	033	0.0	0.3−	2000 02 06	704	0.8+	0.2+	2000 03 05	704	0.2+	0.8−
1986 09 10	033	0.1+	0.1+	2000 02 06	704	0.2+	0.8+	2000 03 09	704	0.4−	0.2−
1991 09 14	675	0.2−	0.5+	2000 02 06	704	0.5−	0.7+	2000 03 09	704	0.1+	0.4−
1991 09 14	675	0.1−	0.5+	2000 03 05	704	0.1+	0.2−	2000 03 09	704	0.1+	0.5+
1991 09 15	675	1.1+	0.1+	2000 03 05	704	0.1−	0.4−	2000 03 09	704	0.0	0.4−
1991 09 15	675	0.5−	0.0	2000 03 05	704	0.2−	0.4+	2000 03 09	704	0.4−	0.2+
1991 09 16	675	0.5−	0.5−	2000 03 05	704	0.4−	0.0	2000 03 12	704	0.5−	0.1+
1991 09 16	675	0.2+	0.2−	2000 03 05	704	0.3−	0.0	2000 03 12	704	0.5−	0.3−
2000 02 04	704	1.0+	0.8−	2000 03 05	704	0.5+	0.4−	2000 03 12	704	0.6−	0.6−
2000 02 04	704	0.7+	0.0	2000 03 05	704	0.0	0.1+	2000 03 12	704	0.4−	0.2−
2000 02 04	704	0.4+	1.1+	2000 03 05	704	0.2+	0.6−	2000 03 12	704	0.2+	0.6+
2000 02 06	704	0.2+	1.2+	2000 03 05	704	0.0	0.3−				

2000 CW₅₇ = 1988 SY₃ = 1998 XH₈₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	181.31112		(2000.0)	P	Q
<i>n</i>	0.21260833	ω	181.53874	+0.94913690	+0.30976896
<i>a</i>	2.7802415	Ω	160.13172	−0.28707986	+0.92496882
<i>e</i>	0.1606637	<i>i</i>	9.55458	−0.12932247	+0.22017236
<i>P</i>	4.64	<i>H</i>	12.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1988 09 10	675	0.0	0.0	1998 12 22	704	0.5−	0.4+	2000 03 03	704	0.0	0.1−
1988 09 10	675	0.1+	0.8−	1998 12 22	704	0.8−	0.9+	2000 03 03	704	0.2−	0.2−
1988 09 16	095	0.3+	0.7−	2000 02 05	704	0.3+	0.7−	2000 03 03	704	0.0	0.2+
1988 09 16	095	(1.1+	4.3+)	2000 02 05	704	0.0	0.1+	2000 03 03	704	0.1+	0.4+
1998 11 23	704	2.0+	0.1+	2000 02 05	704	0.0	0.4−	2000 03 03	704	0.0	0.4+
1998 11 23	704	1.3+	0.1+	2000 02 06	704	0.0	0.8−	2000 03 06	704	0.8+	0.1+
1998 11 23	704	0.4−	1.1−	2000 02 06	704	0.3−	0.5−	2000 03 06	704	0.0	1.2+
1998 11 23	704	0.3+	0.1−	2000 02 06	704	0.5+	0.1−	2000 03 06	704	0.5+	0.6+
1998 11 23	704	0.0	0.2+	2000 02 06	704	1.3+	0.0	2000 03 11	704	1.1−	0.2−
1998 12 15	704	0.5−	0.0	2000 02 06	704	0.1+	0.2+	2000 03 11	704	0.9−	0.1−
1998 12 15	704	0.0	0.0	2000 02 26	703	0.7+	0.2−	2000 03 11	704	0.8−	0.6−
1998 12 15	704	0.4−	0.1+	2000 02 26	703	0.2−	1.0−	2000 03 11	704	0.8−	0.7−
1998 12 15	704	0.5−	0.1−	2000 02 26	703	0.6−	0.5−	2000 03 11	699	0.3−	0.3+
1998 12 15	704	0.4+	0.1−	2000 02 26	703	0.4+	0.1−	2000 03 11	699	0.1−	0.1+
1998 12 22	704	0.4−	0.3+	2000 02 29	704	0.1+	0.1+	2000 03 11	699	0.2+	0.3+
1998 12 22	704	0.4−	0.1−	2000 02 29	704	0.1−	0.3−	2000 03 11	699	0.2−	0.2+
1998 12 22	704	0.1+	0.3−	2000 02 29	704	0.1+	0.3+				

2000 CY₅₇ = 1998 QD₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	75.03936		(2000.0)	P	Q
<i>n</i>	0.17418066	ω	75.69098	+0.52275707	−0.85112184
<i>a</i>	3.1754316	Ω	342.53827	+0.70720242	+0.46450428
<i>e</i>	0.2599158	<i>i</i>	9.23023	+0.47601448	+0.24459637
<i>P</i>	5.66	<i>H</i>	12.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 08 28	704	0.1+	0.2−	1999 01 08	704	1.3+	0.3+	2000 02 26	703	0.1−	0.1−
1998 08 28	704	0.0	0.3−	1999 01 08	699	0.1−	0.2−	2000 02 26	703	0.6−	0.4−
1998 08 28	704	0.3−	1.4+	1999 01 08	699	0.8−	0.1−	2000 02 27	691	0.5−	0.4−
1998 08 31	704	0.3−	0.7−	2000 02 05	704	0.5+	1.4+	2000 02 27	691	0.6−	0.5−
1998 08 31	704	0.9+	1.1−	2000 02 05	704	0.3+	0.4+	2000 02 27	691	0.6−	0.4−
1998 08 31	704	0.7+	0.3−	2000 02 05	704	0.4−	0.8+	2000 02 29	704	0.3−	0.1+
1998 08 31	704	0.0	0.6−	2000 02 06	704	0.9+	0.0	2000 02 29	704	0.0	0.1+
1998 08 31	704	0.7+	0.1+	2000 02 06	704	0.4+	0.1−	2000 02 29	704	0.1+	0.5+
1998 10 03	699	1.0−	0.4+	2000 02 06	704	0.4−	0.9−	2000 02 29	704	0.4−	0.5+
1998 10 03	699	0.6−	0.2−	2000 02 08	691	0.3−	0.2−	2000 03 11	704	0.1+	0.1−
1998 10 03	699	0.6−	0.4+	2000 02 08	691	0.4−	0.2−	2000 03 11	704	0.2+	0.3−
1998 11 01	699	0.2+	0.1+	2000 02 08	691	0.2−	0.2−	2000 03 11	704	0.4+	0.1−
1998 11 01	699	0.4+	0.5+	2000 02 11	704	0.2+	0.5+	2000 03 11	704	0.3+	0.2−
1998 11 01	699	0.0	0.4+	2000 02 11	704	0.2−	0.1−	2000 03 11	704	0.1+	0.4−
1999 01 08	704	1.9−	0.7−	2000 02 11	704	0.1−	0.7+	2000 03 11	699	0.1+	0.0
1999 01 08	704	0.7+	0.2−	2000 02 11	704	0.0	0.5+	2000 03 11	699	0.1−	0.2−
1999 01 08	704	0.6+	0.2+	2000 02 11	704	1.5+	0.1+	2000 03 11	699	0.2+	0.3−
1999 01 08	704	0.5+	0.4+	2000 02 26	703	0.3−	0.3−	2000 03 11	699	0.1+	0.5−
1999 01 08	699	0.0	0.1−	2000 02 26	703	0.3−	0.1−				

2000 CA₅₈ = 1998 XL₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	255.68903		(2000.0)	P	Q
<i>n</i>	0.19209760	ω	298.65303	+0.13209105	+0.98943915
<i>a</i>	2.9747794	Ω	338.68722	−0.84246142	+0.08033455
<i>e</i>	0.0716445	<i>i</i>	9.45134	−0.52231285	+0.12065047
<i>P</i>	5.13	<i>H</i>	13.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 12 14	704	(2.7+	2.3+)	2000 02 06	704	0.5−	0.2+	2000 03 03	704	0.5+	0.3+
1998 12 14	704	1.1+	0.4−	2000 02 06	704	0.3−	1.0−	2000 03 10	608	0.6+	1.0−
1998 12 14	704	1.9+	1.3+	2000 02 06	704	0.2−	0.0	2000 03 10	608	0.3+	1.3−
1998 12 14	704	1.3−	0.4+	2000 02 27	703	0.9−	0.7−	2000 03 10	608	0.9+	1.1−
1998 12 17	704	0.8+	0.2−	2000 02 27	703	0.6−	0.3+	2000 03 11	704	0.5+	0.4+
1998 12 17	704	1.6−	1.1−	2000 02 27	703	0.1−	0.4−	2000 03 11	704	0.6+	0.4+
1998 12 17	704	0.5+	0.9−	2000 02 27	703	0.3+	0.3−	2000 03 11	704	0.5+	0.1+
1998 12 17	704	0.1+	0.6−	2000 02 29	704	0.0	0.0	2000 03 11	704	0.2+	0.5+
1999 01 16	704	(1.3+	2.3+)	2000 02 29	704	0.4−	0.2−	2000 03 11	704	0.6+	0.7+

M.P.C. 39402

1999 01 16	704	(0.4+ 2.6+)	2000 02 29	704	0.1− 0.1+	2000 03 11	699	0.5− 0.6+
1999 01 16	704	0.2− 1.2+	2000 02 29	704	0.6− 0.4−	2000 03 11	699	0.7− 0.7+
1999 01 16	704	1.4− 0.4+	2000 03 03	704	0.4+ 0.0	2000 03 11	699	0.8− 0.3+
2000 02 05	704	0.5− 0.5+	2000 03 03	704	0.5+ 0.1−	2000 03 11	699	1.0− 0.5+
2000 02 05	704	0.0 0.4+	2000 03 03	704	0.3+ 0.1+			
2000 02 05	704	0.3+ 0.6+	2000 03 03	704	0.5+ 0.2−			

2000 CU₅₈ = 1993 QO₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			Williams		
309.61612			(2000.0)		
			P	Q	
<i>n</i>	0.38517857	ω	60.61863	−0.74079491	+0.65372959
<i>a</i>	1.8708026	Ω	158.92200	−0.66065217	−0.75064420
<i>e</i>	0.0858129	<i>i</i>	25.43650	+0.12149738	−0.09576479
<i>P</i>	2.56	<i>H</i>	15.8	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1993 08 20	809	0.7− 0.3−	2000 02 08	704	0.3+ 0.5+	2000 03 09	704	0.3− 0.4−
1993 08 20	809	0.2− 0.8+	2000 02 08	704	0.3− 0.7−	2000 03 09	704	0.2− 0.4+
1993 08 20	809	0.7− 0.4−	2000 02 08	704	0.3− 0.6−	2000 03 09	704	0.1− 0.7−
1993 08 24	809	0.6+ 0.4+	2000 02 26	703	0.5+ 0.3+	2000 03 09	704	0.2− 0.3+
1993 08 24	809	0.1− 0.4+	2000 02 26	703	0.5+ 0.9+	2000 03 09	704	0.1− 0.5+
1993 08 24	809	1.1+ 0.4+	2000 02 26	703	0.3+ 0.5+	2000 03 09	704	0.0 0.7−
1998 08 24	704	0.3+ 0.1+	2000 02 26	703	0.7+ 0.6+	2000 03 09	704	0.2− 0.6+
1998 08 24	704	0.2− 0.4+	2000 03 05	704	0.2+ 0.1+	2000 03 09	704	0.1+ 0.7−
1998 08 24	704	0.1− 0.1−	2000 03 05	704	0.2+ 0.2+	2000 03 09	704	0.2− 0.2+
1998 08 24	704	0.7− 0.8−	2000 03 05	704	0.3+ 0.2+	2000 03 12	704	0.0 0.2+
1998 08 24	704	0.6+ 0.2−	2000 03 05	704	0.4+ 0.4+	2000 03 12	704	0.4+ 0.2−
2000 02 02	704	0.8+ 0.5+	2000 03 05	704	0.6+ 1.3+	2000 03 12	704	0.3+ 0.4+
2000 02 02	704	0.1− 0.2−	2000 03 08	704	0.1+ 0.0	2000 03 12	704	0.1− 0.1−
2000 02 02	704	0.4+ 0.9−	2000 03 08	704	1.6− 0.7−	2000 03 12	704	0.5+ 0.6−
2000 02 08	704	0.4− 0.2−	2000 03 08	704	1.3− 0.1+			
2000 02 08	704	0.5− 0.1−	2000 03 08	704	0.4− 0.8−			

2000 CM₅₉ = 1998 XO₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			Williams		
281.95641			(2000.0)		
			P	Q	
<i>n</i>	0.28580561	ω	254.82093	+0.08961439	+0.99516256
<i>a</i>	2.2825601	Ω	20.44971	−0.86384137	+0.09778061
<i>e</i>	0.1312159	<i>i</i>	6.61667	−0.49572911	+0.00950913
<i>P</i>	3.45	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 12 14	704	0.3+ 0.9−	2000 02 01	461	0.1− 0.4+	2000 03 08	704	0.2+ 0.1−
1998 12 14	704	0.3− 1.1+	2000 02 01	461	0.0 0.0	2000 03 08	704	0.6+ 1.3+
1998 12 14	704	0.5− 0.5+	2000 02 01	461	0.1+ 0.4+	2000 03 08	704	0.6+ 0.8+
1998 12 14	704	0.9+ 0.4+	2000 02 01	461	0.1− 0.1−	2000 03 08	704	0.1− 0.9+
1998 12 14	704	(0.8− 2.6+)	2000 02 02	461	0.3− 0.2+	2000 03 10	704	0.5+ 0.6−
1998 12 17	704	0.2− 0.5+	2000 02 02	461	0.9+ 0.4−	2000 03 10	704	0.2− 0.2+
1998 12 17	704	0.2+ 1.2−	2000 03 05	608	0.3+ 0.4+	2000 03 10	704	0.4− 1.0−
1998 12 17	704	(0.0 3.0−)	2000 03 05	608	0.0 0.0	2000 03 10	704	0.9− 0.8−
1998 12 17	704	0.4+ 0.1−	2000 03 05	608	0.1− 0.3−	2000 03 10	704	1.1− 1.1−
1998 12 17	704	0.7− 0.5−	2000 03 08	704	(6.9− 0.5−)			

2000 CU₅₉ = 1995 GM₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			Williams		
42.55154			(2000.0)		
			P	Q	
<i>n</i>	0.18411972	ω	304.27219	−0.04875505	−0.99164528
<i>a</i>	3.0601015	Ω	147.87853	+0.97425980	−0.07356290
<i>e</i>	0.0793246	<i>i</i>	12.97965	+0.22009270	+0.10596288
<i>P</i>	5.35	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1995 04 04	327	0.4− 0.2−	2000 02 02	704	0.6− 0.6+	2000 02 29	704	0.0 0.4+
1995 04 04	327	1.1− 0.2+	2000 02 02	704	0.2+ 0.9+	2000 02 29	704	0.3+ 0.6−
1995 04 04	327	0.9+ 0.2−	2000 02 02	704	0.0 0.0	2000 02 29	704	0.2+ 0.3−

2000 MAR. 20

1995 04 04	327	0.5+ 0.3−	2000 02 02	704	0.9− 0.3+	2000 03 03	691	0.2+ 0.4+
1995 04 05	327	1.7− 1.4+	2000 02 08	704	0.3+ 0.5−	2000 03 03	691	0.2− 0.4+
1995 04 05	327	0.7+ 0.1−	2000 02 08	704	0.3+ 0.7−	2000 03 03	691	0.2+ 0.3+
1995 04 05	327	1.1+ 0.7−	2000 02 08	704	0.0 0.8+			
2000 02 02	704	0.0 1.3−	2000 02 29	704	0.0 0.7−			

2000 CY₅₉ = 1993 QD₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			Nakano		
243.17534			(2000.0)		
			P	Q	
<i>n</i>	0.22261037	ω	106.94247	−0.09989524	+0.99132763
<i>a</i>	2.6963264	Ω	156.80813	−0.97534069	−0.08058721
<i>e</i>	0.0394391	<i>i</i>	12.52204	−0.19680317	−0.10380382
<i>P</i>	4.43	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1993 08 20	809	0.4+ 0.7+	2000 02 02	704	0.6− 0.6+	2000 02 08	704	0.2+ 0.4+
1993 08 20	809	0.1+ 0.1−	2000 02 02	704	0.0 0.1−	2000 02 08	704	0.6+ 0.0
1993 08 20	809	0.8− 0.4−	2000 02 02	704	0.3− 0.6+	2000 02 08	704	0.1+ 0.7−
1993 08 24	809	0.9− 0.0	2000 02 06	704	0.5+ 1.8−	2000 02 12	704	0.6− 0.2−
1993 08 24	809	0.4+ 0.9−	2000 02 06	704	0.2− 1.0+	2000 02 12	704	0.9− 0.5+
1993 08 24	809	0.8+ 0.7+	2000 02 06	704	0.0 0.2−	2000 02 12	704	0.7+ 0.4+
2000 02 02	704	0.5+ 0.1+	2000 02 06	704	0.4+ 0.0			
2000 02 02	704	0.5− 0.7−	2000 02 08	704	0.1+ 0.1+			

2000 CO₆₀ = 1998 VV₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			Williams		
74.98954			(2000.0)		
			P	Q	
<i>n</i>	0.19829718	ω	247.95827	+0.39349716	−0.91932562
<i>a</i>	2.9124492	Ω	178.86889	+0.85459690	+0.36554329
<i>e</i>	0.0852285	<i>i</i>	1.79560	+0.33885709	+0.14566573
<i>P</i>	4.97	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 11 10	704	0.4+ 0.0	2000 02 02	704	0.1− 0.4−	2000 02 29	704	0.4− 0.8−
1998 11 10	704	0.2− 0.6+	2000 02 02	704	1.3+ 1.3+	2000 02 29	704	1.2− 0.3+
1998 11 10	704	0.8+ 1.0+	2000 02 02	704	0.3− 1.0+	2000 03 03	704	0.3+ 0.1+
1998 11 10	704	(1.5+ 2.3−)	2000 02 08	704	0.0 0.7−	2000 03 03	704	0.0 0.4−
1998 11 10	704	(3.1− 1.2−)	2000 02 08	704	0.1+ 1.2−	2000 03 03	704	0.3+ 0.7−
1998 11 11	704	0.7− 0.5−	2000 02 08	704	0.7− 0.2+	2000 03 03	704	0.2+ 0.5−
1998 11 11	704	0.5+ 0.7+	2000 02 29	704	0.2− 0.7+	2000 03 03	704	0.5+ 0.3−
1998 11 11	704	0.9− 1.9−	2000 02 29	704	0.6+ 1.1+			
2000 02 02	704	0.4− 0.9−	2000 02 29	704	0.1− 1.2+			

2000 CQ₆₀ = 1998 XE₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			Williams		
66.98992			(2000.0)		
			P	Q	
<i>n</i>	0.17881714	ω	167.85044	+0.07954511	−0.98788447
<i>a</i>	3.1203020	Ω	277.47832	+0.90295501	+0.12804032
<i>e</i>	0.0367973	<i>i</i>	7.72381	+0.42230891	−0.08769236
<i>P</i>	5.51	<i>H</i>	13.1	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	0.3+ 0.8−	2000 02 02	704	0.3+ 0.6+	2000 03 01	703	0.2− 0.1−
1998 12 14	704	1.9+ 0.1+	2000 02 02	704	0.9+ 0.5−	2000 03 01	703	0.3− 0.2−
1998 12 14	704	0.1− 1.0+	2000 02 02	704	0.2− 0.6+	2000 03 08	704	0.8− 0.2−
1998 12 14	704	0.8+ 1.5−	2000 02 02	704	0.4+ 0.2+	2000 03 08	704	0.6+ 0.1−
1998 12 14	704	0.4− 0.0	2000 02 08	704	0.4− 0.0	2000 03 08	704	1.0− 0.6+
1998 12 17	704	0.5− 0.7+	2000 02 08	704	0.7− 0.1−	2000 03 08	704	0.5+ 0.9+
1998 12 17	704	0.6− 0.4−	2000 02 08	704	0.3− 0.1−	2000 03 08	704	0.3− 0.7−
1998 12 17	704	0.4+ 0.3−	2000 02 08	704	0.1− 0.5−	2000 03 13	704	0.2− 0.1+
1998 12 17	704	0.7− 0.9+	2000 02 08	704	0.4− 0.4−	2000 03 13	704	0.2+ 0.3−
1998 12 17	704	1.1− 0.4+	2000 03 01	703	0.1+ 0.4+	2000 03 13	704	0.4+ 0.5−
2000 02 02	704	0.3+ 0.1−	2000 03 01	703	0.6+ 0.3+	2000 03 13	704	0.8+ 0.1+

2000 MAR. 20

M.P.C. 39403

2000 CS₆₀ = 1987 QR₃ = 1998 VS₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	238.27563		(2000.0)	P		Q	
<i>n</i>	0.27552053	ω	40.06173	+0.32117506		+0.94218789	
<i>a</i>	2.3390171	Ω	248.86343	−0.89299049		+0.26771631	
<i>e</i>	0.1205558	<i>i</i>	5.87940	−0.31530075		+0.20151912	
<i>P</i>	3.58	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1987 08 30	010	1.2−	0.5+	2000 01 05	704	0.1+	1.2−	2000 02 13	704	(1.0+	3.8+)
1987 08 30	010	0.8+	1.1+	2000 01 05	704	0.1−	1.1−	2000 03 01	703	0.8−	0.6+
1998 08 31	704	1.3+	0.3−	2000 01 05	704	0.6−	0.5−	2000 03 01	703	1.0+	0.4−
1998 08 31	704	0.7−	0.7−	2000 02 02	704	0.3+	0.4+	2000 03 01	703	0.1+	0.3+
1998 08 31	704	0.6−	1.0+	2000 02 02	704	0.4−	0.0	2000 03 01	703	0.5−	0.2+
1998 08 31	704	0.6+	0.5−	2000 02 02	704	0.1+	0.9+	2000 03 08	704	0.1+	0.2−
1998 08 31	704	1.7+	1.7−	2000 02 02	704	0.0	1.0+	2000 03 08	704	0.0	0.5−
1998 10 19	699	0.6−	1.2+	2000 02 02	704	0.1−	1.3+	2000 03 08	704	0.6+	0.2−
1998 10 19	699	(1.0+	2.4+)	2000 02 07	703	0.3−	0.0	2000 03 08	704	1.0+	0.3+
1998 10 19	699	0.9−	1.3+	2000 02 07	703	0.1−	0.3+	2000 03 11	699	0.1−	0.0
1998 11 10	704	0.6+	0.6−	2000 02 07	703	0.1+	0.2+	2000 03 11	699	0.3−	0.1−
1998 11 10	704	0.2−	0.8−	2000 02 07	703	0.1−	0.3+	2000 03 11	699	0.1−	0.4−
1998 11 10	704	0.0	0.3−	2000 02 08	704	0.3−	0.1−	2000 03 11	699	0.3−	0.4−
1998 11 10	704	0.7−	0.4+	2000 02 08	704	0.2−	0.3−	2000 03 13	704	0.4+	0.1+
1998 11 11	704	0.5+	0.4+	2000 02 08	704	1.2−	0.3+	2000 03 13	704	0.1+	0.0
1998 11 11	704	0.4+	0.9−	2000 02 08	704	0.6+	0.5−	2000 03 13	704	1.1+	0.0
1998 11 11	704	0.2+	0.2−	2000 02 08	704	0.0	0.0	2000 03 13	704	0.2+	0.3−
1998 11 11	704	0.1−	0.2+	2000 02 13	704	(1.8−	2.9+)	2000 03 13	704	0.1+	0.2+
1998 11 11	704	1.0−	0.1+	2000 02 13	704	(0.8+	3.5+)				

2000 CD₆₁ = 1993 FP₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	13.81270		(2000.0)	P		Q	
<i>n</i>	0.27430918	ω	329.53974	−0.73068510		−0.68266100	
<i>a</i>	2.3458982	Ω	167.39697	+0.63402238		−0.68316769	
<i>e</i>	0.1622509	<i>i</i>	2.24800	+0.25320922		−0.25933736	
<i>P</i>	3.59	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 03 21	809	0.7+	0.3+	2000 02 08	704	0.0	0.5−	2000 03 04	704	0.7+	0.2+
1993 03 22	809	1.3+	0.7+	2000 02 08	704	0.9+	0.2−	2000 03 04	704	1.0+	0.2−
1993 03 24	809	(0.4−	2.7+)	2000 02 08	704	0.9−	0.0	2000 03 04	704	0.4+	0.4−
1993 04 18	413	1.9−	0.6−	2000 02 08	704	1.0+	0.7+	2000 03 04	704	1.5+	0.4−
2000 02 01	703	1.1−	0.9+	2000 02 29	704	0.9+	0.4−	2000 03 04	704	1.3+	0.1−
2000 02 01	703	1.9+	0.6+	2000 02 29	704	0.4+	0.0	2000 03 11	704	0.3−	0.1−
2000 02 01	703	0.0	0.5+	2000 02 29	704	0.8+	0.1+	2000 03 11	704	0.6−	0.2+
2000 02 01	703	0.6+	0.3−	2000 02 29	704	0.4+	0.6+	2000 03 11	704	0.3−	0.0
2000 02 02	704	0.3−	0.1−	2000 02 29	704	0.7+	0.6+	2000 03 11	704	0.5−	0.3+
2000 02 02	704	0.8−	0.7−	2000 03 03	704	0.6+	0.1+	2000 03 11	699	1.5−	0.5−
2000 02 02	704	1.2−	0.0	2000 03 03	704	0.2+	0.1−	2000 03 11	704	0.7−	0.0
2000 02 02	704	1.0−	0.5−	2000 03 03	704	0.4+	0.1+	2000 03 11	699	0.5−	0.1−
2000 02 02	704	1.5−	0.4−	2000 03 03	704	0.2+	0.0	2000 03 11	699	1.4−	0.0
2000 02 08	704	0.3−	0.2+	2000 03 03	704	0.1−	0.1−	2000 03 11	699	1.4−	0.3−

2000 CJ₆₁ = 1998 RB₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	71.96319		(2000.0)	P		Q	
<i>n</i>	0.26604969	ω	174.83570	+0.32306882		−0.94330456	
<i>a</i>	2.3942025	Ω	256.29938	+0.86545097		+0.32705313	
<i>e</i>	0.1422870	<i>i</i>	4.49710	+0.38291141		+0.05668111	
<i>P</i>	3.70	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.3−	0.2+	1998 09 18	704	1.1−	1.3+	2000 02 12	704	0.7−	0.0
1998 08 17	704	0.3−	0.8+	1998 09 18	704	0.3−	1.4−	2000 02 12	704	1.5+	0.8−
1998 08 17	704	0.7−	1.7+	1998 09 18	704	0.8+	0.5−	2000 02 12	704	0.6+	1.1−

1998 08 17	704	0.5+	0.2+	1998 09 18	704	0.2+	0.4+	2000 02 12	704	0.3+	0.6+
1998 08 17	704	0.2−	0.9−	2000 01 05	704	(2.4−	1.5−)	2000 03 01	704	0.1+	0.6+
1998 08 23	704	1.1+	0.6−	2000 01 05	704	0.6−	0.6−	2000 03 01	704	0.2−	0.5+
1998 08 23	704	0.5−	0.3−	2000 01 05	704	0.3−	0.6+	2000 03 01	704	0.0	0.2−
1998 08 23	704	1.0+	0.7+	2000 01 05	704	0.3−	0.0	2000 03 08	704	0.2−	0.7−
1998 08 23	704	(3.5−	1.7−)	2000 02 02	704	0.2−	0.2+	2000 03 08	704	0.7+	0.7+
1998 09 14	704	0.6−	0.0	2000 02 02	704	0.3−	0.1−	2000 03 08	704	1.9+	0.1+
1998 09 14	704	0.7−	0.7+	2000 02 02	704	0.8−	0.3+	2000 03 08	704	0.6+	0.3−
1998 09 14	704	0.6+	0.8+	2000 02 02	704	0.4−	1.1+	2000 03 08	704	0.6+	0.9+
1998 09 14	704	0.0	0.6−	2000 02 02	704	0.3−	0.7+	2000 03 11	699	0.1+	0.7−
1998 09 14	704	0.2−	0.2−	2000 02 08	704	0.4−	0.0	2000 03 11	699	0.3−	0.5−
1998 09 18	699	0.0	0.9+	2000 02 08	704	0.7−	0.6−	2000 03 11	699	0.6−	0.4−
1998 09 18	699	0.1−	0.5+	2000 02 08	704	1.4+	0.2−	2000 03 11	699	0.2−	0.4+
1998 09 18	704	0.6+	2.0−	2000 02 08	704	0.6−	0.5+				
1998 09 18	699	0.5−	0.1−	2000 02 08	704	0.5−	0.9+				

2000 CK₆₁ = 1998 RQ₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	76.94335		(2000.0)	P		Q	
<i>n</i>	0.23260835	ω	123.57164	+0.42173869		−0.89499235	
<i>a</i>	2.6184996	Ω	300.82986	+0.76567450		+0.43739250	
<i>e</i>	0.1660944	<i>i</i>	9.74498	+0.48567379		+0.08761564	
<i>P</i>	4.24	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	703	0.1+	0.3+	2000 02 02	704	0.3+	0.3+	2000 02 08	704	0.4+	0.5−
1998 09 14	703	0.0	0.1+	2000 02 02	704	0.1−	0.7+	2000 03 01	704	0.1+	0.5−
1998 09 14	703	0.4+	0.2−	2000 02 02	704	0.1−	0.5+	2000 03 01	704	0.0	0.5−
1998 09 15	703	0.1−	0.1−	2000 02 02	704	0.4+	1.0+	2000 03 01	704	0.3−	0.3−
1998 09 15	703	0.5−	0.0	2000 02 02	704	0.7+	0.8+	2000 03 08	704	0.4+	0.0
2000 01 05	704	0.6−	0.9−	2000 02 08	704	0.0	0.4−	2000 03 08	704	0.1−	0.4−
2000 01 05	704	0.2+	0.3−	2000 02 08	704	0.1+	0.1+	2000 03 08	704	0.5+	0.7+
2000 01 05	704	0.3−	0.4−	2000 02 08	704	0.2+	0.1−	2000 03 08	704	0.8−	0.2−
2000 01 05	704	0.8−	0.2−	2000 02 08	704	0.3−	0.6+				

2000 CU₆₁ = 1998 SB₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	29.43361		(2000.0)	P		Q	
<i>n</i>	0.27771414	ω	282.50932	−0.59404615		−0.80365920	
<i>a</i>	2.3266839	Ω	204.04153	+0.76755569		−0.55316398	
<i>e</i>	0.0877565	<i>i</i>	4.96068	+0.24076425		−0.21941170	
<i>P</i>	3.55	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 25	699	0.8−	0.0	2000 02 02	704	0.1+	0.4−	2000 03 08	704	0.4+	0.7+
1998 09 25	699	0.7+	1.6+	2000 02 02	704	0.1+	0.2+	2000 03 08	704	0.3−	0.2−
1998 09 25	699	0.4−	1.1+	2000 02 02	704	0.2−	0.4+	2000 03 11	699	0.6+	0.2−
1998 09 26	704	0.4+	0.2−	2000 02 07	704	0.0	1.2−	2000 03 11	699	0.8+	0.5+
1998 09 26	704	0.2+	1.4−	2000 02 07	704	0.2−	0.9−	2000 03 11	699	0.4−	0.2−
1998 09 26	704	0.3+	1.8−	2000 02 07	704	0.5−	1.9−	2000 03 11	699	0.4−	0.0
1998 09 26	704	0.3−	0.2+	2000 02 07	704	0.1+	1.4−	2000 03 12	704	0.4−	0.2+
1998 09 26	704	0.8−	0.7−	2000 02 08	704	0.1−	0.2−	2000 03 12	704	0.5−	0.0
1998 09 27	704	0.3−	0.6+	2000 02 08	704	0.3−	0.5−	2000 03 12	704	0.0	0.2−
1998 09 27	704	0.6+	0.6+	2000 02 08	704	0.1+	0.3+	2000 03 12	704	0.1+	0.4+
1998 09 27	704	0.5+	1.1+	2000 02 08	704	0.2−	0.5+	2000 03 12	704	0.0	0.6+
1998 09 27	704	0.1−	0.6+	2000 02 08	704	0.2+	1.1+	2000 03 13	704	0.3−	

2000 CV₆₁ = 1998 RM₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	35.32884	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27774504	ω	290.00924	-0.53306457
<i>a</i>	2.3265114	Ω	192.29262	+0.81274745
<i>e</i>	0.0577747	<i>i</i>	6.57362	-0.23512498
<i>P</i>	3.55	<i>H</i>	15.1	<i>U</i>
			<i>G</i>	0.15
				4

Residuals in seconds of arc

1998 09 14	704	0.7-	0.1-	2000 02 07	704	0.3-	1.5-	2000 03 08	704	0.4+	0.7+
1998 09 14	704	0.2-	0.6-	2000 02 07	704	1.1+	1.4-	2000 03 08	704	0.5-	1.0+
1998 09 14	704	0.2+	0.1+	2000 02 07	704	0.6-	0.2-	2000 03 11	699	0.1-	0.1-
1998 09 18	704	0.8+	0.6-	2000 02 07	704	1.1-	1.3-	2000 03 11	699	0.6-	0.1-
1998 09 18	704	0.1+	1.1+	2000 02 07	704	0.6-	0.8-	2000 03 11	699	0.5-	0.3+
1998 09 18	704	0.1-	0.1+	2000 02 08	704	0.4-	0.5+	2000 03 11	699	0.3-	0.1-
1998 09 18	704	0.3-	0.6+	2000 02 08	704	0.9-	0.5+	2000 03 12	704	0.2+	0.1+
2000 02 02	704	1.6+	0.5+	2000 02 08	704	0.5+	0.2+	2000 03 12	704	0.4+	0.5+
2000 02 02	704	0.8+	0.1+	2000 02 08	704	1.0-	0.8+	2000 03 12	704	0.0	0.2+
2000 02 02	704	0.8+	1.5+	2000 02 08	704	0.7-	0.6-	2000 03 12	704	0.5+	0.5+
2000 02 02	704	0.2-	0.2+	2000 03 08	704	1.9+	0.9-	2000 03 12	704	0.2-	0.1-

2000 CW₆₁ = 1976 UL₆ = 1993 HG₇ = 1998 VO₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	278.21410	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27103295	ω	33.70368	-0.30613221
<i>a</i>	2.3647650	Ω	218.61059	-0.89703273
<i>e</i>	0.0825187	<i>i</i>	6.65962	-0.31877162
<i>P</i>	3.64	<i>H</i>	14.6	<i>U</i>
			<i>G</i>	0.15
				2

Residuals in seconds of arc

1976 10 22	381	0.8+	0.7-	1998 11 10	704	0.4+	1.5-	2000 02 07	704	1.0-	1.4+
1976 10 22	381	0.4-	1.0-	1998 11 11	704	0.2+	0.4+	2000 02 07	704	1.2-	0.7-
1993 04 24	809	1.0-	0.9-	1998 11 11	704	0.5+	0.3+	2000 02 07	704	0.8-	0.4-
1993 04 24	809	0.0	1.4-	1998 11 11	704	1.1+	0.0	2000 02 07	704	1.9-	1.8-
1993 04 25	809	0.3-	0.0	1998 11 11	704	0.4-	0.5+	2000 02 08	704	0.0	0.1-
1993 04 25	809	0.1+	0.1+	1998 11 11	704	(2.0-	2.3-)	2000 02 08	704	0.1+	0.2-
1993 04 25	809	0.6+	0.2+	1998 11 11	704	0.4-	0.8-	2000 02 08	704	0.1-	0.6-
1993 04 25	809	(9.7-	8.3+)	1998 11 11	704	0.4+	1.5+	2000 02 08	704	0.0	0.5-
1993 04 25	809	(9.6-	8.3+)	1998 11 11	704	1.1-	0.7-	2000 02 08	704	0.1-	0.3-
1993 04 26	809	(9.6-	8.4+)	2000 01 05	704	0.2+	0.8-	2000 03 08	704	0.5+	0.1+
1998 10 18	699	0.3+	0.5-	2000 01 05	704	0.9-	1.2-	2000 03 08	704	0.4+	0.7+
1998 10 18	699	0.0	0.6+	2000 01 05	704	0.4-	1.3-	2000 03 08	704	0.9+	1.2+
1998 10 18	699	0.8+	0.2+	2000 02 02	704	0.5+	0.3+	2000 03 08	704	1.2+	2.0+
1998 11 10	704	1.2-	0.1+	2000 02 02	704	0.3+	0.3+	2000 03 13	704	0.2+	0.4+
1998 11 10	704	0.6+	1.0+	2000 02 02	704	0.9+	0.7+	2000 03 13	704	0.1+	0.7-
1998 11 10	704	0.3-	0.2+	2000 02 02	704	(1.4+	2.1+)	2000 03 13	704	0.6+	0.3+
1998 11 10	704	1.1-	0.6-	2000 02 02	704	0.5+	0.8+	2000 03 13	704	0.2-	0.1+

2000 CG₆₂ = 1993 FP₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	244.96130	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27331900	ω	112.63112	+0.27485374
<i>a</i>	2.3515605	Ω	173.17942	-0.94074061
<i>e</i>	0.0874888	<i>i</i>	12.00272	-0.19865177
<i>P</i>	3.61	<i>H</i>	14.2	<i>U</i>
			<i>G</i>	0.15
				2

Residuals in seconds of arc

1993 03 19	809	0.5-	0.2-	2000 02 02	704	0.4+	0.3+	2000 02 29	704	0.7-	0.2+
1993 03 20	809	0.9+	0.3-	2000 02 07	704	0.5-	0.7-	2000 03 03	704	0.0	0.1+
1993 03 23	809	(0.6+	2.6+)	2000 02 07	704	0.2-	1.6-	2000 03 03	704	0.1-	0.1+
1993 03 24	691	0.3-	0.1-	2000 02 07	704	0.8-	0.1-	2000 03 03	704	0.0	0.3+
1993 03 24	691	0.2-	0.1-	2000 02 07	704	0.5-	0.5-	2000 03 03	704	0.1+	0.5+
1993 03 24	691	0.1-	0.1-	2000 02 08	704	0.6+	0.2-	2000 03 03	704	0.1+	0.5+
1998 10 29	699	0.0	0.4+	2000 02 08	704	0.2-	0.2-	2000 03 11	704	0.6-	0.6+
1998 10 29	699	0.7+	0.5+	2000 02 08	704	0.8+	0.4-	2000 03 11	704	0.6-	0.4+

1998 10 29	699	0.7-	1.0-	2000 02 08	704	0.4+	0.5-	2000 03 11	704	0.3-	0.1+
2000 02 02	704	1.2+	0.1+	2000 02 08	704	0.1+	1.1-	2000 03 11	704	0.1-	0.1+
2000 02 02	704	0.7+	0.3+	2000 02 29	704	0.1-	0.2+	2000 03 11	704	0.3-	0.4+
2000 02 02	704	0.6+	0.1+	2000 02 29	704	0.0	0.4+				
2000 02 02	704	0.6+	0.7+	2000 02 29	704	0.0	0.7+				

2000 CZ₆₂ = 1999 BE₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	103.79332	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.15673307	ω	228.73093	+0.55469754
<i>a</i>	3.4069228	Ω	187.64809	+0.79935635
<i>e</i>	0.0636887	<i>i</i>	8.11268	+0.23095471
<i>P</i>	6.29	<i>H</i>	12.3	<i>U</i>
			<i>G</i>	0.15
				3

Residuals in seconds of arc

1997 10 30	704	0.3+	0.3+	1999 01 20	704	0.7+	0.7-	2000 02 29	704	0.0	0.5+
1997 10 30	704	0.2+	0.8+	1999 01 20	704	0.6-	1.3-	2000 02 29	704	0.4-	0.4-
1997 10 30	704	0.0	1.7+	1999 01 20	704	1.6-	0.6+	2000 02 29	704	0.8-	0.0
1997 10 30	704	0.5+	0.6-	1999 01 20	704	1.2-	0.9+	2000 03 03	704	0.1+	0.1+
1997 10 30	704	0.0	0.8+	2000 02 02	704	0.0	0.5+	2000 03 03	704	0.0	0.0
1997 11 19	592	0.4+	0.7-	2000 02 02	704	0.7+	0.9-	2000 03 03	704	0.1-	0.1+
1997 11 19	592	0.3+	0.4-	2000 02 02	704	0.6+	0.2+	2000 03 03	704	0.1-	0.3+
1997 11 19	592	1.5-	0.7-	2000 02 07	704	0.3-	0.7-	2000 03 03	704	0.1-	0.1+
1997 11 19	592	0.7-	0.1+	2000 02 07	704	0.1-	0.3-	2000 03 08	704	0.3+	0.1+
1998 12 15	704	0.1+	0.4-	2000 02 07	704	0.4-	1.3-	2000 03 08	704	0.5-	0.0
1998 12 15	704	0.5+	0.2+	2000 02 07	704	0.7-	0.5-	2000 03 08	704	1.3+	1.4-
1998 12 15	704	0.8-	0.8+	2000 02 07	704	1.0-	0.1-	2000 03 08	704	0.2+	1.1+
1998 12 15	704	1.4+	1.4+	2000 02 08	704	0.0	0.1-	2000 03 08	704	0.2-	0.6-
1998 12 15	704	(5.1-	0.2-)	2000 02 08	704	0.4+	0.3-	2000 03 08	704	0.4+	1.1+
1998 12 22	704	0.5-	0.3+	2000 02 08	704	0.1+	0.1-	2000 03 08	704	0.4+	0.2+
1998 12 22	704	0.4-	0.4+	2000 02 08	704	0.2-	0.7+	2000 03 08	704	0.4+	1.2+
1998 12 22	704	0.3-	1.0-	2000 02 08	704	0.2+	0.6-	2000 03 09	704	0.1-	0.1+
1998 12 22	704	(2.3-	6.5-)	2000 02 27	703	0.6-	0.2-	2000 03 09	704	0.4+	0.2+
1999 01 18	704	1.4+	1.4-	2000 02 27	703	0.2+	0.7+	2000 03 09	704	0.1-	0.3+
1999 01 18	704	1.3+	0.2+	2000 02 27	703	0.3-	0.6+	2000 03 09	704	0.5+	0.1+
1999 01 18	704	(0.8+	2.1+)	2000 02 27	703	0.1+	0.5+	2000 03 09	704	0.4+	0.0
1999 01 18	704	0.0	0.6-	2000 02 29	704	0.4+	0.1-				
1999 01 20	704	(2.5-	1.4+)	2000 02 29	704	0.2+	0.0				

2000 CC₆₃ = 1993 FD₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	333.36195	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27548873	ω	1.33558	-0.97123011
<i>a</i>	2.3391972	Ω	192.44299	-0.21896655
<i>e</i>	0.0596520	<i>i</i>	2.95173	-0.09362543
<i>P</i>	3.58	<i>H</i>	15.0	<i>U</i>
			<i>G</i>	0.15
				3

Residuals in seconds of arc

1993 03 21	809	0.8-	1.7+	2000 02 08	704	0.1+	0.1+	2000 03 03	704	0.1-	0.0
1993 03 22	809	0.1-	1.3+	2000 02 08	704	0.4+	0.2-	2000 03 03	704	0.3-	0.3+
1993 03 26	809	1.6+	1.1-	2000 02 08	704	0.1+	0.3-	2000 03 03	704	0.5-	0.3+
1993 03 27	809	(4.0+	3.3-)	2000 02 27	703	0.5+	0.8-	2000 03 07	106	0.1+	0.2-
1994 08 11	809	(1.7-	2.6+)	2000 02 27	703	0.6-	0.1+	2000 03 07	106	0.3-	0.4+
1994 08 11	809	0.6-	1.9+	2000 02 27	703	0.3-	0.1+	2000 03 11	704	0.2+	0.2+
1994 08 11	809	(0.3+	3.6+)	2000 02 27	703	0.3-	0.5+	2000 03 11	704	0.0	0.4+
1998 09 20	809	(1.1+	2.6+)	2000 02 29	704	0.0	1.1-	2000 03 11	704	0.0	0.5+
1998 09 20	809	0.5-	1.6+	2000 02 29	704	0.5+	1.2+	2000 03 11	704	0.1-	0.8+
1998 09 20	809	0.5-	1.3+	2000 02 29	704	0.9+	0.4-	2000 03 11	704	0.1+	0.7+
2000 02 02	704	0.2-	0.8-	2000 02 29	704	0.5+	1.1-	2000 03 11	699	0.4-	0.5+
2000 02 02	704	0.2+	0.6+	2000 03 02	106	0.0	0.6-	2000 03 11	699	0.4+	0.3+
2000 02 02	704	0.4-	0.1+	2000 03 02	106	0.6+	0.5-	2000 03 11	699	0.0	0.7+
2000 02 02	704	0.3-	0.4-	2000 03 02	106	0.0	0.6-	2000 03 11	699	0.4-	0.5+
2000 02 08	704	0.5-	0.2+	2000 03 03	704	0.1+	0.0				
2000 02 08	704	0.7+	0.2-	2000 03 03	704	0.2-	0.4+				

2000 MAR. 20

M.P.C. 39405

2000 CG₆₃ = 1980 RG₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23094012	<i>ω</i>	29.68209	+0.86458778	+0.49966905		
<i>a</i>	2.6310945	<i>Ω</i>	300.24591	−0.47227748	+0.77198758		
<i>e</i>	0.2453162	<i>i</i>	3.52355	−0.17158657	+0.39289440		
<i>P</i>	4.27	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1980 09 07	095	0.2−	0.8+	2000 02 08	704	0.7−	0.6+	2000 02 29	704	0.5−	0.2+
1980 09 09	095	0.1−	0.2−	2000 02 08	704	0.3−	1.1−	2000 03 03	704	0.9+	0.0
1997 07 01	910	0.1−	0.1+	2000 02 27	703	0.3+	0.1+	2000 03 03	704	1.2+	0.2+
1997 07 01	910	0.1+	0.1+	2000 02 27	703	1.1+	0.5+	2000 03 03	704	1.8+	0.2−
1997 07 01	910	0.0	0.0	2000 02 27	703	0.4−	0.1−	2000 03 11	704	1.5−	0.1+
2000 02 02	704	0.9+	0.4+	2000 02 27	703	0.8+	0.5−	2000 03 11	704	1.2−	0.1−
2000 02 02	704	0.3−	1.6+	2000 02 29	704	0.8−	0.3−	2000 03 11	704	1.2−	0.4−
2000 02 02	704	1.4+	0.1+	2000 02 29	704	0.6+	0.4−	2000 03 11	704	0.9−	0.3−
2000 02 02	704	0.0	1.2+	2000 02 29	704	0.2+	0.8−	2000 03 11	704	0.9−	0.5−
2000 02 08	704	0.3−	0.6+	2000 02 29	704	0.3+	0.2+				

2000 CQ₆₃ = 1991 CZ₂ = 1998 WJ₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	67.73193	<i>ω</i>	150.16917	−0.13944338	−0.98785327		
<i>a</i>	2.6815619	<i>Ω</i>	307.76073	+0.89049410	−0.09481229		
<i>e</i>	0.0295943	<i>i</i>	4.97556	+0.43310023	−0.12311195		
<i>P</i>	4.39	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 02 12	511	0.7+	1.0−	1998 11 24	704	0.1−	0.1+	2000 02 08	704	0.0	0.5−
1991 02 12	511	1.4−	0.5−	1998 11 24	704	0.3−	1.2+	2000 02 08	704	0.1+	0.1+
1991 02 22	511	(4.5−	0.9−)	1998 12 14	704	0.3+	0.3−	2000 02 08	704	0.3−	0.7−
1998 08 31	704	0.2−	1.3−	1998 12 14	704	0.3+	0.1−	2000 02 25	620	1.8−	0.7−
1998 08 31	704	0.6+	0.9+	1998 12 14	704	0.1−	1.0+	2000 02 25	620	1.8−	0.5−
1998 08 31	704	0.7+	0.5+	1998 12 14	704	1.8+	0.5+	2000 02 26	620	1.6−	0.1−
1998 08 31	704	0.7+	0.1+	1998 12 14	704	(1.3−	2.2+)	2000 03 03	620	0.1−	0.0
1998 08 31	704	(6.0−	0.1−)	1999 12 09	703	0.8−	0.6−	2000 03 03	620	0.1+	0.2+
1998 11 10	704	0.0	0.1+	1999 12 09	703	1.1+	0.5+	2000 03 03	620	0.3+	0.4+
1998 11 10	704	(2.3−	1.7−)	1999 12 09	703	0.0	0.5+	2000 03 04	620	0.2+	0.4+
1998 11 10	704	1.1−	0.3+	1999 12 09	703	0.1+	1.0+	2000 03 08	704	0.2+	0.3+
1998 11 10	704	0.0	0.6−	2000 01 01	461	0.4+	0.5+	2000 03 08	704	0.3+	0.3+
1998 11 18	704	0.2−	0.8+	2000 01 01	461	0.2+	0.4+	2000 03 08	704	0.7+	0.7−
1998 11 18	704	0.4−	0.8+	2000 01 01	461	0.2+	0.7+	2000 03 08	704	0.9−	0.3−
1998 11 18	704	0.5−	0.7+	2000 01 01	461	0.5+	0.7+	2000 03 08	704	0.1−	0.3−
1998 11 18	704	0.6+	0.1−	2000 01 05	704	0.1+	0.3−	2000 03 13	704	0.8+	1.0+
1998 11 18	704	(0.0	2.2+)	2000 01 05	704	1.1−	1.5−	2000 03 13	704	0.0	0.7+
1998 11 21	704	0.4−	0.2+	2000 01 05	704	0.5−	1.3−	2000 03 13	704	0.0	0.4+
1998 11 21	704	0.7−	0.7−	2000 01 05	704	0.4+	1.6−	2000 03 13	704	0.4+	0.6+
1998 11 21	704	0.2+	0.8−	2000 02 02	704	0.4+	0.2+	2000 03 13	704	0.6+	1.2+
1998 11 21	704	0.4−	0.6−	2000 02 02	704	1.5+	0.8+	2000 03 14	608	(0.0	2.3−)
1998 11 21	704	0.1−	0.9−	2000 02 02	704	0.8+	0.9+	2000 03 14	608	0.2−	1.3−
1998 11 24	704	0.3−	0.1−	2000 02 02	704	(0.2+	2.1+)	2000 03 14	608	(0.1+	2.7−)
1998 11 24	704	0.2+	0.1+	2000 02 08	704	0.6+	0.7+				
1998 11 24	704	0.2−	1.2−	2000 02 08	704	0.4+	0.3−				

2000 CS₆₃ = 1993 TO₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22831408	<i>ω</i>	108.70946	+0.25850718	−0.95801071		
<i>a</i>	2.6512311	<i>Ω</i>	325.53436	+0.78299266	+0.28300895		
<i>e</i>	0.0085057	<i>i</i>	12.66273	+0.56577074	+0.04605879		
<i>P</i>	4.32	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 10 12	675	0.2+	0.7−	1999 11 05	703	0.5+	0.6−	2000 02 08	704	0.9+	0.4+
1993 10 12	675	0.1+	0.1+	1999 11 05	703	0.8+	0.5+	2000 02 08	704	0.5+	1.0+
1993 10 14	675	0.6+	0.6−	1999 11 05	703	0.7+	0.0	2000 03 01	703	0.2+	0.0
1993 10 14	675	0.3+	0.4−	1999 12 09	703	0.3−	0.3+	2000 03 01	703	0.1+	0.0
1997 09 01	566	0.7−	0.7+	1999 12 09	703	0.9+	0.6+	2000 03 01	703	0.1+	0.1+
1997 09 01	566	0.3−	0.5+	1999 12 09	703	0.5+	0.1−	2000 03 01	703	0.2−	0.1+
1997 09 01	566	0.2−	1.0+	1999 12 09	703	0.5+	0.2+	2000 03 05	608	0.9−	0.7−
1998 11 14	704	0.1+	0.8+	1999 12 09	703	0.5−	0.2+	2000 03 05	608	1.1−	0.7−
1998 11 14	704	0.8−	0.9+	1999 12 09	703	0.8+	0.1+	2000 03 05	608	0.8−	1.2−
1998 11 14	704	1.3+	1.8−	1999 12 09	703	0.9−	0.0	2000 03 09	704	0.1+	0.1−
1998 11 14	704	1.3+	1.2−	1999 12 09	703	0.6+	0.2−	2000 03 09	704	0.0	0.4−
1998 11 16	704	1.1−	0.2+	2000 01 05	704	0.5−	0.3−	2000 03 09	704	0.2+	0.0
1998 11 16	704	0.3−	0.0	2000 01 05	704	0.1+	0.2+	2000 03 09	704	0.1+	0.0
1998 11 16	704	0.0	0.3+	2000 01 05	704	0.5+	0.6−	2000 03 09	704	0.1+	0.1−
1998 11 16	704	0.5+	1.4+	2000 02 02	704	0.3−	0.4+	2000 03 13	704	0.1+	0.4+
1998 11 16	704	(0.9+	4.3+)	2000 02 02	704	0.0	0.7+	2000 03 13	704	0.1+	0.1−
1999 01 08	704	0.2+	0.5+	2000 02 02	704	0.2−	0.4+	2000 03 13	704	0.1+	0.1−
1999 01 08	704	1.6−	0.4−	2000 02 02	704	0.2−	0.0	2000 03 13	704	0.2−	0.2−
1999 01 08	704	0.2−	0.1−	2000 02 02	704	1.2−	0.6−	2000 03 13	704	0.3−	0.6−
1999 01 08	704	0.2+	0.4−	2000 02 08	704	0.0	0.1+				
1999 11 05	703	0.5+	0.4+	2000 02 08	704	0.5+	1.1+				

2000 CW₆₃ = 1978 TE₁ = 1998 VQ₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	209.46806	<i>ω</i>	44.52718	+0.77663550	+0.62737916		
<i>a</i>	2.2133432	<i>Ω</i>	276.53034	−0.59275727	+0.69724592		
<i>e</i>	0.1660723	<i>i</i>	3.28072	−0.21325130	+0.34676147		
<i>P</i>	3.29	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1978 10 02	095	0.1−	0.2+	1998 11 11	704	0.7−	0.6+	2000 03 08	704	(2.3+	0.3−)
1998 10 19	699	0.4+	1.0−	1998 11 20	699	1.2+	0.9+	2000 03 08	704	1.0+	0.3+
1998 10 19	699	0.9+	0.7−	1998 11 20	699	1.4+	0.2+	2000 03 08	704	0.4+	1.2+
1998 10 19	699	0.5+	0.3−	1998 11 20	699	1.0+	0.5+	2000 03 11	699	0.2−	0.1+
1998 11 10	704	0.1−	0.6+	2000 02 02	704	0.4+	0.1−	2000 03 11	699	0.1−	0.0
1998 11 10	704	0.1−	0.6+	2000 02 02	704	0.3−	0.2+	2000 03 11	699	0.7−	0.5−
1998 11 10	704	0.2+	0.7+	2000 02 02	704	0.8−	0.9−	2000 03 11	699	0.9−	0.3+
1998 11 10	704	0.5+	0.1+	2000 02 02	704	0.8+	0.8−	2000 03 12	704	0.6−	0.4+
1998 11 10	704	0.6−	1.7−	2000 02 08	704	0.4+	0.4−	2000 03 12	704	0.4+	0.4−
1998 11 11	704	1.1−	0.4+	2000 02 08	704	0.5+	0.1+	2000 03 12	704	0.1−	1.6+
1998 11 11	704	0.7−	0.1−	2000 02 08	704	0.6+	0.7+	2000 03 12	704	0.4−	0.7−
1998 11 11	704	1.1−	1.7−	2000 02 08	704	0.2−	0.3−	2000 03 12	704	0.0	0.4−
1998 11 11	704	1.6−	0.8+	2000 03 08	704	0.0	0.9−				

2000 CX₆₃ = 1998 SB₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27210697	<i>ω</i>	325.99716	−0.75062073	−0.66043242		
<i>a</i>	2.3585383	<i>Ω</i>	172.57206	+0.63533216	−0.72972194		
<i>e</i>	0.1326300	<i>i</i>	8.87206	+0.18144303	−0.17701672		
<i>P</i>	3.62	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.2+	0.4−	2000 02 08	704	0.3+	0.0	2000 03 10	691	0.2−	0.7−
1998 09 26	704	0.2+	0.1+	2000 02 08	704	0.0	0.3+	2000 03 10	691	0.2−	0.7−
1998 09 26	704	(2.6−	0.6+)	2000 02 27	703	0.3−	0.4+	2000 03 11	704	0.2−	0.2+
1998 09 26	704	1.2+	1.1+	2000 02 27	703	0.3−	0.2+	2000 03 11	704	0.1+	0.2−
1998 09 26	704	1.4+	1.8+	2000 02 27	703	0.2−	0.0	2000 03 11	704	0.1+	0.2+
1998 09 27	704	1.3−	1.2−	2000 02 27	703	0.5+	0.6+	2000 03 11	704	0.1−	0.5+
1998 09 27	704	0.5−	0.1−	2000 02 29	704	0.1+	0.3+	2000 03 11	704	0.1−	0.5+
1998 09 27	704	0.2−	0.8+	2000 02 29	704	0.5−	0.7+	2000 03 11	699	0.1+	0.1+
1998 09 27	704	1.1−	1.2−	2000 02 29	704	0.0	0.4+	2000 03 11	699	0.1+	0.1+
2000 02 02	704	0.8+	0.5+	2000 02 29	704	0.0	0.4+	2000 03 11	699	0.0	0.1−
2000 02 02	704	0.1−	0.4−	2000 03 03	704	0.4+	0.1+	2000 03 11	699	0.4+	0.0

M.P.C. 39406

2000 02 02	704	0.0	0.9−	2000 03 03	704	0.4+	1.1+	2000 03 12	691	0.3−	0.6−
2000 02 02	704	0.1+	1.8−	2000 03 03	704	0.2+	0.3+	2000 03 12	691	0.2−	0.7−
2000 02 08	704	0.3+	0.2+	2000 03 03	704	0.5+	0.4+	2000 03 12	691	0.4−	0.6−
2000 02 08	704	0.3−	0.2+	2000 03 03	704	0.3+	0.7+				
2000 02 08	704	1.2−	0.9−	2000 03 10	691	0.1+	0.7−				

2000 CZ₆₃ = 1991 GW₇ = 1992 OJ₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		228.07655		(2000.0)		P		Q	
<i>n</i>		0.20947011	ω	343.04804		+0.56942267		+0.82104554	
<i>a</i>		2.8079412	Ω	321.63503		−0.74643711		+0.49577103	
<i>e</i>		0.0627403	<i>i</i>	3.74339		−0.34436821		+0.28301114	
<i>P</i>		4.71	<i>H</i>	13.7		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 04 08	809	1.2−	0.1+	2000 02 02	704	0.2+	0.3+	2000 02 27	703	0.2−	0.5+
1991 04 08	809	1.2−	0.8−	2000 02 02	704	0.3−	0.2−	2000 02 29	704	0.3+	0.3−
1991 04 08	809	0.9−	1.8−	2000 02 02	704	0.3−	0.2−	2000 02 29	704	0.1+	0.1+
1991 04 10	809	0.9+	0.5+	2000 02 02	704	0.2−	0.4−	2000 02 29	704	1.0+	0.8−
1991 04 10	809	1.0+	1.4−	2000 02 07	704	0.1+	0.8−	2000 03 03	704	0.2+	0.0
1991 04 10	809	(2.7+ 1.1−)		2000 02 07	704	0.3−	1.3+	2000 03 03	704	0.5+	0.7−
1992 07 26	809	0.2+	0.2+	2000 02 07	704	0.0	0.5−	2000 03 03	704	0.1−	0.1+
1992 07 26	809	0.4+	0.9+	2000 02 07	704	0.8−	0.8+	2000 03 03	704	0.2+	0.4+
1992 07 26	809	0.7−	0.0	2000 02 08	704	0.9+	0.7+	2000 03 03	704	0.2+	0.3+
1992 07 30	809	0.5+	0.7−	2000 02 08	704	0.2−	0.1−	2000 03 11	704	0.4−	0.6+
1992 07 30	809	0.0	0.1+	2000 02 08	704	0.0	0.4+	2000 03 11	704	0.3+	0.4+
1992 07 30	809	0.6−	0.4−	2000 02 08	704	0.8+	0.4−	2000 03 11	704	0.2+	0.6+
1999 01 16	704	(0.3− 3.3−)		2000 02 08	704	0.1−	0.1+	2000 03 11	704	0.2−	0.7+
1999 01 16	704	1.3+	0.4−	2000 02 27	703	0.5−	0.2−	2000 03 11	704	0.3−	0.3+
1999 01 16	704	1.2−	1.9−	2000 02 27	703	0.9+	0.2+				
1999 01 16	704	(0.0 3.4−)		2000 02 27	703	0.6−	0.2+				

2000 CF₆₄ = 1998 UB₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		359.84164		(2000.0)		P		Q	
<i>n</i>		0.21929003	ω	293.70039		−0.81444923		−0.57111630	
<i>a</i>		2.7234754	Ω	211.75357		+0.57751893		−0.78083204	
<i>e</i>		0.0918870	<i>i</i>	11.22705		+0.05607438		−0.25323410	
<i>P</i>		4.49	<i>H</i>	13.7		<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 28	704	0.9+	0.9+	1999 12 16	704	0.5−	0.5−	2000 02 08	704	0.8+	0.2−
1998 10 28	704	1.1+	0.5+	2000 01 11	704	0.6−	0.4−	2000 02 08	704	0.8+	0.4+
1998 10 28	704	1.3−	0.2−	2000 01 11	704	0.3−	0.4−	2000 02 08	704	0.6+	0.2+
1998 10 28	704	0.6+	1.0−	2000 01 11	704	0.4−	0.5+	2000 02 25	049	0.4+	1.0−
1998 10 29	704	0.4−	0.8−	2000 02 03	704	0.1+	0.4−	2000 02 25	049	0.3+	0.7−
1998 10 29	704	0.5−	0.5+	2000 02 03	704	0.1−	0.3+	2000 02 25	049	0.6+	1.1−
1998 10 29	704	1.4−	1.7+	2000 02 03	704	0.1+	0.6+	2000 03 08	704	1.0−	0.0
1998 10 29	704	0.1−	1.4−	2000 02 03	704	0.2+	0.8+	2000 03 08	704	0.3+	0.6+
1998 10 29	704	1.0+	0.2−	2000 02 03	704	0.1−	1.3+	2000 03 08	704	1.4−	0.4−
1999 12 16	704	0.2−	0.7+	2000 02 08	704	0.2+	0.5−	2000 03 08	704	0.6−	0.6−
1999 12 16	704	0.1+	0.8−	2000 02 08	704	0.0	0.1+	2000 03 08	704	0.1+	1.3+

2000 CK₆₄ = 1995 DL₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		350.35236		(2000.0)		P		Q	
<i>n</i>		0.18754325	ω	148.33855		−0.87639216		−0.48159471	
<i>a</i>		3.0227467	Ω	2.87369		+0.43391352		−0.79125517	
<i>e</i>		0.1645375	<i>i</i>	2.08508		+0.20893983		−0.37680471	
<i>P</i>		5.26	<i>H</i>	15.3		<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 02 24	691	0.0	0.3+	2000 01 04	704	0.4−	0.6−	2000 02 03	704	0.3−	0.6−
1995 02 24	691	0.1−	0.2−	2000 01 04	704	0.6−	1.1−	2000 02 08	704	1.1−	1.6+

2000 MAR. 20

1995 02 24	691	0.5−	0.1−	2000 01 04	704	0.1−	0.7−	2000 02 08	704	0.3+	0.2−
1995 03 02	691	0.3+	0.4−	2000 02 03	704	0.4−	0.1+	2000 02 08	704	0.4+	0.1−
1995 03 02	691	0.1+	0.3−	2000 02 03	704	0.8−	0.6+	2000 02 11	704	0.5+	0.6−
1995 03 02	691	0.2−	0.1−	2000 02 03	704	0.9+	0.5+	2000 02 11	704	1.4+	0.7+
2000 01 04	704	0.5−	0.5−	2000 02 03	704	0.7−	1.1+	2000 02 11	704	1.5+	0.3+

2000 CQ₆₄ = 1998 SP₁₅₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		60.83365		(2000.0)		P		Q	
<i>n</i>		0.21131589	ω	92.07680		+0.35435159		−0.93349819	
<i>a</i>		2.7915663	Ω	336.93247		+0.79255095		+0.33098014	
<i>e</i>		0.0941482	<i>i</i>	8.05741		+0.49628413		+0.13796116	
<i>P</i>		4.66	<i>H</i>	14.8		<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.2−	0.6−	2000 02 03	704	0.5−	0.3+	2000 02 11	704	0.3+	0.4−
1998 09 26	704	0.0	1.5−	2000 02 08	704	0.3+	0.2+	2000 02 11	704	0.1+	0.5+
1998 09 26	704	0.5−	0.3+	2000 02 08	704	0.8−	0.5−	2000 02 11	704	0.4−	0.3−
1998 09 26	704	1.0−	0.1+	2000 02 08	704	0.3−	0.3−	2000 02 11	704	0.7−	0.3+
1998 09 27	704	0.2+	0.2−	2000 02 08	704	0.4−	0.1+	2000 02 11	704	0.1+	0.7+
1998 09 27	704	0.1−	0.5+	2000 02 08	704	0.9−	0.2−	2000 02 11	704	0.4+	0.1+
1998 09 27	704	1.3+	1.2+	2000 02 10	704	0.4+	0.0	2000 02 11	704	0.4−	0.3+
1998 09 27	704	0.4+	0.1+	2000 02 10	704	0.7+	0.7−	2000 02 11	704	0.6−	0.4+
2000 02 03	704	0.6+	0.3+	2000 02 10	704	1.0−	0.3+	2000 03 04	704	0.3+	0.8−
2000 02 03	704	0.1−	0.2+	2000 02 10	704	0.3+	0.5+	2000 03 04	704	0.1−	0.6+
2000 02 03	704	0.9+	0.6−	2000 02 11	704	0.4+	1.0+	2000 03 04	704	0.0	0.0
2000 02 03	704	0.4+	0.7−	2000 02 11	704	1.0+	1.1−	2000 03 04	704	0.1−	0.1−

2000 CV₆₄ = 1994 AD₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		52.91786		(2000.0)		P		Q	
<i>n</i>		0.17194037	ω	319.86056		+0.27746954		−0.95264330	
<i>a</i>		3.2029549	Ω	113.70341		+0.91263016		+0.22088971	
<i>e</i>		0.1304440	<i>i</i>	7.80997		+0.30019468		+0.20899397	
<i>P</i>		5.73	<i>H</i>	14.5		<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1994 01 07	691	0.0	0.3−	2000 02 03	704	0.1−	0.4−	2000 02 08	704	0.6+	0.5+
1994 01 07	691	1.8+	0.1+	2000 02 03	704	0.3+	0.0	2000 02 08	704	0.2−	0.4+
1994 01 07	691	0.4−	0.1−	2000 02 03	704	1.2−	0.1−	2000 02 11	704	1.0+	0.7+
1994 01 11	691	0.1−	0.1−	2000 02 03	704	0.7−	0.4+	2000 02 11	704	0.6−	0.4−
1994 01 11	691	0.3−	0.2+	2000 02 08	704	0.6+	0.4−	2000 02 11	704	0.5+	0.1−
1994 01 11	691	0.9−	0.2+	2000 02 08	704	0.4+	0.4−	2000 02 11	704	0.7−	0.2−

2000 CX₆₄ = 1998 SX₁₆₅ = 1998 UR₂₂

Id. M. E. Sansaturio, G. V. Williams (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		161.59396		(2000.0)		P		Q	
<i>n</i>		0.23534377	ω	259.51806		+0.89908577		+0.43410562	
<i>a</i>		2.5981701	Ω	74.73436		−0.37522759		+0.83070824	
<i>e</i>		0.1189884	<i>i</i>	3.36008		−0.22549729		+0.34853427	
<i>P</i>		4.19	<i>H</i>	14.8		<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 21	809	0.6+	0.3+	1998 10 28	704	0.9+	1.0−	2000 02 03	704	0.8−	0.1−
1998 09 21	809	0.3+	0.1−	1998 10 29	704	0.2+	0.1+	2000 02 08	704	0.3−	0.2−
1998 09 21	809	0.6−	0.4+	1998 10 29	704	0.2−	0.4+	2000 02 08	704	0.1−	0.6−
1998 10 14	699	0.5+	0.5−	1998 10 29	704	0.9−	0.1−	2000 02 08	704	0.2−	0.0

2000 MAR. 20

M.P.C. 39407

1998 10 28 704 1.0+ 0.7+ 2000 02 03 704 0.2+ 0.8+ 2000 02 11 704 0.1- 0.4-
 1998 10 28 704 1.1+ 0.2- 2000 02 03 704 0.4- 0.4- 2000 02 11 704 0.4+ 0.1-

2000 CM₆₅ = 1998 VC₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	41.97589		(2000.0)	P	Q
<i>n</i>	0.18470455	ω	150.31025	-0.20418311	-0.97890388
<i>a</i>	3.0536387	Ω	311.47034	+0.89616618	-0.18382588
<i>e</i>	0.1216829	<i>i</i>	0.57450	+0.39394852	-0.08919210
<i>P</i>	5.34	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 11 10	704	0.6+	0.8-	2000 02 02	704	0.0	1.0-	2000 02 25	703	0.5-	0.2+
1998 11 10	704	1.1+	2.0-	2000 02 02	704	1.0+	1.8-	2000 02 25	703	0.2-	0.9+
1998 11 10	704	1.4-	0.9-	2000 02 02	704	(1.0+	4.1-)	2000 02 29	704	0.1+	0.1-
1998 11 10	704	(1.4-	3.3-)	2000 02 04	704	0.2-	1.1+	2000 02 29	704	0.3+	0.4+
1998 11 11	704	0.6-	0.5+	2000 02 04	704	0.3+	0.0	2000 02 29	704	0.2+	0.2+
1998 11 11	704	0.2+	0.3+	2000 02 04	704	0.5-	0.2+	2000 02 29	704	0.1-	0.2+
1998 11 11	704	0.4+	1.1+	2000 02 04	704	0.0	0.5+	2000 02 29	704	0.1+	0.5+
1998 11 11	704	0.4+	0.5-	2000 02 04	704	0.8-	0.4-	2000 03 03	704	0.1-	0.1+
1998 11 11	699	0.4-	0.4+	2000 02 08	118	0.0	0.3+	2000 03 03	704	0.1+	0.2-
1998 11 11	699	0.4+	0.2+	2000 02 08	118	0.4-	0.0	2000 03 03	704	0.2+	0.0
1998 11 11	699	0.1+	0.1+	2000 02 08	704	0.1+	0.5+	2000 03 03	704	0.1+	0.1-
1998 11 24	699	0.2+	0.1-	2000 02 08	704	0.7+	0.5+	2000 03 03	704	0.4+	0.1+
1998 11 24	699	0.6-	0.5+	2000 02 08	704	0.1+	0.9+	2000 03 11	704	0.8+	0.1+
1998 11 24	699	0.6-	1.5+	2000 02 08	704	(2.0-	0.6+)	2000 03 11	704	0.2-	0.0
1999 12 05	704	0.9-	0.7-	2000 02 10	118	0.6+	1.4-	2000 03 11	704	0.3-	0.1+
1999 12 05	704	0.6+	0.3-	2000 02 11	118	0.5+	1.1-	2000 03 11	704	0.1-	0.7-
1999 12 05	704	0.3-	0.5-	2000 02 11	118	0.3+	0.5-	2000 03 11	704	0.4+	0.9-
2000 02 01	703	1.1-	0.7-	2000 02 11	704	0.5-	0.4+	2000 03 11	699	0.2-	0.2+
2000 02 01	703	0.3-	0.7+	2000 02 11	704	0.2-	0.7+	2000 03 11	699	0.3-	0.0
2000 02 01	703	0.2-	0.1+	2000 02 11	704	1.2+	0.4+	2000 03 11	699	0.6-	0.2+
2000 02 01	703	0.2+	0.3+	2000 02 25	703	0.1-	0.2-	2000 03 11	699	0.4-	0.3-
2000 02 02	704	0.7-	0.1+	2000 02 25	703	0.4+	0.5+				

2000 CN₆₅ = 1998 SW₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	49.33038		(2000.0)	P	Q
<i>n</i>	0.26603918	ω	313.22792	-0.14483864	-0.98732065
<i>a</i>	2.3942655	Ω	144.94456	+0.93743288	-0.15793480
<i>e</i>	0.0756201	<i>i</i>	6.49385	+0.31660915	+0.01595375
<i>P</i>	3.70	<i>H</i>	15.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	1.5+	1.0-	2000 02 08	704	0.5+	0.1+	2000 03 05	704	0.2+	0.3-
1998 09 26	704	(0.6+	2.3-)	2000 02 08	704	0.1-	0.0	2000 03 05	704	0.2+	0.6-
1998 09 26	704	0.2+	1.4+	2000 02 08	704	0.7+	1.3-	2000 03 05	704	0.4-	0.1+
1998 09 26	704	0.5-	0.6+	2000 02 11	704	0.6+	0.6-	2000 03 05	704	0.5+	0.3+
1998 09 27	704	1.1-	1.7-	2000 02 11	704	0.0	0.8-	2000 03 05	704	0.2-	0.4-
1998 09 27	704	1.2-	0.1-	2000 02 11	704	0.3-	0.0	2000 03 11	704	0.6+	0.2-
1998 09 27	704	0.4-	1.3+	2000 02 29	704	0.2-	0.0	2000 03 11	704	1.3-	0.0
1998 09 27	704	1.4+	0.8-	2000 02 29	704	0.3-	0.1+	2000 03 11	704	0.0	1.2-
1998 09 27	704	0.1+	0.4+	2000 02 29	704	0.2+	0.2+	2000 03 11	704	0.1-	0.5+
2000 02 04	704	0.9-	1.1+	2000 02 29	704	0.2+	0.4+	2000 03 11	699	0.2-	0.2-
2000 02 04	704	0.6-	0.2+	2000 03 03	704	0.5-	0.1+	2000 03 11	699	0.9+	0.8+
2000 02 04	704	1.0+	1.8+	2000 03 03	704	0.1-	0.5+	2000 03 11	699	0.1-	0.3+
2000 02 08	704	0.4-	0.2-	2000 03 03	704	0.1-	0.2+	2000 03 11	699	0.9+	0.1+
2000 02 08	704	0.2-	0.8-	2000 03 03	704	0.5-	0.1+				

2000 CQ₆₅ = 1986 TW₈ = 1993 KC₂ = 1997 ME₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	249.13029		(2000.0)	P	Q
<i>n</i>	0.25971715	ω	296.25044	+0.22140488	+0.97515565
<i>a</i>	2.4329637	Ω	346.53531	-0.88337558	+0.19744351
<i>e</i>	0.1786258	<i>i</i>	1.76338	-0.41307078	+0.10043663
<i>P</i>	3.79	<i>H</i>	13.8	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1986 10 02	095	1.0-	0.9+	1998 12 14	704	0.4-	0.8-	2000 02 11	704	0.3-	0.2+
1993 05 17	675	1.0+	0.6-	1998 12 14	704	0.6+	0.0	2000 02 11	704	0.5+	0.1+
1993 05 17	675	1.2+	1.3-	1998 12 14	704	(3.7-	2.5+)	2000 02 25	703	1.0-	0.2+
1993 05 19	675	1.2-	1.6-	1998 12 17	704	0.6-	1.0-	2000 02 25	703	0.7-	0.0
1993 05 19	675	0.9-	0.2+	1998 12 17	704	0.8+	1.1+	2000 02 25	703	0.2+	0.3-
1997 06 28	704	0.2+	0.6+	1998 12 17	704	0.3+	0.4+	2000 02 25	703	0.0	0.3+
1997 06 28	704	(2.1+	0.5+)	1998 12 17	704	(2.3+	0.6-)	2000 02 29	704	(2.2+	2.3+)
1997 06 28	704	0.0	0.8+	1998 12 17	704	(3.5-	1.5-)	2000 02 29	704	0.6-	1.7+
1997 06 29	704	0.2-	0.7+	2000 02 01	703	0.9-	0.3-	2000 02 29	704	0.2+	0.5+
1997 06 29	704	0.2+	0.1-	2000 02 01	703	0.7+	0.6-	2000 02 29	704	0.1-	1.0+
1997 06 29	704	0.4+	0.3+	2000 02 01	703	0.3-	0.3+	2000 02 29	704	0.1-	0.9+
1997 06 29	704	0.1-	0.1-	2000 02 01	703	0.4-	0.4+	2000 03 03	704	0.0	0.1+
1997 06 29	704	0.6+	0.7+	2000 02 04	704	0.0	0.2+	2000 03 03	704	0.2+	0.1+
1997 06 29	704	0.5+	0.6-	2000 02 04	704	0.1-	0.2+	2000 03 03	704	0.1-	0.1-
1997 06 29	704	1.0-	1.3+	2000 02 04	704	0.6+	0.3+	2000 03 03	704	0.2+	0.0
1997 06 29	704	0.6-	0.5+	2000 02 04	704	0.0	0.2+	2000 03 03	704	0.0	0.2-
1997 06 29	704	0.1-	0.8+	2000 02 04	704	0.1-	0.1+	2000 03 05	704	0.4+	0.1-
1997 06 29	704	0.2-	1.1-	2000 02 08	704	0.3-	0.2+	2000 03 05	704	0.4+	0.0
1997 07 02	704	0.8+	0.1+	2000 02 08	704	0.1-	0.2-	2000 03 05	704	0.2-	0.0
1997 07 02	704	0.0	0.1-	2000 02 08	704	0.4+	0.9-	2000 03 05	704	0.2+	0.1+
1997 07 02	704	0.0	0.4-	2000 02 08	704	0.1+	0.4-	2000 03 05	704	0.1+	0.3+
1997 07 02	704	0.2-	0.5-	2000 02 08	704	1.1+	0.8+	2000 03 11	608	0.1+	0.1-
1997 07 02	704	0.2-	0.4+	2000 02 11	704	0.4+	0.2+	2000 03 11	608	0.3+	0.6-
1998 12 14	704	0.6+	0.0	2000 02 11	704	0.2+	0.5+	2000 03 11	608	0.2-	0.9-
1998 12 14	704	0.0	0.5-	2000 02 11	704	0.1+	0.1+				

2000 CS₆₅ = 1977 RR₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	237.66746		(2000.0)	P	Q
<i>n</i>	0.19725892	ω	310.97929	+0.25044694	+0.96808306
<i>a</i>	2.9226599	Ω	333.52009	-0.88167486	+0.22398877
<i>e</i>	0.0865221	<i>i</i>	1.22939	-0.39990720	+0.11244652
<i>P</i>	5.00	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1977 09 09	675	0.5+	0.1+	2000 02 08	704	0.2+	0.3-	2000 02 29	704	0.1+	0.1+
1977 09 10	675	0.1+	0.2-	2000 02 11	704	0.2+	1.0+	2000 03 03	704	0.3-	0.1-
2000 02 04	120	1.5+	0.2+	2000 02 11	704	0.1-	1.1+	2000 03 03	704	0.1+	0.1-
2000 02 04	120	1.2-	1.1+	2000 02 11	704	0.2+	0.1-	2000 03 03	704	0.2+	0.0
2000 02 04	704	0.7+	0.8+	2000 02 11	704	0.1+	1.1-	2000 03 03	704	0.1+	0.5-
2000 02 04	704	0.6-	0.5-	2000 02 25	703	(2.1-	0.5-)	2000 03 03	704	0.5+	0.7-
2000 02 04	704	0.9-	0.2-	2000 02 25	703	0.4-	0.9+	2000 03 11	699	0.2-	0.1-
2000 02 04	704	0.0	1.3-	2000 02 25	703	0.0	0.5-	2000 03 11	699	0.2-	0.2-
2000 02 08	704	0.2-	0.1+	2000 02 25	703	0.4+	0.1+	2000 03 11	699	0.8-	0.0
2000 02 08	704	0.3-	0.3-	2000 02 29	704	0.5+	0.2-	2000 03 11	699	0.1-	0.0
2000 02 08	704	0.1-	0.8+	2000 02 29	704	0.3+	0.2+				
2000 02 08	704	0.0	0.3-	2000 02 29	704	0.5+	0.2-				

2000 CT₆₅ = 1996 JT₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	58.45384		(2000.0)	P	Q
<i>n</i>	0.21189973	ω	310.12958	-0.02375190	-0.99917315
<i>a</i>	2.7864363	Ω	141.19333	+0.93249320	-0.03404205
<i>e</i>	0.0448108	<i>i</i>	3.01825	+0.36040572	+0.02222972
<i>P</i>	4.65	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1996 05 11	691	0.2−	0.7−	2000 02 04	704	0.4−	0.6−	2000 02 29	704	0.2+	0.7+
1996 05 11	691	0.4−	0.3−	2000 02 04	704	0.5−	0.6−	2000 02 29	704	0.4−	0.2−
1996 05 11	691	0.4−	0.3−	2000 02 08	704	0.2+	0.4+	2000 02 29	704	0.2+	0.7+
1996 05 15	691	0.6+	0.0	2000 02 08	704	0.1+	0.3+	2000 03 03	704	0.3+	0.2+
1996 05 15	691	0.6+	0.3+	2000 02 08	704	0.5+	0.8−	2000 03 03	704	0.6+	0.0
1996 05 15	691	0.4−	0.2+	2000 02 08	704	0.1−	0.7−	2000 03 03	704	0.7+	0.1+
1998 11 11	704	0.3−	0.8+	2000 02 08	704	0.3+	0.2+	2000 03 03	704	0.5+	0.2+
1998 11 11	704	1.0+	0.2+	2000 02 11	704	0.0	0.7−	2000 03 03	704	0.4+	0.7−
1998 11 11	704	0.1−	0.7−	2000 02 11	704	0.6+	0.3−	2000 03 11	704	0.4+	0.1−
1998 11 11	704	0.2−	0.4−	2000 02 11	704	1.3−	0.6+	2000 03 11	704	0.3+	0.4−
1998 11 11	704	0.3−	0.3−	2000 02 11	704	0.9+	0.4+	2000 03 11	704	0.5+	0.0
2000 02 01	703	0.7+	0.5+	2000 02 25	703	0.6−	0.4+	2000 03 11	704	0.1+	0.6+
2000 02 01	703	0.1−	0.4−	2000 02 25	703	0.0	0.5−	2000 03 11	704	0.1+	0.4−
2000 02 01	703	0.5−	0.3−	2000 02 25	703	0.1−	0.0	2000 03 11	699	0.4−	0.0
2000 02 01	703	1.0−	0.1−	2000 02 25	703	0.1+	0.4−	2000 03 11	699	0.1−	0.8+
2000 02 04	704	1.5−	1.0+	2000 02 29	704	0.4+	0.1−	2000 03 11	699	1.1−	0.6+
2000 02 04	704	0.2+	0.9−	2000 02 29	704	0.1−	0.3+	2000 03 11	699	0.4−	0.5+

2000 CR₆₆ = 1997 OS₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	338.35819		(2000.0)		P		Q
<i>n</i>	0.23709754	ω	224.39022	−0.99919353			+0.01357622
<i>a</i>	2.5853421	Ω	316.34528	+0.00415134			−0.90113510
<i>e</i>	0.1310575	<i>i</i>	3.13801	−0.03993806			−0.43332576
<i>P</i>	4.16	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 07 31	691	0.2+	0.1−	2000 02 08	704	0.0	0.2+	2000 03 03	704	0.1+	0.4−
1997 07 31	691	0.1+	0.6−	2000 02 08	704	1.8+	0.2−	2000 03 03	704	0.0	0.3−
1997 07 31	691	0.1+	0.2−	2000 02 08	704	0.9−	0.5−	2000 03 03	704	0.2−	0.2−
1997 08 07	691	0.1−	0.6+	2000 02 08	704	0.1−	0.9−	2000 03 03	704	0.2−	0.2+
1997 08 07	691	0.2−	0.1+	2000 02 29	704	0.6+	0.4+	2000 03 03	704	0.3+	0.0
1997 08 07	691	0.0	0.2+	2000 02 29	704	0.7−	0.1−	2000 03 11	704	0.0	0.4+
2000 02 06	704	1.2+	0.1−	2000 02 29	704	0.9−	0.8+	2000 03 11	704	0.5+	0.3−
2000 02 06	704	0.3−	0.1+	2000 02 29	704	0.0	0.2+	2000 03 11	704	0.2+	0.0
2000 02 06	704	1.2−	1.2+	2000 02 29	704	0.6−	0.8−	2000 03 11	704	0.4+	0.2+

2000 CS₆₆ = 1994 RN₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	292.11295		(2000.0)		P		Q
<i>n</i>	0.28950230	ω	252.08179	−0.25845471			+0.96600186
<i>a</i>	2.2630876	Ω	2.96261	−0.83237547			−0.21930558
<i>e</i>	0.0761834	<i>i</i>	7.16651	−0.49025732			−0.13691411
<i>P</i>	3.40	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 09 05	809	1.2−	0.6+	2000 02 08	704	0.9+	0.3−	2000 03 10	704	0.3+	1.1+
1994 09 05	809	0.2−	0.6+	2000 02 08	704	0.4+	0.1−	2000 03 10	704	0.7+	0.3−
1994 09 05	809	0.1−	0.3−	2000 02 08	704	0.9+	0.4+	2000 03 10	704	0.5+	1.5−
1994 09 06	809	1.3+	0.1+	2000 02 08	704	0.6+	1.5−	2000 03 11	704	0.8+	0.5+
1994 09 06	809	(2.4+ 0.3+)		2000 03 09	704	0.4−	0.1+	2000 03 11	704	0.0	0.0
1994 09 06	809	0.2+	1.0−	2000 03 09	704	0.6−	0.5+	2000 03 11	704	0.4−	0.7+
2000 02 06	704	0.1+	0.9+	2000 03 09	704	0.2−	0.2−	2000 03 11	704	0.3−	0.6−
2000 02 06	704	1.3−	0.5+	2000 03 09	704	0.6+	0.3+	2000 03 11	704	1.2−	1.0−
2000 02 06	704	0.7−	0.5−	2000 03 09	704	0.2−	0.5+				
2000 02 08	704	0.9−	0.4+	2000 03 10	704	0.5+	0.1+				

2000 CW₆₆ = 1997 KV₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	39.19735		(2000.0)		P		Q
<i>n</i>	0.25423119	ω	276.99241	−0.01133959			−0.99958763
<i>a</i>	2.4678391	Ω	173.48058	+0.98442633			−0.01578858
<i>e</i>	0.1717136	<i>i</i>	13.43578	+0.17543149			+0.02398532
<i>P</i>	3.88	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 05 28	691	0.5−	0.1+	2000 01 11	704	1.1−	0.4−	2000 02 08	704	0.4+	0.6+
1997 05 28	691	0.3−	0.2−	2000 01 11	704	0.7−	0.7+	2000 02 10	704	0.0	0.1+
1997 06 02	691	0.2+	0.0	2000 02 06	704	1.2+	0.0	2000 02 10	704	0.1−	0.2−
1997 06 02	691	0.6+	0.0	2000 02 06	704	0.9+	0.1+	2000 02 10	704	0.4−	0.4−
1999 12 16	704	0.0	0.3+	2000 02 06	704	0.4+	0.2−	2000 02 10	704	0.2−	0.0
1999 12 16	704	0.5+	0.2−	2000 02 06	704	0.2+	0.0	2000 02 10	704	0.6−	0.2+
1999 12 16	704	0.4−	0.0	2000 02 06	704	0.7+	0.7−	2000 02 11	704	0.4+	0.3+
1999 12 16	704	0.4+	0.1−	2000 02 08	704	0.4+	0.1−	2000 02 11	704	0.7−	0.0
2000 01 11	704	0.4−	0.3−	2000 02 08	704	0.3+	0.3−	2000 02 11	704	0.4−	0.0
2000 01 11	704	0.5+	0.3+	2000 02 08	704	0.1+	0.1+	2000 02 11	704	0.8−	0.0
2000 01 11	704	0.2−	0.3−	2000 02 08	704	0.3+	0.6+	2000 02 11	704	0.8−	0.1−

2000 CH₆₇ = 1991 AP₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	67.71526		(2000.0)		P		Q
<i>n</i>	0.12325453	ω	318.80923	−0.43598592			−0.88425545
<i>a</i>	3.9988409	Ω	155.56500	+0.89465890			−0.44600290
<i>e</i>	0.1518270	<i>i</i>	23.86463	+0.09747685			+0.13846917
<i>P</i>	8.00	<i>H</i>	11.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 01 12	675	0.6−	1.0+	1999 05 05	699	1.1−	0.6+	2000 02 10	704	0.1−	0.0
1991 01 15	675	0.4−	1.1+	1999 05 18	699	0.6+	0.0	2000 02 10	704	0.6+	0.1+
1991 01 15	675	0.7+	0.4+	1999 05 18	699	0.5+	0.6+	2000 02 11	704	0.0	0.1−
1999 01 15	699	0.9−	0.5−	1999 05 18	699	1.2−	0.0	2000 02 11	704	0.2+	0.3−
1999 01 15	699	0.4−	0.1−	2000 02 06	704	0.6−	0.4−	2000 02 11	704	0.2+	0.4−
1999 01 15	699	0.5−	0.9−	2000 02 06	704	0.3+	0.1−	2000 02 11	704	0.6−	0.8+
1999 02 20	699	0.5+	0.5−	2000 02 06	704	1.0+	0.9−	2000 03 02	703	0.7−	0.6−
1999 02 20	699	0.7+	0.6−	2000 02 06	704	0.5−	0.9+	2000 03 02	703	0.6−	0.3+
1999 02 20	699	1.0+	0.8−	2000 02 06	704	0.2−	1.0+	2000 03 02	703	0.3+	0.0
1999 03 21	699	0.3+	0.7−	2000 02 08	704	0.3+	0.2−	2000 03 02	703	0.2−	0.2−
1999 03 21	699	0.4−	0.4−	2000 02 08	704	0.3+	0.1−	2000 03 11	703	0.1+	0.6−
1999 03 21	699	0.3+	0.6−	2000 02 08	704	0.6+	0.1+	2000 03 11	703	0.1+	0.1−
1999 05 05	699	0.5+	1.5+	2000 02 10	704	0.4−	0.4−	2000 03 11	703	0.3+	0.3+
1999 05 05	699	0.0	0.7+	2000 02 10	704	0.1−	0.4+	2000 03 11	703	0.3−	0.3+

2000 CB₇₀ = 1994 TK₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	292.24032		(2000.0)		P		Q
<i>n</i>	0.28042353	ω	58.29836	−0.35961092			+0.93292846
<i>a</i>	2.3116731	Ω	190.67121	−0.88565151			−0.34733775
<i>e</i>	0.1863946	<i>i</i>	5.58235	−0.29377098			−0.09487345
<i>P</i>	3.51	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 10 06	691	0.4+	0.2−	2000 02 02	704	0.1+	0.4+	2000 03 08	704	0.7+	0.3+
1994 10 06	691	0.3+	0.1+	2000 02 02	704	0.4+	0.6+	2000 03 08	704	0.7+	0.4+
1994 10 06	691	0.3+	0.0	2000 02 07	704	1.3−	1.4−	2000 03 08	704	0.5+	0.2+
1994 10 11	691	0.5−	0.2+	2000 02 07	704	0.5−	1.3−	2000 03 13	704	0.2+	0.9−
1994 10 11	691	0.4−	0.1+	2000 02 07	704	0.1−	1.0+	2000 03 13	704	1.4−	0.6+
1994 10 11	691	0.2−	0.1+	2000 02 07	704	1.2−	0.8+	2000 03 13	704	0.0	0.6−
2000 02 02	704	0.7+	0.6−	2000 03 08	704	0.2+	0.6+	2000 03 13	704	0.5−	0.2+
2000 02 02	704	1.2+	0.3−	2000 03 08	704	0.4+	0.0				

2000 MAR. 20

M.P.C. 39409

2000 CL₇₀ = 1990 UF₁₀ = 1998 XT₈₃
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25962462	ω	84.87095	+0.17111674	+0.98377732		
<i>a</i>	2.4335417	Ω	195.30369	−0.96535653	+0.15648013		
<i>e</i>	0.2151731	<i>i</i>	11.77549	−0.19699194	+0.08772769		
<i>P</i>	3.80	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1990 10 24	809	0.7+	1.6+	1998 12 22	704	0.1−	1.7+	2000 02 08	704	0.2+	0.4+
1990 10 24	809	0.5−	0.8+	1998 12 22	704	0.5+	0.1−	2000 03 08	704	0.0	0.8+
1990 10 24	809	0.5−	0.2−	2000 02 07	704	1.2−	1.5−	2000 03 08	704	0.0	0.2+
1998 12 15	704	0.4−	0.8−	2000 02 07	704	0.1−	0.8−	2000 03 08	704	0.3+	0.8+
1998 12 15	704	0.4−	0.9+	2000 02 07	704	0.5−	0.4−	2000 03 08	704	1.7+	0.5+
1998 12 15	704	0.6−	1.9−	2000 02 07	704	0.2−	0.9−	2000 03 13	704	0.1−	0.6+
1998 12 15	704	0.2+	0.1−	2000 02 08	704	0.1−	0.4−	2000 03 13	704	0.1+	0.5+
1998 12 22	704	0.2+	0.8−	2000 02 08	704	0.5−	0.4+	2000 03 13	704	0.4+	0.3+
1998 12 22	704	0.2+	0.8−	2000 02 08	704	0.4−	0.3−	2000 03 13	704	0.0	1.0+
1998 12 22	704	0.6+	0.5+	2000 02 08	704	0.4+	0.0				

2000 CD₇₁ = 1988 DN₂ = 1991 RX₁₃ = 1999 BS₁₆

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17497038	ω	294.33013	−0.30084500	+0.94882582		
<i>a</i>	3.1658696	Ω	317.78352	−0.81498222	−0.30808138		
<i>e</i>	0.0565099	<i>i</i>	8.21665	−0.49527393	−0.06939323		
<i>P</i>	5.63	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1988 02 21	809	(1.5−	3.0−)	1999 01 16	704	0.6+	0.2−	2000 02 08	704	0.6+	0.6+
1988 02 21	809	1.8−	2.3−	1999 01 16	704	0.3+	1.6+	2000 02 08	704	0.5+	1.1−
1988 02 21	809	(1.4−	2.6−)	1999 01 16	704	0.4−	0.2−	2000 03 01	703	0.2+	0.5+
1988 02 23	809	1.1+	2.5−	1999 01 19	704	0.1−	0.9+	2000 03 01	703	0.3−	0.1+
1988 02 23	809	0.3−	1.9−	1999 01 19	704	0.2+	1.1+	2000 03 01	703	0.2−	0.4+
1988 02 23	809	(0.6−	2.9−)	1999 01 19	704	0.5+	0.0	2000 03 01	703	0.4−	0.1+
1991 09 13	675	0.2−	1.7−	1999 01 19	704	0.7+	0.6+	2000 03 08	704	0.4−	0.3+
1991 09 13	675	0.2−	0.6−	2000 02 02	704	0.3−	0.5−	2000 03 08	704	0.2−	0.4+
1991 09 15	675	0.6−	0.9−	2000 02 02	704	0.7+	1.0+	2000 03 08	704	0.1+	0.2−
1991 09 15	675	0.2−	0.7+	2000 02 02	704	0.1+	0.6+	2000 03 08	704	0.5+	0.4−
1996 07 23	566	0.8+	0.3−	2000 02 02	704	1.5−	1.5+	2000 03 08	704	0.3−	0.5−
1996 07 23	566	0.7+	0.2−	2000 02 07	704	0.8−	1.6−	2000 03 13	704	0.2+	0.1+
1996 07 23	566	0.7+	0.0	2000 02 07	704	0.4−	1.1−	2000 03 13	704	0.4−	0.2−
1998 12 17	704	0.5+	0.3+	2000 02 07	704	0.1+	1.0−	2000 03 13	704	0.1+	0.1−
1998 12 17	704	0.1+	0.1−	2000 02 07	704	1.0−	0.8−	2000 03 13	704	0.2−	0.2−
1998 12 17	704	0.0	0.2+	2000 02 08	704	0.6+	0.0	2000 03 13	704	0.6+	1.2+
1998 12 17	704	1.0−	0.6−	2000 02 08	704	0.4+	1.2+				
1999 01 16	704	0.2+	0.8+	2000 02 08	704	0.4+	0.4+				

2000 CJ₇₁ = 1989 GB₆

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26305336	ω	201.84498	−0.34376074	−0.93831433		
<i>a</i>	2.4123490	Ω	268.27703	+0.86700400	−0.30185532		
<i>e</i>	0.1256900	<i>i</i>	2.14127	+0.36073899	−0.16867003		
<i>P</i>	3.75	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1989 04 08	809	1.1+	0.4+	2000 02 08	704	0.3+	0.7+	2000 02 29	704	0.5−	0.3−
1989 04 08	809	1.2+	1.0+	2000 02 08	704	1.2+	0.2+	2000 03 08	704	0.4+	0.0
1989 04 08	809	1.8+	0.0	2000 02 10	809	0.1−	0.6+	2000 03 08	704	0.3−	0.2+
1989 04 10	809	0.4+	0.9−	2000 02 10	809	0.1+	0.5+	2000 03 08	704	0.2+	0.7+
1989 04 10	809	0.7−	0.5−	2000 02 10	809	0.2+	0.7+	2000 03 08	704	1.2+	0.1−
1989 04 10	809	1.3−	0.8−	2000 02 10	809	0.1+	0.6+	2000 03 08	704	0.1−	0.6+
2000 02 07	704	0.4−	0.9−	2000 02 27	703	0.2−	0.1−	2000 03 11	704	0.4−	0.3−
2000 02 07	704	1.0−	0.2−	2000 02 27	703	0.3−	0.2+	2000 03 11	704	0.2−	0.5−

2000 02 07	704	0.2−	1.2−	2000 02 27	703	0.3+	0.2−	2000 03 11	704	0.1−	0.1−
2000 02 07	704	0.3−	1.2−	2000 02 27	703	0.6−	1.0+	2000 03 11	704	0.4−	0.5−
2000 02 08	704	0.2+	0.2−	2000 02 29	704	0.6+	1.0−	2000 03 11	704	0.0	0.7−
2000 02 08	704	0.4+	0.9−	2000 02 29	704	0.0	0.0				
2000 02 08	704	0.4−	1.5+	2000 02 29	704	0.4+	0.7+				

2000 CO₇₁ = 1998 SP₁₃₆

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24478889	ω	306.50112	−0.43103843	−0.90156552		
<i>a</i>	2.5308996	Ω	168.84796	+0.87715320	−0.42833041		
<i>e</i>	0.1239006	<i>i</i>	11.09576	+0.21167935	−0.06093174		
<i>P</i>	4.03	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 03 21	566	0.5+	0.4+	2000 02 07	704	0.1+	1.6−	2000 03 05	704	0.2+	0.0
1996 03 21	566	0.0	0.1+	2000 02 07	704	0.1−	0.9−	2000 03 05	704	0.3+	0.0
1996 03 21	566	0.2−	0.8+	2000 02 07	704	0.5−	1.2−	2000 03 05	704	0.1+	0.4−
1998 09 26	704	0.3−	0.2−	2000 02 07	704	0.0	1.8−	2000 03 08	704	0.1+	1.0+
1998 09 26	704	0.2+	0.4+	2000 02 08	704	0.6+	0.2+	2000 03 08	704	0.3+	1.5+
1998 09 26	704	0.1−	0.3+	2000 02 08	704	0.1+	0.0	2000 03 08	704	0.3−	0.3+
1998 09 26	704	0.1+	0.5−	2000 02 08	704	0.8+	0.1+	2000 03 08	704	0.6+	0.3+
1998 09 26	704	0.7−	0.3+	2000 02 08	704	0.3+	0.2+	2000 03 08	704	0.0	0.8+
1998 09 27	704	0.7−	0.6+	2000 02 08	704	0.6−	0.2+	2000 03 11	704	0.3−	0.1+
1998 09 27	704	0.9−	1.6+	2000 02 27	703	0.1+	0.2+	2000 03 11	699	0.4−	0.4+
1998 09 27	704	0.2+	1.9+	2000 02 27	703	0.2−	0.3+	2000 03 11	704	0.5−	0.0
1998 09 27	704	1.2−	1.0−	2000 02 27	703	0.2+	0.1+	2000 03 11	704	0.4−	0.2+
1998 09 27	704	0.9−	0.7+	2000 02 27	703	0.2−	0.4+	2000 03 11	699	1.3−	0.4+
1998 10 17	699	1.4+	1.7−	2000 02 29	704	0.6+	0.2−	2000 03 11	704	0.6−	0.2+
1998 10 17	699	0.9+	0.2−	2000 02 29	704	0.0	0.1+	2000 03 11	699	0.7−	0.6+
1998 10 17	699	1.6+	0.0	2000 02 29	704	0.3+	0.3−	2000 03 11	704	0.6−	0.2+
2000 02 02	704	0.2+	0.2+	2000 02 29	704	0.3−	1.5−	2000 03 11	699	0.9−	0.5+
2000 02 02	704	0.0	0.3−	2000 02 29	704	0.4−	0.6−	2000 03 14	608	0.6+	0.0
2000 02 02	704	0.8+	0.6+	2000 03 03	704	0.3+	0.1−	2000 03 14	608	0.2+	0.1+
2000 02 02	704	0.9+	0.6+	2000 03 03	704	0.5+	0.1+	2000 03 14	608	0.2+	0.2+
2000 02 02	704	0.3+	0.5+	2000 03 03	704	0.3+	0.2−				
2000 02 07	704	0.3−	0.6−	2000 03 03	704	0.1+	0.4−				

2000 CR₇₁ = 1998 XU₈₀

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18947831	ω	54.03281	−0.05273677	+0.99417263		
<i>a</i>	3.0021315	Ω	213.32053	−0.96244945	−0.07570757		
<i>e</i>	0.0073822	<i>i</i>	9.85498	−0.26628911	+0.07674084		
<i>P</i>	5.20	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.2−	0.2+	2000 02 07	704	0.7−	0.1−	2000 03 04	703	0.4−	0.0
1998 12 15	704	0.3+	0.3−	2000 02 07	704	0.2−	0.0	2000 03 04	703	0.4−	0.1+
1998 12 15	704	0.4−	0.6−	2000 02 08	704	0.4+	0.5−	2000 03 08	704	0.1+	0.1−
1998 12 15	704	0.4+	0.0	2000 02 08	704	0.9+	0.2+	2000 03 08	704	0.5+	0.8−
1998 12 15	704	0.0	1.0−	2000 02 08	704	0.8+	0.1−	2000 03 08	704	0.1−	0.1−
1998 12 22	704	1.4−	0.7+	2000 02 08	704	0.2−	0.9+	2000 03 08	704	0.3−	0.2−
1998 12 22	704	0.0	0.3−	2000 03 03	703	0.1+	0.0	2000 03 08	704	0.3−	0.6−
1998 12 22	704	1.5+	0.3+	2000 03 03	703	0.1+	0.7+	2000 03 13	704	0.2+	0.4−
1998 12 22	704	0.9−	0.4+	2000 03 03	703	0.1−	0.2+	2000 03 13	704	0.9−	0.2−
1998 12 22	704	0.7+	0.5+	2000 03 03	703	0.1+	0.1+	2000 03 13	704	0.4+	0.3+
2000 02 07	704	0.4−	0.2+	2000 03 04	703	0.3−	0.3+	2000 03 13	704	0.2+	0.3+
2000 02 07	704	0.4−	0.3−	2000 03 04	703	0.2+	0.1−	2000 03 13	704	0.6+	0.5+

2000 CL₇₂ = 1997

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	113.93766		(2000.0)	P	Q
<i>n</i>	0.30265277	ω	52.88504	+0.83987992	-0.54230036
<i>a</i>	2.1970483	Ω	339.92462	+0.47473245	+0.75416704
<i>e</i>	0.0630462	<i>i</i>	3.77979	+0.26311749	+0.37032741
<i>P</i>	3.26	<i>H</i>	14.6	<i>G</i>	0.15

Residuals in seconds of arc

1997 03 08	809	0.7-	1.4-	1999 12 06	704	0.9-	0.3-	2000 02 11	704	0.3-	0.0
1997 03 08	809	0.5-	1.2-	1999 12 06	704	0.9-	1.7-	2000 02 11	704	0.8-	0.3+
1997 03 08	809	0.8-	1.4-	2000 02 02	703	0.7-	0.1+	2000 02 12	120	0.2-	0.1-
1997 03 09	809	(0.1+	3.3+)	2000 02 02	703	0.2-	0.3+	2000 02 13	120	0.1+	0.1+
1997 03 09	809	(0.9-	3.0+)	2000 02 02	703	0.0	0.5+	2000 02 29	704	0.1+	0.2-
1997 03 09	809	(0.7-	2.9+)	2000 02 02	703	0.6+	0.8+	2000 02 29	704	0.9+	0.2-
1998 08 01	699	0.4-	1.0+	2000 02 04	704	0.5-	0.0	2000 02 29	704	0.7+	0.4-
1998 08 01	699	0.3-	0.9+	2000 02 04	704	0.4+	0.4+	2000 02 29	704	0.5+	0.6-
1998 08 01	699	0.3+	1.1+	2000 02 04	704	0.6+	0.3-	2000 02 29	704	0.4+	0.8-
1998 08 17	704	0.7-	0.3-	2000 02 04	704	0.3+	0.1-	2000 03 03	704	0.3+	0.8+
1998 08 17	704	0.2-	0.4-	2000 02 04	704	0.7+	0.5+	2000 03 03	704	0.4+	0.9+
1998 08 17	704	0.2-	0.8+	2000 02 06	120	0.6-	0.8-	2000 03 03	704	0.1+	0.9+
1998 08 17	704	0.7-	0.6-	2000 02 06	120	0.4+	0.7-	2000 03 03	704	0.2+	0.8+
1998 08 17	704	0.2+	0.4+	2000 02 08	684	0.1+	0.4-	2000 03 03	704	0.1+	0.6+
1998 08 23	699	0.7-	0.1+	2000 02 08	684	0.1-	0.4-	2000 03 05	704	0.4+	0.6+
1998 08 23	704	0.4+	0.3+	2000 02 08	684	0.0	0.4-	2000 03 05	704	0.3+	1.0+
1998 08 23	704	0.8-	1.6-	2000 02 10	120	(0.3+	3.0+)	2000 03 05	704	0.2+	1.2+
1998 08 23	699	0.0	0.7+	2000 02 10	120	0.6-	0.3+	2000 03 05	704	(0.1-	2.4+)
1998 08 23	704	0.9+	0.7+	2000 02 10	120	0.7-	0.8-	2000 03 05	704	0.4+	1.2+
1998 08 23	699	0.1+	0.9+	2000 02 10	120	0.1+	0.6-	2000 03 11	704	0.4+	0.8+
1998 08 23	704	0.7-	0.4+	2000 02 11	684	0.3-	0.3-	2000 03 11	704	0.1-	1.0+
1998 09 15	699	0.6+	0.6-	2000 02 11	684	0.1-	0.4-	2000 03 11	704	0.4+	1.1+
1998 09 15	699	0.5+	0.5-	2000 02 11	704	0.3-	0.3-	2000 03 11	704	0.4+	0.9+
1998 09 15	699	0.5+	0.7-	2000 02 11	704	0.1+	0.6-	2000 03 11	704	0.4-	0.8+
1999 12 06	704	0.6+	0.0	2000 02 11	704	0.3-	0.1+				

2000 CE₇₃ = 1971 QL₂ = 1980 PS₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	149.61333		(2000.0)	P	Q
<i>n</i>	0.22312392	ω	20.93411	+0.93349841	+0.33306525
<i>a</i>	2.6921874	Ω	318.84028	-0.35095661	+0.77264000
<i>e</i>	0.2559066	<i>i</i>	11.64490	-0.07355383	+0.54045811
<i>P</i>	4.42	<i>H</i>	13.7	<i>G</i>	0.15

Residuals in seconds of arc

1971 08 19	808	0.1+	0.0	2000 02 10	691	0.0	0.6-	2000 02 29	704	0.1+	0.5+
1980 08 06	809	0.3+	0.1-	2000 02 10	691	0.1-	0.6-	2000 02 29	704	0.1+	0.2+
1980 08 07	809	0.2+	0.4+	2000 02 11	704	0.1+	1.1+	2000 02 29	704	0.9+	0.2-
1980 08 09	809	0.1+	1.5-	2000 02 11	704	0.0	0.2+	2000 02 29	704	0.7+	0.6-
1999 01 09	699	0.1+	0.4+	2000 02 11	704	0.4-	0.1+	2000 03 01	691	0.3-	0.6-
1999 01 09	699	0.2+	0.4-	2000 02 11	704	0.0	0.4+	2000 03 01	691	0.7-	0.6-
1999 01 09	699	0.4-	0.5+	2000 02 11	704	0.3+	0.2-	2000 03 01	691	0.9-	0.1+
2000 02 07	691	0.2-	0.4+	2000 02 28	691	0.0	0.2-	2000 03 09	704	0.3+	0.7+
2000 02 07	691	0.2-	0.4+	2000 02 28	691	0.4+	0.9-	2000 03 09	704	0.1+	0.7+
2000 02 07	691	0.3-	0.4+	2000 02 28	691	0.3-	0.1+	2000 03 09	704	0.3-	0.6-
2000 02 10	691	0.1-	0.5-	2000 02 29	704	0.8+	0.3-	2000 03 09	704	0.8-	1.1-

2000 CY₇₄ = 1995 TW₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	52.21916		(2000.0)	P	Q
<i>n</i>	0.27813894	ω	84.84163	+0.26560857	-0.96405705
<i>a</i>	2.3243143	Ω	349.74758	+0.86872906	+0.24238625
<i>e</i>	0.1745820	<i>i</i>	2.18596	+0.41804535	+0.10882513
<i>P</i>	3.54	<i>H</i>	16.3	<i>G</i>	0.15

Residuals in seconds of arc

1995 10 15	691	0.0	0.1+	2000 02 03	704	0.6-	0.3-	2000 02 09	120	0.4+	0.6-
1995 10 15	691	0.1-	0.1+	2000 02 03	704	0.3+	0.0	2000 02 10	120	1.0+	0.4-
1995 10 15	691	0.0	0.0	2000 02 03	704	0.3-	1.3+	2000 02 10	120	1.5+	0.2+
1995 10 22	691	0.1-	0.3+	2000 02 03	704	0.4+	0.6+	2000 02 11	376	1.6+	1.8+
1995 10 22	691	0.0	0.2+	2000 02 03	704	0.0	0.2+	2000 02 11	376	0.1+	0.0
1995 10 22	691	0.2+	0.5-	2000 02 04	376	0.2+	1.2-	2000 02 29	704	0.6-	0.2+
2000 02 02	376	0.8+	0.8-	2000 02 04	376	0.9-	0.9+	2000 02 29	704	0.2-	0.3+
2000 02 02	376	0.7-	0.4+	2000 02 09	120	1.9-	1.0-	2000 02 29	704	0.9+	0.0
2000 02 02	376	0.4+	1.1-	2000 02 09	120	0.5-	0.2-	2000 02 29	704	0.6+	0.1+
2000 02 02	376	1.3-	1.1-	2000 02 09	120	1.1-	0.4+	2000 02 29	704	0.0	0.7+

2000 CE₇₅ = 1996 EJ₆ = 1998 SV₉₀

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	73.13928		(2000.0)	P	Q
<i>n</i>	0.23001533	ω	77.53540	+0.50941807	-0.86038372
<i>a</i>	2.6381422	Ω	341.81523	+0.76929270	+0.46329136
<i>e</i>	0.0909743	<i>i</i>	2.80407	+0.38559301	+0.21236991
<i>P</i>	4.28	<i>H</i>	15.5	<i>G</i>	0.15

Residuals in seconds of arc

1996 03 11	691	0.0	0.2-	1998 09 27	704	0.1+	0.6+	2000 02 10	704	0.1+	0.5-
1996 03 11	691	0.1-	0.1+	1998 09 27	704	0.6-	1.0+	2000 02 10	704	0.1-	1.2+
1996 03 11	691	0.0	0.2-	1998 09 27	704	0.1+	1.2+	2000 02 11	704	0.5+	1.2+
1996 03 18	691	0.1+	0.0	1998 09 27	704	0.6+	0.1+	2000 02 11	704	0.4-	0.4+
1996 03 18	691	0.0	0.1+	2000 02 03	704	0.7-	0.3-	2000 02 11	704	0.5+	0.5-
1996 03 18	691	0.1-	0.1+	2000 02 03	704	0.2+	0.1-	2000 02 29	704	0.1+	0.1+
1998 09 26	704	1.7+	1.3-	2000 02 03	704	1.3-	0.6-	2000 02 29	704	0.1-	0.1-
1998 09 26	704	1.4-	0.1-	2000 02 03	704	0.0	0.6+	2000 02 29	704	0.3-	0.6-
1998 09 26	704	0.9-	1.8-	2000 02 10	704	0.1+	0.0				
1998 09 27	704	0.5+	0.4+	2000 02 10	704	1.5+	0.6-				

2000 CJ₇₅ = 1998 SO₁₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	316.25413		(2000.0)	P	Q
<i>n</i>	0.28828881	ω	186.58232	-0.90035936	+0.43510089
<i>a</i>	2.2694338	Ω	19.21326	-0.39835565	-0.81828072
<i>e</i>	0.1316355	<i>i</i>	1.10443	-0.17511651	-0.37563797
<i>P</i>	3.42	<i>H</i>	14.9	<i>G</i>	0.15

Residuals in seconds of arc

1998 09 26	704	1.4+	1.1-	2000 02 11	704	0.2-	0.0	2000 03 03	704	0.6-	0.0
1998 09 26	704	0.8+	0.9-	2000 02 11	704	0.6+	0.9+	2000 03 03	704	0.2-	0.2-
1998 09 26	704	0.1+	0.7-	2000 02 11	704	0.3-	0.3-	2000 03 03	704	0.1-	0.0
1998 09 26	704	0.4-	0.4-	2000 02 11	704	0.4+	0.6+	2000 03 03	704	0.3-	0.2-
1998 09 27	704	0.3+	1.8+	2000 02 11	704	0.1-	0.0	2000 03 05	704	0.2+	0.6-
1998 09 27	704	1.8-	0.1+	2000 02 11	704	0.1+	0.5+	2000 03 05	704	0.1-	0.3+
1998 09 27	704	0.6-	0.7+	2000 02 25	703	0.5-	0.2+	2000 03 05	704	0.3-	0.3-
2000 02 04	704	0.0	0.1-	2000 02 25	703	0.5-	0.1+	2000 03 05	704	0.3-	0.5-
2000 02 04	704	0.4+	0.7+	2000 02 25	703	0.1+	0.5+	2000 03 05	704	0.3+	0.4+
2000 02 04	704	0.3+	0.2-	2000 02 25	703	0.1+	0.3-	2000 03 09	704	0.3+	0.0
2000 02 04	704	0.3-	0.2-	2000 02 27	691	0.0	0.5-	2000 03 09	704	0.5-	0.5+
2000 02 04	704	0.3+	0.2-	2000 02 27	691	0.1+	0.5-	2000 03 09	704	0.3+	0.3+
2000 02 10	704	0.2+	0.6+	2000 02 27	691	0.2+	0.4-	2000 03 09	704	0.2+	0.1-
2000 02 10	704	0.2-	0.3-	2000 02 29	704	0.1-	0.2+	2000 03 09	704	0.1+	0.2-
2000 02 10	704	0.1+	0.1-	2000 02 29	704	0.1+	0.2-	2000 03 11	704	0.1+	0.2-
2000 02 10	704	0.3+	0.2-	2000 02 29	704	0.2-	0.1+	2000 03 11	704	0.2+	0.1-
2000 02 11	704	0.2-	0.3-	2000 02 29	704	0.0	0.8-	2000 03 11	704	0.2+	0.5+
2000 02 11	704	0.0	0.5+	2000 02 29	704	0.3-	0.5-	2000 03 11	704	0.1+	0.3+
2000 02 11	704	0.3-	0.2+	2000 03 03	704	0.3+	0.1-	2000 03 11	704	0.2+	0.0

2000 MAR. 20

M.P.C. 39411

2000 CT₇₅ = 1997 WA

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	304.71440	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.17907793	ω 39.34889	−0.63821725	+0.76778886		
<i>a</i>	3.1172718	Ω 191.37926	−0.75856105	−0.63966418		
<i>e</i>	0.1169341	<i>i</i> 16.60474	−0.13139204	−0.03646917		
<i>P</i>	5.50	<i>H</i> 12.8	<i>G</i> 0.15	<i>U</i> 3		

Residuals in seconds of arc

1997 10 30	566	0.2−	0.2+	1998 12 19	704	0.7+	1.2+	2000 02 10	704	0.0	0.0
1997 10 30	566	0.3−	0.4+	1998 12 19	704	0.8−	1.2−	2000 02 10	704	0.4+	0.4+
1997 10 30	566	0.6−	0.4+	1998 12 19	704	0.8+	0.3+	2000 02 10	704	1.0+	1.7−
1997 11 18	426	0.2−	0.4−	1999 12 16	704	0.0	1.1−	2000 03 08	704	0.1−	0.0
1997 11 18	426	0.5+	0.4−	1999 12 16	704	0.5+	0.1−	2000 03 08	704	0.4+	0.4+
1997 11 18	426	0.5+	0.4−	1999 12 16	704	0.3+	0.4−	2000 03 08	704	0.7+	1.4+
1997 11 19	426	0.4+	0.7+	1999 12 16	704	0.1−	0.9−	2000 03 08	704	0.6+	0.6+
1997 11 19	426	0.3−	0.0	2000 02 07	704	0.5−	0.8−	2000 03 08	704	1.0−	1.4+
1997 11 19	426	0.2−	0.2−	2000 02 07	704	1.0−	0.4−	2000 03 13	704	0.4+	0.8+
1997 11 27	426	1.3+	0.6−	2000 02 07	704	0.5−	0.2−	2000 03 13	704	0.3−	0.5−
1997 11 27	426	1.1−	0.0	2000 02 07	704	0.1+	0.0	2000 03 13	704	0.7−	0.8−
1997 11 27	426	0.5+	0.6+	2000 02 07	704	0.0	0.9+	2000 03 13	704	0.4−	0.2−
1998 12 19	704	0.7−	0.1+	2000 02 10	704	0.2+	0.3+				

2000 CN₇₆ = 1978 EQ₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	290.28837	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.17739607	ω 216.53335	−0.53067196	+0.84746473		
<i>a</i>	3.1369437	Ω 21.42630	−0.76840900	−0.47416306		
<i>e</i>	0.1250073	<i>i</i> 2.16700	−0.35767985	−0.23869001		
<i>P</i>	5.56	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

1978 03 15	675	0.4+	0.2−	2000 02 11	704	0.5+	0.1−	2000 03 03	704	0.0	0.2−
1978 03 16	675	0.5−	0.2+	2000 02 12	120	0.1−	1.1−	2000 03 03	704	0.2+	0.1−
2000 02 01	703	0.1−	0.7+	2000 02 13	120	0.9−	0.6−	2000 03 05	704	0.2−	0.1−
2000 02 01	703	1.1+	0.2−	2000 02 25	703	0.1−	0.7+	2000 03 05	704	0.2−	0.5−
2000 02 01	703	0.6+	0.2+	2000 02 25	703	0.3+	0.6+	2000 03 05	704	0.1−	0.1+
2000 02 04	704	0.3−	0.3+	2000 02 25	703	0.6−	0.5+	2000 03 05	704	0.0	0.3+
2000 02 04	704	0.2+	0.3+	2000 02 25	703	0.6−	0.9+	2000 03 05	704	0.1−	0.1−
2000 02 04	704	0.2−	0.2+	2000 02 29	704	0.2−	0.0	2000 03 11	699	0.6+	0.3−
2000 02 04	704	0.1−	0.1+	2000 02 29	704	0.6−	0.2+	2000 03 11	699	0.0	0.0
2000 02 04	704	0.0	0.5+	2000 02 29	704	0.3+	0.4−	2000 03 11	699	0.1−	0.1+
2000 02 10	120	0.4+	0.2−	2000 02 29	704	0.1+	0.4+	2000 03 11	699	1.0−	0.1+
2000 02 10	120	1.2−	0.4−	2000 02 29	704	0.2+	0.6−	2000 03 12	704	0.5+	0.4+
2000 02 10	120	1.0−	0.6−	2000 02 29	704	0.1−	0.7−	2000 03 12	704	0.8+	0.1−
2000 02 10	120	1.1−	1.0−	2000 03 01	888	0.0	0.5−	2000 03 12	704	0.1+	0.1−
2000 02 11	704	1.1+	0.1+	2000 03 01	888	0.3−	0.1+	2000 03 12	704	0.2+	0.4+
2000 02 11	704	0.5+	0.1+	2000 03 01	888	0.8+	0.0	2000 03 12	704	0.3−	0.4+
2000 02 11	704	0.4+	0.5+	2000 03 03	704	0.1−	0.1−				
2000 02 11	704	0.7+	0.2−	2000 03 03	704	0.0	0.1+				

2000 CE₇₆ = 1998 US₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	12.51429	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.25589463	ω 352.15822	−0.80830119	−0.58590180		
<i>a</i>	2.4571326	Ω 151.72471	+0.54661660	−0.78340318		
<i>e</i>	0.0616488	<i>i</i> 7.03731	+0.21876809	−0.20736087		
<i>P</i>	3.85	<i>H</i> 14.7	<i>G</i> 0.15	<i>U</i> 3		

Residuals in seconds of arc

1998 10 01	910	0.5−	0.6+	2000 02 05	120	0.6−	0.3−	2000 02 29	704	0.6+	0.5+
1998 10 01	910	0.4−	0.4+	2000 02 05	120	0.6−	0.5−	2000 02 29	704	0.4+	0.7+
1998 10 01	910	0.2−	0.4+	2000 02 06	704	0.2+	0.2+	2000 03 03	704	0.1+	0.1+
1998 10 01	910	0.4−	0.0	2000 02 06	704	0.3−	0.1+	2000 03 03	704	0.0	0.1−
1998 10 01	910	0.3−	0.1+	2000 02 06	704	0.8−	0.4−	2000 03 03	704	0.1+	0.2−
1998 10 01	910	0.2−	0.1−	2000 02 06	704	0.9−	0.7+	2000 03 03	704	0.0	0.1+
1998 10 20	699	0.2−	0.6+	2000 02 10	120	0.7−	0.1+	2000 03 06	704	0.8−	0.6−
1998 10 20	699	0.2+	0.2+	2000 02 10	120	0.3+	0.7−	2000 03 06	704	0.1+	0.1+
1998 10 20	699	0.4+	0.3−	2000 02 11	704	0.4+	1.1+	2000 03 06	704	0.5−	0.5+
1998 10 28	704	1.7+	0.6−	2000 02 11	704	0.2−	0.5−	2000 03 08	704	0.5+	0.5+
1998 10 28	704	0.1+	0.3+	2000 02 11	704	0.9+	0.9−	2000 03 08	704	0.2−	0.0
1998 10 28	704	1.1−	0.9+	2000 02 11	704	0.3+	0.9−	2000 03 08	704	0.3+	0.7+
1998 10 28	704	(2.8−	1.8+)	2000 02 11	704	0.7+	0.4−	2000 03 08	704	0.0	0.6+
1998 10 29	704	1.2−	1.3−	2000 02 13	120	0.2+	0.1−	2000 03 08	704	0.4+	0.3+
1998 10 29	704	0.3+	0.8+	2000 02 13	120	0.7+	0.7−	2000 03 09	704	0.2+	0.4−
1998 10 29	704	1.1+	1.4−	2000 02 23	120	0.5−	0.3+	2000 03 09	704	0.1−	0.2−
1998 10 29	704	1.0−	0.5+	2000 02 23	120	0.7−	0.2−	2000 03 09	704	0.3+	0.1+
1998 11 10	704	0.6+	1.4+	2000 02 23	120	0.4+	0.2−	2000 03 09	704	0.1+	0.3−
1998 11 10	704	0.3+	0.4+	2000 02 25	703	0.4−	0.2+	2000 03 09	704	0.0	0.3+
1998 11 10	704	1.4+	0.5−	2000 02 25	703	0.1+	0.1−	2000 03 11	704	0.1+	0.1−
1998 11 10	704	0.9−	1.6−	2000 02 25	703	0.1−	0.4+	2000 03 11	704	0.5−	0.0
2000 01 05	704	0.3−	0.5+	2000 02 25	703	0.3−	0.8+	2000 03 11	704	0.2−	0.4+
2000 01 05	704	1.0+	1.1−	2000 02 29	704	0.1+	0.1−	2000 03 11	704	0.1−	0.5+
2000 01 05	704	0.8+	0.3+	2000 02 29	704	0.1+	0.1−	2000 03 11	699	0.0	0.5+
2000 02 05	120	0.6−	0.4−	2000 02 29	704	0.1+	0.2−				

2000 CQ₇₆ = 1977 DE₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	45.09073	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.17196381	ω 38.96703	−0.12106990	−0.99224513		
<i>a</i>	3.2026638	Ω 58.00377	+0.90223262	−0.12181769		
<i>e</i>	0.1720813	<i>i</i> 1.90124	+0.41390625	−0.02469914		
<i>P</i>	5.73	<i>H</i> 14.1	<i>G</i> 0.15	<i>U</i> 3		

Residuals in seconds of arc

1977 02 18	381	(0.1+	3.3+)	2000 02 04	704	0.4−	0.1−	2000 03 05	704	0.4+	0.2+
1977 02 18	381	0.1−	1.1+	2000 02 10	120	0.6−	0.3−	2000 03 05	704	0.4+	0.5+
1977 02 19	381	0.7+	0.4+	2000 02 10	120	0.5−	0.7+	2000 03 05	704	0.3+	0.3+
1977 02 19	381	0.3+	0.7+	2000 02 10	120	1.0−	0.5+	2000 03 05	704	0.2−	0.5−
1998 11 10	704	0.1+	0.9+	2000 02 10	120	0.6−	0.5−	2000 03 05	120	0.7−	0.7+
1998 11 10	704	0.3−	0.0	2000 02 11	704	0.5−	1.1−	2000 03 05	120	0.9+	0.2−
1998 11 10	704	0.4+	1.1−	2000 02 11	704	0.0	1.0−	2000 03 05	120	0.2+	0.1−
1998 11 10	704	1.1−	0.0	2000 02 11	704	1.9−	0.6−	2000 03 08	704	0.2−	0.3−
1998 11 10	704	(6.0−	0.8−)	2000 02 11	704	(2.9−	1.1−)	2000 03 08	704	1.1+	0.1+
1998 11 11	704	0.1−	0.3−	2000 02 13	120	0.8−	0.5−	2000 03 08	704	0.1−	0.0
1998 11 11	704	0.0	0.8−	2000 02 13	120	0.2+	0.0	2000 03 08	704	1.2+	0.1+
1998 11 11	704	1.8+	1.3−	2000 02 25	703	0.1+	0.8+	2000 03 08	704	1.0+	0.5−
1998 11 11	704	0.3−	0.6+	2000 02 25	703	0.4+	0.4−	2000 03 09	704	0.3+	0.0
1998 11 11	699	0.7+	0.4+	2000 02 25	703	0.3+	0.2−	2000 03 09	704	0.0	0.1−
1998 11 11	704	(3.1−	2.2+)	2000 02 25	703	0.2−	0.2−	2000 03 09	704	0.0	0.4−
1998 11 11	699	0.0	0.0	2000 02 27	120	0.2+	0.4+	2000 03 09	704	0.4−	0.6−
1998 11 11	699	0.1−	0.3+	2000 02 27	120	0.0	0.0	2000 03 09	704	0.4+	0.3−
1998 11 14	691	1.1−	0.3+	2000 02 28	120	0.9+	0.1−	2000 03 11	704	0.3−	0.1+
1998 11 14	691	1.0−	0.6+	2000 02 28	120	(2.3−	0.7−)	2000 03 11	704	0.0	0.2−
1998 11 14	691	1.1−	0.2+	2000 03 02	120	0.2−	0.4+	2000 03 11	704	0.7−	0.1+
1998 11 24	699	0.8+	0.2−	2000 03 02	120	0.3+	0.2+	2000 03 11	699	0.2−	0.2+
1998 11 24	699	0.5+	0.1−	2000 03 02	120	0.5+	0.0	2000 03 11	704	0.1+	0.2−
1998 11 24	699	0.9+	0.6+	2000 03 02	120	0.3−	0.2+	2000 03 11	704	0.2−	0.3−
2000 02 04	704	0.6−	0.1−	2000 03 02	120	0.3−	1.0−	2000 03 11	699	0.4−	0.1+
2000 02 04	704	1.2+	0.6−	2000 03 02	120	0.2−	1.3+	2000 03 11	699	0.0	0.5+
2000 02 04	704	0.1+	0.2−	2000 03 05	704	0.4+	0.4+	2000 03 11	699	0.6−	0.4+

2000 CV₇₆ = 1993 FQ₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27504514	ω	136.91165	−0.83640013	−0.54806261		
<i>a</i>	2.3417116	Ω	9.86323	+0.48955144	−0.75342234		
<i>e</i>	0.1440770	<i>i</i>	2.63867	+0.24652425	−0.36329347		
<i>P</i>	3.58	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 21	809	1.0−	0.5−	2000 02 13	120	0.7−	0.4+	2000 03 03	704	0.7+	0.3−
1993 03 22	809	0.6−	0.2−	2000 02 13	120	0.0	0.3+	2000 03 03	704	0.8+	0.5−
1993 04 16	413	1.6+	0.8+	2000 02 23	120	0.6−	0.7−	2000 03 03	704	0.7+	0.7−
2000 02 04	704	0.8−	1.3−	2000 02 23	120	1.4−	0.3+	2000 03 03	704	0.4+	1.9+
2000 02 04	704	0.6+	0.1+	2000 02 23	120	0.2+	0.2−	2000 03 11	699	0.3−	0.3−
2000 02 04	704	1.0+	0.0	2000 02 27	120	0.4+	1.2+	2000 03 11	699	0.0	1.0−
2000 02 10	120	0.1−	0.6+	2000 02 27	120	0.5+	0.1+	2000 03 11	699	0.4−	0.4−
2000 02 10	120	0.7+	0.0	2000 02 28	120	1.8−	0.7−	2000 03 11	699	0.8−	0.2−
2000 02 10	120	1.3+	1.6+	2000 02 28	120	0.5−	0.0				
2000 02 10	120	0.6−	0.5−	2000 03 03	704	0.9+	0.0				

2000 CW₇₆ = 1991 TR₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28808952	ω	338.71024	+0.82041489	+0.57108439		
<i>a</i>	2.2704803	Ω	346.35563	−0.50597759	+0.70236658		
<i>e</i>	0.1472453	<i>i</i>	6.80825	−0.26628195	+0.42490446		
<i>P</i>	3.42	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1991 10 04	033	0.3+	0.3−	2000 02 06	104	0.4−	1.2+	2000 03 03	704	0.8+	0.4−
1991 10 05	033	0.4−	0.1−	2000 02 06	104	0.3−	0.7+	2000 03 03	704	0.3+	0.4−
1991 10 05	033	0.3+	0.0	2000 02 06	104	0.8+	1.2−	2000 03 03	704	0.7+	0.4−
1998 11 14	704	0.4−	0.2+	2000 02 10	120	1.4−	0.2+	2000 03 11	704	0.5+	0.0
1998 11 14	704	0.3+	1.0−	2000 02 10	120	0.1−	0.7−	2000 03 11	704	0.2+	1.1−
1998 11 14	704	0.7+	0.7−	2000 02 10	120	0.9−	0.2+	2000 03 11	704	0.0	0.3−
1998 11 14	704	0.1−	0.3+	2000 02 10	120	(3.6−	2.4−)	2000 03 11	699	0.9−	0.0
1998 11 14	704	(5.6−	0.6−)	2000 02 29	704	0.2+	0.1+	2000 03 11	704	0.3+	0.3−
1998 11 16	704	1.0+	1.1+	2000 02 29	704	0.1+	0.3+	2000 03 11	704	0.8+	0.4−
1998 11 16	704	0.8−	0.2+	2000 02 29	704	0.2−	0.5+	2000 03 11	699	1.0−	0.8+
1998 11 16	704	0.9−	0.2+	2000 02 29	704	0.2+	0.2+	2000 03 11	699	0.6−	0.7+
1998 11 16	704	(2.8+	2.0+)	2000 03 03	704	0.8+	0.1+	2000 03 11	699	0.7−	0.9+
1998 11 16	704	(4.2−	1.0+)	2000 03 03	704	0.4+	0.8−				

2000 CY₇₆ = 1993 RS₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23739152	ω	230.72451	−0.73984411	+0.67137711		
<i>a</i>	2.5832072	Ω	351.14409	−0.49708423	−0.58896655		
<i>e</i>	0.1706001	<i>i</i>	16.37377	−0.45336294	−0.44985684		
<i>P</i>	4.15	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 15	809	0.1+	0.2+	2000 02 06	704	0.2+	0.8+	2000 03 03	704	0.3−	0.1−
1993 09 15	809	0.2−	0.0	2000 02 10	120	0.5−	0.8−	2000 03 03	704	0.4−	0.1−
1993 09 15	809	0.6−	1.1−	2000 02 10	120	0.3−	0.2−	2000 03 03	704	0.2−	0.2−
1993 09 22	809	1.2+	1.1+	2000 02 11	120	0.9−	0.6−	2000 03 04	704	0.0	0.2+
1993 09 22	809	0.2−	1.3+	2000 02 11	120	0.1−	0.1−	2000 03 04	704	0.3+	0.1−
1993 09 22	809	0.9−	0.8−	2000 02 11	704	0.8+	0.5+	2000 03 04	704	0.6+	0.3−
2000 01 04	704	0.6−	0.6+	2000 02 11	704	1.6+	0.3+	2000 03 04	704	0.4+	0.5−
2000 01 04	704	0.8−	0.1+	2000 02 11	704	(2.1+	0.7+)	2000 03 04	704	0.5+	0.6−
2000 01 04	704	0.3−	0.5+	2000 02 11	704	0.6−	1.0+	2000 03 11	699	0.4+	0.0
2000 01 04	704	1.0+	0.1+	2000 02 14	120	1.0−	0.1+	2000 03 11	699	0.2+	0.6+
2000 02 01	703	0.5+	1.4−	2000 02 14	120	0.2−	0.1+	2000 03 11	699	0.1+	0.6+
2000 02 01	703	1.3+	0.5−	2000 02 26	703	0.5+	0.3−	2000 03 11	699	0.2+	0.3+
2000 02 01	703	0.1+	0.3−	2000 02 26	703	0.1−	0.2+	2000 03 15	704	0.1+	0.8+

2000 02 01	703	1.0−	0.1+	2000 02 26	703	0.2+	0.1+	2000 03 15	704	0.8−	0.4+
2000 02 06	704	0.1−	0.1+	2000 02 26	703	0.4−	0.4−	2000 03 15	704	0.5+	0.0
2000 02 06	704	0.1+	0.0	2000 03 03	704	0.2−	0.3+	2000 03 15	704	(2.2−	1.3+)
2000 02 06	704	0.3−	0.1−	2000 03 03	704	0.0	0.2−				

2000 CC₇₇ = 1998 XB₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18385321	ω	316.70096	−0.50754743	−0.85997633		
<i>a</i>	3.0630581	Ω	163.56920	+0.83295999	−0.50553487		
<i>e</i>	0.0590359	<i>i</i>	10.85258	+0.22039344	−0.06982267		
<i>P</i>	5.36	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.9−	0.5−	2000 02 11	120	1.6−	0.4+	2000 03 02	703	0.3+	0.1+
1998 12 15	704	1.7+	0.3−	2000 02 14	120	0.7−	0.1−	2000 03 02	703	0.1+	0.0
1998 12 15	704	0.2−	0.0	2000 02 14	120	1.0+	0.1+	2000 03 03	704	0.1−	0.1+
1998 12 15	704	0.4+	0.6+	2000 02 26	703	1.3−	0.8+	2000 03 03	704	0.1+	0.2−
1998 12 22	704	0.2+	0.4−	2000 02 26	703	0.9+	0.4−	2000 03 03	704	0.0	0.4−
1998 12 22	704	0.5−	0.5−	2000 02 26	703	1.3+	0.2+	2000 03 03	704	0.1−	0.4−
1998 12 22	704	1.0−	0.2−	2000 02 26	703	0.3−	0.8+	2000 03 03	704	0.4−	1.0−
1998 12 22	704	1.5+	0.6+	2000 02 29	704	0.5−	0.2+	2000 03 12	704	0.1+	0.2−
1998 12 22	704	1.1−	0.6+	2000 02 29	704	0.4+	0.6+	2000 03 12	704	0.2−	0.3−
2000 02 10	120	0.6+	0.2−	2000 02 29	704	0.2+	1.1+	2000 03 12	704	0.3+	0.1+
2000 02 10	120	0.5+	0.9−	2000 03 02	703	0.1−	0.3−	2000 03 12	704	0.2−	0.2−
2000 02 11	120	0.3−	0.2−	2000 03 02	703	0.2+	0.4+	2000 03 12	704	0.0	0.2−

2000 CG₇₇ = 1998 XE₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21385463	ω	332.83450	+0.86299041	+0.50521507		
<i>a</i>	2.7694293	Ω	356.81706	−0.45569053	+0.77641432		
<i>e</i>	0.0556871	<i>i</i>	2.37181	−0.21815976	+0.37674731		
<i>P</i>	4.61	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 08 30	566	0.2−	0.3−	2000 02 11	120	0.6−	0.3−	2000 03 03	704	0.1+	0.5+
1997 08 30	566	0.0	0.4−	2000 02 11	704	0.8+	0.0	2000 03 03	704	0.2+	0.8+
1997 08 30	566	0.5+	0.2−	2000 02 11	704	0.4+	0.5−	2000 03 03	704	0.7+	0.0
1998 12 14	704	(0.5+	2.5+)	2000 02 11	704	0.5+	0.3−	2000 03 08	704	0.4−	0.1−
1998 12 14	704	0.0	0.2−	2000 02 11	704	(2.0+	2.2−)	2000 03 08	704	0.1+	1.0+
1998 12 14	704	0.6−	0.4+	2000 02 14	120	0.7−	0.3−	2000 03 08	704	0.2+	0.3+
1998 12 14	704	0.4−	0.5+	2000 02 14	120	0.8−	1.0−	2000 03 08	704	0.4+	0.3−
1998 12 14	704	1.9−	1.5+	2000 02 24	120	0.0	0.2−	2000 03 08	704	0.8+	0.6−
1998 12 16	704	0.3+	1.5+	2000 02 24	120	1.7−	0.8−	2000 03 11	704	0.4+	0.2+
1998 12 16	704	1.0+	0.0	2000 02 24	120	1.1+	0.9−	2000 03 11	699	0.1−	0.1+
1998 12 16	704	(1.5−	3.0+)	2000 02 27	703	0.1+	0.5+	2000 03 11	704	0.4+	0.6+
1998 12 16	704	(1.2−	4.1+)	2000 02 27	703	0.1+	0.4+	2000 03 11	704	0.2+	0.5+
1998 12 16	704	(0.9−	4.2+)	2000 02 27	703	0.1+	0.8+	2000 03 11	699	0.5−	0.1+
1998 12 17	704	0.1−	0.2+	2000 02 27	703	0.0	0.7+	2000 03 11	704	0.4+	0.6+
1998 12 17	704	0.9+	1.5−	2000 02 27	120	1.0+	0.2−	2000 03 11	699	0.2−	0.2+
1998 12 17	704	0.0	0.9−	2000 02 27	120	0.4−	0.8−	2000 03 11	704	0.2+	0.7+
1998 12 17	704	1.0+	0.8−	2000 02 28	120	0.9−	0.7−	2000 03 11	699	0.3−	0.2+
2000 01 04	704	1.1−	0.8+	2000 02 29	704	0.0	0.2−	2000 03 15	704	0.4+	0.6−
2000 01 04	704	0.5−	0.2+	2000 02 29	704	0.0	0.0	2000 03 15	704	0.4+	0.4+
2000 01 04	704	0.1−	0.9−	2000 02 29	704	0.1+	0.5−	2000 03 15	704	0.3+	0.3+
2000 01 04	704	0.5−	0.5−	2000 02 29	704	0.0	0.2+	2000 03 15	704	0.1+	0.7+
2000 02 10	120	0.7−	0.2−	2000 02 29	704	0.8−	0.4−	2000 03 15	704	0.4+	0.2+
2000 02 10	120	0.8−	0.7−	2000 03 03	704	0.5+	0.3+				
2000 02 11	120	0.7−	1.2−	2000 03 03	704	0.2+	0.9−				

2000 MAR. 20

M.P.C. 39413

2000 CM₇₇ = 1994 RE₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	226.78424			(2000.0)	P			Q			
<i>n</i>	0.27781606	ω	330.22053		+0.46557766		+0.88458802				
<i>a</i>	2.3261148	Ω	327.50488		−0.80163584		+0.40848175				
<i>e</i>	0.2436924	<i>i</i>	2.90537		−0.37498991		+0.22504821				
<i>P</i>	3.55	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5				
Residuals in seconds of arc											
1994 09 01	033	0.1+	0.1−	2000 02 29	704	0.2−	0.7+	2000 03 03	704	0.2+	0.0
1994 09 02	033	0.6+	0.2−	2000 02 29	704	0.5−	0.0	2000 03 03	704	0.3−	0.3−
1994 09 04	033	0.6−	0.1+	2000 03 02	691	0.8+	1.0−	2000 03 05	704	0.2+	0.1−
2000 02 08	684	0.4−	0.3+	2000 03 02	691	0.5+	0.3−	2000 03 05	704	0.5−	0.8−
2000 02 08	684	0.1−	0.1−	2000 03 02	691	0.6+	0.9−	2000 03 05	704	0.4+	0.0
2000 02 08	684	0.1+	0.1+	2000 03 02	691	0.5+	0.3−	2000 03 05	704	0.1+	1.2+
2000 02 11	684	0.3−	0.4+	2000 03 02	691	0.4+	0.3−	2000 03 05	704	1.3+	0.4+
2000 02 11	684	0.3−	0.3+	2000 03 02	691	0.3+	0.3−	2000 03 11	691	0.8−	0.3+
2000 02 29	704	0.1+	0.4+	2000 03 03	704	0.3−	0.5−	2000 03 11	691	1.8−	0.2+
2000 02 29	704	1.1+	0.3+	2000 03 03	704	0.6+	0.1+	2000 03 11	691	0.5−	0.2+
2000 02 29	704	0.8−	0.4+	2000 03 03	704	0.5−	0.9−				

2000 CV₇₇ = 1979 QN₃ = 1993 FP₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	255.47206		(2000.0)		P		Q				
<i>n</i>	0.27001630	ω	330.22550		+0.17966946		+0.98297795				
<i>a</i>	2.3706970	Ω	310.09714		−0.89235088		+0.14643413				
<i>e</i>	0.2124502	<i>i</i>	2.87612		−0.41403961		+0.11095676				
<i>P</i>	3.65	<i>H</i>	15.3	<i>G</i>	0.15		<i>U</i>	4			
Residuals in seconds of arc											
1979 08 22	809	(0.8−	5.4−)	2000 02 11	691	0.7−	0.6−	2000 03 03	704	0.5+	0.2+
1979 08 22	809	(0.1+	4.2−)	2000 02 11	691	0.9−	0.6−	2000 03 03	704	0.3+	0.3−
1979 08 22	809	(0.8−	4.3−)	2000 02 25	703	0.0	0.6+	2000 03 03	704	0.3+	0.2+
1979 08 23	809	1.2+	0.9−	2000 02 25	703	0.8−	0.3+	2000 03 03	704	0.2+	0.3+
1979 08 23	809	0.2+	2.2−	2000 02 25	703	0.5+	0.1−	2000 03 03	704	0.2−	0.1−
1993 03 21	809	0.4−	0.1−	2000 02 25	703	0.0	0.0	2000 03 11	704	1.2−	0.6−
1993 03 22	809	0.4+	0.4+	2000 02 29	704	0.1+	1.0+	2000 03 11	704	0.9−	0.1+
2000 02 07	691	0.4−	0.6−	2000 02 29	704	0.2+	0.6−	2000 03 11	704	0.6+	0.4−
2000 02 07	691	0.3−	0.6−	2000 02 29	704	0.2+	0.4+	2000 03 11	704	0.4−	1.4−
2000 02 07	691	0.6−	0.5−	2000 02 29	704	1.1+	0.2−				
2000 02 11	691	0.7−	0.4−	2000 02 29	704	1.2+	0.3−				

2000 CW₇₇ = 1993 FB₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	31.85804		(2000.0)		P		Q				
<i>n</i>	0.27304293	ω	158.22803		−0.47584768		−0.87739134				
<i>a</i>	2.3531454	Ω	320.11567		+0.79219928		−0.39729915				
<i>e</i>	0.0673447	<i>i</i>	5.48251		+0.38208545		−0.26895693				
<i>P</i>	3.61	<i>H</i>	15.4		<i>G</i>	0.15	<i>U</i>	5			
Residuals in seconds of arc											
1993 03 21	809	(3.3−	0.1+)	2000 02 29	704	0.6−	0.2+	2000 03 11	704	0.2−	0.5−
1993 03 22	809	0.5−	0.2−	2000 02 29	704	0.3+	0.2+	2000 03 11	704	0.6−	0.0
1993 03 26	809	0.5+	0.3+	2000 02 29	704	0.4+	0.6+	2000 03 11	704	0.1+	0.5−
2000 02 07	691	0.3+	0.1−	2000 02 29	704	0.5+	0.6+	2000 03 11	704	0.0	0.0
2000 02 07	691	0.5+	0.2−	2000 03 03	704	0.2−	0.2+	2000 03 11	699	0.5−	0.3+
2000 02 07	691	0.3+	0.1+	2000 03 03	704	0.2+	0.4+	2000 03 11	699	0.1−	0.0
2000 02 11	691	0.7−	0.1−	2000 03 03	704	0.3+	0.1+	2000 03 11	699	0.4+	0.0
2000 02 11	691	0.2−	0.1−	2000 03 03	704	0.1+	0.5−	2000 03 11	699	0.4−	0.9−
2000 02 11	691	0.5−	0.2−	2000 03 03	704	1.0+	0.7+				
2000 02 29	704	0.1−	0.2+	2000 03 11	704	0.2−	0.5−				

2000 CZ₇₇ = 1993 XX₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	192.61008			(2000.0)	P		Q				
n	0.19506633	ω	118.26584		+0.80866853		+0.58819628				
a	2.9445199	Ω	205.70815		−0.54670306		+0.74582248				
e	0.0652291	i	1.18399		−0.21718879		+0.31268829				
P	5.05 <th>H</th> <td>14.5<th>G</th><td>0.15<th>U</th><td>6<td colspan="3"></td></td></td></td>	H	14.5 <th>G</th> <td>0.15<th>U</th><td>6<td colspan="3"></td></td></td>	G	0.15 <th>U</th> <td>6<td colspan="3"></td></td>	U	6 <td colspan="3"></td>				
Residuals in seconds of arc											
1993 12 14	381	0.1−	0.1+	2000 02 11	691	0.6−	0.3−	2000 03 05	704	1.2−	0.5−
1993 12 14	381	0.1−	0.4−	2000 02 29	704	0.5+	0.9+	2000 03 05	704	0.3−	0.2+
1993 12 14	381	1.3−	0.5+	2000 02 29	704	0.0	1.2+	2000 03 05	704	0.3+	0.1−
1993 12 15	381	1.1+	0.0	2000 02 29	704	1.3+	1.3+	2000 03 05	704	0.3−	0.9+
1993 12 15	381	0.0	0.0	2000 02 29	704	0.1+	0.9+	2000 03 11	704	0.6−	0.5−
1993 12 15	381	0.4+	0.1−	2000 02 29	704	0.7+	1.0+	2000 03 11	704	0.1−	0.8−
2000 02 07	691	0.0	0.4−	2000 03 03	704	0.8+	0.0	2000 03 11	704	0.3−	0.4−
2000 02 07	691	0.2+	0.4−	2000 03 03	704	0.1−	0.1+	2000 03 11	704	0.1−	0.4−
2000 02 07	691	0.0	0.6−	2000 03 03	704	0.1−	0.0	2000 03 11	704	0.4−	0.8−
2000 02 11	691	0.7−	0.3−	2000 03 03	704	0.3+	0.3+				
2000 02 11	691	0.7−	0.6−	2000 03 03	704	1.2+	0.7−				

2000 CM₇₈ = 1997 NK₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	97.36963		(2000.0)		P		Q				
n	0.17008865		ω	256.37889		+0.74417472	−0.66773674				
a	3.2261594		Ω	145.50843		+0.62462517	+0.68594850				
e	0.1764313		i	1.84286		+0.23674328	+0.28914062				
P	5.79 <th>H</th> <td>13.0</td> <th>G</th> <td>0.15</td> <th>U</th> <td colspan="3">4</td>		H	13.0	G	0.15	U	4			
Residuals in seconds of arc											
1997 07 09	327	0.8−	0.6−	2000 02 07	691	0.8−	1.1−	2000 02 29	704	0.1+	0.8+
1997 07 09	327	0.0	0.0	2000 02 07	691	0.2+	0.5−	2000 02 29	704	0.1−	0.4−
1997 07 09	327	0.8+	1.4+	2000 02 11	704	0.5+	1.1+	2000 03 03	704	0.5−	0.3+
1997 07 10	327	0.5+	0.9−	2000 02 11	704	0.1+	0.3+	2000 03 03	704	0.0	0.8+
1997 07 10	327	0.1+	0.3+	2000 02 11	704	0.0	0.2+	2000 03 03	704	0.1−	0.8+
1997 07 10	327	0.6−	0.3−	2000 02 11	704	0.0	0.2+	2000 03 03	704	0.1+	0.8+
1997 08 22	327	0.2+	0.2+	2000 02 11	704	0.6+	0.3+	2000 03 03	704	0.3−	0.9+
1997 08 22	327	0.4−	0.3+	2000 02 11	691	0.4−	0.5−	2000 03 11	704	0.7−	1.6−
1997 08 22	327	0.3+	0.0	2000 02 11	691	0.3−	0.5−	2000 03 11	704	0.6+	0.3−
2000 02 06	704	0.9+	0.1−	2000 02 11	691	0.6−	0.5−	2000 03 11	704	0.4+	1.0−
2000 02 06	704	0.2+	0.5+	2000 02 29	704	0.3+	0.4+	2000 03 11	704	0.1−	0.8−
2000 02 06	704	0.5+	1.0+	2000 02 29	704	0.5+	0.4+	2000 03 11	704	0.5−	0.8−
2000 02 07	691	0.0	0.5−	2000 02 29	704	0.3−	0.4+				

2000 CF₇₉ = 1998 RH₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	136.14661		(2000.0)		P		Q				
n	0.26975832	ω	205.86619		+0.99974462		−0.00216469				
a	2.3722083	Ω	154.22782		+0.01000082		+0.93500284				
e	0.1769845	i	2.96557		−0.02026500		+0.35463363				
P	3.65	H	16.9		G	0.15	U	5			
Residuals in seconds of arc											
1998 09 14	704	1.2+	0.3−	1998 09 18	704	0.5−	0.0	2000 03 02	691	0.2−	0.4−
1998 09 14	704	0.1+	0.5+	2000 02 08	691	0.1+	0.0	2000 03 02	691	0.2−	0.2+
1998 09 14	704	0.0	1.6−	2000 02 08	691	0.8+	0.1+	2000 03 04	691	0.3+	0.7−
1998 09 14	704	1.4+	0.1+	2000 02 08	691	0.4+	0.3+	2000 03 04	691	0.1+	0.8−
1998 09 18	704	0.0	1.1−	2000 02 11	691	0.4−	0.3+	2000 03 04	691	0.3+	0.1−
1998 09 18	704	1.8−	0.1+	2000 02 11	691	0.5−	0.1+	2000 03 12	691	0.6−	0.4−
1998 09 18	704	1.4−	1.3+	2000 02 11	691	0.1−	0.8+	2000 03 12	691	0.1−	0.0
1998 09 18	704	1.1+	0.5+	2000 03 02	691	0.1−	0.1−	2000 03 12	691	0.0	0.0

2000 CS₇₉ = 1996 EU₄ = 1997 MJ₉ = 1998 XP₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	167.04668		(2000.0)		P		Q
<i>n</i>	0.23669273	ω	177.36015	+0.97603310	+0.21733990		
<i>a</i>	2.5882890	Ω	170.06612	-0.20082255	+0.91913351		
<i>e</i>	0.2836442	<i>i</i>	3.68225	-0.08384322	+0.32856804		
<i>P</i>	4.16	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1996 03 11	691	0.3+	0.0	1998 12 16	704	1.1+	1.3+	2000 02 29	704	0.3+	0.7+
1996 03 11	691	0.1+	0.1-	1998 12 16	704	0.6-	1.5-	2000 02 29	704	0.4+	0.2+
1996 03 11	691	0.4+	0.2+	1998 12 16	704	0.4-	0.1-	2000 02 29	704	0.6+	0.4+
1996 03 18	691	0.4-	0.1-	1998 12 16	704	(2.0-	3.1-)	2000 03 03	704	0.4+	0.4+
1996 03 18	691	0.3-	0.1+	1998 12 22	704	1.4+	1.0+	2000 03 03	704	0.8+	0.1+
1996 03 18	691	0.2-	0.2-	1998 12 22	704	0.1-	0.0	2000 03 03	704	0.2-	0.1-
1997 06 26	691	0.3-	0.2+	1998 12 22	704	1.6-	1.1+	2000 03 03	704	0.8+	0.3+
1997 06 26	691	0.8+	0.1+	1998 12 22	704	0.8-	1.2+	2000 03 03	704	0.4+	0.0
1997 06 26	691	0.3-	0.1-	1998 12 22	704	(0.8-	2.7-)	2000 03 09	704	0.9-	0.3+
1997 07 08	691	0.1-	0.1-	2000 02 08	691	0.5-	0.1-	2000 03 09	704	0.2+	0.2+
1997 07 08	691	0.1-	0.2+	2000 02 08	691	0.2-	0.3-	2000 03 09	704	0.3+	0.4-
1997 07 08	691	0.0	0.1-	2000 02 08	691	0.4-	0.3-	2000 03 09	704	0.4+	1.2-
1998 12 15	704	0.8+	1.7-	2000 02 11	691	0.2-	0.3-	2000 03 15	691	0.4-	0.4-
1998 12 15	704	0.5+	0.8-	2000 02 11	691	0.6-	0.1+	2000 03 15	691	0.2-	0.3-
1998 12 15	704	0.7-	0.4-	2000 02 11	691	0.6-	0.2-	2000 03 15	691	0.4-	0.4-
1998 12 16	704	0.5+	0.1+	2000 02 29	704	0.1+	1.3+				

2000 CX₇₉ = 1998 SB₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	61.93291		(2000.0)		P		Q
<i>n</i>	0.26692477	ω	279.61598	+0.15598268	-0.98773451		
<i>a</i>	2.3889669	Ω	161.40575	+0.91472272	+0.14174511		
<i>e</i>	0.1563782	<i>i</i>	1.27004	+0.37276231	+0.06548946		
<i>P</i>	3.69	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 19	691	0.3-	0.1-	2000 02 29	704	0.2+	0.3-	2000 03 04	691	0.8-	0.9-
1998 09 19	691	0.1-	0.2+	2000 02 29	704	0.2+	0.6-	2000 03 05	704	0.2-	0.6+
1998 09 19	691	0.0	0.0	2000 03 03	704	0.1-	0.4+	2000 03 05	704	0.1+	1.0-
1998 09 24	691	0.1-	0.1+	2000 03 03	704	0.1+	0.4+	2000 03 05	704	0.5+	0.5-
1998 09 24	691	0.1+	0.1+	2000 03 03	704	0.0	1.3+	2000 03 05	704	0.7-	0.8-
1998 09 24	691	0.3+	0.0	2000 03 03	704	0.4+	1.8+	2000 03 05	704	1.7+	0.3-
2000 02 08	691	0.2+	0.3-	2000 03 03	704	0.2-	0.6+	2000 03 09	704	2.0+	0.6-
2000 02 08	691	0.1-	0.2-	2000 03 04	704	0.1-	0.2-	2000 03 09	704	0.1+	0.9-
2000 02 08	691	0.2-	0.1-	2000 03 04	704	0.4+	1.2+	2000 03 09	704	0.7+	1.3+
2000 02 11	691	0.3-	0.2-	2000 03 04	704	0.4+	0.4+	2000 03 09	704	0.1+	0.6+
2000 02 11	691	0.1-	0.1-	2000 03 04	704	0.5+	0.5+	2000 03 11	704	1.4-	0.3-
2000 02 11	691	0.2-	0.0	2000 03 04	704	0.6+	0.0	2000 03 11	704	0.9-	0.3+
2000 02 29	704	0.2+	0.0	2000 03 04	691	0.9-	0.1-	2000 03 11	704	0.6+	1.3-
2000 02 29	704	0.0	1.1+	2000 03 04	691	0.9-	0.8-	2000 03 11	704	2.0-	0.8-

2000 CB₈₀ = 1991 PS₂₆ = 1997 TC₃₀ = 1997 UB₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	249.62225		(2000.0)		P		Q
<i>n</i>	0.19074998	ω	311.97268	+0.31784014	+0.94812734		
<i>a</i>	2.9887738	Ω	336.55786	-0.86563294	+0.28773344		
<i>e</i>	0.1637479	<i>i</i>	0.81724	-0.38685560	+0.13514442		
<i>P</i>	5.17	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 08 05	809	1.0+	1.6-	2000 02 08	691	0.0	0.7-	2000 03 10	704	0.2+	0.2+
1991 08 05	809	0.4+	1.1-	2000 02 11	691	0.4-	0.6-	2000 03 10	704	0.5-	0.7+
1991 08 05	809	0.6-	0.7-	2000 02 11	691	0.8-	0.4-	2000 03 10	704	0.6+	0.4+
1997 10 11	691	0.2+	0.5-	2000 02 11	691	0.6-	0.5-	2000 03 10	704	0.5+	0.1-
1997 10 11	691	0.2+	0.2-	2000 02 29	704	0.3+	0.4+	2000 03 11	704	0.2+	0.4-
1997 10 11	691	0.5+	0.2-	2000 02 29	704	1.1-	0.5-	2000 03 11	704	0.3+	0.1-

1997 10 23	691	0.1-	0.3-	2000 02 29	704	0.0	0.4-	2000 03 11	704	0.2-	0.4-
1997 10 23	691	0.0	0.3-	2000 02 29	704	0.2-	0.4-	2000 03 11	704	0.9+	0.0
1997 10 23	691	0.0	0.6-	2000 03 03	704	0.4-	0.3-	2000 03 11	704	0.2+	0.5+
1997 11 02	691	0.0	0.3-	2000 03 03	704	0.5+	0.3-	2000 03 11	699	0.5-	0.4-
1997 11 02	691	0.0	0.1-	2000 03 03	704	0.6+	0.0	2000 03 11	699	0.1+	0.2-
1997 11 02	691	0.2+	0.1-	2000 03 03	704	0.1+	0.0	2000 03 11	699	0.2-	0.0
2000 02 08	691	0.1-	0.7-	2000 03 03	704	0.1+	0.3+	2000 03 11	699	0.7-	0.4-
2000 02 08	691	0.1+	0.6-	2000 03 10	704	1.1-	0.2-				

2000 CG₈₀ = 1998 SV₁₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	92.85025		(2000.0)		P		Q
<i>n</i>	0.25277105	ω	264.91881	+0.52484256	-0.84963461		
<i>a</i>	2.4773336	Ω	153.22463	+0.81928867	+0.48779905		
<i>e</i>	0.1002060	<i>i</i>	6.57562	+0.23088172	+0.20043235		
<i>P</i>	3.90	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.5+	0.1-	2000 02 08	691	0.3+	0.3-	2000 03 03	704	0.1-	0.1-
1998 09 26	704	(1.1+	2.6-)	2000 02 08	691	0.1+	0.0	2000 03 03	704	0.2-	0.2-
1998 09 26	704	0.9+	1.5-	2000 02 11	691	0.1-	0.2-	2000 03 03	704	0.4-	0.1+
1998 09 26	704	0.5-	1.6-	2000 02 11	691	0.5-	0.3-	2000 03 03	704	0.3+	0.4+
1998 09 27	704	0.9+	0.8+	2000 02 11	691	0.3-	0.9+	2000 03 03	704	0.1+	0.1+
1998 09 27	704	1.3-	1.1+	2000 02 29	704	0.1+	1.0+	2000 03 11	704	0.2-	0.1-
1998 09 27	704	1.0-	0.8+	2000 02 29	704	0.6+	1.3-	2000 03 11	704	0.3-	0.1-
1998 09 27	704	0.5+	0.4+	2000 02 29	704	0.3-	0.0	2000 03 11	704	0.0	0.2-
2000 02 08	691	0.2+	0.1-	2000 02 29	704	0.4+	0.2+	2000 03 11	704	0.2+	0.1+

2000 CY₈₀ = 1997 GT₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	282.06661		(2000.0)		P		Q
<i>n</i>	0.30592454	ω	82.51340	-0.09695554	+0.99528614		
<i>a</i>	2.1813558	Ω	181.92706	-0.93763296	-0.09210098		
<i>e</i>	0.1734791	<i>i</i>	3.85646	-0.33383237	-0.03037929		
<i>P</i>	3.22	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 04 11	809	0.7-	0.9-	2000 02 15	732	0.1+	0.5-	2000 03 03	704	0.7+	0.4-
1997 04 11	809	0.5-	0.7-	2000 02 26	732	0.5-	0.9+	2000 03 05	704	0.5-	0.0
1997 04 11	809	0.1-	1.2-	2000 02 26	732	0.3+	1.0+	2000 03 05	704	0.5+	0.4-
1997 04 12	809	0.5-	0.1-	2000 02 26	732	0.1-	0.5+	2000 03 05	704	0.6+	0.6-
1997 04 12	809	0.2-	0.1-	2000 02 27	703	1.4+	0.6+	2000 03 05	649	(3.5+	0.4-)
1997 04 12	809	1.1+	0.3-	2000 02 27	703	0.3+	0.2+	2000 03 05	704	0.5+	0.5-
1998 11 24	704	0.3-	0.3+	2000 02 27	703	1.4-	0.6+	2000 03 05	704	0.6+	0.7-
1998 11 24	704	1.2+	0.3-	2000 02 27	703	0.0	0.1+	2000 03 05	649	1.3+	0.2-
1998 11 24	704	0.7+	0.9-	2000 02 28	732	1.9-	1.0+	2000 03 05	649	0.4+	0.4-
1998 11 24	704	1.1-	1.4-	2000 02 28	732	0.9-	0.2+	2000 03 08	704	0.2+	0.5+
2000 02 11	732	1.7-	0.1+	2000 02 29	704	0.5+	0.1-	2000 03 08	704	1.3+	0.8+
2000 02 11	732	1.2-	0.1-	2000 02 29	704	0.5+	0.5+	2000 03 08	704	0.0	0.1+
2000 02 11	732	0.0	1.8+	2000 02 29	704	0.8+	0.7+	2000 03 08	704	0.2-	0.5-
2000 02 12	732	0.7-	0.8-	2000 02 29	704	0.8+	0.6+	2000 03 11	704	0.2+	0.3+
2000 02 12	732	0.6-	0.3-	2000 02 29	704	0.0	0.5+	2000 03 11	699	0.5-	0.4+
2000 02 12	732	1.2+	0.7-	2000 03 02	732	0.5+	1.2-	2000 03 11	704	0.1+	0.7+
2000 02 13	732	0.6-	1.3-	2000 03 02	732	0.1+	1.3-	2000 03 11	704	0.3+	0.3+
2000 02 13	732	0.4-	0.1+	2000 03 02	732	0.5+	0.9-	2000 03 11	699	0.4-	0.4+
2000 02 13	732	0.1-	0.0	2000 03 03	704	0.3+	0.1-	2000 03 11	704	0.3+	0.6+
2000 02 14	732	1.2-	0.4-	2000 03 03	704	0.5+	0.2+	2000 03 11	699	0.7-	0.2+
2000 02 14	732	0.9-	0.1-	2000 03 03	704	0.3+	0.4-	2000 03 11	704	0.3+	0.5+
2000 02 15	732	0.5-	0.8-	2000 03 03	704	0.5+	0.2-	2000 03 11	699	0.8-	0.2+

2000 MAR. 20

M.P.C. 39415

2000 CB₈₁ = 1993 RV₁₃ = 1998 TJ₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	31.61856		(2000.0)	P		Q	
<i>n</i>	0.21232639	ω	121.44989	-0.27748425	-0.96056736		
<i>a</i>	2.7827022	Ω	344.63016	+0.85725852	-0.23924565		
<i>e</i>	0.0181222	<i>i</i>	3.82635	+0.43371686	-0.14167525		
<i>P</i>	4.64	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 14	809	0.5+	0.6-	2000 02 03	704	0.2+	0.9+	2000 02 26	703	0.4+	1.2+
1993 09 14	809	0.6-	0.6-	2000 02 03	704	0.2-	0.8+	2000 02 26	703	0.5+	0.3+
1993 09 14	809	(2.9-	2.1-)	2000 02 10	819	0.3-	0.4-	2000 02 26	703	0.1+	0.1+
1993 09 19	809	1.4-	1.0+	2000 02 10	819	0.2+	0.2-	2000 02 26	703	0.2-	1.4+
1993 09 19	809	(2.2-	0.5-)	2000 02 10	819	0.3+	0.0	2000 03 04	819	0.2-	0.4+
1993 09 19	809	0.6-	0.2+	2000 02 11	704	0.9+	0.8+	2000 03 04	819	0.6-	0.8+
1993 09 22	809	(2.0+	3.1+)	2000 02 11	704	0.4+	0.6-	2000 03 04	819	0.8+	0.6-
1993 09 22	809	(2.3+	2.6+)	2000 02 11	704	0.2-	0.2+	2000 03 04	704	0.9+	0.5+
1993 09 22	809	1.4+	1.2+	2000 02 11	704	0.2-	0.3+	2000 03 04	704	0.0	0.5+
1998 10 13	910	0.3-	0.4-	2000 02 12	819	0.1-	0.4-	2000 03 04	704	0.2+	0.5+
1998 10 13	910	0.2-	0.4-	2000 02 12	819	0.2-	0.4-	2000 03 04	819	1.1-	0.4+
1998 10 13	910	0.1-	0.5-	2000 02 12	819	0.1-	0.4-	2000 03 04	704	0.2+	0.2+
1998 10 15	910	0.1+	0.2+	2000 02 12	819	0.2+	0.4-	2000 03 04	704	0.6+	0.5+
1998 10 15	910	0.4+	0.1+	2000 02 12	819	0.3-	0.4-	2000 03 06	819	1.2+	0.2+
1998 10 15	910	0.3+	0.2+	2000 02 12	819	0.0	0.6-	2000 03 06	819	0.6-	0.3-
2000 01 06	704	1.8-	1.0+	2000 02 12	819	0.1+	0.3-	2000 03 06	819	0.1+	0.1-
2000 01 06	704	0.2+	1.1-	2000 02 12	819	0.2+	0.7-	2000 03 06	819	0.9-	0.6-
2000 01 06	704	0.3+	0.0	2000 02 21	819	(2.1+	0.4+)	2000 03 07	819	0.8-	0.4-
2000 01 06	704	1.2-	0.5-	2000 02 21	819	0.1-	1.0-	2000 03 07	819	0.7-	0.1-
2000 01 06	704	0.5+	0.6-	2000 02 21	819	0.4+	0.7-	2000 03 07	819	0.6-	0.3-
2000 02 03	704	1.5+	0.6+	2000 02 21	819	0.7-	0.3+	2000 03 07	819	0.3+	1.0-
2000 02 03	704	0.4+	0.4+	2000 02 21	819	0.0	0.9+	2000 03 07	819	0.3-	0.4-

2000 CD₈₁ = 1993 FK₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	57.49898		(2000.0)	P		Q	
<i>n</i>	0.26872219	ω	292.24260	+0.28599979	-0.95617683		
<i>a</i>	2.3783021	Ω	140.96559	+0.91173409	+0.25140779		
<i>e</i>	0.1362546	<i>i</i>	5.71274	+0.29486449	+0.15006664		
<i>P</i>	3.67	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 17	809	0.0	0.8+	2000 02 29	704	0.2+	0.3+	2000 03 04	704	0.2+	0.8+
1993 03 18	809	0.1+	0.5-	2000 02 29	704	0.4+	0.4-	2000 03 04	704	0.7-	0.1+
2000 02 04	704	0.5+	0.5+	2000 02 29	704	0.2+	0.4-	2000 03 05	704	0.6-	0.3+
2000 02 04	704	0.0	0.3+	2000 02 29	704	0.5-	0.0	2000 03 05	704	0.1+	0.0
2000 02 04	704	0.0	0.3-	2000 02 29	704	0.7+	0.0	2000 03 05	704	0.3-	0.1+
2000 02 04	704	0.6+	0.1+	2000 02 29	704	0.2+	0.5+	2000 03 05	704	0.7+	0.6-
2000 02 04	704	0.6-	1.4+	2000 02 29	704	0.3+	0.0	2000 03 05	704	0.4+	1.4-
2000 02 11	704	0.4-	0.6+	2000 02 29	704	0.1+	0.0	2000 03 05	704	0.8+	0.3+
2000 02 11	704	0.8-	0.0	2000 03 03	704	0.0	0.1+	2000 03 05	704	0.3+	0.5-
2000 02 11	704	0.1+	0.6-	2000 03 03	704	0.1+	0.6-	2000 03 05	704	0.4+	0.3-
2000 02 11	704	0.4+	1.1-	2000 03 03	704	0.0	0.5+	2000 03 05	704	1.8+	0.3+
2000 02 11	704	0.4+	0.1-	2000 03 03	704	0.5-	0.1+	2000 03 06	704	0.4-	0.7-
2000 02 26	703	0.9-	0.8+	2000 03 03	704	0.1-	0.1+	2000 03 06	704	0.1+	0.3-
2000 02 26	703	0.2-	0.7-	2000 03 04	704	0.4-	1.4+	2000 03 06	704	0.1-	0.0
2000 02 26	703	0.5-	0.2-	2000 03 04	704	0.0	0.3-	2000 03 06	704	0.5+	0.4-
2000 02 26	703	1.7-	0.3-	2000 03 04	704	0.2-	0.2+				

2000 CN₈₁ = 1998 VZ₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	258.73348		(2000.0)	P		Q	
<i>n</i>	0.30009141	ω	125.65998	-0.01269304	+0.99884246		
<i>a</i>	2.2095322	Ω	143.52831	-0.94078700	+0.00379023		
<i>e</i>	0.1874896	<i>i</i>	4.47663	-0.33876054	-0.04795172		
<i>P</i>	3.28	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 14	699	0.0	1.7+	2000 02 27	703	0.5-	0.5+	2000 03 05	704	0.2+	0.2+
1998 10 14	699	0.3+	0.2+	2000 02 27	703	0.2-	0.5+	2000 03 05	704	0.6+	0.1-
1998 10 14	699	0.8-	1.0+	2000 02 27	703	0.1-	0.8-	2000 03 05	704	0.2-	0.0
1998 11 10	704	0.1-	0.3+	2000 02 27	691	0.0	0.3-	2000 03 06	704	0.3+	0.1+
1998 11 10	704	0.1+	1.2+	2000 02 27	703	0.2-	0.7+	2000 03 06	704	0.1+	0.6+
1998 11 10	704	0.4+	1.4-	2000 02 27	691	0.0	0.3-	2000 03 06	704	1.2-	0.3+
1998 11 10	704	0.4+	1.3-	2000 02 27	691	0.1-	0.3-	2000 03 06	704	0.1-	0.5+
1998 11 10	704	0.4+	0.7-	2000 02 29	704	0.2-	0.2+	2000 03 06	704	0.2+	0.9+
1998 11 11	704	1.4-	0.0	2000 02 29	704	0.0	0.4+	2000 03 09	704	0.0	0.1-
1998 11 11	704	0.0	0.4-	2000 02 29	704	0.6+	0.8+	2000 03 09	704	0.1+	0.8+
1998 11 11	704	1.2+	0.2-	2000 02 29	704	0.4-	0.3+	2000 03 09	704	0.0	0.1+
1998 11 11	704	0.5-	0.2-	2000 02 29	704	0.1+	0.6+	2000 03 09	704	0.2-	0.7-
2000 01 30	703	0.7-	0.1+	2000 03 03	704	0.1-	0.1-	2000 03 09	704	0.1-	0.1-
2000 01 30	703	0.7-	0.1-	2000 03 03	704	0.8+	0.5-	2000 03 11	704	0.6+	0.3-
2000 01 30	703	0.1-	0.5+	2000 03 03	704	0.4+	0.1+	2000 03 11	704	0.4-	0.1+
2000 01 30	703	0.9-	0.4+	2000 03 03	704	0.5+	0.4-	2000 03 11	691	0.3-	0.2-
2000 02 04	704	0.3+	0.1-	2000 03 03	704	0.3+	0.0	2000 03 11	704	0.2-	0.1+
2000 02 04	704	0.6+	0.2+	2000 03 04	704	(1.3-	2.2+)	2000 03 11	691	0.4-	0.1-
2000 02 04	704	0.7+	0.5-	2000 03 04	704	0.1-	0.3+	2000 03 11	704	0.3+	0.1-
2000 02 11	704	0.0	1.2+	2000 03 04	704	0.5-	0.5+	2000 03 11	704	0.4-	0.5+
2000 02 11	704	0.1-	0.5-	2000 03 04	704	0.7+	0.5-	2000 03 11	691	0.5-	0.2-
2000 02 11	704	0.1-	0.0	2000 03 04	704	0.0	0.0	2000 03 11	608	0.4+	1.2-
2000 02 11	704	0.6+	1.2-	2000 03 05	704	0.1+	0.3-	2000 03 11	608	0.1+	1.1-
2000 02 11	704	0.2+	1.0-	2000 03 05	704	0.0	0.1+	2000 03 11	608	0.1-	0.2-

2000 CO₈₁ = 1998 XV

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	341.60975		(2000.0)	P		Q	
<i>n</i>	0.18353232	ω	27.99242	-0.99516465	-0.09793691		
<i>a</i>	3.0666274	Ω	146.38465	+0.08741217	-0.91774047		
<i>e</i>	0.1657650	<i>i</i>	0.77231	+0.04479325	-0.38491661		
<i>P</i>	5.37	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 27	691	0.4-	0.7-	2000 02 11	704	0.3-	0.1-	2000 03 03	704	0.1+	0.1+
1998 11 27	691	0.4-	0.8-	2000 02 11	704	0.3-	0.5+	2000 03 03	704	0.2+	0.4+
1998 11 27	691	0.2-	0.7-	2000 02 11	704	0.1+	0.0	2000 03 03	704	0.1+	0.2+
1998 12 07	910	0.2+	0.4+	2000 02 26	691	0.2-	0.6-	2000 03 05	704	0.4-	0.4-
1998 12 07	910	0.6+	0.5+	2000 02 26	691	0.2-	0.6-	2000 03 05	704	0.3+	0.0
1998 12 07	910	0.3+	0.4+	2000 02 26	691	0.1-	0.8-	2000 03 05	704	0.4+	0.7+
1998 12 08	910	0.4-	0.5+	2000 02 27	703	0.4-	0.1+	2000 03 05	704	0.1+	0.6+
1998 12 08	910	0.5-	1.1+	2000 02 27	703	0.6-	0.2+	2000 03 05	704	0.3+	0.7+
1998 12 08	910	0.1-	0.6+	2000 02 27	703	0.0	0.1-	2000 03 09	704	0.2+	0.0
1998 12 15	910	0.1+	0.4-	2000 02 27	703	0.3-	0.1+	2000 03 09	704	0.4+	0.1-
1998 12 15	910	0.3+	0.2-	2000 02 29	704	0.1-	0.0	2000 03 09	704	0.1-	0.0
1998 12 15	910	0.4+	0.5-	2000 02 29	704	0.2+	0.2+	2000 03 09	704	0.5+	0.1+
2000 01 30	703	0.8-	0.2+	2000 02 29	704	0.3+	0.0	2000 03 09	704	0.4+	0.6+
2000 01 30	703	0.4-	0.1-	2000 02 29	704	0.7+	0.5-	2000 03 11	704	0.1+	0.3+
2000 01 30	703	0.5-	0.2-	2000 02 29	704	0.0	0.5+	2000 03 11	704	0.3+	0.1-
2000 01 30	703	0.0	0.2-	2000 03 02	691	0.3-	0.3-	2000 03 11	704	0.3+	0.2+
2000 02 04	704	0.6+	0.0	2000 03 02	691	0.3-	0.0	2000 03 11	704	0.2-	0.5+
2000 02 04	704	0.2+	0.0	2000 03 02	691	0.0	0.1-	2000 03 11	704	0.0	0.4+
2000 02 04	704	0.5+	0.1+	2000 03 02	691	0.1+	0.5-	2000 03 11	691	0.5-	0.1-
2000 02 04	704	0.5+	0.2-	2000 03 02	691	0.1+	0.5-	2000 03 11	691	0.6-	0.2-
2000 02 04	704	0.8+	0.4-	2000 03 02	691	0.1+	0.5-	2000 03 11	691	0.6-	0.3-
2000 02 11	704	0.0	0.4-	2000 03 03	704	0.1+	0.2+				
2000 02 11	704	0.5-	0.0	2000 03 03	704	0.2-	0.4+				

2000 CS₈₁ = 1997 GU₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	91.94146		(2000.0)	P	Q
<i>n</i>	0.28511487	ω	70.69187	+0.77894217	-0.62634219
<i>a</i>	2.2862452	Ω	328.06719	+0.55133198	+0.70736197
<i>e</i>	0.1603052	<i>i</i>	3.33108	+0.29880116	+0.32761945
<i>P</i>	3.46	<i>H</i>	15.7	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 04 03	704	0.5+	0.1+	2000 02 27	703	0.9-	0.0	2000 03 03	704	0.2-	0.0
1997 04 03	704	0.4+	0.4-	2000 02 27	703	0.6-	1.1+	2000 03 03	704	0.5-	0.2-
1997 04 07	704	0.9-	0.1+	2000 02 27	703	0.7-	0.7+	2000 03 03	704	0.1+	0.2-
1997 04 07	704	0.1-	0.0	2000 02 27	703	1.5-	1.0-	2000 03 05	704	(0.1+	2.6+)
2000 02 04	704	0.4-	0.6+	2000 02 29	704	0.0	0.8-	2000 03 05	704	0.2+	0.8+
2000 02 04	704	0.8+	0.4-	2000 02 29	704	0.1+	0.7-	2000 03 05	704	0.5+	1.1+
2000 02 04	704	0.1+	0.1+	2000 02 29	704	0.8+	1.0-	2000 03 05	704	0.6+	0.3+
2000 02 04	704	0.1+	0.7+	2000 02 29	704	0.1+	0.3-	2000 03 11	704	0.3-	0.0
2000 02 04	704	0.5-	0.2+	2000 02 29	704	0.7+	0.3+	2000 03 11	704	1.5+	0.3-
2000 02 11	704	0.0	0.7+	2000 03 02	691	0.1+	0.7-	2000 03 11	704	0.2+	0.6+
2000 02 11	704	0.8-	0.4-	2000 03 02	691	0.1-	0.7-	2000 03 11	704	1.7+	1.7+
2000 02 11	704	0.2-	0.4+	2000 03 02	691	0.2-	0.9-	2000 03 12	691	0.4+	0.8+
2000 02 11	704	0.1+	0.5-	2000 03 02	691	0.1+	0.1-	2000 03 12	691	0.5+	0.6+
2000 02 26	691	0.4-	0.4-	2000 03 02	691	0.2-	0.0	2000 03 12	691	0.4+	0.9+
2000 02 26	691	0.3-	0.5-	2000 03 02	691	0.1+	0.0				
2000 02 26	691	0.4-	0.5-	2000 03 03	704	0.3-	1.5-				

2000 CT₈₁ = 1995 FX₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	227.69906		(2000.0)	P	Q
<i>n</i>	0.18606905	ω	145.28419	+0.28577683	+0.95002488
<i>a</i>	3.0386916	Ω	140.89124	-0.91815820	+0.30898955
<i>e</i>	0.0677395	<i>i</i>	11.48846	-0.27443964	-0.04447677
<i>P</i>	5.30	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1995 03 25	327	0.1-	0.4-	2000 02 04	704	0.1+	0.5-	2000 02 25	703	0.3-	0.2+
1995 03 25	327	0.6-	0.3+	2000 02 04	704	0.9+	0.4+	2000 02 25	703	0.6-	0.3+
1995 03 25	327	0.1-	0.5+	2000 02 04	704	0.2-	0.2-	2000 02 29	704	0.1-	0.6-
1995 03 25	327	0.7+	0.5-	2000 02 04	704	0.3-	0.6+	2000 02 29	704	0.0	0.1+
1995 03 26	327	0.5+	0.2-	2000 02 04	704	0.1+	0.2-	2000 02 29	704	0.2-	0.1+
1995 03 26	327	0.5-	0.2+	2000 02 11	704	0.8+	0.1-	2000 02 29	704	0.6-	0.0
1995 03 26	327	0.5+	0.0	2000 02 11	704	0.2-	0.3-	2000 02 29	704	0.3+	0.4+
1995 03 26	327	0.4-	0.2+	2000 02 11	704	0.1+	0.3-	2000 03 05	704	0.1-	0.5-
2000 01 04	704	0.6+	1.0-	2000 02 11	704	0.0	0.2-	2000 03 05	704	0.3-	0.3-
2000 01 04	704	0.5+	0.5+	2000 02 11	704	0.2+	0.3-	2000 03 05	704	0.3+	0.3+
2000 01 04	704	0.4+	0.0	2000 02 25	703	0.5-	0.0	2000 03 05	704	0.1+	0.5+
2000 01 04	704	0.3+	0.3+	2000 02 25	703	0.6-	0.7+	2000 03 05	704	0.3-	0.1-

2000 CV₈₁ = 1998 SM₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	358.05163		(2000.0)	P	Q
<i>n</i>	0.27816728	ω	115.95165	-0.89047433	-0.45475981
<i>a</i>	2.3241564	Ω	37.00469	+0.40754783	-0.81249118
<i>e</i>	0.1429035	<i>i</i>	1.50225	+0.20238633	-0.36476239
<i>P</i>	3.54	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 26	691	0.0	0.1-	2000 02 11	704	0.1-	0.1-	2000 02 28	704	0.1+	0.2-
1998 09 26	691	0.0	0.1+	2000 02 11	704	0.2+	0.3-	2000 02 28	704	0.3-	0.2-
1998 09 26	691	0.1-	0.2+	2000 02 11	704	0.3-	0.0	2000 02 28	704	0.1-	0.1+
1998 09 30	691	0.0	0.1+	2000 02 11	704	0.1+	0.2+	2000 02 28	704	1.2+	0.4-
1998 09 30	691	0.2+	0.2-	2000 02 11	704	0.3+	0.3-	2000 03 03	704	0.9+	0.2+
1998 09 30	691	0.2-	0.1+	2000 02 12	704	(0.0	4.3+)	2000 03 03	704	0.7+	0.2-
2000 02 04	704	0.1+	0.4-	2000 02 12	704	1.1-	0.3+	2000 03 03	704	0.2+	0.7-
2000 02 04	704	0.3+	0.5-	2000 02 12	704	(3.4-	0.4+)	2000 03 03	704	0.5+	0.4-

2000 02 04	704	0.5+	0.1+	2000 02 12	704	(3.1-	4.1-)	2000 03 03	704	0.3+	0.6-
2000 02 04	704	0.1-	0.6-	2000 02 25	703	0.2-	0.3+	2000 03 05	704	0.0	0.2+
2000 02 06	703	0.3-	0.0	2000 02 25	703	0.3-	0.2+	2000 03 05	704	0.5+	0.3+
2000 02 06	703	0.0	0.3+	2000 02 25	703	0.6-	1.7+	2000 03 05	704	1.8-	0.5+
2000 02 06	703	0.1-	0.1+	2000 02 25	703	0.2-	0.1+	2000 03 05	704	0.6-	0.3+
2000 02 06	703	0.1+	0.3+	2000 02 28	704	0.1-	0.1+	2000 03 05	704	0.0	0.3-

2000 CX₈₁ = 1969 VL₁ = 1980 TL₄ = 1991 PZ₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	180.22358		(2000.0)	P	Q
<i>n</i>	0.17335653	ω	208.70616	+0.84845377	+0.52802250
<i>a</i>	3.1854876	Ω	119.37710	-0.47728681	+0.79296941
<i>e</i>	0.1707010	<i>i</i>	2.38812	-0.22874330	+0.30396013
<i>P</i>	5.69	<i>H</i>	12.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1969 11 13	095	0.4+	1.3+	2000 02 04	704	0.2-	0.4+	2000 03 03	704	0.1-	0.6+
1980 10 07	675	1.4-	0.5-	2000 02 04	704	0.2+	0.9+	2000 03 03	704	0.1-	0.3-
1980 10 08	675	0.5+	0.2+	2000 02 06	695	0.2+	0.0	2000 03 03	704	0.1-	0.1-
1980 10 09	675	0.1+	0.9+	2000 02 06	695	0.0	0.2+	2000 03 03	704	0.1-	0.3+
1980 10 10	675	1.0-	0.8+	2000 02 11	704	0.3+	0.0	2000 03 03	704	0.2-	0.5+
1991 08 06	675	0.0	0.7+	2000 02 11	704	0.0	0.3-	2000 03 05	704	0.7+	0.1-
1991 08 06	675	0.1+	0.8-	2000 02 11	704	1.0+	0.9+	2000 03 05	704	0.1+	0.6-
1991 08 10	675	0.1+	0.4+	2000 02 11	704	0.1-	0.5+	2000 03 05	704	0.1+	0.4-
1991 08 10	675	0.5+	0.5-	2000 02 11	704	0.8+	0.2+	2000 03 05	704	0.4+	0.1-
1998 12 15	704	0.4-	0.8-	2000 02 11	704	0.1-	0.6-	2000 03 05	704	0.1+	0.7-
1998 12 15	704	0.7+	1.3-	2000 02 11	704	0.2+	1.0+	2000 03 08	704	0.4+	0.4-
1998 12 15	704	0.7-	1.1-	2000 02 11	704	0.0	0.6-	2000 03 08	704	0.6+	0.1-
1998 12 15	704	0.1-	1.1-	2000 02 11	704	0.3+	0.6+	2000 03 08	704	0.3-	1.2-
1998 12 15	704	0.2-	0.7-	2000 02 25	703	0.5-	0.3-	2000 03 08	704	0.2-	0.3-
1998 12 22	704	(0.7-	2.2+)	2000 02 25	703	1.1-	0.2+	2000 03 08	704	0.1+	0.2-
1998 12 22	704	0.8+	1.6-	2000 02 25	703	1.0-	0.3+	2000 03 11	704	0.3+	0.2-
1998 12 22	704	0.1-	0.0	2000 02 25	703	0.5-	0.1-	2000 03 11	704	0.5+	0.5-
1998 12 22	704	0.9-	1.8+	2000 02 29	704	0.0	0.3+	2000 03 11	704	0.4+	0.3+
1998 12 22	704	1.3+	1.2+	2000 02 29	704	0.1-	0.2+	2000 03 11	704	0.2+	0.4+
2000 02 04	704	0.0	0.2+	2000 02 29	704	0.6-	0.3+	2000 03 11	704	0.1+	0.4+
2000 02 04	704	0.0	0.9+	2000 02 29	704	0.4-	0.5+				
2000 02 04	704	0.1-	0.1-	2000 02 29	704	0.6-	0.4+				

2000 CY₈₁ = 1989 CQ₄ = 1993 FU₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	57.37316		(2000.0)	P	Q
<i>n</i>	0.27141283	ω	309.59614	+0.20440660	-0.97794695
<i>a</i>	2.3625579	Ω	128.55605	+0.91407641	+0.17502038
<i>e</i>	0.1356732	<i>i</i>	3.14248	+0.35026028	+0.11396328
<i>P</i>	3.63	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1989 02 02	033	0.2-	1.4-	2000 02 04	704	0.0	0.5+	2000 02 25	703	0.9-	0.5-
1989 02 03	033	0.2-	1.0-	2000 02 04	704	0.1+	0.0	2000 02 25	703	0.0	0.3-
1993 03 17	809	1.2-	0.5-	2000 02 04	704	0.2-	0.1-	2000 02 25	703	0.6-	0.7+
1993 03 18	809	0.3+	0.7-	2000 02 06	695	0.5-	0.1+	2000 02 25	703	0.6-	0.2+
1993 03 23	809	0.3+	0.2+	2000 02 06	695	0.1-	0.1+	2000 02 29	704	0.5-	0.2+
1997 05 07	704	0.4+	0.4+	2000 02 11	704	0.2+	0.9+	2000 02 29	704	0.1-	0.3-
1997 05 07	704	0.8+	0.6-	2000 02 11	704	0.2-	0.7+	2000 02 29	704	0.0	0.6-
1997 05 07	704	1.1-	0.1+	2000 02 11	704	0.6+	0.9+	2000 02 29	704	0.1+	0.1-
1997 05 07	704	(3.2-	0.4+)	2000 02 11	704	0.2+	0.3-	2000 02 29	704	0.3+	0.1-
1998 08 17	704	1.3-	1.0-	2000 02 11	704	0.5+	0.3+	2000 03 05	704	0.2-	0.0
1998 08 17	704	(0.1+	2.2-)	2000 02 11	704	0.3-	0.7-	2000 03 05	704	0.2-	0.2+
1998 08 17	704	0.3+	0.8-	2000 02 11	704	0.2+	0.2+	2000 03 05	704	1.3+	0.0

2000 MAR. 20

M.P.C. 39417

2000 CG₈₂ = 1978 SV₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	156.90716	(2000.0)	P		Q	
<i>n</i>	0.15542517	ω	7.80799	+0.97619273	+0.21206073	
<i>a</i>	3.4260088	Ω	339.77348	−0.20545182	+0.83660806	
<i>e</i>	0.1396779	<i>i</i>	7.57657	−0.06955078	+0.50509127	
<i>P</i>	6.34	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1978 09 26	095	0.6+	0.0	2000 02 11	704	0.4−	0.3−	2000 03 03	704	0.2+	0.3−
1978 10 02	095	1.3−	1.3+	2000 02 11	704	1.2+	0.8+	2000 03 03	704	0.1+	0.6−
1978 10 08	095	(4.7−	1.5+)	2000 02 11	704	0.8+	0.3+	2000 03 03	704	0.5+	0.8−
1998 12 17	704	1.3−	0.3+	2000 02 25	703	0.9−	0.7+	2000 03 05	704	0.5+	0.0
1998 12 17	704	0.4−	0.1+	2000 02 25	703	(2.4−	0.6+)	2000 03 05	704	0.3−	0.5+
1998 12 17	704	1.5+	0.7+	2000 02 25	703	1.5−	1.0+	2000 03 05	704	0.2−	0.1−
1998 12 17	704	(3.3−	1.2+)	2000 02 25	703	0.3−	1.0+	2000 03 05	704	0.1−	0.6−
1999 01 16	704	0.1+	0.1+	2000 02 26	652	0.1+	1.6−	2000 03 05	704	0.2−	0.0
1999 01 16	704	1.1+	1.5−	2000 02 26	652	0.9−	1.1−	2000 03 11	704	0.1+	0.1−
1999 01 16	704	0.3−	0.1+	2000 02 27	652	0.0	0.8−	2000 03 11	704	0.0	0.4+
1999 01 16	704	0.9−	0.1−	2000 02 27	652	(1.0−	2.2−)	2000 03 11	704	0.2−	0.8+
1999 01 16	704	0.2+	1.4−	2000 02 29	704	0.0	0.2+	2000 03 11	704	0.2−	0.4+
2000 02 04	704	1.0+	1.0+	2000 02 29	704	0.6+	0.5+	2000 03 11	704	0.4−	0.6+
2000 02 04	704	0.1−	0.1+	2000 02 29	704	0.2+	0.6+	2000 03 12	691	0.1−	0.1−
2000 02 04	704	0.6+	0.3−	2000 02 29	704	0.2+	0.5+	2000 03 12	691	0.0	0.2−
2000 02 04	704	0.8+	0.4+	2000 02 29	704	0.1+	0.7+	2000 03 12	691	0.1+	0.2−
2000 02 04	704	0.1−	0.8−	2000 03 03	704	0.2+	0.3−				
2000 02 11	704	0.0	0.4+	2000 03 03	704	0.4−	0.7−				

2000 CJ₈₂ = 1983 CP₅ = 1983 EX₃ = 1986 VD₂ = 1998 XS₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	312.27064	(2000.0)	P		Q	
<i>n</i>	0.17489981	ω	78.90624	−0.83865191	+0.53404187	
<i>a</i>	3.1667211	Ω	133.26958	−0.53926382	−0.78651200	
<i>e</i>	0.1458773	<i>i</i>	8.45517	−0.07653436	−0.31015828	
<i>P</i>	5.64	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1983 02 14	381	1.0+	0.6−	1999 12 05	704	0.5+	0.6+	2000 02 11	704	0.2+	0.5+
1983 03 15	095	0.7−	0.8−	1999 12 05	704	0.8+	0.0	2000 02 25	703	0.3−	0.0
1986 11 03	010	1.2−	1.9−	1999 12 05	703	0.4+	0.1−	2000 02 25	703	0.4−	0.3−
1986 11 03	010	1.5+	0.4−	1999 12 05	704	1.4−	0.8−	2000 02 25	703	0.0	0.4+
1986 11 03	010	0.2−	1.6−	1999 12 05	703	0.2−	0.1−	2000 02 25	703	0.3−	0.0
1997 10 30	566	0.3+	0.3−	1999 12 05	703	0.6+	0.2+	2000 02 28	704	0.1−	0.5−
1997 10 30	566	0.3+	0.6+	1999 12 05	703	0.1+	0.2+	2000 02 28	704	0.2−	0.4−
1997 10 30	566	0.3+	0.1+	2000 01 04	704	(0.5−	2.1−)	2000 02 28	704	0.3−	0.3−
1998 12 15	704	0.1−	0.7+	2000 01 04	704	1.0+	0.1+	2000 02 28	704	0.3−	0.2−
1998 12 15	704	0.2−	0.5+	2000 01 04	704	0.1−	0.6+	2000 02 28	704	0.2−	0.1−
1998 12 15	704	0.4−	0.5+	2000 01 07	704	0.6+	0.6−	2000 03 05	704	0.2−	0.1−
1998 12 15	704	0.1+	0.9+	2000 01 07	704	0.6+	0.8−	2000 03 05	704	0.2−	0.0
1998 12 15	704	1.3−	1.0+	2000 01 07	704	0.1+	1.0−	2000 03 05	704	0.2−	0.4+
1998 12 22	704	0.7−	0.5+	2000 01 07	704	0.0	0.3+	2000 03 05	704	0.0	0.2+
1998 12 22	704	1.3+	0.6−	2000 01 29	703	0.1+	0.0	2000 03 05	704	0.2−	0.2+
1998 12 22	704	0.6+	0.9−	2000 01 29	703	0.1−	0.9+	2000 03 09	608	0.3+	0.6−
1998 12 22	704	0.9+	0.6−	2000 01 29	703	0.3+	0.0	2000 03 09	608	0.3+	0.5−
1999 01 07	699	0.8−	1.2+	2000 01 29	703	(0.6+	6.6−)	2000 03 09	608	0.2+	0.4−
1999 01 07	699	0.6−	0.1+	2000 02 04	704	0.4+	0.1−	2000 03 11	699	0.2−	0.1−
1999 01 07	699	0.0	0.0	2000 02 04	704	0.4−	0.2−	2000 03 11	699	0.1−	0.1+
1999 01 23	699	0.4+	0.3+	2000 02 04	704	0.6−	0.0	2000 03 11	699	0.5−	0.4−
1999 01 23	699	0.3+	0.1+	2000 02 04	704	0.2+	0.4+	2000 03 11	699	0.7−	0.2−
1999 01 23	699	0.4+	0.6−	2000 02 04	704	1.2−	0.2+	2000 03 12	704	0.6+	0.4−
1999 11 04	703	0.2−	0.2−	2000 02 11	704	0.4+	0.4+	2000 03 12	704	0.1−	0.8+
1999 11 04	703	1.0−	1.5+	2000 02 11	704	0.4+	0.4+	2000 03 12	704	0.2+	0.2−
1999 11 04	703	0.8−	0.7−	2000 02 11	704	0.3+	0.2+	2000 03 12	704	0.4+	0.2−
1999 11 04	703	0.7+	0.4+	2000 02 11	704	0.5+	0.3+	2000 03 12	704	0.4−	0.3−

2000 CN₈₂ = 1998 SG₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	54.40958	(2000.0)	P		Q	
<i>n</i>	0.21609943	ω	114.59573	+0.10301949	−0.99157546	
<i>a</i>	2.7502170	Ω	329.17416	+0.84818373	+0.12880740	
<i>e</i>	0.1284276	<i>i</i>	8.81398	+0.51958766	−0.01366612	
<i>P</i>	4.56	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1998 09 17	699	0.8−	1.3−	2000 02 04	704	0.2+	0.2−	2000 03 03	704	0.2−	0.0
1998 09 17	699	0.3−	1.1+	2000 02 11	704	0.6+	0.5+	2000 03 03	704	0.1+	0.2+
1998 09 17	699	0.5−	0.5+	2000 02 11	704	0.2+	0.4−	2000 03 05	704	0.3+	0.3−
1998 09 25	699	0.3−	0.2−	2000 02 11	704	0.4+	0.3+	2000 03 05	704	0.8+	0.2+
1998 09 25	699	0.6+	0.3+	2000 02 11	704	0.4+	0.1+	2000 03 05	704	0.4+	0.4+
1998 09 25	699	0.5+	0.2+	2000 02 25	703	0.2−	0.1+	2000 03 05	704	0.6+	0.3+
1998 10 12	699	0.0	0.5+	2000 02 25	703	0.1−	0.1−	2000 03 05	704	0.6+	0.9+
1998 10 12	699	0.2+	0.4−	2000 02 25	703	1.5−	0.3+	2000 03 09	608	0.2+	1.1−
1998 10 12	699	0.6+	0.5−	2000 02 25	703	0.3−	0.2+	2000 03 09	608	0.2−	0.8−
2000 02 02	703	0.3+	0.2+	2000 02 29	704	0.3−	0.0	2000 03 09	608	0.0	0.4−
2000 02 02	703	0.4−	0.1−	2000 02 29	704	0.0	0.2+	2000 03 11	704	0.7−	0.2−
2000 02 02	703	0.5+	0.1−	2000 02 29	704	1.8−	1.2−	2000 03 11	704	0.5+	0.3+
2000 02 02	703	1.2+	0.6−	2000 02 29	704	0.1+	0.3−	2000 03 11	704	0.0	0.2+
2000 02 04	704	0.1−	0.2+	2000 02 29	704	0.1+	0.3+	2000 03 11	704	0.1−	0.3+
2000 02 04	704	0.1−	0.5−	2000 03 03	704	0.0	0.2+	2000 03 11	704	0.3−	0.3+
2000 02 04	704	0.3−	0.1−	2000 03 03	704	0.3+	0.3+				
2000 02 04	704	0.9−	0.3+	2000 03 03	704	0.1−	0.5+				

2000 CT₈₂ = 1993 FY₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	32.17178	(2000.0)	P		Q	
<i>n</i>	0.27478421	ω	342.75880	−0.36024618	−0.93258573	
<i>a</i>	2.3431937	Ω	128.35064	+0.85922780	−0.34111041	
<i>e</i>	0.1342075	<i>i</i>	1.64455	+0.36324960	−0.11801500	
<i>P</i>	3.59	<i>H</i>	16.1	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1993 03 17	809	0.5−	0.9−	2000 03 03	704	0.9+	0.0	2000 03 06	704	0.7+	0.1+
1993 03 18	809	0.7+	1.2+	2000 03 03	704	0.1−	0.1−	2000 03 06	704	0.7+	0.5+
2000 02 04	704	1.0+	1.0−	2000 03 03	704	0.2+	0.0	2000 03 06	704	0.5+	0.9+
2000 02 04	704	0.1+	0.5+	2000 03 03	704	0.1+	0.0	2000 03 06	704	1.4+	0.2+
2000 02 04	704	0.3+	1.2−	2000 03 03	704	0.2−	0.1+	2000 03 11	704	0.1+	0.7−
2000 02 11	704	0.8−	0.6+	2000 03 05	704	0.4+	0.5−	2000 03 11	704	0.1−	0.1−
2000 02 11	704	0.4−	1.1+	2000 03 05	704	0.9−	0.1+	2000 03 11	704	0.1+	0.8+
2000 02 11	704	1.0−	1.1+	2000 03 05	704	0.2+	0.4+	2000 03 11	704	0.4−	0.0
2000 02 11	704	0.3−	0.5+	2000 03 05	704	0.4−	0.3−	2000 03 11	704	0.3−	0.4+
2000 02 29	704	0.3−	0.3+	2000 03 05	704	0.7−	0.1−	2000 03 12	691	0.4−	0.3−
2000 02 29	704	0.2+	0.5−	2000 03 05	608	0.0	1.1−	2000 03 12	691	0.4−	0.3−
2000 02 29	704	0.3−	0.4+	2000 03 05	608	0.2+	1.2−	2000 03 12	691	0.3−	0.3−
2000 02 29	704	0.3+	0.5+	2000 03 05	608	0.9−	1.1−				
2000 02 29	704	0.4+	0.1−	2000 03 06	704	0.3+	0.2−				

2000 CU₈₂ = 1998 WQ₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

$\dot{M}$	210.28600		(2000.0)	P	Q
n	0.21007713	ω	324.88405	+0.56690283	+0.82373778
a	2.8025295	Ω	339.64604	-0.74990784	+0.51161757
e	0.0449586	i	1.44802	-0.34096835	+0.24434307
P	4.69	H	13.9	G 0.15	U 5

M.P.C. 39418

1998 11 24	704	0.7+	0.1+	2000 02 11	704	0.6+	1.7-	2000 03 05	704	0.2+	0.5+
1998 11 24	704	0.0	0.7+	2000 02 11	704	0.9+	0.4+	2000 03 11	704	0.2-	0.4-
1998 11 24	704	0.1-	0.4+	2000 02 29	704	0.0	1.0+	2000 03 11	704	0.3+	0.5-
1998 11 24	704	0.4+	1.0+	2000 02 29	704	0.4-	0.2-	2000 03 11	704	0.2-	0.2-
2000 02 02	703	0.0	0.4+	2000 02 29	704	0.2-	0.1-	2000 03 11	704	0.4+	0.2-
2000 02 02	703	0.2+	0.8+	2000 02 29	704	0.2-	1.1+	2000 03 11	704	0.1+	0.3-
2000 02 02	703	1.7-	0.4-	2000 02 29	704	0.6+	0.7+	2000 03 11	699	0.5-	0.4-
2000 02 02	703	0.6-	0.6-	2000 03 03	704	0.4+	0.0	2000 03 11	699	0.7-	0.7+
2000 02 04	704	1.6-	1.3-	2000 03 03	704	0.2+	0.1+	2000 03 11	699	0.4-	0.4+
2000 02 04	704	0.5+	0.2-	2000 03 03	704	0.4+	0.3-	2000 03 11	699	0.5-	0.7+
2000 02 04	704	0.2-	0.3+	2000 03 03	704	0.1-	0.3-				

2000 CX₈₂ = 1998 SO₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	352.10355	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.22699904	ω	37.65464	-0.95157647	-0.30386089		
<i>a</i>	2.6614606	Ω	124.59288	+0.26650210	-0.89095684		
<i>e</i>	0.1393719	<i>i</i>	3.24455	+0.15322810	-0.33743811		
<i>P</i>	4.34	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 20	809	0.1+	0.3+	2000 02 04	704	0.1-	0.0	2000 02 28	704	0.2+	0.3+
1998 09 20	809	0.4-	0.2+	2000 02 04	704	0.2-	0.1-	2000 03 05	704	0.0	0.3-
1998 09 20	809	1.1-	1.2-	2000 02 04	704	0.2-	0.6-	2000 03 05	704	0.3+	0.0
1998 09 21	809	0.8+	0.1+	2000 02 11	704	0.2-	0.1-	2000 03 05	704	0.3+	0.1-
1998 09 21	809	0.0	0.3+	2000 02 11	704	0.1+	0.3-	2000 03 05	704	0.2-	0.2-
1998 09 21	809	0.6+	0.2+	2000 02 11	704	0.1-	0.3-	2000 03 05	704	0.1-	0.0
2000 01 29	703	0.1-	0.4-	2000 02 11	704	0.5+	0.1+	2000 03 11	699	0.2-	0.2-
2000 01 29	703	0.2-	0.3+	2000 02 11	704	0.3+	0.1-	2000 03 11	699	0.0	0.2-
2000 01 29	703	0.8-	0.3+	2000 02 25	703	0.1+	0.5-	2000 03 11	699	0.0	0.5-
2000 01 29	703	0.7+	0.9+	2000 02 25	703	0.1-	0.1-	2000 03 11	699	0.7-	0.1-
2000 02 02	703	0.0	0.2+	2000 02 25	703	0.2-	0.8+	2000 03 12	704	0.9+	0.5+
2000 02 02	703	0.2-	0.0	2000 02 25	703	0.0	0.3-	2000 03 12	704	0.2-	1.0+
2000 02 02	703	0.1+	0.1+	2000 02 28	704	0.4+	0.4-	2000 03 12	704	0.1-	0.4+
2000 02 02	703	0.1+	0.3+	2000 02 28	704	0.2+	0.0	2000 03 12	704	0.4-	0.3-
2000 02 04	704	0.1-	0.2-	2000 02 28	704	0.1+	0.1+	2000 03 12	704	0.3-	0.2+
2000 02 04	704	0.4+	0.2-	2000 02 28	704	0.1+	0.1+				

2000 CD₈₃ = 1993 FS₄₄ = 1998 VA₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	254.05698	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.27113107	ω	278.59564	-0.03252932	+0.99925468		
<i>a</i>	2.3641944	Ω	349.47302	-0.86643090	-0.03855890		
<i>e</i>	0.0984688	<i>i</i>	6.53177	-0.49823623	+0.00181349		
<i>P</i>	3.64	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 03 21	809	(4.4-	0.3+)	1998 11 16	704	0.5+	0.5+	2000 02 28	704	0.8+	0.6+
1993 03 22	809	0.6+	0.4-	2000 02 04	704	0.1-	0.3+	2000 02 28	704	0.4-	0.1-
1993 03 24	809	0.0	1.5+	2000 02 04	704	1.4-	0.5-	2000 02 28	704	0.1+	0.1-
1993 03 26	809	(0.8+	2.3-)	2000 02 04	704	1.4+	0.7+	2000 02 28	704	0.5-	0.5-
1998 11 10	704	0.6-	0.5+	2000 02 04	704	0.7-	0.3+	2000 03 05	704	0.7-	0.4-
1998 11 10	704	0.1-	1.0+	2000 02 04	704	0.2+	0.1+	2000 03 05	704	0.5-	0.4-
1998 11 10	704	(1.3+	2.4-)	2000 02 11	704	0.0	0.6+	2000 03 05	704	0.1-	0.2-
1998 11 10	704	(1.4-	2.1-)	2000 02 11	704	0.3+	0.2+	2000 03 05	704	0.1-	0.1+
1998 11 14	704	0.3-	1.1-	2000 02 11	704	0.3-	0.4-	2000 03 05	704	0.4+	0.4-
1998 11 14	704	0.1+	0.5+	2000 02 11	704	0.5+	0.6+	2000 03 11	704	0.5-	0.4-
1998 11 14	704	0.3-	1.2-	2000 02 11	704	0.1+	0.1+	2000 03 11	704	0.1-	0.6-
1998 11 14	704	0.5+	0.8-	2000 02 25	703	0.0	0.1-	2000 03 11	704	0.5-	0.3+
1998 11 14	704	(3.4-	1.2+)	2000 02 25	703	0.4+	0.0	2000 03 11	704	0.6+	0.8-
1998 11 16	704	0.2-	1.1+	2000 02 25	703	0.3-	0.0	2000 03 11	704	0.0	0.1+
1998 11 16	704	1.3-	0.6+	2000 02 25	703	0.6+	0.3-				
1998 11 16	704	1.6+	0.8-	2000 02 28	704	0.4+	0.2+				

2000 MAR. 20

2000 CE₈₃ = 1997 SB₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	4.46390	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.17592890	ω	137.66728	-0.83388679	-0.55191678		
<i>a</i>	3.1543600	Ω	8.83753	+0.49812913	-0.75611760		
<i>e</i>	0.0839092	<i>i</i>	1.69666	+0.23769770	-0.35167320		
<i>P</i>	5.60	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 09 29	691	0.1-	0.2+	2000 02 29	704	0.8+	0.5+	2000 03 05	704	0.6-	0.2+
1997 09 29	691	0.2-	0.1+	2000 02 29	704	0.3-	0.5+	2000 03 05	704	0.6-	0.2-
1997 09 29	691	0.2-	0.3+	2000 02 29	704	0.2+	0.0	2000 03 05	704	0.9-	0.3-
1997 10 05	691	0.2+	0.0	2000 02 29	704	0.4+	0.4+	2000 03 06	704	0.9+	1.3-
1997 10 05	691	0.3+	0.3-	2000 02 29	704	1.2+	0.2-	2000 03 06	704	0.6-	0.2-
1997 10 05	691	0.1+	0.4-	2000 03 03	704	0.1+	0.0	2000 03 06	704	1.0+	0.7+
2000 02 04	704	0.9-	0.2+	2000 03 03	704	0.3+	0.6+	2000 03 06	704	1.2+	0.5-
2000 02 04	704	0.3+	0.3+	2000 03 03	704	0.1-	0.2-	2000 03 06	704	0.4+	0.5-
2000 02 04	704	0.1+	0.0	2000 03 03	704	0.0	0.1+	2000 03 11	699	0.3+	0.1+
2000 02 04	704	0.5+	1.0+	2000 03 03	704	0.0	0.1+	2000 03 11	699	0.0	0.4-
2000 02 11	704	0.4+	0.5-	2000 03 04	688	0.6-	0.5+	2000 03 11	699	0.7-	0.3+
2000 02 11	704	0.3-	0.3-	2000 03 04	688	0.4-	0.5+	2000 03 11	699	1.0-	0.0
2000 02 11	704	0.7-	1.2-	2000 03 05	704	0.2-	0.2+				
2000 02 11	704	(0.1-	2.3-)	2000 03 05	704	0.5-	0.4-				

2000 CF₈₃ = 1988 SC₄ = 1998 XQ₈₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	208.06357	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.21299018	ω	166.67804	+0.64985563	+0.75300632		
<i>a</i>	2.7769176	Ω	143.69515	-0.71235329	+0.65080509		
<i>e</i>	0.1473382	<i>i</i>	10.04694	-0.26502916	+0.09712989		
<i>P</i>	4.63	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1988 09 10	675	0.0	0.3+	2000 02 02	703	0.4-	0.2+	2000 02 29	704	0.1-	0.5+
1988 09 10	675	0.2-	0.2+	2000 02 02	703	0.4+	0.3-	2000 02 29	704	0.0	0.4+
1988 09 16	095	(2.4+	7.2-)	2000 02 02	703	0.6-	0.2-	2000 02 29	704	(2.2-	0.7+)
1988 09 16	095	(2.9+	3.3-)	2000 02 02	703	0.6-	0.4+	2000 03 03	704	0.1+	0.1+
1997 09 02	566	0.1-	0.9+	2000 02 04	704	0.1-	0.1-	2000 03 03	704	0.3+	0.1+
1997 09 02	566	0.4-	0.9+	2000 02 04	704	0.7-	0.4-	2000 03 03	704	0.3+	0.1-
1997 09 02	566	0.0	1.1+	2000 02 04	704	0.5+	0.0	2000 03 03	704	0.6+	0.2-
1998 12 15	704	1.1+	1.8-	2000 02 04	704	0.1-	0.7+	2000 03 05	704	0.2+	0.0
1998 12 15	704	0.1-	0.9+	2000 02 04	704	0.5-	0.2+	2000 03 05	704	0.4-	1.1+
1998 12 15	704	0.2-	0.8+	2000 02 11	704	0.1-	0.3+	2000 03 05	704	0.5+	0.2-
1998 12 15	704	0.9+	0.7+	2000 02 11	704	0.3-	0.3+	2000 03 05	704	0.5+	0.1+
1998 12 15	704	0.6+	0.5+	2000 02 11	704	0.2-	0.5+	2000 03 05	608	0.3+	0.2-
1998 12 22	704	0.8-	0.6+	2000 02 11	704	0.4+	0.3+	2000 03 05	608	0.3+	0.2-
1998 12 22	704	1.0-	1.1-	2000 02 11	704	0.3+	0.2+	2000 03 05	608	0.2+	0.2-
1998 12 22	704	0.3+	0.5+	2000 02 25	703	0.1+	0.4-	2000 03 12	704	0.1-	0.4+
1998 12 22	704	0.2+	0.5+	2000 02 25	703	0.2+	0.2-	2000 03 12	704	0.1+	0.1-
1998 12 22	704	0.7+	0.2-	2000 02 25	703	0.0	0.1+	2000 03 12	704	0.0	0.4+
1999 01 14	699	0.7-	0.5-	2000 02 25	703	0.3-	0.3+	2000 03 12	704	0.0	0.2-
1999 01 14	699	0.3+	0.5-	2000 02 29	704	0.2+	0.1+	2000 03 12	704	0.1-	0.2+
1999 01 14	699	1.2-	0.8-	2000 02 29	704	0.1-	0.4+				

2000 CH₈₃ = 1998 WC₁₃

Epoch 2000 Feb. 26.0 TT = JDT

2000 MAR. 20

M.P.C. 39419

1998 11 21	704	0.5+	1.7-	2000 02 25	703	0.2-	0.8+	2000 03 06	704	0.1+	0.3+
1998 11 21	704	0.3-	0.1-	2000 02 25	703	0.3+	0.4+	2000 03 06	704	0.1-	0.3+
1998 11 21	704	(2.4-	0.9-)	2000 02 25	703	0.5-	1.2-	2000 03 06	704	0.2+	0.1-
1998 11 24	704	0.1+	0.2-	2000 02 29	704	0.1+	0.0	2000 03 06	704	0.3-	0.5+
1998 11 24	704	0.3-	1.6+	2000 02 29	704	0.5+	0.2-	2000 03 11	704	0.6-	0.1-
1998 11 24	704	0.4-	1.3+	2000 02 29	704	0.4+	0.3-	2000 03 11	704	0.3-	0.1+
1998 11 24	704	1.9-	0.2+	2000 02 29	704	0.3+	0.1-	2000 03 11	704	0.2-	0.3-
1998 12 11	699	0.4+	0.8-	2000 02 29	704	0.1-	0.1+	2000 03 11	704	0.2-	0.2-
1998 12 11	699	0.1+	0.5-	2000 03 03	704	0.0	0.2+	2000 03 11	704	0.1-	0.1+
1998 12 11	699	0.7+	0.2-	2000 03 03	704	0.1-	0.1+	2000 03 11	699	0.4+	0.2+
2000 02 04	704	0.3+	0.0	2000 03 03	704	0.4-	0.1+	2000 03 11	699	0.7+	0.4+
2000 02 04	704	0.9-	0.3+	2000 03 03	704	0.1+	0.0	2000 03 11	699	0.0	0.2+
2000 02 04	704	1.2+	0.7+	2000 03 03	704	0.2+	0.5+	2000 03 11	699	0.7-	0.5+
2000 02 04	704	1.0-	0.8-	2000 03 05	704	0.3+	0.5-	2000 03 12	691	0.5-	0.3-
2000 02 04	704	1.1+	0.2-	2000 03 05	704	0.5+	0.1-	2000 03 12	691	0.4-	0.4-
2000 02 11	704	0.8-	0.2+	2000 03 05	704	0.8+	0.5-	2000 03 12	691	0.6-	0.3-
2000 02 11	704	0.6-	0.6+	2000 03 05	704	0.2+	0.1-				

2000 CL₈₃ = 3354 T-2 = 1998 UY₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	258.45411	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.27975838	ω	146.15649	-0.06171913	+0.99639522
<i>a</i>	2.3153358	Ω	120.24226	-0.93001020	-0.03624364
<i>e</i>	0.1176623	<i>i</i>	3.86291	-0.36231447	-0.07670049
<i>P</i>	3.52	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1973 09 19	675	1.1-	0.4-	1998 11 11	704	(2.2+	2.1-)	2000 02 25	703	0.5+	0.2+
1973 09 19	675	1.2-	1.8-	1998 11 11	704	0.3-	1.7-	2000 02 25	703	0.4+	0.3-
1973 09 20	675	0.4+	0.2-	1998 11 11	704	1.6+	1.5-	2000 02 28	704	(2.4+	0.4+)
1973 09 24	675	1.3+	0.9+	1998 11 11	704	1.5-	0.8-	2000 02 28	704	1.3+	0.3+
1973 09 24	675	0.4-	1.2+	2000 02 02	703	1.4-	0.4-	2000 02 28	704	0.2+	0.7-
1973 09 25	675	1.3+	0.5-	2000 02 02	703	1.3-	0.2+	2000 02 28	704	0.7+	0.2-
1973 09 25	675	(3.2+	3.8-)	2000 02 02	703	0.3-	0.5-	2000 02 28	704	0.5+	1.8-
1997 05 04	809	(14.9+	3.2-)	2000 02 02	703	0.4+	1.2+	2000 03 05	704	0.1+	0.0
1997 05 04	809	(15.1+	3.6-)	2000 02 04	704	0.3+	0.4-	2000 03 05	704	0.6-	0.2+
1997 05 04	809	(15.0+	3.1-)	2000 02 04	704	0.4+	0.9-	2000 03 05	704	0.3-	1.0+
1997 06 08	809	(8.6+	1.4-)	2000 02 04	704	0.5-	0.1-	2000 03 05	704	0.2-	0.4+
1997 06 08	809	(9.2+	1.6-)	2000 02 04	704	0.3-	0.4+	2000 03 05	704	0.2+	0.6+
1997 06 08	809	(9.2+	2.0-)	2000 02 04	704	0.3+	0.9+	2000 03 11	699	0.9-	0.3-
1998 10 18	809	0.0	1.7+	2000 02 11	704	0.3+	0.3-	2000 03 11	699	0.8-	0.4+
1998 10 18	809	0.1+	1.6+	2000 02 11	704	0.2+	0.1-	2000 03 11	699	0.7-	0.9+
1998 10 18	809	0.1-	1.3+	2000 02 11	704	0.3-	1.0-	2000 03 11	699	0.2+	0.1+
1998 10 19	809	(4.9+	3.2+)	2000 02 11	704	1.3+	0.2+	2000 03 12	704	0.4-	0.9-
1998 10 19	809	(3.6+	4.1+)	2000 02 11	704	0.7+	1.0+	2000 03 12	704	0.3+	0.8-
1998 10 19	809	(3.5+	4.2+)	2000 02 25	703	0.3-	0.2-	2000 03 12	704	0.2-	0.2+
1998 11 11	704	(0.4+	2.7-)	2000 02 25	703	0.1-	0.4+				

2000 CP₈₃ = 1998 UL₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	316.54447	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.27492440	ω	214.51571	-0.88122671	+0.47257748
<i>a</i>	2.3423971	Ω	353.65929	-0.40946285	-0.77424592
<i>e</i>	0.1353577	<i>i</i>	5.44962	-0.23617718	-0.42096767
<i>P</i>	3.59	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 10 28	704	1.2+	0.2-	2000 02 04	704	0.0	0.1+	2000 02 28	704	0.4-	0.0
1998 10 28	704	0.5-	0.4-	2000 02 04	704	0.2+	0.6+	2000 02 28	704	0.1+	0.2+
1998 10 28	704	(0.3+	2.4-)	2000 02 04	704	0.3+	0.1-	2000 03 05	704	0.0	0.2-
1998 10 28	704	0.6+	1.2+	2000 02 11	704	1.0+	0.6-	2000 03 05	704	0.5-	0.3-
1998 10 29	704	0.0	0.7-	2000 02 11	704	0.4-	0.2+	2000 03 05	704	0.2+	0.4+
1998 10 29	704	0.2-	0.2+	2000 02 11	704	0.2+	0.3+	2000 03 05	704	0.1+	0.5+
1998 10 29	704	0.3-	1.2+	2000 02 11	704	0.2+	0.6+	2000 03 05	704	0.2+	0.1-
1998 10 29	704	0.9-	1.3-	2000 02 11	704	0.1+	0.6-	2000 03 12	704	0.3-	0.3+
2000 02 02	703	0.0	0.1+	2000 02 25	703	0.6-	0.5-	2000 03 12	704	0.7+	0.0

2000 02 02	703	0.5-	1.0+	2000 02 25	703	0.2+	0.1+	2000 03 12	704	0.0	0.6+
2000 02 02	703	0.7-	0.5-	2000 02 25	703	0.2+	0.3-	2000 03 12	704	0.0	0.3-
2000 02 02	703	0.3-	0.7-	2000 02 25	703	0.2-	0.1-	2000 03 12	704	0.2-	0.5+
2000 02 04	704	0.1-	0.2+	2000 02 28	704	0.2+	0.7-				
2000 02 04	704	0.5+	0.0	2000 02 28	704	0.0	0.6-				

2000 CQ₈₃ = 1998 VZ₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	16.38984	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.22317806	ω	134.27378	-0.69219647	-0.72170862
<i>a</i>	2.6917520	Ω	359.52800	+0.62966457	-0.60334587
<i>e</i>	0.0601791	<i>i</i>	5.86099	+0.35268481	-0.33927927
<i>P</i>	4.42	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	1.0-	1.3+	2000 02 06	703	0.3+	0.4-	2000 03 05	704	0.3+	0.1-
1998 11 10	704	0.3+	0.6+	2000 02 06	703	0.3+	0.2+	2000 03 05	704	0.8+	0.2-
1998 11 10	704	0.7+	0.4+	2000 02 06	703	0.3-	0.1-	2000 03 05	704	0.3+	0.2-
1998 11 10	704	(4.4-	1.4-)	2000 02 06	703	0.3-	0.1-	2000 03 05	704	0.5+	0.0
1998 11 11	704	1.1-	0.8+	2000 02 11	704	1.1-	0.2+	2000 03 11	699	0.3+	0.2-
1998 11 11	704	0.7-	1.2-	2000 02 11	704	0.2-	0.4+	2000 03 11	699	1.0-	0.0
1998 11 11	704	1.0+	1.1-	2000 02 11	704	0.7-	0.1+	2000 03 11	699	1.2-	0.3+
1998 11 11	704	0.8+	0.8-	2000 02 11	704	0.1-	0.4+	2000 03 11	699	0.1+	0.5-
2000 02 04	704	0.2-	0.1-	2000 02 25	703	0.3+	0.2+	2000 03 12	704	0.1-	0.0
2000 02 04	704	0.1-	0.6-	2000 02 25	703	0.3-	0.1-	2000 03 12	704	0.3-	0.3-
2000 02 04	704	0.2+	0.2+	2000 02 25	703	0.1-	0.5+	2000 03 12	704	0.2-	0.5+
2000 02 04	704	0.0	0.2-	2000 02 25	703	1.3+	0.4-	2000 03 12	704	0.4+	0.4-
2000 02 04	704	0.9+	0.1+	2000 03 05	704	0.2+	0.0	2000 03 12	704	0.0	0.6+

2000 CR₈₃ = 1997 CE₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	252.10119	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.28915262	ω	263.56408	+0.17393189	+0.98461172
<i>a</i>	2.2649118	Ω	16.48175	-0.87823145	+0.16288255
<i>e</i>	0.2006039	<i>i</i>	3.42610	-0.44548537	+0.06331701
<i>P</i>	3.41	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1997 02 07	327	0.0	0.2-	2000 02 02	703	0.5-	0.3+	2000 03 05	704	0.2-	0.7+
1997 02 07	327	0.8+	0.4-	2000 02 02	703	0.3+	1.0+	2000 03 05	704	0.1-	0.4+
1997 02 07	327	0.4-	0.4-	2000 02 02	703	0.2-	0.0	2000 03 05	704	0.3+	0.4+
1997 02 14	327	0.6-	0.3-	2000 02 02	703	0.4-	0.1+	2000 03 05	704	0.1+	0.6+
1997 02 14	327	0.2+	0.5-	2000 02 04	704	0.1+	0.6+	2000 03 05	704	0.0	0.3+
1997 02 14	327	0.9-	0.4-	2000 02 04	704	0.4+	0.4-	2000 03 05	608	0.6-	1.5-
1998 11 11	704	1.2+	0.7+	2000 02 04	704	0.5+	0.1+	2000 03 05	608	0.6-	1.3-
1998 11 11	704	0.3+	0.2-	2000 02 04	704	0.7+	0.1-	2000 03 05	608	0.3-	1.6-
1998 11 11	704	1.1-	0.8-	2000 02 04	704	0.1-	0.3+	2000 03 11	699	0.1+	0.3+
1998 11 18	704	1.2+	0.6+	2000 02 11	704	0.1+	0.1+	2000 03 11	699	1.0-	0.1+
1998 11 18	704	0.7+	0.2-	2000 02 11	704	0.4+	0.7+	2000 03 11	699	0.4-	0.2-
1998 11 18	704	0.1-	0.0	2000 02 11	704	0.3+	0.1-	2000 03 11	699	0.5-	0.1+
1998 11 18	704	(0.8-	2.9+)	2000 02 11	704	0.5+	0.5+	2000 03 12	704	1.9-	0.2-
1998 11 18	704	1.7-	1.5-	2000 02 11	704	1.2+	0.2+	2000 03 12	704	0.9+	1.2+
1999 12 07	704	0.2-	0.0	2000 02 28	704	0.1+	0.2-	2000 03 12	704	0.3+	0.2+
1999 12 07	704	0.3-	0.1-	2000 02 28	704	0.2+	0.4-	2000 03 12	704	0.1-	0.3-
1999 12 07	704	0.0	0.5-	2000 02 28	704	0.2+	0.0				
1999 12 07	704	0.8+	0.2-	2000 02 28	704	0.3+	0.1-				

Residuals in seconds of arc

1979 08 22	809	0.5−	0.2+	1999 11 16	704	0.3+	0.6−	2000 02 29	704	0.1+	0.0
1979 08 22	809	0.6−	0.2+	1999 12 06	704	0.6+	0.0	2000 03 03	704	0.4+	0.2+
1979 08 22	809	0.8−	0.2−	1999 12 06	704	0.1+	0.3−	2000 03 03	704	0.2+	0.2+
1979 08 23	809	0.2−	0.5−	1999 12 06	704	0.2+	0.4−	2000 03 03	704	0.3+	0.3+
1979 08 23	809	0.3−	0.5−	1999 12 06	704	0.4−	0.1+	2000 03 03	704	0.2+	0.4+
1979 08 26	809	1.0+	0.2−	1999 12 06	704	0.1+	0.4−	2000 03 03	704	0.3+	0.4+
1979 08 26	809	1.4+	0.2+	1999 12 18	120	0.6−	0.9+	2000 03 05	704	0.3+	0.2+
1979 08 26	809	0.6+	0.3−	1999 12 18	120	0.5+	0.0	2000 03 05	704	0.3+	0.2+
1991 11 09	402	(2.5+	1.2−)	1999 12 18	120	0.2−	0.9+	2000 03 05	704	0.5+	0.1−
1991 11 09	402	0.1+	0.3−	2000 02 02	703	0.2−	0.4+	2000 03 05	704	0.3+	0.4−
1991 11 30	402	0.4+	1.3−	2000 02 02	703	0.6−	0.5+	2000 03 05	704	0.4+	0.4−
1991 11 30	402	0.3+	0.2+	2000 02 02	703	0.3+	0.3−	2000 03 05	608	0.0	1.0−
1991 12 28	033	1.0−	0.5+	2000 02 02	703	0.1+	0.5+	2000 03 05	608	0.1−	1.1−
1998 08 17	704	0.2+	1.0+	2000 02 04	704	0.4+	0.3+	2000 03 05	608	0.1−	1.2−
1998 08 17	704	1.0−	1.1−	2000 02 04	704	0.4+	0.6+	2000 03 11	704	0.1+	0.1−
1998 08 17	704	0.0	0.4+	2000 02 04	704	0.0	0.5+	2000 03 11	704	0.1+	0.0
1998 08 17	704	0.2−	0.0	2000 02 04	704	0.5+	0.5+	2000 03 11	704	0.2+	0.2+
1998 08 17	704	0.2+	0.5+	2000 02 04	704	0.4+	1.1+	2000 03 11	704	0.1−	0.3+
1998 08 23	704	0.0	1.2+	2000 02 11	704	0.3−	0.1+	2000 03 11	704	0.4−	0.1+
1998 08 23	704	0.3−	1.4+	2000 02 11	704	0.5−	0.2+	2000 03 11	699	0.0	0.0
1998 08 23	704	0.7−	0.3+	2000 02 11	704	0.7−	0.1+	2000 03 11	699	0.1−	0.2−
1998 08 23	704	0.2+	0.4−	2000 02 11	704	0.6−	0.3−	2000 03 11	699	0.3−	0.1−
1998 08 23	704	(1.2−	2.7+)	2000 02 11	704	0.7−	0.1+	2000 03 11	699	0.3−	0.1−
1999 11 16	704	0.7−	0.3+	2000 02 29	704	0.3+	0.1+	2000 03 12	691	0.7−	0.3−
1999 11 16	704	0.2+	0.1−	2000 02 29	704	0.2+	0.0	2000 03 12	691	0.8−	0.2−
1999 11 16	704	0.5+	0.1+	2000 02 29	704	0.3+	0.0	2000 03 12	691	0.8−	0.3−
1999 11 16	704	1.5+	0.0	2000 02 29	704	0.3+	0.1+				

2000 CB₈₄ = 1991 PS₅ = 1998 RJ₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	41.69132		(2000.0)		P		Q
<i>n</i>	0.28910692	<i>ω</i>	320.82328	−0.24548953		−0.96710505	
<i>a</i>	2.2651505	<i>Ω</i>	143.24848	+0.91505183		−0.25387695	
<i>e</i>	0.0888979	<i>i</i>	6.39583	+0.32002351		−0.01594758	
<i>P</i>	3.41	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 08 03	809	1.5+	0.6−	1999 12 05	703	1.1+	0.0	2000 02 25	703	0.1+	0.5+
1991 08 03	809	(2.7+	0.5+)	1999 12 05	704	0.2−	1.1−	2000 02 29	704	0.5+	0.3+
1991 08 03	809	1.2+	0.0	1999 12 05	703	0.0	0.4+	2000 02 29	704	0.4+	0.3+
1991 08 05	809	0.8−	0.6−	1999 12 05	704	0.1+	1.0−	2000 02 29	704	0.9+	0.4+
1991 08 05	809	1.7−	0.1+	1999 12 05	703	0.8+	0.2+	2000 02 29	704	0.4+	0.6+
1991 08 05	809	(2.6−	1.4−)	1999 12 05	704	0.6−	0.3−	2000 02 29	704	0.5+	0.6+
1998 08 17	704	0.1−	0.6+	1999 12 05	704	0.3+	0.2−	2000 03 03	704	0.1−	0.3+
1998 08 17	704	0.0	1.0+	1999 12 05	704	0.0	0.7−	2000 03 03	704	0.1+	0.3+
1998 08 17	704	0.9−	0.4+	2000 01 05	704	0.1−	0.0	2000 03 03	704	0.2+	0.4+
1998 08 17	704	0.0	0.3−	2000 01 05	704	0.0	0.7−	2000 03 03	704	0.2+	0.4+
1998 08 23	704	0.7−	0.6−	2000 01 05	704	0.6−	1.5−	2000 03 03	704	0.3+	0.5+
1998 08 23	704	0.7−	1.2+	2000 01 05	704	1.8+	1.8−	2000 03 05	704	0.3+	0.9+
1998 08 23	704	0.0	0.7−	2000 02 02	703	0.4+	0.7+	2000 03 05	704	0.3−	0.4+
1998 08 23	704	0.5+	1.2+	2000 02 02	703	0.1−	0.4+	2000 03 05	704	0.0	0.2+
1998 08 23	704	(5.8−	1.1+)	2000 02 02	703	0.2+	0.2+	2000 03 05	704	0.3−	0.1+
1998 08 30	699	0.4+	1.3+	2000 02 02	703	0.3−	0.4+	2000 03 05	704	0.5−	0.0
1998 08 30	699	0.2+	0.3+	2000 02 04	704	0.4+	0.3+	2000 03 05	608	0.5−	1.0+
1998 08 30	699	0.1+	1.0+	2000 02 04	704	0.1−	0.5+	2000 03 05	608	0.8−	0.9+
1998 09 14	704	0.2−	1.2+	2000 02 04	704	0.2+	0.1+	2000 03 05	608	0.4−	0.7+
1998 09 14	704	0.1−	0.4+	2000 02 04	704	0.1+	0.1−	2000 03 11	699	0.0	0.3+
1998 09 14	704	0.2+	1.0+	2000 02 04	704	0.0	0.6+	2000 03 11	699	0.2−	0.5+
1998 09 14	704	0.9−	0.6+	2000 02 11	704	(2.3−	0.2+)	2000 03 11	699	0.3−	0.6+
1998 09 14	704	0.4+	0.5+	2000 02 11	704	0.5−	0.1+	2000 03 11	699	0.1−	0.3+
1998 09 18	704	1.5−	0.3+	2000 02 11	704	0.3−	0.3−	2000 03 12	704	0.5+	0.3+
1998 09 18	704	0.9−	0.4−	2000 02 11	704	0.2−	0.4−	2000 03 12	704	1.4+	0.3−
1998 09 18	704	0.2+	0.5−	2000 02 11	704	0.4−	0.4−	2000 03 12	704	0.4−	0.3+
1998 09 18	704	0.9+	0.6+	2000 02 25	703	0.0	0.5+	2000 03 12	704	0.6−	1.0−
1998 09 18	704	0.1+	0.8+	2000 02 25	703	0.7−	0.2+				
1999 12 05	703	0.2+	0.4+	2000 02 25	703	0.0	0.6+				

2000 CD₈₄ = 1995 CP

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	303.55735		(2000.0)		P		Q
<i>n</i>	0.21142307	<i>ω</i>	265.14253	−0.63169515		+0.77487301	
<i>a</i>	2.7906228	<i>Ω</i>	325.64736	−0.69404662		−0.57856909	
<i>e</i>	0.1998832	<i>i</i>	2.34493	−0.34534119		−0.25461661	
<i>P</i>	4.66	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 02 04	671	0.7+	0.5+	2000 02 11	704	0.9+	1.1−	2000 03 05	704	0.1−	0.3−
1995 02 04	671	0.3−	1.2−	2000 02 25	703	1.4−	0.6−	2000 03 05	608	0.2−	0.8−
1995 02 04	671	0.8−	0.4−	2000 02 25	703	0.3+	0.7−	2000 03 05	608	0.2−	0.2−
1995 02 04	671	1.1+	0.0	2000 02 25	703	1.5+	0.7−	2000 03 05	608	0.6−	0.5−
1995 02 05	671	0.8−	0.1+	2000 02 25	703	(4.6−	0.2+)	2000 03 11	704	0.1−	0.1−
1995 02 05	671	0.5−	0.6−	2000 03 03	704	0.1+	0.3+	2000 03 11	704	0.2−	0.4+
1995 02 05	671	0.3+	1.7+	2000 03 03	704	0.0	0.5−	2000 03 11	704	0.1−	0.9+
2000 02 04	704	0.1−	0.1+	2000 03 03	704	0.3−	0.2−	2000 03 11	704	0.1+	0.0
2000 02 04	704	0.9+	0.8+	2000 03 03	704	0.1+	0.1−	2000 03 11	704	0.5+	0.2−
2000 02 04	704	0.1+	0.2−	2000 03 03	704	0.2+	0.3−	2000 03 11	699	0.1−	0.9+
2000 02 04	704	0.5+	0.4+	2000 03 05	704	0.1+	0.1−	2000 03 11	699	0.2+	0.2+
2000 02 11	704	0.8−	0.9+	2000 03 05	704	0.4+	0.0	2000 03 11	699	0.3+	0.1+
2000 02 11	704	1.3−	0.9+	2000 03 05	704	0.2+	0.1+	2000 03 11	699	0.3−	0.8+
2000 02 11	704	0.6−	0.0	2000 03 05	704	0.2+	0.1−				

2000 CL₈₄ = 1998 WG₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	219.77972		(2000.0)		P		Q
<i>n</i>	0.22537029	<i>ω</i>	309.25628	+0.48055541		+0.87692819	
<i>a</i>	2.6742681	<i>Ω</i>	349.45663	−0.79059600		+0.42927901	
<i>e</i>	0.0626246	<i>i</i>	2.49504	−0.37950554		+0.21613997	
<i>P</i>	4.37	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 09 14	809	0.6+	0.3−	1998 12 14	704	0.4+	0.6−	2000 02 29	704	0.0	0.0
1993 09 14	809	0.6+	0.4+	1998 12 14	704	(5.4−	0.5+)	2000 02 29	704	0.2+	0.1−
1993 09 14	809	0.7−	1.1−	2000 02 01	703	1.1−	0.7+	2000 02 29	704	0.0	0.6−
1998 11 18	704	0.1+	0.2+	2000 02 01	703	0.1−	0.5−	2000 02 29	704	0.2−	1.1−
1998 11 18	704	0.2+	0.3−	2000 02 01	703	0.5−	0.1−	2000 02 29	704	0.4+	0.8−
1998 11 18	704	0.6−	0.2−	2000 02 01	703	1.0−	0.2+	2000 03 03	704	0.2−	0.1+
1998 11 18	704	0.1−	0.6+	2000 02 04	704	0.6+	0.5+	2000 03 03	704	0.1+	0.1+
1998 11 18	704	1.6+	1.4+	2000 02 04	704	0.0	0.3+	2000 03 03	704	0.1+	0.1+
1998 11 20	699	0.4−	0.6+	2000 02 04	704	0.2−	0.3+	2000 03 03	704	0.0	0.1+
1998 11 20	699	0.1−	0.8+	2000 02 04	704	0.5−	0.3−	2000 03 03	704	0.1+	0.2−
1998 11 20	699	(2.9−	2.6+)	2000 02 04	704	0.5+	0.2+	2000 03 05	704	0.3+	0.3−
1998 11 21	704	0.3−	0.9+	2000 02 11	704	0.3+	0.5−	2000 03 05	704	0.4−	0.3−
1998 11 21	704	0.6+	1.5−	2000 02 11	704	0.0	0.7−	2000 03 05	704	0.3+	0.3+
1998 11 21	704	0.8+	0.5+	2000 02 11	704	1.3+	1.0−	2000 03 05	704	0.6+	0.3+
1998 11 24	704	0.1−	0.0	2000 02 11	704	0.1−	0.4−	2000 03 05	704	0.1+	0.1+
1998 11 24	704	0.7−	0.9−	2000 02 11	704	0.3−	0.0	2000 03 11	704	0.6−	0.1+
1998 11 24	704	0.5−	1.4−	2000 02 25	703	1.6+	0.1+	2000 03 11	704	0.7−	0.5+
1998 11 24	704	0.3−	0.0	2000 02 25	703	0.4−	0.2−	2000 03 11	704	0.1−	0.6+
1998 12 14	704	0.6−	0.2+	2000 02 25	703	0.1+	0.7+	2000 03 11	704	0.0	0.2+
1998 12 14	704	0.2−	0.0	2000 02 25	703	0.4−	0.3+	2000 03 11	704	0.3−	0.1−

2000 MAR. 20

M.P.C. 39421

1998 12 15	704	0.2+	0.3-	2000 02 02	703	(6.6-	1.8-)	2000 03 05	704	1.0-	0.2-
1998 12 15	704	0.5-	1.2-	2000 02 04	704	0.4+	0.4-	2000 03 05	704	0.0	0.3-
1998 12 15	704	1.3-	1.7+	2000 02 04	704	0.3+	0.2+	2000 03 05	704	0.7+	0.6+
1998 12 22	704	0.4-	1.7-	2000 02 04	704	0.4-	0.1+	2000 03 09	704	0.9+	0.6-
1998 12 22	704	1.4+	0.0	2000 02 04	704	0.5+	0.3+	2000 03 09	704	0.0	0.2-
1998 12 22	704	0.6+	0.7-	2000 02 04	704	1.3+	0.4-	2000 03 09	704	0.5+	0.4-
1998 12 22	704	0.9+	0.2-	2000 02 11	704	0.3+	0.1+	2000 03 09	704	0.5-	0.0
1999 12 05	704	0.0	0.1+	2000 02 11	704	0.1-	0.6+	2000 03 09	704	0.4-	1.2-
1999 12 05	704	1.2-	0.6+	2000 02 11	704	0.4+	0.1-	2000 03 11	699	0.8-	0.2+
1999 12 05	704	0.2-	0.0	2000 02 11	704	0.3+	0.4+	2000 03 11	699	0.4-	0.4-
2000 01 07	704	(2.4+	0.0)	2000 02 11	704	0.3+	1.0+	2000 03 11	699	0.7-	0.1+
2000 01 07	704	0.7+	0.8+	2000 02 25	703	0.0	0.3-	2000 03 11	699	0.7-	0.2-
2000 01 07	704	(2.1+	0.8+)	2000 02 25	703	0.6+	0.4-	2000 03 12	704	0.1-	0.7-
2000 01 07	704	0.1-	0.7+	2000 02 25	703	0.0	0.8+	2000 03 12	704	0.2+	0.2+
2000 02 02	703	0.2+	0.6+	2000 02 25	703	0.3-	0.1+	2000 03 12	704	0.2-	0.2-

2000 CY₈₄ = 1997 SH₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	355.70336		(2000.0)		P		Q
<i>n</i>	0.18237523	ω	174.40304	-0.93615208		-0.34798684	
<i>a</i>	3.0795846	Ω	344.93426	+0.31461926		-0.76531105	
<i>e</i>	0.1832927	<i>i</i>	11.14540	+0.15695224		-0.54148330	
<i>P</i>	5.40	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 09 28	691	0.1-	0.6+	1999 11 16	703	1.1+	1.7-	2000 02 11	704	0.8+	0.7+
1997 09 28	691	0.1-	0.7+	1999 12 15	704	(0.7+	3.0-)	2000 02 25	703	0.1-	0.3+
1997 09 28	691	0.4-	0.5+	1999 12 15	704	(0.6-	2.6-)	2000 02 25	703	0.5-	0.1+
1997 10 03	691	0.2-	0.7+	1999 12 15	704	0.0	1.1-	2000 02 25	703	0.0	0.1+
1997 10 03	691	0.7-	0.7+	1999 12 15	704	0.6+	1.2-	2000 02 25	703	0.2-	0.3+
1997 10 03	691	0.6-	0.5+	2000 02 04	704	0.3+	0.0	2000 03 05	704	0.0	0.2-
1998 11 14	704	0.3+	0.1+	2000 02 04	704	0.4+	0.9+	2000 03 05	704	0.5+	0.2-
1998 11 14	704	0.6-	0.1-	2000 02 04	704	0.1-	0.8+	2000 03 05	704	0.7-	0.4-
1998 11 14	704	0.9+	0.4-	2000 02 04	704	0.2+	1.0+	2000 03 05	704	0.9+	0.1+
1998 11 14	704	1.1-	0.6-	2000 02 04	704	0.3+	0.3+	2000 03 11	704	0.0	0.2-
1998 11 14	704	(7.3-	0.8-)	2000 02 06	703	0.7-	0.2-	2000 03 11	704	0.0	0.2+
1998 12 09	704	1.7+	1.7+	2000 02 06	703	0.4-	0.1-	2000 03 11	704	0.3+	0.3+
1998 12 09	704	0.5-	0.0	2000 02 06	703	0.3-	0.1+	2000 03 11	704	0.2-	0.4+
1998 12 09	704	0.3+	1.3-	2000 02 06	703	0.5-	0.4-	2000 03 11	704	0.0	0.3+
1998 12 09	704	0.8-	0.3-	2000 02 11	704	0.3+	0.1-	2000 03 11	699	0.1-	0.1+
1999 11 16	703	0.9-	1.5+	2000 02 11	704	0.5+	0.0	2000 03 11	699	0.2-	0.0
1999 11 16	703	(2.5+	1.5+)	2000 02 11	704	0.5+	0.3-	2000 03 11	699	0.1-	0.0
1999 11 16	703	(2.6+	1.4+)	2000 02 11	704	0.7+	0.2+	2000 03 11	699	0.2-	0.3+

2000 CZ₈₄ = 1998 WH₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	82.07441		(2000.0)		P		Q
<i>n</i>	0.17776899	ω	305.34008	+0.56116102		-0.82187356	
<i>a</i>	3.1325551	Ω	110.23296	+0.78928684		+0.49565497	
<i>e</i>	0.1367697	<i>i</i>	6.00087	+0.24924807		+0.28080243	
<i>P</i>	5.54	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 21	704	1.1-	1.1+	2000 02 04	704	0.5-	0.1-	2000 02 25	703	0.2+	1.6+
1998 11 21	704	1.1+	0.2-	2000 02 04	704	0.2+	1.4+	2000 02 25	703	1.2-	0.3-
1998 11 21	704	0.7-	0.8-	2000 02 04	704	1.2+	0.2+	2000 03 05	704	0.4-	0.6+
1998 11 21	704	(3.6-	0.8+)	2000 02 06	703	0.1+	0.0	2000 03 05	704	0.1+	0.3-
1998 11 24	704	0.4+	1.0+	2000 02 06	703	1.2+	0.3-	2000 03 05	704	0.1+	0.1-
1998 11 24	704	0.8+	0.1-	2000 02 06	703	0.1-	0.2-	2000 03 05	704	0.3-	0.3+
1998 11 24	704	0.5+	0.3-	2000 02 06	703	0.3-	0.8-	2000 03 05	704	0.2-	0.2+
1998 11 24	704	1.1-	0.6-	2000 02 11	704	0.6-	1.3-	2000 03 12	704	0.8+	0.4-
2000 02 02	703	0.2+	0.1-	2000 02 11	704	0.2-	0.6-	2000 03 12	704	0.0	0.6-
2000 02 02	703	(2.1-	0.8+)	2000 02 11	704	0.5+	0.9+	2000 03 12	704	0.6-	0.3+
2000 02 02	703	0.3-	0.4-	2000 02 11	704	0.0	0.1+	2000 03 12	704	0.8+	0.2-
2000 02 02	703	(2.2+	0.9+)	2000 02 25	703	1.4-	0.1-	2000 03 12	704	0.6+	0.0
2000 02 04	704	0.5-	0.1+	2000 02 25	703	0.7+	0.1-				

2000 CB₈₅ = 1980 FK = 1990 DY₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	70.70478		(2000.0)		P		Q
<i>n</i>	0.29378241	ω	72.78734	+0.33217153		-0.94321632	
<i>a</i>	2.2410533	Ω	357.80820	+0.84154177		+0.29743862	
<i>e</i>	0.1095128	<i>i</i>	3.36660	+0.42599239		+0.14789603	
<i>P</i>	3.35	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1980 03 16	809	0.0	0.4+	1999 11 16	704	0.4-	0.0	2000 03 04	704	0.5+	0.1-
1980 03 16	809	0.9+	0.2+	2000 02 02	703	0.2+	0.4-	2000 03 04	704	0.0	0.2-
1980 03 16	809	0.1+	0.5+	2000 02 02	703	0.6+	0.0	2000 03 04	704	0.4+	0.4-
1980 03 16	809	0.0	1.1+	2000 02 02	703	0.1+	0.2+	2000 03 04	046	1.2+	0.7+
1980 03 17	809	0.3+	0.4+	2000 02 02	703	0.2-	0.0	2000 03 04	046	0.1-	0.4+
1980 03 17	809	0.3-	1.1+	2000 02 04	704	1.3+	0.6+	2000 03 04	046	0.4+	0.2+
1980 03 17	809	0.2+	0.4+	2000 02 04	704	0.5-	1.7+	2000 03 04	046	0.2+	1.0-
1980 03 17	809	1.3+	0.7-	2000 02 04	704	0.2-	0.2+	2000 03 04	046	0.7+	0.3-
1990 02 25	809	0.6-	0.5-	2000 02 04	704	0.1+	0.0	2000 03 04	046	0.1+	0.3+
1990 02 25	809	0.6-	0.9-	2000 02 04	704	0.0	0.2-	2000 03 04	046	0.6+	0.1+
1990 02 25	809	1.1-	1.4-	2000 02 11	704	0.5+	0.0	2000 03 04	046	0.2+	0.4+
1997 04 01	809	0.5-	0.4+	2000 02 11	704	0.1-	0.1+	2000 03 04	046	0.5+	0.2+
1997 04 01	809	0.7-	0.5-	2000 02 11	704	0.2-	0.2+	2000 03 04	046	0.1+	0.2+
1997 04 01	809	0.7-	1.1-	2000 02 11	704	0.3-	0.1-	2000 03 04	046	0.4+	0.2+
1998 08 17	704	1.6+	1.4+	2000 02 11	704	0.1+	0.2-	2000 03 04	046	0.3+	0.1+
1998 08 17	704	0.2+	1.4+	2000 02 25	703	0.7-	0.2+	2000 03 05	704	0.0	0.2+
1998 08 17	704	0.2-	1.5+	2000 02 25	703	0.7-	0.3-	2000 03 05	704	1.0+	0.8+
1998 08 17	704	(2.1+	2.2-)	2000 02 25	703	0.3+	0.0	2000 03 05	704	0.4+	0.6+
1998 08 17	704	0.9-	0.1+	2000 02 25	703	0.0	0.0	2000 03 05	704	0.0	0.5+
1998 08 22	566	0.6-	0.5-	2000 02 28	704	0.0	0.2-	2000 03 05	704	0.2+	0.3+
1998 08 22	566	0.6-	0.7-	2000 02 28	704	0.2-	0.4-	2000 03 05	046	0.0	0.2+
1998 08 22	566	0.3-	0.3-	2000 02 28	704	0.2-	0.0	2000 03 05	046	0.0	0.5+
1998 09 21	699	0.5-	0.9+	2000 02 28	704	0.4-	0.3-	2000 03 05	046	0.1-	0.0
1998 09 21	699	0.4-	0.8+	2000 03 03	704	0.4+	0.3+	2000 03 05	046	0.3+	0.0
1998 09 21	699	0.3-	0.6+	2000 03 03	704	0.9-	0.3+	2000 03 11	704	0.2-	0.7-
1999 11 16	704	1.3-	0.7+	2000 03 03	704	0.3+	0.0	2000 03 11	704	0.1-	0.1-
1999 11 16	704	1.3-	0.8+	2000 03 03	704	1.0+	0.3-	2000 03 11	704	0.2-	0.0
1999 11 16	704	0.7-	0.3-	2000 03 03	704	1.3-	0.1+	2000 03 11	704	0.1-	0.0
1999 11 16	704	0.5-	0.5+	2000 03 04	704	0.1+	0.0	2000 03 11	704	0.3-	0.4-

2000 CG₈₅ = 1994 BP

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	114.61804		(2000.0)		P		Q
<i>n</i>	0.16961146	ω	53.07960	+0.84828625		-0.51924572	
<i>a</i>	3.2322076	Ω	337.62189	+0.35590665		+0.70433597	
<i>e</i>	0.0913980	<i>i</i>	15.83660	+0.39209807		+0.48404000	
<i>P</i>	5.81	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 01 12	675	1.2+	1.2-	2000 02 04	704	0.7+	0.1+	2000 02 29	704	0.8-	0.0
1994 01 12	675	(0.3-	2.4-)	2000 02 04	704	0.7+	0.4+	2000 03 03	704	0.1+	0.2+
1994 01 17	098	1.4-	0.6-	2000 02 04	704	0.6+	0.1+	2000 03 03	704	0.1-	0.1+
1994 01 17	098	1.3-	0.8-	2000 02 04	704	1.8+	1.4+	2000 03 03	704	0.2+	0.4+
1994 01 18	098	(3.1-	0.4-)	2000 02 04	704	0.1+	0.7+	2000 03 03	704	0.2-	0.6+
1994 01 19	098	1.0-	0.7-	2000 02 04	704	0.5+	0.0	2000 03 03	704	0.4+	0.2+
1998 11 16	704	0.9+	1.2-	2000 02 04	704	0.2+	0.5+	2000 03 05	704	0.3+	0.2-
1998 11 16	704	1.2-	1.0-	2000 02 11	704	0.4+	0.6-	2000 03 05	704	0.0	0.2-
1998 11 16	704	1.4+	1.1-	2000 02 11	704	0.5-	0.3+	2000 03 05	704	0.1-	0.3-
1998 11 16	704	(4.6-	0.7+)	2000 02 11	704	0.3-	0.2-	2000 03 05	704	0.3-	0.7-
1998 12 12	704	0.5-	0.5+	2000 02 11	704	0.7-	0.3-	2000 03 05	704	0.3+	0.2-
1998 12 12	704	0.7+	1.1+	2000 02 11	704	0.4-	0.2-	2000 03 11	704	0.5+	0.1+
1998 12 12	704	1.6-	0.5+	2000 02 25	703	0.3-	0.6+	2000 03 11	704	0.2+	0.5-
1998 12 12	704	0.1+	1.8+	2000 02 25	703	0.6-	0.0	2000 03 11	704	0.2+	0.1+
2000 02 01	703	0.7+	0.4+	2000 02 25	703	0.6-	0.1+	2000 03 11	704	0.0	0.1-
2000 02 01	703	0.3+	0.4+	2000 02 25	703	0.3-	0.1-	2000 03 11	704	0.2+	0.3+
2000 02 01	703	0.2+	0.1-	2000 02 29	704	0.6-	0.2-	2000 03 11	699	0.1+	0.3-
2000 02 01	703	0.3+	0.2+	2000 02 29	704	0.6-	0.2+	2000 03 11	699	0.1+	0.4-

M.P.C. 39422

2000 MAR. 20

2000 02 04	704	0.5+	0.3+	2000 02 29	704	0.8−	0.3+	2000 03 11	699	0.3+	0.6−
2000 02 04	704	0.5+	0.1+	2000 02 29	704	0.7−	0.0	2000 03 11	699	0.2+	0.4−

2000 CH₈₅ = 1998 SW₁₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21451515	ω	70.81931	+0.50757623	−0.86107242		
<i>a</i>	2.7637414	Ω	348.53179	+0.72203451	+0.44430556		
<i>e</i>	0.1427131	<i>i</i>	8.77814	+0.47014097	+0.24727892		
<i>P</i>	4.59	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 17	699	0.3+	0.6−	2000 02 01	703	0.3−	0.9−	2000 03 05	704	1.0−	0.2+
1998 09 17	699	0.5+	0.1+	2000 02 04	704	0.0	1.1+	2000 03 05	704	0.2+	0.6+
1998 09 17	699	0.4−	0.7+	2000 02 04	704	0.4+	0.7−	2000 03 05	704	0.2−	0.3+
1998 09 26	704	0.1−	1.3−	2000 02 04	704	0.2−	0.1+	2000 03 11	704	0.8−	0.1−
1998 09 26	704	0.5−	1.6−	2000 02 04	704	0.0	1.2−	2000 03 11	704	0.0	0.6−
1998 09 26	704	0.6+	0.1+	2000 02 04	704	0.1−	0.5+	2000 03 11	704	0.0	0.5−
1998 09 26	704	1.5+	1.2−	2000 02 11	704	0.1−	0.2−	2000 03 11	704	0.2+	0.6−
1998 09 26	704	0.2+	1.3−	2000 02 11	704	0.2+	0.1+	2000 03 11	704	0.3−	0.1−
1998 09 27	704	0.5−	1.9+	2000 02 11	704	0.4−	0.7+	2000 03 11	699	(1.4+ 2.5+)	
1998 09 27	704	0.1+	1.8+	2000 02 11	704	0.5+	0.5+	2000 03 11	699	0.4+	0.7+
1998 09 27	704	0.2+	0.8+	2000 02 11	704	0.0	0.1−	2000 03 11	699	1.0+	0.2+
1998 10 12	699	0.8−	0.8+	2000 02 25	703	1.0−	0.3+	2000 03 11	699	0.6+	0.3+
1998 10 12	699	0.1+	0.1−	2000 02 25	703	0.7−	0.2+	2000 03 11	608	1.0+	1.1−
1998 10 12	699	0.8−	0.4−	2000 02 25	703	1.0−	0.4+	2000 03 11	608	0.2+	0.7−
2000 02 01	703	0.4+	0.2+	2000 02 25	703	0.2+	0.1−	2000 03 11	608	0.7+	0.9−
2000 02 01	703	0.3−	0.3+	2000 03 05	704	0.0	0.9+				
2000 02 01	703	0.6+	0.5−	2000 03 05	704	0.1+	0.5+				

2000 CM₈₅ = 1998 RU₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23151142	ω	60.58000	+0.24780229	−0.96869358		
<i>a</i>	2.6267643	Ω	15.09495	+0.86762878	+0.21497918		
<i>e</i>	0.1417216	<i>i</i>	3.31502	+0.43106186	+0.12416399		
<i>P</i>	4.26	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	1.5+	0.5−	1998 09 27	704	1.2+	0.1+	2000 03 05	704	0.4+	0.9+
1998 09 14	704	0.0	0.1+	1998 09 27	704	0.3−	0.1−	2000 03 09	704	0.6−	0.6−
1998 09 14	704	(2.3+ 0.5+)		1998 09 27	704	0.9+	0.6−	2000 03 09	704	0.7−	0.4−
1998 09 18	704	0.6−	1.1+	2000 02 04	704	0.7−	0.4−	2000 03 09	704	0.4+	1.4+
1998 09 18	704	0.1−	0.1+	2000 02 04	704	0.7+	0.2+	2000 03 09	704	0.3−	0.6+
1998 09 18	704	1.4+	1.1−	2000 02 04	704	0.5+	0.3−	2000 03 11	699	0.0	0.0
1998 09 18	704	0.7+	0.0	2000 02 04	704	0.4−	0.2−	2000 03 11	699	0.1−	0.5−
1998 09 18	704	0.4−	1.2+	2000 02 04	704	0.0	0.4+	2000 03 11	699	0.3+	0.3+
1998 09 26	704	1.4−	0.3−	2000 02 11	704	1.0−	1.2−	2000 03 11	699	0.6−	0.0
1998 09 26	704	1.9−	0.5−	2000 02 11	704	0.0	0.2−	2000 03 12	704	0.1−	0.1+
1998 09 26	704	0.7+	1.5+	2000 02 11	704	0.8−	0.2−	2000 03 12	704	0.3+	0.5+
1998 09 26	704	1.4−	0.1+	2000 03 05	704	0.4−	0.2+	2000 03 12	704	0.5+	0.1−
1998 09 26	704	1.2−	1.2−	2000 03 05	704	0.9+	0.2+	2000 03 12	704	0.1+	0.6−
1998 09 27	704	0.4−	0.0	2000 03 05	704	0.0	0.3−	2000 03 12	704	1.0+	0.3+
1998 09 27	704	1.1+	0.5+	2000 03 05	704	0.7+	0.5+				

2000 CQ₈₅ = 1950 RX = 1980 RW₄ = 1998 XX₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23098246	ω	284.71149	−0.07376283	+0.99469007		
<i>a</i>	2.6307730	Ω	340.62177	−0.81140525	−0.10169918		
<i>e</i>	0.1575974	<i>i</i>	12.49172	−0.57981080	+0.01577773		
<i>P</i>	4.27	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1950 09 14	839	0.0	0.1−	Y	2000 02 01	703	0.2+	0.2+	2000 02 29	704	0.4+	0.3+
1980 09 08	095	1.2−	1.8+		2000 02 04	704	0.4+	0.3−	2000 02 29	704	0.6−	0.4+
1998 12 14	704	0.4−	0.2−		2000 02 04	704	0.6+	0.5+	2000 03 03	704	0.0	0.4+
1998 12 14	704	0.4−	0.0		2000 02 04	704	0.8+	0.1−	2000 03 03	704	0.0	0.0
1998 12 14	704	1.3−	0.8+		2000 02 04	704	0.5+	0.1−	2000 03 03	704	0.1+	0.2+
1998 12 14	704	1.5−	1.4−		2000 02 04	704	0.1+	0.9−	2000 03 03	704	0.1−	0.0
1998 12 14	704	(2.5− 0.4+)			2000 02 04	704	0.5+	0.2+	2000 03 03	704	0.3−	0.0
1998 12 17	704	0.1−	0.2−		2000 02 04	704	0.4+	1.1−	2000 03 05	704	0.2−	0.2+
1998 12 17	704	1.0−	0.1+		2000 02 04	704	0.6+	0.4+	2000 03 05	704	0.3−	0.2+
1998 12 17	704	0.1+	0.7+		2000 02 04	704	0.5−	1.3−	2000 03 05	704	0.3−	0.3+
1998 12 17	704	0.5+	0.2−		2000 02 04	704	0.4+	0.5+	2000 03 05	704	0.1−	0.2+
1998 12 17	704	0.9+	0.0		2000 02 11	704	0.2−	0.2−	2000 03 05	704	0.2−	0.4+
1999 01 08	704	0.2+	0.1+		2000 02 11	704	0.6−	0.2−	2000 03 11	704	0.6+	0.3+
1999 01 08	704	1.6+	0.0		2000 02 11	704	0.4+	0.8−	2000 03 11	704	0.3−	0.0
1999 01 08	704	1.6+	0.0		2000 02 11	704	0.5−	0.2−	2000 03 11	704	0.4−	0.1+
1999 01 08	704	(5.2− 0.2+)			2000 02 11	704	0.8−	0.6−	2000 03 11	704	0.2−	0.4+
1999 12 15	704	0.6−	0.7+		2000 02 25	703	0.0	0.2+	2000 03 11	704	0.1+	0.3+
1999 12 15	704	2.0+	0.5+		2000 02 25	703	0.0	0.5+	2000 03 11	699	0.1−	0.0
1999 12 15	704	0.4−	0.5−		2000 02 25	703	0.1−	0.2+	2000 03 11	699	0.1−	0.2+
1999 12 15	704	0.3+	0.7−		2000 02 25	703	0.2−	0.2+	2000 03 11	699	0.2−	0.1+
2000 02 01	703	0.3−	0.1+		2000 02 29	704	0.5+	0.3+	2000 03 11	699	0.2−	0.0
2000 02 01	703	0.1−	0.3−		2000 02 29	704	0.3+	0.2+				
2000 02 01	703	0.3+	0.1−		2000 02 29	704	0.3+	0.2+				

2000 CA₈₆ = 1995 FK₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18667014	ω	143.63030	−0.99988636	+0.01459745		
<i>a</i>	3.0321649	Ω	37.20664	−0.01487896	−0.91537807		
<i>e</i>	0.1109147	<i>i</i>	0.35682	−0.00242568	−0.40233058		
<i>P</i>	5.28	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 03 27	691	0.3−	0.1+	2000 02 11	704	0.1+	0.4−	2000 03 03	704	0.1+	0.1−
1995 03 27	691	0.1−	0.2+	2000 02 11	704	0.3+	0.5−	2000 03 03	704	0.1+	0.3−
1995 03 27	691	0.0	0.4+	2000 02 11	704	0.1+	0.2−	2000 03 04	704	0.1+	0.3+
1995 03 28	691	0.0	0.2+	2000 02 11	704	0.2−	0.4+	2000 03 04	704	0.3+	0.4+
1995 03 28	691	0.0	0.8−	2000 02 25	703	0.2−	0.1+	2000 03 04	704	0.0	1.0+
1995 03 28	691	0.4+	0.1−	2000 02 25	703	0.1−	0.1+	2000 03 04	704	0.2−	0.1−
2000 02 01	703	0.7−	0.5+	2000 02 25	703	0.4+	0.2−	2000 03 04	704	0.6+	0.3+
2000 02 01	703	0.5+	0.7−	2000 02 25	703	0.2−	0.7+	2000 03 11	704	0.4+	0.2−
2000 02 01	703	0.0	0.2−	2000 02 29	704	0.1−	0.0	2000 03 11	704	0.3+	0.1−
2000 02 01	703	0.3−	0.4−	2000 02 29	704	0.4−	0.2−	2000 03 11	699	0.4−	0.4−
2000 02 04	704	0.0	0.1+	2000 02 29	704	0.7−	0.0	2000 03 11	704	0.3−	0.0
2000 02 04	704	0.4+	0.0	2000 02 29	704	0.0	0.1+	2000 03 11	704	0.2−	0.2−
2000 02 04	704	0.1+	0.3+	2000 02 29	704	0.2−	0.1−	2000 03 11	699	0.2−	0.1−
2000 02 04	704	0.1+	0.6−	2000 03 03	704	0.0	0.1−	2000 03 11	699	0.0	0.1+
2000 02 04	704	0.3+	0.3+	2000 03 03	704	0.2+	0.1+	2000 03 11	699	0.2−	0.0
2000 02 11	704	0.1+	0.1+	2000 03 03	704	0.1+	0.0				

2000 CC₈₆ = 1998 SY₁₀₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	218.21807		(2000.0)	P	Q
n	0.29288998	ω	327.45224	+0.52033907	+0.85260936
a	2.2456033	Ω	333.80829	−0.75837536	+0.43552373
e	0.0571933	i	6.24403	−0.39257365	+0.28874964
P	3.37	H	14.9	G 0.15	U 4

2000 MAR. 20

M.P.C. 39423

1998 09 27	704	(2.4+	2.0−)	2000 02 11	704	0.0	0.8−	2000 03 11	704	0.3+	0.4−
1998 09 27	704	(2.9+	3.0−)	2000 02 25	703	0.7−	0.3−	2000 03 11	704	0.3+	0.4−
1998 10 12	699	1.4+	0.0	2000 02 25	703	1.2−	0.4+	2000 03 11	704	0.1−	0.2+
1998 10 12	699	0.3+	0.1+	2000 02 25	703	0.5−	0.3+	2000 03 11	704	0.2−	0.1−
1998 10 12	699	0.1+	0.4+	2000 02 25	703	0.8−	0.6+	2000 03 11	704	0.0	0.2+
1998 11 20	699	0.1−	0.8+	2000 02 29	704	0.3+	0.4+	2000 03 11	699	0.6−	0.6−
1998 11 20	699	0.8−	1.3+	2000 02 29	704	0.3+	0.7+	2000 03 11	699	0.4−	0.2−
1998 11 20	699	0.2−	0.0	2000 02 29	704	0.1−	0.3+	2000 03 11	699	0.4−	0.3−
2000 02 04	704	1.1+	0.3−	2000 02 29	704	0.2+	0.6+	2000 03 11	699	0.3−	0.2−

2000 CF₈₆ = 1993 KL₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26450367	<i>ω</i>	244.45034	+0.12240182	+0.99224220		
<i>a</i>	2.4035228	<i>Ω</i>	32.60328	−0.89548079	+0.11986318		
<i>e</i>	0.2043576	<i>i</i>	2.31381	−0.42793919	+0.03298851		
<i>P</i>	3.73	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 05 25	691	0.1+	0.1−	2000 02 11	704	0.8−	0.4−	2000 03 05	704	0.2+	0.5−
1993 05 25	691	0.0	0.3+	2000 02 29	704	0.2−	0.1+	2000 03 05	704	0.0	0.1−
1993 05 25	691	0.2+	0.0	2000 02 29	704	0.3−	0.1−	2000 03 05	704	0.3+	0.1−
1993 05 30	691	0.2−	0.1+	2000 02 29	704	0.0	0.9+	2000 03 05	704	0.5−	0.6−
1993 05 30	691	0.2−	0.0	2000 02 29	704	0.5−	0.1−	2000 03 06	704	0.5+	0.5+
1993 05 30	691	0.1+	0.2−	2000 02 29	704	0.0	0.8−	2000 03 06	704	0.0	0.3+
2000 02 04	704	0.2+	0.1−	2000 03 03	704	0.2−	0.2+	2000 03 06	704	0.7−	0.5−
2000 02 04	704	0.7+	0.7−	2000 03 03	704	0.2+	0.2+	2000 03 12	704	0.2−	0.4−
2000 02 04	704	0.0	0.3−	2000 03 03	704	0.4−	0.2+	2000 03 12	704	1.6+	0.1−
2000 02 04	704	0.1+	0.9+	2000 03 03	704	0.3+	0.2−	2000 03 12	704	0.5−	0.5+
2000 02 11	704	0.8+	0.8+	2000 03 03	704	0.1+	0.1+	2000 03 12	704	0.1−	0.1−
2000 02 11	704	0.2+	0.4+	2000 03 05	704	0.5−	0.1−	2000 03 12	704	0.2−	0.1−

2000 CJ₈₆ = 6804 P-L = 1996 AO₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25848272	<i>ω</i>	9.62403	−0.06522177	−0.99622127		
<i>a</i>	2.4407036	<i>Ω</i>	84.13144	+0.91165174	−0.08285836		
<i>e</i>	0.1448924	<i>i</i>	3.30520	+0.40575513	+0.02603209		
<i>P</i>	3.81	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.2−	0.6+	2000 02 04	704	0.5+	0.0	2000 03 05	704	0.1+	0.4+
1960 09 26	675	0.3−	0.4+	2000 02 04	704	0.1−	0.2+	2000 03 05	704	0.6+	0.0
1960 09 27	675	0.5−	0.1+	2000 02 04	704	0.7+	0.3−	2000 03 05	704	0.3+	0.3−
1960 09 28	675	0.5+	0.0	2000 02 11	704	0.5+	0.6−	2000 03 05	704	0.2+	0.5+
1996 01 12	691	0.2+	0.2−	2000 02 11	704	0.1+	0.4−	2000 03 09	704	0.5−	0.3−
1996 01 12	691	0.0	0.1+	2000 02 11	704	0.2+	0.5−	2000 03 09	704	0.3−	0.1−
1996 01 12	691	0.2−	0.2−	2000 02 25	703	0.3−	0.1+	2000 03 09	704	0.1−	0.0
1996 01 18	691	0.2+	0.1−	2000 02 25	703	0.7−	0.5+	2000 03 09	704	0.4+	0.5−
1996 01 18	691	0.1−	0.4−	2000 02 25	703	0.0	0.0	2000 03 09	704	0.3+	0.0
1996 01 18	691	0.3−	0.5−	2000 02 25	703	0.9+	1.3+	2000 03 11	699	0.2+	0.1−
2000 02 01	703	0.2+	0.2+	2000 02 29	704	0.2+	0.2+	2000 03 11	699	0.9−	0.6−
2000 02 01	703	0.2−	0.8+	2000 02 29	704	0.1+	0.2+	2000 03 11	699	0.5+	0.0
2000 02 01	703	0.4+	0.2+	2000 02 29	704	0.2−	0.0	2000 03 11	699	0.5−	0.0
2000 02 01	703	0.5−	0.2+	2000 02 29	704	0.3−	0.6+	2000 03 12	704	0.1+	0.5−
2000 02 04	704	0.3+	0.0	2000 02 29	704	1.0−	0.9+	2000 03 12	704	0.3+	0.5−
2000 02 04	704	0.9+	0.4−	2000 03 05	704	0.4−	0.1−	2000 03 12	704	1.3−	1.1+

2000 CK₈₆ = 1991 RD₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28263052	<i>ω</i>	224.73597	+0.94183007	+0.31830688		
<i>a</i>	2.2996232	<i>Ω</i>	116.42327	−0.26465832	+0.90024852		
<i>e</i>	0.1800051	<i>i</i>	6.91856	−0.20715232	+0.29704098		
<i>P</i>	3.49	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 09 11	675	0.9+	0.1−	1998 11 15	566	0.2−	0.6+	2000 02 29	704	0.0	0.1−
1991 09 11	675	0.4+	0.0	1998 11 15	566	0.5−	0.0	2000 02 29	704	0.3−	0.2+
1991 09 12	675	1.0+	1.9−	1998 11 15	566	0.4−	0.4+	2000 02 29	704	0.6−	0.4+
1991 09 12	675	0.0	1.2−	1999 01 11	704	1.1+	0.0	2000 02 29	704	0.3−	0.2+
1991 09 13	675	0.4+	0.2+	1999 01 11	704	0.3+	1.3+	2000 03 05	704	0.7−	0.4+
1991 09 16	675	0.5−	0.7−	1999 01 11	704	0.2+	0.1+	2000 03 05	704	0.5−	0.4−
1991 09 16	675	0.2−	0.7−	1999 01 11	704	1.3−	1.1−	2000 03 05	704	0.1−	0.6−
1998 09 24	699	0.0	1.6+	2000 02 04	704	0.5+	0.1−	2000 03 05	704	0.0	0.2−
1998 09 24	699	0.0	1.1+	2000 02 04	704	0.2−	0.0	2000 03 11	699	0.2+	0.5+
1998 09 24	699	0.3+	1.3+	2000 02 04	704	0.6−	0.4+	2000 03 11	699	0.9+	0.1+
1998 10 17	699	0.5−	0.0	2000 02 04	704	0.2+	0.0	2000 03 11	699	1.3+	0.1+
1998 10 17	699	0.3−	0.2+	2000 02 04	704	0.5−	0.2+	2000 03 11	699	0.4+	0.4−
1998 10 17	699	0.4−	0.1+	2000 02 11	704	0.3+	0.3+	2000 03 12	704	0.4+	0.5−
1998 11 13	704	1.2+	0.4−	2000 02 11	704	0.5−	0.9−	2000 03 12	704	0.5+	0.5+
1998 11 13	704	1.2+	0.2+	2000 02 11	704	0.7−	0.2−	2000 03 12	704	0.4+	0.5+
1998 11 13	704	(2.5−	5.2−)	2000 02 11	704	0.3−	1.0−	2000 03 12	704	0.4+	0.3−
1998 11 13	704	0.3−	0.3−	2000 02 11	704	0.4−	0.5−	2000 03 12	704	0.1−	0.5+
1998 11 13	704	1.8−	1.2−	2000 02 29	704	0.0	0.0				

2000 CP₈₆ = 1991 RR₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28808219	<i>ω</i>	217.64111	+0.78638747	+0.60965983		
<i>a</i>	2.2705189	<i>Ω</i>	104.49969	−0.53884519	+0.75579449		
<i>e</i>	0.1249963	<i>i</i>	5.90171	−0.30206060	+0.23893425		
<i>P</i>	3.42	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 09 12	675	0.6+	0.4−	2000 02 04	704	0.2+	0.2+	2000 03 08	704	0.2+	0.4−
1991 09 12	675	0.5−	0.5+	2000 02 11	704	0.8−	0.3−	2000 03 08	704	0.0	0.9−
1991 09 17	675	0.6+	1.0−	2000 02 11	704	0.2−	0.1+	2000 03 08	704	0.3−	0.7−
1991 09 17	675	0.1+	0.8−	2000 02 11	704	0.3+	0.2+	2000 03 08	704	0.1−	1.1−
1998 11 13	704	0.7+	0.6+	2000 02 11	704	0.1−	0.3+	2000 03 08	704	0.1−	1.2−
1998 11 13	704	0.6−	0.3+	2000 02 11	704	0.1−	0.3+	2000 03 09	704	0.1+	0.1+
1998 11 13	704	0.2+	1.6+	2000 02 25	703	0.1+	0.4−	2000 03 09	704	0.0	0.0
1998 11 13	704	0.4+	0.1−	2000 02 25	703	0.9−	0.1−	2000 03 09	704	0.0	0.3+
1998 11 13	704	0.9−	0.8−	2000 02 25	703	0.4−	0.2−	2000 03 09	704	0.1−	0.1+
1998 12 11	699	0.2+	0.3−	2000 02 25	703	0.1−	0.2−	2000 03 09	704	0.1−	0.2+
1998 12 11	699	0.1−	0.3−	2000 02 29	704	0.4+	0.2+	2000 03 11	699	0.1+	0.4+
1998 12 11	699	0.6−	0.1+	2000 02 29	704	0.2+	0.4+	2000 03 11	699	0.6+	0.5+
2000 02 01	703	1.5−	0.4−	2000 02 29	704	0.2+	0.3+	2000 03 11	699	0.0	0.5+
2000 02 01	703	0.1+	1.0−	2000 02 29	704	0.4+	0.6+	2000 03 11	699	0.2+	0.3+
2000 02 01	703	0.0	0.0	2000 02 29	704	0.3+	0.3−	2000 03 12	704	0.0	0.1−
2000 02 01	703	0.1−	0.4−	2000 03 05	704	0.2+	0.2+	2000 03 12	704	0.2+	0.3+
2000 02 04	704	0.1−	0.4−	2000 03 05	704	0.1+	0.9+	2000 03 12	704	0.3−	0.5+
2000 02 04	704	0.4+	1.0−	2000 03 05	704	0.4+	0.4+	2000 03 12	704	0.0	0.0
2000 02 04	704	0.0	0.3−	2000 03 05	704	0.1+	0.6+	2000 03 12	704	0.2+	0.4+
2000 02 04	704	0.2+	0.8−	2000 03 05	704	0.6−	0.6+				

M.P.C. 39424

2000 MAR. 20

2000 02 04	704	0.2−	0.8−	2000 03 05	704	0.4−	0.5+	2000 03 11	704	0.0	0.1−
2000 02 04	704	1.2−	0.9+	2000 03 05	704	0.3+	0.6−	2000 03 11	704	0.2+	0.1−
2000 02 04	704	0.1+	0.8−	2000 03 05	704	0.4+	0.1+	2000 03 11	699	0.1−	0.6+
2000 02 04	704	0.1+	0.4+	2000 03 05	704	0.2−	0.4−	2000 03 11	699	0.1−	0.2+
2000 02 11	704	0.1−	1.0+	2000 03 09	704	0.1+	0.3+	2000 03 11	699	0.8−	0.4+
2000 02 11	704	0.5+	0.3−	2000 03 09	704	0.2+	0.1+				

2000 CV₈₆ = 1987 BU

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	51.81535	(2000.0)	P	Q	
<i>n</i>	0.22999097	ω 318.31842	+0.17518059	−0.97989342	
<i>a</i>	2.6383284	Ω 121.38497	+0.93030369	+0.13300010	
<i>e</i>	0.2393461	<i>i</i> 6.42313	+0.32225270	+0.14872744	
<i>P</i>	4.29	<i>H</i> 14.6	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1987 01 26	033	0.4−	0.3−	2000 02 11	704	0.2+	0.3+	2000 03 05	704	0.3−	0.2−
1987 01 27	033	0.1+	0.1+	2000 02 11	704	0.2+	0.0	2000 03 11	699	0.3+	0.5−
1987 01 28	033	0.2+	0.2−	2000 02 11	704	0.1+	0.2−	2000 03 11	699	0.3+	0.9−
2000 01 07	704	1.2−	0.8+	2000 02 11	704	0.7−	0.1+	2000 03 11	699	0.0	0.6−
2000 01 07	704	0.4+	0.2+	2000 02 25	703	0.1−	0.4+	2000 03 11	699	0.6−	0.5+
2000 01 07	704	0.3+	0.4−	2000 02 25	703	0.5+	0.4−	2000 03 12	704	0.2+	0.2+
2000 02 04	704	1.6+	1.1+	2000 02 25	703	0.6−	0.6−	2000 03 12	704	0.2+	0.2−
2000 02 04	704	0.5+	0.7+	2000 02 25	703	0.2−	0.4+	2000 03 12	704	0.1+	0.1−
2000 02 04	704	0.5−	0.9−	2000 03 05	704	0.0	0.0	2000 03 12	704	0.3+	0.7+
2000 02 04	704	0.2−	0.6−	2000 03 05	704	0.5−	0.3+	2000 03 12	704	0.1+	0.3+
2000 02 04	704	0.2−	0.1−	2000 03 05	704	0.7−	0.2+				
2000 02 11	704	0.8+	0.3+	2000 03 05	704	0.2−	0.0				

2000 CD₈₇ = 1997 EN₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	250.80102	(2000.0)	P	Q	
<i>n</i>	0.30434161	ω 296.77310	+0.18328211	+0.98269784	
<i>a</i>	2.1889130	Ω 343.72160	−0.86473904	+0.14824683	
<i>e</i>	0.1472766	<i>i</i> 5.46486	−0.46758321	+0.11103075	
<i>P</i>	3.24	<i>H</i> 14.7	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1997 03 11	809	(4.2−	0.5−)	2000 02 11	704	0.2+	0.3−	2000 03 03	704	0.0	0.5−
1997 03 11	809	(4.2−	1.3−)	2000 02 11	704	0.2−	0.4+	2000 03 03	704	1.1+	1.0−
1997 03 11	809	(4.5−	1.3−)	2000 02 11	704	0.1−	0.4+	2000 03 04	704	0.2−	0.4−
1997 03 12	809	1.2+	1.3+	2000 02 11	704	0.3+	0.1+	2000 03 04	704	0.9−	0.4+
1997 03 12	809	0.1+	1.1+	2000 02 25	703	0.2−	0.0	2000 03 04	704	0.1−	0.2+
1997 03 12	809	0.4+	1.0+	2000 02 25	703	0.4−	0.5−	2000 03 04	704	0.0	0.3−
1998 11 10	704	0.0	1.4+	2000 02 25	703	0.3−	0.2−	2000 03 04	704	0.0	0.1+
1998 11 10	704	(0.3−	2.9+)	2000 02 25	703	0.4−	0.0	2000 03 11	704	0.6+	0.6−
1998 11 10	704	0.5−	0.0	2000 02 29	704	0.1+	0.0	2000 03 11	704	0.1+	0.3−
1998 11 10	704	(6.4−	1.6+)	2000 02 29	704	0.2+	0.1+	2000 03 11	704	0.0	0.1−
2000 02 04	704	0.3+	0.1+	2000 02 29	704	0.2+	0.2−	2000 03 11	699	0.3−	0.1−
2000 02 04	704	1.0+	0.5+	2000 02 29	704	0.2+	0.0	2000 03 11	704	0.6−	0.4−
2000 02 04	704	0.5+	0.5+	2000 02 29	704	0.1+	0.0	2000 03 11	704	0.7−	0.6+
2000 02 04	704	0.5−	1.1+	2000 03 03	704	0.1−	0.0	2000 03 11	699	0.6−	0.6−
2000 02 04	704	0.3+	0.5−	2000 03 03	704	0.3−	0.4−	2000 03 11	699	0.7−	0.1+
2000 02 11	704	1.2+	0.0	2000 03 03	704	0.2−	0.2−	2000 03 11	699	0.5−	0.1−

2000 CE₈₇ = 1998 SG₁₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	20.58309	(2000.0)	P	Q	
<i>n</i>	0.26913272	ω 348.55055	−0.68996720	−0.72086280	
<i>a</i>	2.3758830	Ω 145.01784	+0.67281722	−0.67211135	
<i>e</i>	0.0473680	<i>i</i> 6.56925	+0.26694990	−0.16918380	
<i>P</i>	3.66	<i>H</i> 15.4	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 09 26	704	0.4−	0.2−	2000 02 11	704	1.0−	0.9−	2000 03 04	704	0.2−	0.4−
1998 09 26	704	1.5+	0.8−	2000 02 11	704	0.3+	0.8+	2000 03 04	704	0.5−	0.0
1998 09 26	704	0.3+	1.6−	2000 02 11	704	0.4+	0.3+	2000 03 04	704	0.0	0.4−
1998 09 26	704	0.7−	1.2+	2000 02 11	704	0.1+	0.7+	2000 03 05	704	0.2−	0.1−
1998 09 26	704	0.0	1.5+	2000 02 25	703	0.8−	0.2−	2000 03 05	704	0.5−	0.3−
1998 09 27	704	(3.3−	1.0+)	2000 02 25	703	1.0+	0.4+	2000 03 05	704	0.3−	1.0−
1998 09 27	704	(4.0−	0.5+)	2000 02 25	703	0.8+	0.5−	2000 03 05	704	0.1−	0.4+
1998 09 27	704	0.7+	0.7+	2000 02 25	703	0.3−	1.0−	2000 03 05	704	0.1−	0.4−
1998 09 27	704	1.3−	0.8−	2000 02 29	704	0.6+	0.5+	2000 03 12	704	0.2−	0.3+
2000 02 04	704	0.3−	0.4−	2000 02 29	704	0.6+	0.6+	2000 03 12	704	0.3−	0.3−
2000 02 04	704	0.3+	0.5+	2000 02 29	704	0.8+	0.4+	2000 03 12	704	0.2−	0.1+
2000 02 04	704	1.0+	0.5−	2000 02 29	704	1.3+	0.8+	2000 03 12	704	0.0	0.3+
2000 02 05	695	0.9−	0.3+	2000 02 29	704	0.6+	0.4+	2000 03 12	704	0.1−	0.2+
2000 02 05	695	0.8−	0.2+	2000 03 04	704	0.2−	0.0				
2000 02 11	704	0.5−	0.5−	2000 03 04	704	0.4−	0.2−				

2000 CH₈₇ = 1976 UM₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	240.96189	(2000.0)	P	Q	
<i>n</i>	0.23067831	ω 192.54846	+0.39051725	+0.91997133	
<i>a</i>	2.6330850	Ω 100.44613	−0.84162312	+0.37169592	
<i>e</i>	0.1793734	<i>i</i> 1.97530	−0.37305067	+0.12447852	
<i>P</i>	4.27	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 2	

Residuals in seconds of arc

1976 10 22	381	0.0	2.2+	2000 02 11	704	0.6+	0.3−	2000 03 09	704	0.3+	0.0
1976 10 22	381	0.8−	1.6+	2000 02 11	704	0.0	0.7+	2000 03 09	704	0.2+	0.5−
1976 10 24	381	1.0−	0.5+	2000 02 11	704	0.2+	0.4−	2000 03 09	704	0.4+	0.3+
1997 07 29	910	0.0	0.2+	2000 02 25	703	1.5−	1.7+	2000 03 09	704	0.5+	0.2+
1997 07 29	910	0.3−	0.4+	2000 02 25	703	0.5−	0.5+	2000 03 09	704	0.5+	0.2+
1997 07 29	910	0.0	0.0	2000 02 25	703	0.1+	0.7+	2000 03 11	704	0.0	0.1−
1998 12 16	704	0.1−	0.6−	2000 02 25	703	0.4+	1.1+	2000 03 11	704	0.6+	0.2+
1998 12 16	704	1.0+	1.8−	2000 03 05	704	1.5−	0.2−	2000 03 11	704	0.1+	0.1+
1998 12 16	704	(2.7+	0.0)	2000 03 05	704	0.4+	0.5−	2000 03 11	699	0.5−	0.7−
1998 12 16	704	0.6−	0.1−	2000 03 05	704	0.7−	0.8−	2000 03 11	704	0.1+	0.1+
1998 12 16	704	0.2+	1.5−	2000 03 05	704	0.7+	0.9−	2000 03 11	704	0.5+	0.4+
2000 02 04	704	0.3+	0.4+	2000 03 08	704	0.3+	0.1−	2000 03 11	699	0.8−	0.4−
2000 02 04	704	0.2+	0.2−	2000 03 08	704	0.7+	0.3−	2000 03 11	699	0.4−	0.2+
2000 02 04	704	0.5+	0.3+	2000 03 08	704	0.3−	0.1+	2000 03 11	699	0.2+	0.3+
2000 02 04	704	0.2−	0.8+	2000 03 08	704	0.3+	0.9+				
2000 02 11	704	0.7−	0.3+	2000 03 08	704	0.7+	0.5+				

2000 CL₈₇ = 1998 QD₁₀₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	64.07637	(2000.0)	P	Q	
<i>n</i>	0.28103456	ω 83.85303	+0.09523027	−0.99545415	
<i>a</i>	2.3083211	Ω 0.68773	+0.85709185	+0.08123143	
<i>e</i>	0.0710304	<i>i</i> 7.13980	+0.50628525	+0.04972409	
<i>P</i>	3.51	<i>H</i> 14.7	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 08 26	809	0.4+	0.6+	2000 02 04	704	0.3−	0.6+	2000 03 05	704	1.6+	1.2+
1998 08 26	809	0.0	0.8+	2000 02 11	704	0.1−	0.1−	2000 03 11	699	0.2+	0.2+
1998 08 26	809	0.3−	0.9+	2000 02 11	704	0.1−	0.4−	2000 03 11	699	0.1+	0.3+
1998 08 27	809	1.4−	0.2+	2000 02 11	704	0.4−	0.0	2000 03 11	699	0.3−	0.3+
1998 08 27	809	1.1−	0.4+	2000 02 11	704	0.4+	0.5−	2000 03 11	699	0.0	0.3+
1998 08 27	809	0.4−	1.5+	2000 02 11	704	0.3−	0.4−	2000 03 12	704	0.1−	0.3+
2000 02 01	703	0.5+	0.9−	2000 02 25	703	0.4−	0.2+	2000 03 12	704	0.2−	0.3+
2000 02 01	703	0.6+	0.9−	2000 02 25	703	0.6−	0.3−	2000 03 12	704	0.1−	0.6+
2000 02 01	703	1.1+	1.0−	2000 02 25	703	0.2+	0.1−	2000 03 12	704	0.4−	0.6+
2000 02 01	703	0.4+	0.7−	2000 02 25	703	0.8−	0.0	2000 03 12	704	0.3−	0.4+
2000 02 04	704	0.1−	0.0	2000 03 05	704	0.8+	0.3+	2000 03 15	704	0.5−	1.4+
2000 02 04	704	0.2+	0.5−	2000 03 05	704	0.8+	0.5+	2000 03 15	704	0.5+	0.2+
2000 02 04	704	0.2+	0.5+	2000 03 05	704	1.1+	0.2+	2000 03 15	704	1.2−	1.3+
2000 02 04	704	0.6−	0.1−	2000 03 05	704	0.8+	0.5+	2000 03 15	704	0.4−	0.2+

2000 MAR. 20

M.P.C. 39425

2000 CM₈₇ = 1989 AG₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27665884	ω	174.90085	+0.41119970	+0.90477856		
<i>a</i>	2.3325968	Ω	119.33984	−0.84075836	+0.42344272		
<i>e</i>	0.1448609	<i>i</i>	7.30643	−0.35219340	+0.04551949		
<i>P</i>	3.56	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1989 01 04	413	(3.4− 2.2+)	2000 02 01	703	0.1−	0.2−	2000 02 29	704	0.5+	0.1+
1989 01 04	413	0.2+ 1.1−	2000 02 01	703	0.0	0.2−	2000 02 29	704	0.1+	0.2+
1989 01 10	413	0.2− 0.7−	2000 02 01	703	0.1+	0.3+	2000 02 29	704	0.2−	0.2+
1989 01 10	413	0.4− 1.2−	2000 02 01	703	0.3−	0.1−	2000 02 29	704	0.5+	0.3−
1998 08 31	704	0.2− 0.2−	2000 02 04	704	0.0	0.3−	2000 03 05	704	0.6+	0.1−
1998 08 31	704	(2.3− 0.0)	2000 02 04	704	0.4−	0.1−	2000 03 05	704	0.4+	0.4+
1998 08 31	704	0.4− 0.1+	2000 02 04	704	0.6−	0.3+	2000 03 05	704	0.0	0.7+
1998 08 31	704	(3.0− 0.3+)	2000 02 04	704	0.5−	0.1+	2000 03 05	704	0.3+	0.3+
1998 10 19	699	0.3− 1.2+	2000 02 04	704	0.8−	0.5+	2000 03 05	704	0.8+	0.6+
1998 10 19	699	0.3− 1.8+	2000 02 11	704	0.7+	0.3−	2000 03 11	699	0.5+	0.2−
1998 10 19	699	1.0− 0.3+	2000 02 11	704	0.2+	0.2+	2000 03 11	699	0.5−	0.4+
1998 12 11	699	0.7+ 0.6−	2000 02 11	704	0.4+	0.2−	2000 03 11	699	0.3−	0.2+
1998 12 11	699	1.1+ 0.0	2000 02 11	704	0.5+	0.5+	2000 03 11	699	0.1+	0.3+
1998 12 11	699	0.5− 0.2−	2000 02 11	704	0.1+	0.4−	2000 03 12	704	0.4−	0.0
1999 12 05	704	0.0 0.0	2000 02 25	703	0.6−	0.4+	2000 03 12	704	0.1−	0.2+
1999 12 05	704	0.5+ 1.4−	2000 02 25	703	0.5−	0.0	2000 03 12	704	0.3−	0.5+
1999 12 05	704	0.9+ 1.1−	2000 02 25	703	0.8−	0.4+	2000 03 12	704	0.1+	0.6+
1999 12 05	704	1.2+ 0.1+	2000 02 25	703	0.1+	0.4−	2000 03 12	704	0.5−	0.3+

2000 CO₈₇ = 1994 RX₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27494156	ω	261.87543	−0.70869291	+0.70216629		
<i>a</i>	2.3422996	Ω	322.68127	−0.59445867	−0.64672548		
<i>e</i>	0.0709234	<i>i</i>	6.50477	−0.37996480	−0.29783998		
<i>P</i>	3.58	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 08 11	809	1.3− 0.6−	2000 02 04	704	1.2+	0.2+	2000 03 02	691	0.0	0.7−
1994 08 11	809	1.5− 0.8−	2000 02 04	704	0.4−	0.0	2000 03 02	691	0.4−	0.5−
1994 08 11	809	1.2+ 0.3−	2000 02 11	704	0.1+	0.1−	2000 03 02	691	0.5−	0.2−
1994 09 03	809	0.5− 0.8−	2000 02 11	704	0.3+	0.5+	2000 03 03	704	0.0	0.3−
1994 09 03	809	0.8− 1.1−	2000 02 11	704	0.6+	0.1+	2000 03 03	704	0.0	0.0
1994 09 03	809	0.0 0.9−	2000 02 11	704	(2.3− 0.8+)		2000 03 03	704	0.2−	0.2−
1994 09 04	809	0.8+ 1.1+	2000 02 11	704	0.1+	0.2−	2000 03 03	704	0.2+	0.1+
1994 09 04	809	0.9+ 1.5+	2000 02 26	691	0.2−	0.4−	2000 03 03	704	0.2+	0.2+
1994 09 04	809	1.3+ 1.8+	2000 02 26	691	0.8−	0.6−	2000 03 05	704	0.3+	0.4+
2000 01 07	704	0.5+ 0.3+	2000 02 26	691	0.3−	0.4−	2000 03 05	704	0.4−	0.5+
2000 01 07	704	0.9− 0.7−	2000 02 27	703	0.1+	0.3−	2000 03 05	704	0.1−	0.5+
2000 01 07	704	0.8− 0.1+	2000 02 27	703	0.6−	0.2−	2000 03 05	704	0.3+	0.7+
2000 01 07	704	1.0− 0.5−	2000 02 27	703	0.3+	0.3+	2000 03 05	704	0.2+	0.7+
2000 01 30	703	0.3− 0.3−	2000 02 27	703	0.0	0.3+	2000 03 11	608	0.2−	0.5−
2000 01 30	703	0.3+ 0.3+	2000 02 29	704	0.7−	0.6+	2000 03 11	608	0.0	0.9−
2000 01 30	703	0.7+ 0.4+	2000 02 29	704	0.9+	0.0	2000 03 11	608	0.3+	0.2−
2000 01 30	703	0.5+ 0.1−	2000 02 29	704	0.3+	0.2+				
2000 02 04	704	0.1− 0.3+	2000 02 29	704	0.2+	0.2+				

2000 CQ₈₇ = 1998 XP₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18056316	ω	17.35255	+0.97348410	−0.22874359		
<i>a</i>	3.1001542	Ω	355.86858	+0.20599469	+0.88086639		
<i>e</i>	0.0870895	<i>i</i>	1.79164	+0.09947306	+0.41442825		
<i>P</i>	5.46	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 24	704	1.6− 1.9+	2000 02 11	704	0.1−	1.7+	2000 02 29	704	1.2+	0.3−
1998 11 24	704	0.7− 1.5−	2000 02 11	704	0.1−	0.7+	2000 02 29	704	0.0	0.5−
1998 11 24	704	0.5− 0.0	2000 02 11	704	0.2−	0.5+	2000 02 29	704	0.1+	0.4−
1998 11 24	704	1.1+ 0.6+	2000 02 14	691	0.0	0.5−	2000 03 03	704	0.7+	1.2−
1998 11 24	704	1.5+ 1.9+	2000 02 14	691	0.0	0.3−	2000 03 03	704	0.1+	0.6−
1998 12 14	704	0.4+ 1.4+	2000 02 14	691	0.0	0.6−	2000 03 03	704	0.1−	0.0
1998 12 14	704	1.2+ 0.0	2000 02 25	703	0.3−	0.3+	2000 03 03	704	0.0	0.4+
1998 12 14	704	0.3+ 0.1+	2000 02 25	703	0.8−	0.1−	2000 03 03	704	0.1−	0.2+
1998 12 17	704	0.8− 0.6−	2000 02 25	703	0.6+	0.8+	2000 03 05	704	0.3−	0.9+
1998 12 17	704	0.4− 1.7−	2000 02 25	703	0.7+	0.0	2000 03 05	704	1.9−	0.5+
1998 12 17	704	1.5− 1.7−	2000 02 27	691	0.6−	0.1−	2000 03 05	704	0.2+	0.3−
1998 12 17	704	1.1+ 0.6−	2000 02 27	691	0.3−	0.2−	2000 03 05	704	0.0	0.5−
2000 02 04	704	0.6− 0.8−	2000 02 27	691	0.5−	0.2−	2000 03 11	704	0.7+	1.3−
2000 02 04	704	0.2+ 0.4+	2000 02 29	704	0.7+	0.1+	2000 03 11	704	0.7−	0.6+
2000 02 04	704	0.5+ 0.0	2000 02 29	704	0.6+	0.4−	2000 03 11	704	0.7+	1.4+

2000 CW₈₇ = 1997 SY₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	267.74536	ω	246.01478	−0.19144535	+0.98128880		
<i>a</i>	3.1819728	Ω	12.99808	−0.86410658	−0.15859619		
<i>e</i>	0.1129107	<i>i</i>	5.23389	−0.46547663	−0.10917662		
<i>P</i>	5.68	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 09 27	620	0.4+ 0.3−	2000 02 04	704	0.4−	0.9−	2000 03 08	704	0.0	0.6−
1997 09 27	620	0.3+ 0.3−	2000 02 11	704	1.3+	0.6−	2000 03 08	704	0.1+	0.2−
1997 09 27	620	0.1+ 0.3−	2000 02 11	704	0.6−	0.2+	2000 03 11	699	0.2−	0.3−
1997 10 03	620	0.1+ 0.0	2000 02 11	704	0.2−	0.2+	2000 03 11	699	0.7−	0.2+
1997 10 03	620	0.4− 0.4+	2000 02 11	704	0.7−	0.1+	2000 03 11	699	1.0−	0.4+
1997 10 04	620	0.9− 0.9+	2000 02 11	704	0.6−	1.1+	2000 03 11	699	0.0	0.0
1997 10 30	704	0.7+ 1.2+	2000 02 25	703	0.1+	0.2+	2000 03 12	704	0.1+	0.2−
1997 10 30	704	0.6− 0.7+	2000 02 25	703	0.3−	0.5+	2000 03 12	704	0.3−	0.9+
1997 10 30	704	1.4+ 0.8−	2000 02 25	703	0.0	0.6+	2000 03 12	704	0.7−	0.0
1997 10 30	704	1.3− 1.6−	2000 02 25	703	0.2+	0.4−	2000 03 12	704	0.6+	0.6+
1997 10 30	704	(5.6− 1.1+)	2000 03 05	704	0.6+	0.3+	2000 03 12	704	0.7+	0.7+
2000 02 01	703	0.5+ 0.1−	2000 03 05	704	0.4+	0.3+	2000 03 12	704	0.2+	0.2−
2000 02 01	703	0.1− 0.4+	2000 03 05	704	0.7+	0.2−	2000 03 12	704	0.5−	0.4−
2000 02 01	703	0.0 0.1+	2000 03 05	704	0.0	0.0	2000 03 12	704	0.2−	0.8−
2000 02 01	703	0.4+ 0.5+	2000 03 05	704	0.3+	1.2−	2000 03 12	704	0.1−	0.1+
2000 02 04	704	0.9+ 0.9−	2000 03 08	704	0.7+	0.2+	2000 03 12	704	0.0	0.1+
2000 02 04	704	0.4− 0.5+	2000 03 08	704	0.3−	0.5−				
2000 02 04	704	0.5− 0.4−	2000 03 08	704	0.2+	0.4−				

2000 CL₈₈ = 1996 KS₁ = 1998 XN₆₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	273.97256	ω	225.42155	−0.14830140	+0.98660733		
<i>a</i>	2.7475058	Ω	36.21156	−0.87164808	−0.09796215		
<i>e</i>	0.1261207	<i>i</i>	6.60150	−0.46715771	−0.13042005		
<i>P</i>	4.55	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 05 19	566	0.0	0.5−	2000 02 04	704	0.1+	0.2−	2000 03 02	703	0.8−	0.3+
1996 05 19	566	0.4+	0.3−	2000 02 04	704	0.2−	0.3+	2000 03 02	703	0.1+	0.2−
1996 05 19	566	0.1−	0.2−	2000 02 04	704	0.2+	0.3+	2000 03 02	703	0.2−	0.3+
1996 05 22	566	0.1+	0.6+	2000 02 04	704	0.2+	0.4+	2000 03 05	704	0.5+	0.2−
1996 05 22	566	0.1+	0.1+	2000 02 11	704	0.1+	0.3−	2000 03 05	704	0.1−	0.6−
1996 05 22	566	0.5−	0.3+	2000 02 11	704	0.1−	0.2−	2000 03 05	704	0.1−	0.6−
1998 12 14	704	0.0	0.1+	2000 02 11	704	0.4+	0.3−	2000 03 05	704	0.0	0.4−
1998 12 14	704	0.4+	0.3+	2000 02 11	704	0.2+	0.2−	2000 03 05	704	0.0	0.5−
1998 12 14	704	1.3−	0.7+	2000 02 29	704	0.1−	0.1−	2000 03 12	704	0.1−	0.1+
1998 12 14	704	(2.6−	0.6+)	2000 02 29	704	0.1+	0.1+	2000 03 12	704	0.1+	0.0
1998 12 16	704	1.3−	1.1−	2000 02 29	704	0.3−	0.1−	2000 03 12	704	0.2−	0.2+
1998 12 16	704	1.1+	0.5−	2000 02 29	704	0.4+	0.1+	2000 03 12	704	0.1−	0.3+

M.P.C. 39426

2000 MAR. 20

1998 12 16	704	0.9+	0.5+	2000 02 29	704	0.1+	0.5+	2000 03 12	704	0.0	0.5+
1998 12 16	704	0.0	0.0	2000 03 02	703	0.1-	0.5+				

2000 CZ₈₈ = 1998 VR₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	258.90900		(2000.0)		P		Q
<i>n</i>	0.29013130	ω	155.12389	+0.04674119			+0.99582630
<i>a</i>	2.2598155	Ω	117.47144	-0.93062883			+0.07192786
<i>e</i>	0.0649610	<i>i</i>	5.06894	-0.36296727			-0.05618149
<i>P</i>	3.40	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 06 10	599	0.2+	0.2-	2000 02 01	703	0.1-	0.7-	2000 02 26	703	0.8+	0.4-
1997 06 10	599	0.1-	0.4+	2000 02 01	703	1.0+	0.1+	2000 02 26	703	0.1+	1.3+
1998 10 12	699	0.5+	1.3-	2000 02 01	703	1.0+	0.2+	2000 02 26	703	0.4+	0.1+
1998 10 12	699	1.1+	0.0	2000 02 01	703	0.2+	0.7-	2000 03 05	704	0.3-	0.7-
1998 10 12	699	1.1+	1.5+	2000 02 04	704	0.5+	0.4+	2000 03 05	704	0.0	0.4-
1998 11 10	704	0.7-	0.0	2000 02 04	704	1.2-	0.5-	2000 03 05	704	0.2-	0.1+
1998 11 10	704	0.5+	0.7-	2000 02 04	704	0.3-	0.5+	2000 03 05	704	0.4-	0.1-
1998 11 10	704	0.9+	0.5-	2000 02 04	704	0.5-	0.8+	2000 03 05	704	0.2-	0.0
1998 11 10	704	1.2-	0.3+	2000 02 04	704	0.3-	0.2-	2000 03 12	704	0.2+	0.3-
1998 11 10	704	1.9-	1.9+	2000 02 11	704	0.5-	0.5-	2000 03 12	704	0.1-	0.4-
1998 11 11	704	0.2+	0.5-	2000 02 11	704	0.3+	0.4+	2000 03 12	704	0.2-	0.7-
1998 11 11	704	0.4+	0.4-	2000 02 11	704	0.8+	0.1-	2000 03 12	704	0.1-	0.1+
1998 11 11	704	1.2-	0.1+	2000 02 11	704	0.3-	1.1+	2000 03 12	704	0.1-	0.4+
1998 11 11	704	0.2+	0.6-	2000 02 26	703	0.4-	0.0				

2000 CB₈₉ = 1999 BS₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	171.35717		(2000.0)		P		Q
<i>n</i>	0.24346736	ω	230.85093	+0.98381268			+0.10993363
<i>a</i>	2.5400498	Ω	122.40268	-0.06146956			+0.94883149
<i>e</i>	0.2927970	<i>i</i>	9.64916	-0.16832736			+0.29602938
<i>P</i>	4.05	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 23	704	(2.8+	1.3-)	1999 01 18	704	0.7+	1.2-	2000 02 11	704	0.3-	0.1+
1998 11 23	704	(1.4-	2.9-)	1999 01 18	704	0.4-	0.9+	2000 02 11	704	0.2-	1.7-
1998 11 23	704	1.3-	0.5+	1999 01 20	704	0.5-	0.4+	2000 03 05	704	0.5-	0.4-
1998 11 23	704	(2.6+	0.3-)	1999 01 20	704	1.0-	0.2-	2000 03 05	704	0.1-	0.3-
1998 11 23	704	0.9-	1.0-	1999 01 20	704	0.2-	0.8-	2000 03 05	704	0.2-	0.1+
1998 12 22	704	0.1+	0.6+	1999 01 20	704	0.0	0.3-	2000 03 05	704	0.2-	0.1+
1998 12 22	704	0.6+	0.3-	1999 01 20	704	1.7-	1.2+	2000 03 05	704	0.2-	0.0
1998 12 22	704	1.3+	0.6+	2000 02 04	704	0.8+	0.2+	2000 03 12	704	0.3-	0.1-
1998 12 22	704	0.8+	0.2-	2000 02 04	704	1.0+	0.4+	2000 03 12	704	0.0	0.1+
1998 12 22	704	1.2+	0.2+	2000 02 04	704	0.3-	1.9+	2000 03 12	704	0.1+	0.6-
1999 01 18	704	0.1+	0.2+	2000 02 11	704	1.3+	0.4+	2000 03 12	704	0.6-	0.0
1999 01 18	704	0.7+	0.1+	2000 02 11	704	0.5+	0.5+	2000 03 12	704	0.0	0.0
1999 01 18	704	0.1+	0.6-	2000 02 11	704	0.5-	0.6-				

2000 CG₈₉ = 1998 XS₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	188.83468		(2000.0)		P		Q
<i>n</i>	0.23654248	ω	201.54752	+0.90291554			+0.39666850
<i>a</i>	2.5893849	Ω	133.95779	-0.35307111			+0.90410902
<i>e</i>	0.1823595	<i>i</i>	13.29351	-0.24512103			+0.15887409
<i>P</i>	4.17	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.2+	0.7-	2000 02 11	704	0.2-	0.0	2000 03 05	704	0.4+	0.3+
1998 12 15	704	0.1+	0.5+	2000 02 11	704	0.4-	0.1+	2000 03 05	704	0.8-	0.4+
1998 12 15	704	0.9-	0.7-	2000 02 11	704	0.1-	0.5-	2000 03 05	704	0.1-	0.5+
1998 12 15	704	0.9+	0.3-	2000 02 29	704	0.3+	0.0	2000 03 09	704	0.5-	0.3-
1998 12 15	704	1.5+	1.2+	2000 02 29	704	0.4+	0.4-	2000 03 09	704	0.1-	0.3+
1998 12 22	704	0.6+	0.9+	2000 02 29	704	0.7+	0.0	2000 03 09	704	0.0	0.2-

1998 12 22	704	1.5-	0.3+	2000 02 29	704	0.5+	0.1+	2000 03 09	704	0.3-	0.1-
1998 12 22	704	0.7+	0.3-	2000 02 29	704	0.7+	0.5+	2000 03 09	704	0.1-	0.5-
1998 12 22	704	1.5-	0.9-	2000 03 02	703	0.2-	0.5+	2000 03 12	704	0.7+	0.4-
2000 02 04	704	0.4-	0.2-	2000 03 02	703	0.5-	0.1+	2000 03 12	704	0.5+	0.0
2000 02 04	704	0.2-	0.3-	2000 03 02	703	0.5-	0.7+	2000 03 12	704	0.7+	0.1-
2000 02 04	704	0.0	0.4-	2000 03 02	703	0.1+	0.1-	2000 03 12	704	0.2-	0.9-
2000 02 04	704	0.6+	0.1+	2000 03 05	704	0.8-	1.7+	2000 03 12	704	0.1-	0.6-
2000 02 11	704	0.4-	0.2+	2000 03 05	704	0.2+	0.6-				

2000 CH₈₉ = 1998 XM₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	239.15471		(2000.0)		P		Q
<i>n</i>	0.21740017	ω	222.63368	+0.36781500			+0.92481879
<i>a</i>	2.7392361	Ω	69.15834	-0.82273766			+0.37229909
<i>e</i>	0.0917798	<i>i</i>	5.96177	-0.43337612			+0.07812555
<i>P</i>	4.53	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	1.3-	1.0+	2000 02 04	704	0.9+	0.1-	2000 03 02	703	0.5-	0.1+
1998 12 14	704	0.3-	0.1-	2000 02 04	704	0.1+	0.1-	2000 03 02	703	0.9-	0.4+
1998 12 14	704	0.5+	0.3-	2000 02 04	704	0.7-	0.8+	2000 03 02	703	0.0	0.2-
1998 12 14	704	0.5+	0.5-	2000 02 11	704	0.5+	0.0	2000 03 05	704	0.3+	0.1+
1998 12 16	704	0.8+	0.1+	2000 02 11	704	0.8-	0.4+	2000 03 05	704	0.6-	0.4-
1998 12 16	704	0.0	1.6+	2000 02 11	704	0.0	0.4-	2000 03 05	704	0.5+	0.7-
1998 12 16	704	1.0+	0.2-	2000 02 11	704	0.2-	0.5-	2000 03 05	704	0.1-	0.1+
1998 12 16	704	1.6-	0.8+	2000 02 11	704	0.4+	0.3-	2000 03 05	704	1.2-	0.1-
1998 12 17	704	0.0	0.4-	2000 02 29	704	0.6+	0.1+	2000 03 12	704	0.4-	0.2-
1998 12 17	704	0.3+	0.5-	2000 02 29	704	0.4+	0.0	2000 03 12	704	0.8-	0.9-
1998 12 17	704	0.6-	0.9-	2000 02 29	704	1.2+	0.1-	2000 03 12	704	0.4+	0.2-
1998 12 17	704	0.9+	0.7-	2000 02 29	704	0.6+	0.5+	2000 03 12	704	0.5+	0.8+
2000 02 04	704	0.1+	0.8+	2000 03 02	703	0.1-	0.2+				

2000 CK₈₉ = 1998 TV

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	105.96117		(2000.0)		P		Q
<i>n</i>	0.24509642	ω	14.69748	+0.65692305			-0.75276512
<i>a</i>	2.5287821	Ω	34.26769	+0.68392293			+0.57129621
<i>e</i>	0.0691837	<i>i</i>	4.31744	+0.31733504			+0.32705552
<i>P</i>	4.02	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 12	691	0.2+	0.2-	1998 10 20	699	0.9-	0.5-	2000 02 11	704	0.1+	1.3+
1998 10 12	691	0.2+	0.2-	1998 11 11	704	1.0+	0.1+	2000 02 11	704	1.5+	0.5-
1998 10 12	691	0.4+	0.4-	1998 11 11	704	0.4+	1.0+	2000 03 05	704	1.0-	0.5-
1998 10 13	691	0.2-	0.1+	1998 11 11	704	1.6-	0.4-	2000 03 05	704	0.5-	0.0
1998 10 13	691	0.0	0.2+	1998 11 11	704	1.1+	1.7-	2000 03 05	704	0.1-	0.6-
1998 10 13	691	0.3-	0.6+	1998 11 11	704	0.2-	1.4+	2000 03 05	704	0.4-	0.1-
1998 10 18	691	0.4+	1.0-	2000 02 04	704	0.7-	0.3-	2000 03 05	704	0.3+	0.5-
1998 10 18	691	0.3-	0.3+	2000 02 04	704	0.3-	1.2+	2000 03 12	704	0.2+	0.2-
1998 10 18	691	0.4-	0.0	2000 02 04	704	0.4+	1.3+	2000 03 12	704	0.5-	0.2-
1998 10 20	699	0.6+	0.2-	2000 02 11	704	1.3+	0.3+	2000 03 12	704	0.9-	0.4-
1998 10 20	699	0.1-	0.4+	2000 02 11	704	0.0	0.6-	2000 03 12	704	0.5+	0.4-

2000 CB₉₁ = 1994 AT₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	329.77172		(2000.0)		P		Q
<i>n</i>	0.17856677	ω	201.86445	-0.94768752			+0.31919949
<i>a</i>	3.1232180	Ω	356.75005	-0.29230480			-0.86810418
<i>e</i>	0.1283185	<i>i</i>	0.21362	-0.12824298			-0.38014053
<i>P</i>	5.52	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 01 06	691	0.7+	0.1-	2

2000 MAR. 20

M.P.C. 39427

1994 01 11	691	1.1−	0.2+	2000 02 29	704	0.0	0.1−	2000 03 05	704	0.2+	0.3+
1994 01 11	691	0.7+	0.2−	2000 02 29	704	0.1−	0.3−	2000 03 05	704	0.0	0.1−
1994 01 11	691	0.3+	0.1−	2000 02 29	704	0.1−	0.3−	2000 03 05	704	0.4+	0.2+
2000 02 06	704	0.6+	0.2−	2000 03 03	704	0.2−	0.1+	2000 03 05	704	0.6−	0.1+
2000 02 06	704	0.1+	0.6−	2000 03 03	704	0.0	0.2−	2000 03 11	704	0.3+	0.3+
2000 02 06	704	0.4−	0.4+	2000 03 03	704	0.1−	0.1−	2000 03 11	704	0.1+	0.1+
2000 02 06	704	0.5−	0.8−	2000 03 03	704	0.2−	0.1+	2000 03 11	704	0.2+	0.1+
2000 02 11	704	0.3+	0.6+	2000 03 03	704	0.1+	0.1−	2000 03 11	699	0.4−	0.2−
2000 02 11	704	0.1+	0.5+	2000 03 04	704	0.3+	0.4+	2000 03 11	704	0.1+	0.4+
2000 02 11	704	0.4+	0.8+	2000 03 04	704	0.2+	0.0	2000 03 11	704	0.3+	0.2+
2000 02 11	704	0.1−	0.1−	2000 03 04	704	0.3+	0.3+	2000 03 11	699	0.2−	0.0
2000 02 11	704	0.7−	0.4−	2000 03 04	704	0.7+	0.2+	2000 03 11	699	0.2−	0.0
2000 02 28	691	0.3−	0.2−	2000 03 04	704	0.4+	0.4+	2000 03 11	699	0.3−	0.1+
2000 02 28	691	0.2−	0.3−	2000 03 04	691	0.1+	0.9−				

2000 CC₉₁ = 1998 XZ₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	179.62318		(2000.0)	P	Q
<i>n</i>	0.20070532	<i>ω</i>	170.93553	+0.94677392	+0.32183841
<i>a</i>	2.8891059	<i>Ω</i>	170.28339	−0.29761263	+0.88258680
<i>e</i>	0.0823896	<i>i</i>	2.12569	−0.12266163	+0.34272521
<i>P</i>	4.91	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	(2.9+	1.4+)	2000 02 08	691	0.3−	0.1−	2000 03 04	704	0.2−	0.0
1998 12 15	704	0.5+	0.1+	2000 02 10	104	0.9−	1.3−	2000 03 04	704	0.0	0.0
1998 12 15	704	0.2+	0.4+	2000 02 10	104	2.0−	0.2+	2000 03 04	704	0.1+	0.2−
1998 12 15	704	0.1+	0.1+	2000 02 11	704	0.3−	1.0−	2000 03 05	704	0.4+	0.0
1998 12 16	704	1.5+	0.4−	2000 02 11	704	0.5−	0.2+	2000 03 05	704	1.1+	0.2−
1998 12 16	704	0.9+	1.6−	2000 02 11	704	0.7+	0.6−	2000 03 05	704	0.8+	0.0
1998 12 16	704	1.8−	0.5+	2000 02 11	704	1.5−	0.0	2000 03 05	704	0.4+	0.6−
1998 12 22	704	0.7+	0.3−	2000 02 11	691	0.6−	0.3+	2000 03 05	704	1.3+	0.1+
1998 12 22	704	0.6−	0.9+	2000 02 11	691	0.8−	0.3+	2000 03 11	699	0.1+	0.7+
1998 12 22	704	(0.7−	3.4+)	2000 02 11	691	0.5−	0.1+	2000 03 11	704	0.1+	0.2−
1998 12 22	704	0.7−	0.2−	2000 02 13	104	0.2+	0.5−	2000 03 11	699	0.0	0.4+
1998 12 22	704	0.8−	0.8+	2000 02 13	104	0.8+	0.1−	2000 03 11	704	0.4+	0.2−
2000 01 28	691	0.2+	0.2−	2000 02 29	704	0.3+	0.1−	2000 03 11	699	0.3+	0.2+
2000 01 28	691	0.1+	0.0	2000 02 29	704	0.6−	0.3−	2000 03 11	704	0.0	0.0
2000 01 28	691	0.4+	1.6−	2000 02 29	704	0.0	0.1−	2000 03 11	704	0.1+	0.3−
2000 02 02	704	0.5+	0.7−	2000 02 29	704	0.7−	0.1+	2000 03 11	699	0.1+	0.4+
2000 02 02	704	0.5+	0.8+	2000 03 03	704	0.0	0.1+	2000 03 11	704	0.1+	0.6+
2000 02 02	704	0.7+	1.2+	2000 03 03	704	0.2−	0.0	2000 03 15	704	0.5+	0.1−
2000 02 06	704	0.7+	0.2−	2000 03 03	704	0.2−	0.4+	2000 03 15	704	1.4−	0.1+
2000 02 06	704	0.1+	0.4+	2000 03 03	704	0.1−	0.1+	2000 03 15	704	0.3+	1.3+
2000 02 06	704	0.3+	0.1+	2000 03 03	704	0.2−	0.1+	2000 03 15	704	0.2−	0.4+
2000 02 08	691	0.2−	0.1−	2000 03 04	704	0.0	0.0				
2000 02 08	691	0.4−	0.2−	2000 03 04	704	0.0	0.2+				

2000 CE₉₁ = 1998 VH₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	284.43145		(2000.0)	P	Q
<i>n</i>	0.23116951	<i>ω</i>	260.26664	−0.53947047	+0.84190939
<i>a</i>	2.6293537	<i>Ω</i>	337.07197	−0.75922771	−0.49288015
<i>e</i>	0.0142567	<i>i</i>	1.86183	−0.36406717	−0.21967646
<i>P</i>	4.26	<i>H</i>	14.2	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 11 14	704	0.1+	0.1+	2000 03 03	704	0.1+	0.2+	2000 03 09	704	0.0	0.1−
1998 11 14	704	0.6+	0.1−	2000 03 03	704	0.1+	0.2−	2000 03 11	704	0.3−	0.5+
1998 11 14	704	0.7+	0.1−	2000 03 03	704	0.7+	0.3+	2000 03 11	704	0.1+	0.5+
1998 11 14	704	1.3+	0.5+	2000 03 03	704	0.8−	0.3−	2000 03 11	704	0.5−	0.4+
1998 11 14	704	0.3−	0.3+	2000 03 03	704	0.2−	0.3+	2000 03 11	699	0.2−	0.2+
1998 11 18	704	0.4+	0.5−	2000 03 03	704	0.3−	0.9−	2000 03 11	704	0.5−	0.3+
1998 11 18	704	1.3−	0.0	2000 03 03	704	0.4+	0.4+	2000 03 11	704	0.3−	0.6−
1998 11 18	704	0.2+	0.9+	2000 03 03	704	0.4−	0.7−	2000 03 11	699	0.5−	0.4+
1998 11 18	704	0.6−	0.3−	2000 03 03	704	0.4+	0.3+	2000 03 11	699	0.3+	0.0

1998 11 18	704	1.2−	0.6−	2000 03 04	704	0.8+	0.3−	2000 03 11	699	0.1−	0.1−
2000 02 06	704	0.3−	0.4−	2000 03 04	704	0.3+	0.2+	2000 03 12	586	(2.2+	1.6−)
2000 02 06	704	0.2+	0.4+	2000 03 04	704	0.2+	0.2+	2000 03 12	586	(2.4+	1.7−)
2000 02 06	704	1.3+	0.4−	2000 03 04	704	0.2+	0.5+	2000 03 12	586	(2.2+	1.8−)
2000 02 11	704	0.1+	0.5+	2000 03 04	704	0.1+	0.3+	2000 03 12	586	(2.3+	1.8−)
2000 02 11	704	0.5−	0.3+	2000 03 05	704	0.1+	0.1+	2000 03 12	586	(2.4+	2.0−)
2000 02 11	704	0.6−	0.9+	2000 03 05	704	0.7+	0.9−	2000 03 12	586	(2.5+	2.0−)
2000 02 11	704	1.8−	0.1−	2000 03 05	704	0.0	0.3+	2000 03 12	586	0.6+	0.2+
2000 02 11	704	0.3−	0.9−	2000 03 05	704	0.2+	0.1−	2000 03 12	586	0.5+	0.1−
2000 02 29	704	0.2+	0.1−	2000 03 05	704	0.2−	0.9−	2000 03 12	586	0.3+	0.2−
2000 02 29	704	0.0	0.2+	2000 03 09	704	0.2+	0.5+	2000 03 12	586	0.1−	0.1+
2000 02 29	704	0.4+	0.2−	2000 03 09	704	0.1−	0.0	2000 03 15	691	0.2−	0.2−
2000 02 29	704	0.4+	0.2−	2000 03 09	704	0.1−	0.1−	2000 03 15	691	0.4−	0.2−
2000 03 03	704	0.0	0.3−	2000 03 09	704	0.2+	0.1+	2000 03 15	691	0.3−	0.1−

2000 CL₉₁ = 1998 XM₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	5.07671		(2000.0)	P	Q
<i>n</i>	0.18291230	<i>ω</i>	154.12610	−0.90717973	−0.42074162
<i>a</i>	3.0735535	<i>Ω</i>	0.99482	+0.37308825	−0.80573900
<i>e</i>	0.0965318	<i>i</i>	3.94772	+0.19449960	−0.41684668
<i>P</i>	5.39	<i>H</i>	13.6	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 11 16	566	0.5+	0.6−	2000 02 11	704	0.5−	0.4−	2000 03 05	704	0.1+	0.3−
1998 11 16	566	0.1+	0.2−	2000 02 26	703	0.3−	0.1+	2000 03 06	704	0.3+	0.5+
1998 11 16	566	0.0	0.5−	2000 02 26	703	1.1−	0.1+	2000 03 06	704	0.4+	0.3−
1998 12 14	704	0.0	0.0	2000 02 26	703	0.9−	0.5+	2000 03 06	704	0.3+	0.5−
1998 12 14	704	0.9+	0.1+	2000 02 26	703	1.2−	0.7+	2000 03 09	049	0.7+	1.4−
1998 12 14	704	0.1+	0.9−	2000 02 29	704	0.5+	0.1+	2000 03 09	049	0.8+	1.1−
1998 12 14	704	1.3−	1.1+	2000 02 29	704	0.1−	0.1+	2000 03 09	049	0.7+	1.3−
1998 12 17	704	(2.4+	1.7+)	2000 02 29	704	0.4−	0.1−	2000 03 11	704	0.3−	0.1−
1998 12 17	704	0.2+	0.0	2000 02 29	704	0.5+	0.3−	2000 03 11	704	0.4+	0.4+
1998 12 17	704	0.4−	0.7+	2000 02 29	704	0.3−	0.4+	2000 03 11	704	0.1+	0.4+
2000 02 06	704	0.4+	0.1−	2000 03 03	704	0.1−	0.1−	2000 03 11	704	0.1+	0.5+
2000 02 06	704	0.6+	0.6+	2000 03 03	704	0.2−	0.4+	2000 03 11	704	0.3−	0.4+
2000 02 06	704	0.3+	0.5+	2000 03 03	704	0.1−	0.2+	2000 03 11	699	0.7−	0.3+
2000 02 06	704	0.3+	0.1+	2000 03 03	704	0.2−	0.2+	2000 03 11	699	0.5−	0.3−
2000 02 06	704	1.1+	0.8+	2000 03 03	704	0.4−	0.9+	2000 03 11	699	0.8−	0.1+
2000 02 11	704	0.0	0.3−	2000 03 05	704	0.5−	0.0	2000 03 11	699	0.4−	0.1+
2000 02 11	704	0.2+	0.1−	2000 03 05	704	0.1−	0.3+	2000 03 15	049	0.5+	0.4−
2000 02 11	704	0.0	0.4−	2000 03 05	704	0.1+	0.1+	2000 03 15	049	0.5+	0.5−
2000 02 11	704	0.1−	0.4−	2000 03 05	704	0.2+	0.1−	2000 03 15	049	0.6+	0.5−

2000 CM₉₁ = 1993 RW₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	164.95460		(2000.0)	P	Q
<i>n</i>	0.22250053	<i>ω</i>	5.78584	+0.99564561	+0.08992401
<i>a</i>	2.6972137	<i>Ω</i>	348.96432	−0.08984547	+0.85543614
<i>e</i>	0.0533265	<i>i</i>	7.37339	−0.02485166	+0.51004185
<i>P</i>	4.43	<i>H</i>	13.7	<i>G</i>	0.15
				<i>U</i>	4

M.P.C. 39428

2000 MAR. 20

1998 12 14	704	1.2−	0.1−	2000 02 29	704	0.1−	0.4+	2000 03 11	704	0.1+	0.7+
1998 12 17	704	(2.6−	3.6−)	2000 02 29	704	0.2−	0.6+	2000 03 11	699	0.3−	0.6+
1998 12 17	704	(2.5−	2.4−)	2000 02 29	704	0.3−	0.1+	2000 03 11	699	0.4−	0.7+
1998 12 17	704	0.8−	0.2+	2000 02 29	704	0.2−	0.3+	2000 03 11	699	0.1−	0.3+
1998 12 17	704	0.3+	0.3+	2000 02 29	704	0.6+	1.0+	2000 03 11	699	0.5−	0.4+
1998 12 17	704	0.3−	1.3+	2000 03 03	704	0.3−	0.2+				

2000 CV₉₁ = 1974 RJ = 1978 RK₅ = 1978 TX₃ = 1998 YO₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	216.77514		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.25358297	ω	314.12871		+0.76295901		+0.64644659
a	2.4720428	Ω	5.59716		−0.59134942		+0.69830233
e	0.2093343	i	0.34926		−0.26115017		+0.30737706
P	3.89	H	14.1	G	0.15	U	3

Residuals in seconds of arc

1974 09 11	095	0.0	2.5−	2000 02 26	703	1.1+	0.7+	2000 03 04	704	0.2−	0.1−
1978 09 06	095	0.2−	0.2−	2000 02 26	703	1.8−	1.9−	2000 03 06	120	0.0	0.2−
1978 10 04	095	1.4+	1.0+	2000 03 01	732	(2.4+	1.3+)	2000 03 06	120	0.8+	0.3+
1998 12 16	704	0.3−	0.5+	2000 03 01	732	0.4+	0.1+	2000 03 06	120	1.0−	0.2+
1998 12 16	704	0.2+	0.5−	2000 03 01	732	1.4+	1.0−	2000 03 10	732	(2.0−	0.7−)
1998 12 16	704	0.1−	0.8−	2000 03 01	732	0.5−	0.4−	2000 03 10	732	1.3−	0.9−
1998 12 16	704	0.9−	0.1−	2000 03 01	732	1.2−	0.2−	2000 03 11	732	0.5+	0.3+
1998 12 17	704	0.7−	0.5+	2000 03 02	732	0.4−	0.2−	2000 03 11	704	0.5+	0.1−
1998 12 17	704	0.1+	0.5+	2000 03 02	732	0.5−	0.1+	2000 03 11	704	0.3+	0.2−
1998 12 17	704	0.7+	0.3−	2000 03 02	732	0.0	0.3+	2000 03 11	704	0.5+	0.1+
1998 12 17	704	(2.3−	0.0)	2000 03 03	704	0.3+	0.3−	2000 03 11	704	1.5+	1.5−
1998 12 17	704	0.0	0.1+	2000 03 03	704	0.4+	0.1+	2000 03 11	704	0.0	0.5+
2000 02 06	704	0.6+	0.5+	2000 03 03	704	0.3+	0.4+	2000 03 11	699	0.2−	0.5−
2000 02 06	704	1.0+	0.9−	2000 03 03	704	0.4+	0.7+	2000 03 11	699	0.1+	0.7−
2000 02 06	704	0.5+	0.2−	2000 03 03	704	0.2+	0.4+	2000 03 11	699	0.3−	0.2−
2000 02 11	704	1.1−	0.9+	2000 03 04	732	1.4−	0.2+	2000 03 11	699	0.5−	0.2−
2000 02 11	704	0.6−	0.5+	2000 03 04	732	(1.5+	2.9+)	2000 03 15	691	0.1+	0.9−
2000 02 11	704	0.1−	0.4+	2000 03 04	704	(0.2+	2.8+)	2000 03 15	691	0.1+	0.4−
2000 02 11	704	0.6−	0.2+	2000 03 04	704	0.7+	0.6+	2000 03 15	691	0.3+	0.6−
2000 02 26	703	1.4−	0.1−	2000 03 04	704	0.2−	0.4+				
2000 02 26	703	0.9+	0.1−	2000 03 04	704	0.1−	1.3+				

2000 CW₉₁ = 1948 RL

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	155.44100		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.23879820	ω	202.51264		+0.99518293		−0.05227639
a	2.5730527	Ω	159.94453		+0.06637264		+0.98187283
e	0.1745247	i	13.99520		−0.07214984		+0.18218924
P	4.13	H	12.9	G	0.15	U	3

Residuals in seconds of arc

1948 09 07	690	(7.0+	7.2+)	2000 02 06	704	0.3−	0.0	2000 02 29	704	0.8−	0.1−
1948 09 08	690	0.4−	1.1−	2000 02 06	704	0.2−	0.3−	2000 03 03	704	0.3+	0.1−
1948 09 09	690	0.7+	1.0−	2000 02 06	704	0.3+	0.2−	2000 03 03	704	0.8+	0.1−
1998 12 19	704	0.0	0.4−	2000 02 11	704	0.7−	0.5+	2000 03 03	704	0.8+	0.1+
1998 12 19	704	0.1−	0.5−	2000 02 11	704	0.6−	0.3−	2000 03 03	704	0.7+	0.1+
1998 12 19	704	0.2−	0.2+	2000 02 11	704	0.3+	0.0	2000 03 03	704	0.8+	0.1+
1998 12 19	704	0.9−	0.1−	2000 02 11	704	0.1−	0.6+	2000 03 06	704	0.6+	0.4−
1998 12 19	704	0.1+	0.6+	2000 02 11	704	0.6−	0.4−	2000 03 06	704	0.1−	0.7−
1999 01 07	704	1.3+	0.7−	2000 02 16	703	0.2+	0.5−	2000 03 06	704	0.7−	1.3−
1999 01 07	704	0.3+	0.9+	2000 02 16	703	0.3−	0.3−	2000 03 11	704	0.3−	0.3+
1999 01 07	704	(0.7−	2.8−)	2000 02 16	703	0.8+	0.3−	2000 03 11	699	0.2−	0.0
1999 01 07	704	(4.9−	0.6−)	2000 02 16	703	0.4−	0.0	2000 03 11	704	0.1−	0.5+
1999 01 09	699	0.5+	0.7−	2000 02 26	703	0.3−	0.2−	2000 03 11	699	0.7−	0.0
1999 01 09	699	0.1+	0.5−	2000 02 26	703	0.6−	1.1−	2000 03 11	704	0.2−	0.5+
1999 01 09	699	0.3+	0.0	2000 02 26	703	1.8+	0.3−	2000 03 11	704	0.1+	0.6+
1999 02 04	704	0.3−	0.6−	2000 02 26	703	0.4+	0.7+	2000 03 11	699	0.6−	0.0
1999 02 04	704	0.7−	0.9+	2000 02 29	704	0.6−	0.2+	2000 03 11	704	0.1+	0.6+
1999 02 04	704	1.1−	1.3+	2000 02 29	704	0.0	0.0	2000 03 11	699	0.5−	0.0

1999 02 04	704	0.6+	0.0	2000 02 29	704	0.1+	0.5−
1999 02 04	704	(3.4−	1.2−)	2000 02 29	704	0.0	0.3−

2000 CA₉₂ = 1998 XM₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	86.36871		(2000.0)		P		Q
n	0.20415073	ω	54.45276		+0.24366918		−0.96978406
a	2.8565079	Ω	21.45352		+0.87886347		+0.21555412
e	0.0184592	i	1.88159		+0.41015160		+0.11425981
P	4.83	H	13.5	G	0.15	U	3

Residuals in seconds of arc

1998 12 14	704	1.1−	1.1+	2000 02 06	704	0.5+	0.5+	2000 02 29	704	0.2−	0.3+
1998 12 14	704	0.3+	0.7−	2000 02 06	704	0.7−	0.0	2000 02 29	704	0.0	0.5+
1998 12 14	704	0.5−	1.6+	2000 02 06	704	0.6−	0.5+	2000 02 29	704	0.2+	0.1+
1998 12 14	704	0.1−	0.3+	2000 02 06	704	0.8+	0.5−	2000 02 29	704	0.7−	0.5−
1998 12 14	704	1.2+	1.5−	2000 02 06	704	0.8+	0.1−	2000 02 29	704	0.8−	0.4+
1998 12 17	704	(2.3−	0.8+)	2000 02 11	704	0.4+	0.4+	2000 03 03	704	0.2+	0.1+
1998 12 17	704	0.8+	0.3−	2000 02 11	704	1.2+	0.9−	2000 03 03	704	0.1−	0.6+
1998 12 17	704	0.6−	0.7+	2000 02 11	704	0.3−	0.5−	2000 03 03	704	0.0	0.6+
1998 12 17	704	0.2−	0.1+	2000 02 11	704	0.1−	0.1−	2000 03 03	704	0.2−	0.7+
1998 12 17	704	0.4+	1.3−	2000 02 11	704	0.3+	0.8−	2000 03 03	704	0.3+	0.8+
1999 12 05	704	0.9+	0.1+	2000 02 16	703	0.1+	0.2−	2000 03 10	608	(0.4+	2.9−)
1999 12 05	704	0.2+	0.7+	2000 02 16	703	0.3−	0.5+	2000 03 10	608	1.2+	1.1−
1999 12 05	704	0.5−	0.2+	2000 02 16	703	0.1+	0.8+	2000 03 10	608	1.2+	1.2−
1999 12 05	704	0.0	0.8+	2000 02 16	703	0.7−	0.2−	2000 03 11	704	0.3−	0.1−
2000 01 04	704	0.0	0.1−	2000 02 26	703	0.2+	0.9+	2000 03 11	704	0.4−	0.1−
2000 01 04	704	0.2+	0.2+	2000 02 26	703	0.5−	0.2−	2000 03 11	704	0.2−	0.2−
2000 01 04	704	1.0−	1.7−	2000 02 26	703	0.7−	1.0−	2000 03 11	704	0.0	0.2+
2000 01 04	704	0.4−	0.9−	2000 02 26	703	0.1−	0.7+				

2000 CB₉₂ = 1998 SH₁₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

$\dot{M}$	297.29673		(2000.0)		P		Q
n	0.28928959	ω	216.37182		−0.63573070		+0.77185291
a	2.2641969	Ω	14.16204		−0.69877689		−0.57024653
e	0.0464080	i	2.21687		−0.32795935		−0.28117964
P	3.41	H	15.1	G	0.15	U	4

Residuals in seconds of arc

1997 06 04	566	0.0	0.2−	2000 02 06	704	0.2+	0.8−	2000 03 03	704	0.3+	0.0
1997 06 04	566	0.7+	0.2−	2000 02 06	704	0.0	0.1−	2000 03 03	704	0.4+	0.3−
1997 06 04	566	0.8−	0.1−	2000 02 06	704	1.0+	0.4+	2000 03 03	704	0.3+	0.3−
1998 09 26	704	0.6+	1.0+	2000 02 11	704	0.6+	0.8+	2000 03 05	608	0.0	1.1−
1998 09 26	704	0.7+	0.9−	2000 02 11	704	(2.7+	0.8−)	2000 03 05	608	0.3+	0.8−
1998 09 26	704	0.7−	0.4−	2000 02 11	704	0.9+	0.0	2000 03 05	608	0.5+	1.0−
1998 09 26	704	0.1+	0.1−	2000 02 11	704	0.9+	0.0	2000 03 06	704	(2.8+	0.3+)
1998 09 26	704	(1.9−	2.6+)	2000 02 26	703	0.2−	0.6+	2000 03 06	704	(2.9+	0.1−)
1998 09 27	704	0.0	0.7−	2000 02 26	703	1.0−	1.9−	2000 03 06	704	(3.5+	1.9+)
1998 09 27	704	0.4+	1.4+	2000 02 26	703	0.2−	1.0+	2000 03 10	608	(0.1+	2.1−)
1998 09 27	704	1.7−	0.1−	2000 02 26	703	1.8−	0.4+	2000 03 10	608	0.1−	0.8−
1998 09 27	704	(2.3−	1.3+)	2000 02 29	704	0.1−	0.6+	2000 03 10	608	0.3+	1.0−
1998 11 10	704	0.7+	0.2−	2000 02 29	704	0.3−	0.1+	2000 03 11	704	0.7−	0.2−
1998 11 10	704	1.3+	0.5−	2000 02 29	704	0.0	0.2+	2000 03 11	704	0.2−	0.0
1998 11 10	704	0.3+	1.2−	2000 02 29	704	0.2−	0.1+	2000 03 11	704	0.4−	0.0
1998 11 10	704	1.0−	0.4+	2000 02 29	704	0.2−	0.6+	2000 03 11	704	0.2−	0.1+
2000 02 06	704	0.1+	0.6+	2000 03 03	704	0.0	0.3+	2000 03 11	704	0.3−	0.2+
2000 02 06	704	0.1−	1.4+	2000 03 03	704	0.3+	0.1+				

2000 MAR. 20

M.P.C. 39429

2000 CK₉₂ = 1977 CU₁ = 1987 YM₅ = 1991 RV₁₅ = 1998 XP₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	222.04675		(2000.0)		P		Q
<i>n</i>	0.17514276	ω	322.17952	+0.64263349			+0.76545230
<i>a</i>	3.1637920	Ω	347.68950	-0.65942899			+0.53048995
<i>e</i>	0.0804594	<i>i</i>	8.96946	-0.39009692			+0.36422958
<i>P</i>	5.63	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 02 11	675	0.0	0.0	2000 02 06	704	0.3+	0.7+	2000 03 03	704	0.2+	0.1+
1977 02 12	675	0.1+	0.2+	2000 02 06	704	0.2+	0.4+	2000 03 03	691	0.1+	0.4-
1987 12 24	010	(1.5-	5.0+)	2000 02 06	704	0.1+	0.0	2000 03 03	704	0.3+	0.1-
1987 12 24	010	(1.8-	6.8+)	2000 02 11	704	0.4+	0.3+	2000 03 03	704	0.2+	0.1+
1991 09 11	675	1.7+	1.8-	2000 02 11	704	0.3+	0.5+	2000 03 03	691	0.1-	0.3-
1991 09 11	675	0.7-	1.8-	2000 02 11	704	0.1+	0.5+	2000 03 03	704	0.2+	0.3+
1991 09 15	675	0.6+	0.9+	2000 02 11	704	0.1+	0.3+	2000 03 03	691	0.2+	0.2-
1991 09 15	675	(0.1+	2.2-)	2000 02 11	704	0.9-	0.2+	2000 03 03	704	0.5+	0.2+
1998 12 14	704	0.2+	0.0	2000 02 16	703	0.3+	0.0	2000 03 03	691	0.7-	0.4-
1998 12 14	704	0.4-	0.7+	2000 02 16	703	0.3-	0.6+	2000 03 03	691	0.7-	0.3-
1998 12 14	704	0.4-	1.6-	2000 02 16	703	0.4-	0.2+	2000 03 03	691	0.6-	0.3-
1998 12 14	704	0.7-	0.9-	2000 02 16	703	0.1+	0.4-	2000 03 12	691	0.0	0.6-
1998 12 17	704	0.3-	0.6+	2000 02 25	691	0.3-	0.7-	2000 03 12	691	0.2-	0.6-
1998 12 17	704	0.8-	0.3-	2000 02 25	691	0.3-	0.8-	2000 03 12	691	0.1-	0.5-
1998 12 17	704	0.7+	0.2-	2000 02 25	691	0.5-	0.6-	2000 03 14	691	0.1+	0.4-
1998 12 17	704	0.7+	0.4-	2000 02 26	703	0.3+	1.1-	2000 03 14	691	0.0	0.4-
1998 12 17	704	0.9-	0.5-	2000 02 26	703	0.3-	0.4+	2000 03 14	691	0.1+	0.5-
1999 01 19	704	0.1+	1.0+	2000 02 26	703	0.2-	0.6+	2000 03 15	704	0.1-	0.1+
1999 01 19	704	0.7+	0.2+	2000 02 26	703	0.7-	0.5+	2000 03 15	704	0.2-	0.1-
1999 01 19	704	0.9+	0.4+	2000 02 29	704	0.1+	0.1+	2000 03 15	704	0.6-	0.4-
1999 01 19	704	0.5-	1.4+	2000 02 29	704	0.4+	0.2+	2000 03 15	704	0.0	0.3-
1999 01 19	704	0.6+	0.2-	2000 02 29	704	0.3-	0.4-	2000 03 15	704	1.2-	0.0
2000 02 06	704	0.4+	0.0	2000 02 29	704	0.3+	0.2-				
2000 02 06	704	1.3+	0.9+	2000 02 29	704	0.2+	0.4-				

2000 CQ₉₂ = 1994 AB₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	359.33255		(2000.0)		P		Q
<i>n</i>	0.17490403	ω	168.50848	-0.97553880			-0.21982008
<i>a</i>	3.1666703	Ω	358.78871	+0.19440784			-0.85891619
<i>e</i>	0.1322372	<i>i</i>	4.84185	+0.10261406			-0.46253876
<i>P</i>	5.64	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 01 08	691	0.2+	0.1+	2000 02 11	704	0.7-	0.0	2000 02 29	704	1.3+	0.6+
1994 01 08	691	0.6+	0.1+	2000 02 11	704	0.1-	1.1-	2000 02 29	704	0.3-	0.7-
1994 01 08	691	0.9+	0.7+	2000 02 16	703	1.1-	0.4-	2000 02 29	704	0.8+	1.1+
1994 01 16	691	0.6-	0.0	2000 02 16	703	0.4+	0.0	2000 03 03	704	0.1+	0.0
1994 01 16	691	0.6-	0.1-	2000 02 16	703	0.2+	0.5+	2000 03 03	704	0.2-	0.1+
1994 01 16	691	0.1-	0.2-	2000 02 16	703	1.1-	0.3+	2000 03 03	704	0.2-	0.2+
2000 01 04	704	0.2-	0.3-	2000 02 26	703	0.1-	0.4+	2000 03 03	704	0.4-	0.4+
2000 01 04	704	0.2-	0.3-	2000 02 26	703	0.7-	0.3-	2000 03 03	704	0.2-	0.1+
2000 01 04	704	0.9-	1.2-	2000 02 26	703	0.7+	0.0	2000 03 11	704	0.0	0.0
2000 01 04	704	0.7-	0.9-	2000 02 26	703	0.1-	0.7-	2000 03 11	699	0.5-	0.3+
2000 02 06	704	0.7+	0.6-	2000 02 29	704	0.1-	0.1+	2000 03 11	704	0.1-	0.1-
2000 02 06	704	1.0+	0.5+	2000 02 29	704	0.7+	0.2-	2000 03 11	704	0.1-	0.1+
2000 02 06	704	0.2+	0.5+	2000 02 29	704	0.0	0.7-	2000 03 11	699	0.5-	0.6-
2000 02 06	704	0.3-	1.3+	2000 02 29	704	0.4+	0.6+	2000 03 11	704	0.2+	0.1+
2000 02 11	704	0.7+	0.1+	2000 02 29	704	0.2+	0.2-	2000 03 11	699	0.5-	0.0
2000 02 11	704	0.1+	0.4-	2000 02 29	704	0.6+	0.9+	2000 03 11	704	0.2-	0.0
2000 02 11	704	0.6+	0.1+	2000 02 29	704	0.4+	0.6-	2000 03 11	699	0.6-	0.1+

2000 CT₉₂ = 1977 LS₁ = 1983 VL = 1986 HA = 1998 XE₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	63.52085		(2000.0)		P		Q
<i>n</i>	0.20508334	ω	73.61507	-0.22162818			-0.97494582
<i>a</i>	2.8478414	Ω	29.21050	+0.87913792			-0.20820984
<i>e</i>	0.0217195	<i>i</i>	2.23308	+0.42189745			-0.07828990
<i>P</i>	4.81	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1977 06 13	675	0.1-	0.7-	2000 01 04	704	0.8-	0.5+	2000 02 29	704	0.3+	0.6-
1977 06 14	675	0.5-	0.4-	2000 01 08	704	(2.9-	9.1+)	2000 02 29	704	0.2-	0.8-
1983 11 08	801	(2.1+	4.5+)	2000 01 08	704	(0.6-	3.4+)	2000 03 02	703	0.1+	0.2-
1986 04 29	675	1.0+	1.6-	2000 01 08	704	0.7-	0.3+	2000 03 02	703	0.0	0.2-
1986 04 29	675	0.5-	0.2+	2000 02 06	704	0.2+	0.5-	2000 03 02	703	0.2+	0.1+
1998 12 14	704	0.2-	0.8-	2000 02 06	704	0.3-	0.2-	2000 03 02	703	0.3+	0.6-
1998 12 14	704	0.8+	0.4-	2000 02 06	704	0.1-	0.5+	2000 03 03	704	0.1+	0.0
1998 12 14	704	0.0	0.6-	2000 02 06	704	0.6+	0.2+	2000 03 03	704	0.1+	0.5-
1998 12 14	704	0.5-	0.5+	2000 02 11	704	0.4+	0.6+	2000 03 03	704	0.1+	0.1-
1998 12 17	704	0.6-	0.2-	2000 02 11	704	0.2-	0.4+	2000 03 03	704	0.1+	0.1-
1998 12 17	704	0.3+	0.4+	2000 02 11	704	0.8+	0.5+	2000 03 03	704	0.4+	0.3-
1998 12 17	704	0.2+	0.3-	2000 02 11	704	0.3+	0.1+	2000 03 11	704	0.1-	0.0
1998 12 17	704	0.8+	0.6-	2000 02 11	704	0.1-	0.9+	2000 03 11	699	0.6-	0.1+
1999 12 09	703	1.7+	0.5+	2000 02 26	703	0.4+	0.5-	2000 03 11	704	0.1+	0.0
1999 12 09	703	0.1-	0.1+	2000 02 26	703	0.8-	0.2+	2000 03 11	699	0.9-	0.1+
1999 12 09	703	1.0-	1.0+	2000 02 26	703	1.1+	0.3+	2000 03 11	704	0.3+	0.0
1999 12 09	703	0.7-	1.7-	2000 02 26	703	0.1-	0.4-	2000 03 11	704	0.1-	0.0
2000 01 04	704	0.9-	0.3+	2000 02 29	704	0.2+	0.2+	2000 03 11	699	0.1+	0.2-
2000 01 04	704	0.8-	0.6+	2000 02 29	704	0.7+	0.2-	2000 03 11	704	0.2-	0.2+
2000 01 04	704	1.4-	1.2+	2000 02 29	704	0.1+	0.4-	2000 03 11	699	0.5-	0.2+

2000 CB₉₃ = 1983 AO₆ = 1992 SD₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	66.75036		(2000.0)		P		Q
<i>n</i>	0.17732585	ω	92.29937	+0.08050317			-0.99608976
<i>a</i>	3.1377718	Ω	352.77407	+0.76019691			+0.08497154
<i>e</i>	0.1831601	<i>i</i>	16.81795	+0.64468589			+0.02418740
<i>P</i>	5.56	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1983 01 15	095	0.8-	0.8-	2000 02 02	703	0.6+	1.3+	2000 02 27	703	0.7-	0.7+
1992 09 30	675	0.0	0.3-	2000 02 02	703	0.7+	0.6+	2000 02 27	703	1.7-	1.0-
1992 09 30	675	1.7+	0.3-	2000 02 02	703	0.4+	0.2+	2000 02 27	703	1.2+	1.6-
1992 10 02	675	0.1-	0.2-	2000 02 02	703	0.3-	0.2+	2000 02 29	704	0.3-	1.1+
1992 10 02	675	0.4-	0.2-	2000 02 06	704	0.9+	0.2-	2000 02 29	704	0.2+	0.4+
1998 11 14	704	0.5+	0.8-	2000 02 06	704	0.1-	0.3-	2000 02 29	704	0.2+	0.9+
1998 11 14	704	0.2+	0.1+	2000 02 06	704	0.4-	0.1+	2000 03 08	704	0.0	0.8+
1998 11 14	704	0.7-	0.8-	2000 02 06	704	0.2+	0.3-	2000 03 08	704	0.2+	0.5+
1998 11 14	704	1.5+	0.1+	2000 02 11	704	1.0+	0.0	2000 03 08	704	0.2+	1.2+
1998 11 14	704	(6.2-	1.1+)	2000 02 11	704	0.6+	0.6+	2000 03 08	704	0.7+	1.0+
1998 11 16	704	0.2-	0.1-	2000 02 11	704	0.4+	1.1-	2000 03 08	704	0.2+	1.5+
1998 11 16	704	0.2+	0.3-	2000 02 11	704	0.1+	0.0	2000 03 11	704	0.4+	0.3+
1998 11 16	704	0.6-	0.0	2000 02 11	704	0.0	0.2+	2000 03 11	704	0.1+	0.2+
1998 11 16	704	1.7-	0.8+	2000 02 13	120	1.1-	1.0-	2000 03 11	704	0.3-	0.3+
1999 02 08	704	1.1+	0.3+	2000 02 13	120	1.0-	1.1-	2000 03 11	704	0.1-	0.6+
1999 02 08	704	1.1+	1.3+	2000 02 14	120	0.9-	0.8-	2000 03 11	704	0.0	1.1+
1999 02 08	704	0.3-	0.2-	2000 02 14	120	1.2-	1.1-	2000 03 14	691	0.5-	0.7-
1999 02 08	704	1.4-	1.7+	2000 02 14	120	(3.3-	0.8-)	2000 03 14	691	0.8-	0.7-
1999 02 08	704	0.6-	0.1+	2000 02 14	120	0.0	0.7-	2000 03 14	691	0.5-	0.7-
2000 01 08	704	0.5-	0.6-	2000 02 14	120	0.6-	0.7-	2000 03 17	049	(1.0+	3.2-)
2000 01 08	704	0.4+	0.7-	2000 02 24	120	(3.1-	1.0+)	2000 03 17	049	1.1+	1.2-
2000 01 08	704	0.1+	0.4-	2000 02 24	120	0.1+	0.2+	2000 03 17	049	1.1+	1.4-
2000 01 08	704	0.5-	0.0	2000 02 24	120	0.1-	0.8+				
2000 01 08	704	0.1-	0.7-	2000 02 27	703	0.1-	0.8+				

2000 CD₉₃ = 1979 OJ₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	301.80248		(2000.0)		P		Q
<i>n</i>	0.22485230	ω	95.86839	−0.48766842			+0.86735702
<i>a</i>	2.6783737	Ω	144.38521	−0.85321765			−0.44939887
<i>e</i>	0.1102049	<i>i</i>	9.82355	−0.18493015			−0.21385146
<i>P</i>	4.38	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1979 07 26	675	1.1−	0.0	2000 02 06	704	1.1+	0.6−	2000 02 29	704	0.2+	0.5−
1979 07 27	675	1.1+	0.4+	2000 02 06	704	0.7−	0.9+	2000 02 29	704	0.3+	0.2−
1998 12 15	704	1.6+	1.0+	2000 02 11	704	0.8+	0.5+	2000 03 02	703	0.5−	0.2−
1998 12 15	704	0.8+	0.6+	2000 02 11	704	1.1+	1.8+	2000 03 02	703	0.6−	0.2−
1998 12 15	704	0.1−	0.3+	2000 02 11	704	0.6−	0.8+	2000 03 02	703	0.9+	0.6−
1998 12 15	704	1.1−	0.1−	2000 02 11	704	0.1+	0.5+	2000 03 02	703	0.4−	0.8−
1999 02 14	910	0.4−	1.0−	2000 02 26	703	1.3−	0.4−	2000 03 11	699	0.9−	0.3−
1999 02 14	910	0.6−	0.9−	2000 02 26	703	0.9−	1.2−	2000 03 11	699	0.5−	0.2+
1999 02 14	910	0.7−	0.7−	2000 02 26	703	1.1+	0.1+	2000 03 11	699	0.6−	0.1+
2000 02 06	704	0.9+	0.4+	2000 02 26	703	0.5+	0.4−	2000 03 11	699	0.8−	0.1+
2000 02 06	704	0.9+	0.4+	2000 02 29	704	0.0	0.0				
2000 02 06	704	0.3+	0.1+	2000 02 29	704	0.0	0.3+				

2000 CN₉₃ = 1998 XK₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	299.77925		(2000.0)		P		Q
<i>n</i>	0.27262356	ω	158.05132	−0.15092179			+0.98508839
<i>a</i>	2.3555580	Ω	103.19227	−0.91912061			−0.10906958
<i>e</i>	0.2173314	<i>i</i>	4.86702	−0.36392296			−0.13305894
<i>P</i>	3.62	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.5+	1.5−	2000 02 06	704	0.2−	0.2+	2000 03 12	703	0.2−	0.1−
1998 12 15	704	0.3+	0.3+	2000 02 06	704	1.2−	0.4+	2000 03 12	703	0.5−	0.1−
1998 12 15	704	1.1+	1.8+	2000 02 06	704	0.4+	0.2+	2000 03 12	703	0.4−	0.1+
1998 12 16	704	0.6−	1.6−	2000 02 11	704	0.1+	0.3−	2000 03 12	703	0.3−	0.4−
1998 12 16	704	0.7−	0.9−	2000 02 11	704	1.0−	0.7−	2000 03 12	704	0.0	0.2−
1998 12 16	704	1.0+	1.3+	2000 02 11	704	0.2+	0.9+	2000 03 12	704	0.0	0.6+
1998 12 16	704	1.6−	0.7+	2000 02 29	704	0.4+	0.4−	2000 03 12	704	0.1−	0.3+
1998 12 16	704	(2.7−	1.8+)	2000 02 29	704	0.2−	0.6−	2000 03 12	704	0.6+	0.4+
2000 01 08	704	1.0−	1.3−	2000 02 29	704	1.2+	0.5−	2000 03 13	704	0.4−	0.0
2000 01 08	704	0.5−	0.1−	2000 03 11	699	0.2+	0.3−	2000 03 13	704	0.2−	0.2−
2000 01 08	704	1.0+	0.3+	2000 03 11	699	0.2+	0.3+	2000 03 13	704	0.2+	0.1−
2000 01 08	704	1.1+	0.7+	2000 03 11	699	0.0	0.3−	2000 03 13	704	0.1+	0.0
2000 02 06	704	0.1−	0.5+	2000 03 11	699	0.3+	0.1+	2000 03 13	704	0.0	0.5+

2000 CY₉₃ = 1998 YJ₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	336.56530		(2000.0)		P		Q
<i>n</i>	0.17066524	ω	41.35730	−0.99876308			−0.01423998
<i>a</i>	3.2188890	Ω	137.75410	−0.00326725			−0.93724688
<i>e</i>	0.1217783	<i>i</i>	4.06333	+0.04961482			−0.34837552
<i>P</i>	5.78	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 25	691	0.4+	0.3+	2000 02 11	691	0.2−	1.0−	2000 03 03	704	0.8−	0.2−
1998 12 25	691	0.0	0.0	2000 02 11	704	0.2+	0.5+	2000 03 03	704	0.5−	0.2+
1998 12 25	691	0.4+	0.2+	2000 02 11	691	0.5−	0.7−	2000 03 03	704	0.5−	0.3+
1998 12 28	691	0.1−	0.2+	2000 02 25	703	0.1−	0.2+	2000 03 03	704	0.8−	0.1−
1998 12 28	691	0.2−	0.5−	2000 02 25	703	1.2+	0.4+	2000 03 05	704	0.4+	0.3−
1998 12 28	691	0.5−	0.2−	2000 02 25	703	0.6+	0.3+	2000 03 05	704	0.3+	0.3+
2000 02 08	704	0.1+	0.1+	2000 02 25	703	1.8−	0.8+	2000 03 05	704	0.4+	0.6−
2000 02 08	704	0.1−	0.3+	2000 02 27	691	0.2+	0.3−	2000 03 05	704	0.4−	0.1−
2000 02 08	704	0.3−	0.9+	2000 02 27	691	0.3+	0.3−	2000 03 05	704	0.2−	0.6−
2000 02 08	704	0.1−	0.6+	2000 02 27	691	0.2+	0.2−	2000 03 11	704	0.1+	0.0
2000 02 11	704	0.1+	0.6−	2000 02 29	704	0.2+	0.6+	2000 03 11	704	0.0	0.1+

2000 02 11	704	1.0+	0.1−	2000 02 29	704	0.9+	0.1−	2000 03 11	704	0.1−	0.3+
2000 02 11	691	0.6−	0.7−	2000 02 29	704	0.7+	0.9−	2000 03 11	704	0.1+	0.2−
2000 02 11	704	0.0	0.3+	2000 02 29	704	(3.0+	0.3−)	2000 03 11	704	0.2−	0.2+
2000 02 11	704	0.1+	0.0	2000 03 03	704	0.0	0.6+				

2000 CZ₉₃ = 1993 FF₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	36.52393		(2000.0)		P		Q
<i>n</i>	0.27351540	ω	315.90009	−0.22954026			−0.97209868
<i>a</i>	2.3504347	Ω	147.28125	+0.91590765			−0.23253664
<i>e</i>	0.1819099	<i>i</i>	5.12953	+0.32927867			−0.03083618
<i>P</i>	3.60	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 03 17	809	0.2+	1.4−	2000 02 24	104	(2.1+	0.2+)	2000 03 03	704	0.0	0.3+
1993 03 18	809	0.2−	1.5+	2000 02 24	104	1.3+	0.3+	2000 03 03	704	0.0	0.6+
1993 03 23	809	(3.2−	1.5+)	2000 02 24	104	0.0	0.0	2000 03 03	704	0.1−	0.2+
2000 02 04	704	0.9−	0.4+	2000 02 24	104	0.1+	0.4−	2000 03 05	704	1.2+	0.8+
2000 02 04	704	0.1+	0.2+	2000 02 25	703	0.4−	0.0	2000 03 05	704	0.2+	0.0
2000 02 04	704	(2.5+	0.5+)	2000 02 25	703	0.9−	0.4+	2000 03 05	704	0.8+	0.5−
2000 02 08	704	0.7+	0.1−	2000 02 25	703	0.2−	0.5+	2000 03 05	704	0.2+	0.4−
2000 02 08	704	0.3−	0.0	2000 02 25	703	1.5−	0.3−	2000 03 11	704	0.3−	0.2−
2000 02 08	704	0.0	0.7−	2000 02 29	704	0.1+	0.2+	2000 03 11	704	0.1+	0.3−
2000 02 08	704	0.9−	0.4−	2000 02 29	704	0.1−	0.2+	2000 03 11	704	0.3−	0.9−
2000 02 08	704	0.8−	0.6−	2000 02 29	704	0.7−	0.1−	2000 03 11	704	0.8+	0.1−
2000 02 11	704	0.4+	0.1+	2000 02 29	704	0.0	0.2+	2000 03 11	699	0.1−	0.3−
2000 02 11	704	0.2+	0.1+	2000 02 29	704	0.3−	0.3−	2000 03 11	699	0.9−	0.1−
2000 02 11	704	1.1+	0.8+	2000 03 03	704	0.2−	0.2−	2000 03 11	699	0.2+	0.2+
2000 02 11	704	1.4+	0.1−	2000 03 03	704	0.1+	0.2+	2000 03 11	699	0.1−	0.0

2000 CC₉₄ = 1998 XE₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	125.15851		(2000.0)		P		Q
<i>n</i>	0.19795625	ω	47.39148	+0.76706266			−0.64101610
<i>a</i>	2.9157923	Ω	352.33970	+0.51421786			+0.63915791
<i>e</i>	0.1028096	<i>i</i>	11.55743	+0.38365984			+0.42494179
<i>P</i>	4.98	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 08 03	675	0.2+	0.6−	1999 01 16	704	0.9−	0.3−	2000 02 27	703	0.1+	0.5−
1992 08 03	675	0.2+	0.0	1999 01 16	704	0.1−	0.2−	2000 02 29	704	0.5+	0.4+
1997 11 30	566	0.6+	0.4−	1999 01 16	704	0.3−	0.3−	2000 02 29	704	0.0	0.4+
1997 11 30	566	0.3+	0.2−	1999 01 16	704	1.0+	0.6−	2000 02 29	704	0.3−	0.1−
1997 11 30	566	0.4+	1.2−	2000 01 08	704	0.1+	1.0−	2000 03 08	704	0.1−	0.2−
1998 12 07	327	0.1−	0.2+	2000 01 08	704	1.8+	0.9−	2000 03 08	704	0.1−	0.6−
1998 12 07	327	0.0	0.3+	2000 01 08	704	1.0−	1.5−	2000 03 08	704	0.1+	0.6+
1998 12 07	327	0.0	0.3+	2000 01 08	704	(0.9+	2.1−)	2000 03 08	704	0.0	0.0
1998 12 09	327	0.6−	0.1+	2000 02 08	704	0.4+	0.5+	2000 03 08	704	0.3−	0.5−
1998 12 09	327	0.6−	0.2+	2000 02 08	704	0.1−	0.4+	2000 03 10	608	(1.4+	3.9−)
1998 12 09	327	0.4−	0.1−	2000 02 08	704	0.9+	1.0+	2000 03 10	608	(2.1+	3.5−)
1998 12 14	704	0.2−	0.2+	2000 02 08	704	0.0	0.3+	2000 03 10	608	(0.7+	3.7−)
1998 12 14	704	0.6+	1.4+	2000 02 08	704	0.3−	0.9+	2000 03 11	704	0.6+	1.0+
1998 12 14	704	0.2−	0.3+	2000 02 11	704	0.8+	0.0	2000 03 11	704	1.0−	0.4+
1998 12 14	704	0.4−	0.8+	2000 02 11	704	0.2+	0.2+	2000 03 11	704	0.5−	0.9−
1998 12 14	704	0.9−	1.0+	2000 02 11	704	0.3+	0.2+	2000 03 11	704	0.4−	0.9−
1998 12 17	704	0.9+	1.0−	2000 02 11	704	0.1−	0.6+	2000 03 11	704	0.4−	1.0−
1998 12 17	704	0.6+	1.6−	2000 02 11	704	1.3+	0.0	2000 03 14	703	0.0	0.0
1998 12 17	704	(2.4+	1.9−)	2000 02 27	703	0.4−	0.3+	2000 03 14	703	0.4−	0.2−
1998 12 17	704	1.9+	0.6−	2000 02 27	703	0.4−	0.5−	2000 03 14	703	0.7−	0.0
1999 01 16	704	0.2−	0.8−	2000 02 27	703	0.7−	0.2+	2000 03 14	703	0.2−	0.7−

2000 MAR. 20

M.P.C. 39431

2000 CF₉₄ = 1998 XX₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19076548	ω	177.11587	−0.98922072	−0.14565939		
<i>a</i>	2.9886119	Ω	354.44087	+0.13105396	−0.83489242		
<i>e</i>	0.0455263	<i>i</i>	8.92176	+0.06532401	−0.53078997		
<i>P</i>	5.17	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 16	704	0.0	0.3−	1999 01 16	704	(5.0−	0.6+)	2000 02 29	704	0.3−	0.7+
1998 11 16	704	1.0−	0.2+	2000 02 08	704	0.1+	0.0	2000 02 29	704	0.2+	0.2+
1998 11 16	704	1.4−	0.2+	2000 02 08	704	0.7−	0.1+	2000 03 08	704	0.0	0.1−
1998 11 16	704	1.5+	0.9−	2000 02 08	704	0.1+	1.4−	2000 03 08	704	0.2+	0.4−
1998 12 14	704	1.0−	0.1−	2000 02 08	704	0.1−	0.1−	2000 03 08	704	0.1−	0.4−
1998 12 14	704	(0.1+	2.4−)	2000 02 08	704	0.2−	0.9−	2000 03 08	704	0.2+	0.0
1998 12 14	704	0.7+	0.2+	2000 02 11	704	0.6+	0.4+	2000 03 08	704	0.3−	0.7+
1998 12 14	704	0.2−	0.2−	2000 02 11	704	0.3+	0.2+	2000 03 11	704	0.4−	0.1−
1998 12 17	704	1.2+	0.5+	2000 02 11	704	1.0+	0.2+	2000 03 11	704	0.1−	0.3−
1998 12 17	704	1.1+	0.6+	2000 02 11	704	0.1−	0.7−	2000 03 11	704	0.3−	0.5−
1998 12 17	704	0.3−	0.6−	2000 02 11	704	0.8−	0.0	2000 03 11	704	0.4−	0.6−
1998 12 17	704	0.4−	0.3−	2000 02 27	703	1.5−	1.7+	2000 03 11	704	0.9−	0.9−
1998 12 17	704	(2.0+	0.1+)	2000 02 27	703	0.9+	1.7+	2000 03 14	703	0.1−	0.2−
1999 01 16	704	0.9−	0.4+	2000 02 27	703	0.9+	0.7+	2000 03 14	703	0.1+	0.1−
1999 01 16	704	(0.9+	2.5−)	2000 02 27	703	0.3+	0.3−	2000 03 14	703	0.3+	0.2−
1999 01 16	704	0.4+	0.2+	2000 02 29	704	1.1+	0.3+	2000 03 14	703	0.1+	0.0

2000 CL₉₄ = 1998 XU₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29242624	ω	131.13585	+0.24014263	+0.97023437		
<i>a</i>	2.2479768	Ω	152.71170	−0.90981048	+0.23618018		
<i>e</i>	0.2064258	<i>i</i>	3.90886	−0.33849137	+0.05351814		
<i>P</i>	3.37	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 08 02	566	0.7−	0.0	2000 02 08	704	0.6−	0.8+	2000 03 06	120	0.1+	0.8−
1997 08 02	566	0.3+	0.3+	2000 02 11	704	0.7+	0.8−	2000 03 08	704	0.6−	1.2+
1997 08 02	566	0.3+	0.7−	2000 02 11	704	0.5+	1.0+	2000 03 08	704	0.5+	1.1+
1998 12 15	704	0.5+	0.6−	2000 02 11	704	0.9−	1.0−	2000 03 08	704	0.5−	0.8+
1998 12 15	704	0.6−	0.4+	2000 02 11	704	0.8+	1.2+	2000 03 08	704	0.0	0.2+
1998 12 15	704	0.9−	1.4+	2000 02 11	704	0.1+	0.0	2000 03 08	704	0.1−	0.8+
1998 12 15	704	1.6+	0.9−	2000 02 27	703	0.3+	0.4+	2000 03 10	120	1.2−	0.1+
1998 12 16	704	0.8+	0.2−	2000 02 27	703	0.5−	0.0	2000 03 10	120	1.3+	0.0
1998 12 16	704	0.2−	0.2−	2000 02 27	703	1.0+	0.3+	2000 03 11	704	0.4+	0.2+
1998 12 16	704	0.6−	0.4−	2000 02 27	703	0.4+	0.1+	2000 03 11	704	0.3+	0.0
1998 12 16	704	0.2−	0.6+	2000 02 29	704	(1.1+	2.4+)	2000 03 11	704	0.5+	0.1+
1998 12 22	704	0.0	0.9−	2000 02 29	704	0.2−	0.5+	2000 03 11	704	0.5+	0.6−
1998 12 22	704	1.8−	0.1−	2000 02 29	704	0.0	0.4−	2000 03 11	704	0.2+	0.3−
1998 12 22	704	1.4+	0.6+	2000 03 05	120	0.7−	1.0−	2000 03 14	703	0.8−	0.2+
1998 12 22	704	(0.7−	3.0−)	2000 03 05	120	0.5−	0.9−	2000 03 14	703	0.5−	0.4+
1998 12 22	704	(0.7+	2.2−)	2000 03 05	120	0.1+	0.6−	2000 03 14	703	0.3−	0.4+
2000 02 08	704	0.1−	0.9−	2000 03 05	120	0.8+	0.7−	2000 03 14	703	0.2−	0.3+
2000 02 08	704	0.3−	0.9−	2000 03 05	120	0.5+	0.5−				
2000 02 08	704	0.0	0.1−	2000 03 06	120	0.9−	0.9−				

2000 CP₉₄ = 1993 RR₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24104180	ω	234.99478	−0.59573146	+0.80315775		
<i>a</i>	2.5570613	Ω	358.39633	−0.64108805	−0.48032880		
<i>e</i>	0.1364596	<i>i</i>	13.33444	−0.48384930	−0.35245124		
<i>P</i>	4.09	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 09 14	809	1.1−	1.1−	2000 02 11	704	1.1+	0.8−	2000 03 10	704	1.3−	0.1−
1993 09 14	809	0.9−	0.3−	2000 02 11	704	0.2+	0.3+	2000 03 10	704	0.9−	0.0
1993 09 14	809	0.4−	0.5−	2000 02 11	704	1.1+	0.9−	2000 03 10	704	1.1−	0.2−
1993 09 19	809	1.4+	1.4+	2000 02 27	703	0.6+	0.2+	2000 03 11	704	0.0	0.4+
1993 09 19	809	0.3−	0.9+	2000 02 27	703	0.4−	0.1+	2000 03 11	704	0.0	0.2+
1993 09 19	809	0.7+	0.5+	2000 02 27	703	0.3−	0.1+	2000 03 11	704	0.0	0.2+
2000 01 08	704	0.3−	0.2+	2000 02 27	703	0.2−	1.1+	2000 03 11	704	0.3−	0.3+
2000 01 08	704	0.9−	0.0	2000 03 02	691	0.4+	0.6−	2000 03 11	704	0.2−	0.2+
2000 01 08	704	0.3+	0.5−	2000 03 02	691	0.3+	0.6−	2000 03 14	703	0.0	0.6+
2000 01 08	704	0.0	0.4−	2000 03 02	691	0.4+	0.6−	2000 03 14	703	0.5−	0.1+
2000 02 08	704	0.5+	0.1+	2000 03 08	704	0.4+	0.4−	2000 03 14	703	0.7−	0.1−
2000 02 08	704	0.1−	1.0+	2000 03 08	704	0.5+	0.7+	2000 03 14	703	0.3+	0.4+
2000 02 08	704	0.8+	0.0	2000 03 08	704	0.9+	1.1+	2000 03 14	608	0.1+	1.1−
2000 02 08	704	0.2−	0.0	2000 03 08	704	0.7+	0.7+	2000 03 14	608	0.1+	1.1−
2000 02 08	704	0.8−	0.6−	2000 03 08	704	0.7+	1.3+	2000 03 14	608	0.2+	1.3−
2000 02 11	704	0.1+	0.5+	2000 03 10	704	0.9−	0.1+				

2000 CS₉₄ = 1991 FR₂ = 1993 QK₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22341643	ω	233.82926	+0.73116475	−0.68087849		
<i>a</i>	2.6898371	Ω	168.86530	+0.67495183	+0.71294450		
<i>e</i>	0.1785230	<i>i</i>	12.70032	+0.09918733	+0.16767415		
<i>P</i>	4.41	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 03 20	809	(7.3+	18.7−)	1999 02 04	704	1.1−	1.2−	2000 03 01	703	0.1+	0.2−
1991 03 20	809	(7.4+	18.6−)	1999 02 04	704	1.3−	0.8+	2000 03 01	703	0.5+	0.3−
1991 03 20	809	(7.6+	18.4−)	1999 02 04	704	1.4+	0.0	2000 03 01	703	(3.2+	1.5+)
1991 03 22	809	0.1−	0.2−	1999 02 04	704	0.7+	0.9−	2000 03 01	703	0.5+	0.5−
1991 03 22	809	0.1−	0.0	1999 02 04	704	0.1−	0.1−	2000 03 08	704	0.3−	0.5−
1991 03 22	809	0.2+	0.0	2000 02 08	704	0.7−	0.6−	2000 03 08	704	0.7−	1.0+
1993 08 17	010	(0.8−	3.8+)	2000 02 08	704	0.2−	0.0	2000 03 08	704	0.7+	1.5+
1993 08 19	010	(0.0	4.8+)	2000 02 08	704	0.5+	0.4+	2000 03 08	704	1.4+	1.5+
1993 08 19	010	(0.0	5.0+)	2000 02 08	704	0.0	0.3+	2000 03 11	699	0.4−	0.1+
1993 08 19	010	(0.1−	5.2+)	2000 02 08	704	0.0	0.9+	2000 03 11	699	0.5−	0.7−
1993 09 18	010	0.3−	1.5+	2000 02 11	704	0.1−	0.5−	2000 03 11	699	0.5−	0.0
1993 09 18	010	(0.8−	2.1+)	2000 02 11	704	0.7−	0.5+	2000 03 11	699	0.0	0.2+
1993 09 18	010	(0.1+	3.0+)	2000 02 11	704	0.3−	0.6+	2000 03 12	704	0.2−	0.6−
1998 12 19	704	0.6+	0.2−	2000 02 11	704	0.1−	0.3+	2000 03 12	704	0.1−	0.9−
1998 12 19	704	0.0	0.8+	2000 02 11	704	0.4+	1.0+	2000 03 12	704	0.3+	0.3−
1998 12 19	704	0.1−	0.5+	2000 02 11	704	0.4−	0.2−	2000 03 12	704	0.3+	0.7−
1998 12 19	704	0.1−	0.5+	2000 02 11	704	1.2+	0.5−				
1998 12 19	704	0.2−	0.1−	2000 02 11	704	0.3−	0.9+				

2000 CT₉₅ = 3049 T-3 = 1993 OQ₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23935937	ω	176.02213	+0.91322072	+0.40712140		
<i>a</i>	2.5690295	Ω	159.92819	−0.37517480	+0.85616571		
<i>e</i>	0.1806126	<i>i</i>	2.79513	−0.15897105	+0.31817047		
<i>P</i>	4.12	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1977 10 16	675	1.2+	1.3−	1993 07 23	809	1.3−	1.6−	2000 03 03	704	1.2+	0.3+
1977 10 16	675	1.4+	0.8−	2000 02 08	691	0.0	0.3+	2000 03 03	704	0.8+	0.0
1977 10 17	675	0.4+	0.5+	2000 02 08	691	0.0	0.7+	2000 03 03	704	0.5+	1.2−
1977 10 17	675	0.1−	1.3+	2000 02 08	691	0.2−	0.2+	2000 03 11	704	(0.3−	2.2+)
1977 10 21	675	0.3−	0.5+	2000 02 12	691	0.9−	0.4+	2000 03 11	704	0.0	0.1−
1977 10 21	675	1.5−	0.9+	2000 02 12	691	0.8−	0.3+	2000 03 11	704	0.3+	0.1−
1977 10 22	675	0.0	0.6−	2000 02 12	691	0.8−	0.2+	2000 03 11	704	0.0	0.2−
1977 10 22	675	0.7−	1.7−	2000 02 29	704	0.8−	1.4−	2000 03 11	704	0.3+	0.5+
1993 07 19	809	1.7+	1.5+	2000 02 29	704	0.5−	0.7+	2000 03 15	691	0.4−	0.8−
1993 07 19	809	1.1+	0.5+	2000 02 29	704	0.4+	0.4−	2000 03 15	691	0.5−	0.7−
1993 07 19	809	0.4−	0.5+	2000 02 29	704	0.2−	0.2+	2000 03 15	691	0.1−	0.5−

M.P.C. 39432

1993 07 23 809 0.4− 1.2− 2000 03 03 704 0.0 0.1−
 1993 07 23 809 0.7− 0.6− 2000 03 03 704 0.5+ 0.1−

2000 CW₉₆ = 1998 QM₈₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	117.88107		(2000.0)	P		Q	
<i>n</i>	0.28841226	ω	122.70013	+0.92041812	−0.37683539		
<i>a</i>	2.2687862	Ω	259.62220	+0.31384828	+0.87095763		
<i>e</i>	0.1345564	<i>i</i>	6.07190	+0.23308743	+0.31532189		
<i>P</i>	3.42	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 07 31 699 0.5− 0.2+ 1998 08 27 704 1.5− 0.8+ 2000 02 12 704 0.2+ 0.0
 1998 07 31 699 0.6+ 0.6− 1998 08 27 704 1.1− 0.0 2000 03 08 704 0.5+ 0.9−
 1998 07 31 699 0.4− 0.0 1998 08 27 704 (2.7− 1.4−) 2000 03 08 704 0.0 0.5−
 1998 08 24 704 1.2+ 0.5+ 2000 02 06 704 1.6− 0.1− 2000 03 08 704 0.0 0.1+
 1998 08 24 704 0.2+ 0.1− 2000 02 06 704 0.2+ 0.1− 2000 03 08 704 0.6+ 0.5+
 1998 08 24 704 0.3− 1.0+ 2000 02 06 704 0.0 0.6+ 2000 03 09 704 0.1+ 0.3+
 1998 08 24 704 1.2+ 0.1− 2000 02 06 704 1.3+ 0.6− 2000 03 09 704 1.0− 0.3+
 1998 08 24 704 0.3− 0.3− 2000 02 06 704 0.9− 0.2+ 2000 03 09 704 0.3− 0.5−
 1998 08 27 704 0.8+ 1.5− 2000 02 12 704 (1.7+ 2.4−) 2000 03 09 704 0.1− 0.3+
 1998 08 27 704 (2.6− 0.0) 2000 02 12 704 0.9+ 0.4− 2000 03 09 704 0.0 0.8+

2000 CE₉₇ = 1998 RM₁₅

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	24.53408		(2000.0)	P		Q	
<i>n</i>	0.28388319	ω	142.08176	−0.69251143	−0.72138365		
<i>a</i>	2.2928533	Ω	351.74178	+0.65162964	−0.62206395		
<i>e</i>	0.1685685	<i>i</i>	2.31113	+0.30952663	−0.30437159		
<i>P</i>	3.47	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 15 691 0.5− 0.5+ 2000 02 14 120 (3.7+ 0.7−) 2000 03 04 691 0.2− 0.1−
 1998 09 15 691 0.4− 0.5+ 2000 02 14 120 0.6+ 1.4− 2000 03 04 691 0.3− 0.3−
 1998 09 15 691 0.7− 0.9+ 2000 02 14 120 0.5+ 0.2+ 2000 03 04 691 0.2− 0.5−
 1998 09 20 691 0.1− 1.2+ 2000 02 27 703 0.4+ 0.7+ 2000 03 08 704 0.1+ 0.9+
 1998 09 20 691 0.2− 0.7+ 2000 02 27 703 0.6+ 1.1+ 2000 03 08 704 1.5+ 0.1+
 2000 02 11 120 1.1+ 0.4− 2000 02 27 703 0.1+ 0.4+ 2000 03 08 704 0.9+ 1.0−
 2000 02 11 120 0.0 0.4+ 2000 02 27 703 0.8+ 0.9+ 2000 03 08 704 0.6+ 0.3−
 2000 02 11 120 0.1+ 0.2+ 2000 02 27 120 (2.6+ 1.3−) 2000 03 08 704 0.6+ 0.8+
 2000 02 11 120 0.4− 0.3− 2000 02 27 120 0.5− 0.1+ 2000 03 11 704 0.1+ 0.1−
 2000 02 13 120 0.7− 0.1+ 2000 02 28 120 0.7− 0.7+ 2000 03 11 704 0.4− 0.2+
 2000 02 13 120 1.8− 0.7− 2000 03 03 704 0.2+ 0.0 2000 03 11 704 0.5− 0.4+
 2000 02 14 120 0.8− 0.3− 2000 03 03 704 0.6+ 1.0+ 2000 03 11 704 0.5− 0.1+
 2000 02 14 120 0.2+ 0.6− 2000 03 03 704 0.1− 0.6+ 2000 03 11 704 0.4− 0.0

2000 CH₉₇ = 1996 TR₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	282.21583		(2000.0)	P		Q	
<i>n</i>	0.18285740	ω	105.16747	+0.10514332	+0.99350018		
<i>a</i>	3.0741686	Ω	170.54037	−0.98349773	+0.11037783		
<i>e</i>	0.2282554	<i>i</i>	15.38924	−0.14723145	−0.02782315		
<i>P</i>	5.39	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 09 10 566 0.2+ 0.7+ 2000 02 13 732 0.1+ 1.3− 2000 03 08 704 0.0 1.4+
 1996 09 10 566 0.1+ 0.7+ 2000 02 27 703 1.2+ 0.6− 2000 03 08 704 0.7− 0.3+
 1996 09 10 566 0.1+ 0.6+ 2000 02 27 703 0.0 0.2+ 2000 03 08 704 0.4− 0.8+
 1996 10 05 809 1.2− 0.0 2000 02 27 703 0.1− 0.0 2000 03 11 704 0.2+ 0.2+
 1996 10 05 809 (3.1− 1.9−) 2000 02 27 703 0.4− 0.3+ 2000 03 11 699 0.1− 0.0
 1996 10 05 809 (3.1− 2.3−) 2000 02 29 732 0.1+ 0.2− 2000 03 11 704 0.1+ 0.0
 1996 10 06 809 0.6+ 1.2+ 2000 02 29 732 0.2+ 0.1− 2000 03 11 704 0.2+ 0.0
 1996 10 06 809 0.2− 0.4+ 2000 02 29 732 (2.2+ 0.2+) 2000 03 11 699 0.2− 0.2−
 1996 10 06 809 0.2− 0.1− 2000 03 01 732 0.7+ 0.1− 2000 03 11 704 0.2+ 0.1−

2000 MAR. 20

2000 02 08 704 0.9+ 0.8+ 2000 03 01 732 0.7+ 0.3− 2000 03 11 699 0.3− 0.5+
 2000 02 08 704 1.2+ 0.1− 2000 03 01 732 0.9+ 0.3+ 2000 03 11 704 0.1− 0.2−
 2000 02 08 704 0.5+ 0.3+ 2000 03 03 704 0.2+ 0.2+ 2000 03 11 699 0.0 0.3+
 2000 02 08 704 0.6+ 0.8+ 2000 03 03 704 0.0 0.1+ 2000 03 12 649 1.0− 0.0
 2000 02 08 704 0.5− 0.7+ 2000 03 03 704 0.3+ 0.3+ 2000 03 12 649 0.8− 0.1+
 2000 02 12 732 0.2− 0.4+ 2000 03 03 704 0.4+ 0.3+ 2000 03 12 649 0.7− 0.1−
 2000 02 12 732 0.3+ 0.9− 2000 03 03 704 0.1− 0.4+ 2000 03 12 649 0.8− 0.2−
 2000 02 13 732 0.5+ 0.7− 2000 03 08 704 0.2− 0.8+
 2000 02 13 732 1.3− 0.7− 2000 03 08 704 0.9− 0.1−

2000 CK₉₇ = 1977 RU₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	317.48180		(2000.0)	P		Q	
<i>n</i>	0.23874099	ω	22.86099	−0.96225010	+0.27005748		
<i>a</i>	2.5734638	Ω	172.56040	−0.27206723	−0.95108365		
<i>e</i>	0.0373735	<i>i</i>	15.14045	−0.00735946	−0.15002949		
<i>P</i>	4.13	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1977 09 09 675 0.3− 1.3− 2000 02 10 552 0.6− 0.3− 2000 03 04 552 1.2− 1.7−
 1977 09 10 675 0.4+ 0.7+ 2000 02 10 552 0.8− 0.8+ 2000 03 05 552 0.9+ 0.2−
 2000 01 11 704 0.2− 0.5+ 2000 02 12 552 0.5− 0.6+ 2000 03 05 552 0.4+ 0.5+
 2000 01 11 704 0.2+ 0.3− 2000 02 12 552 0.1− 0.4+ 2000 03 05 552 0.9+ 0.2+
 2000 01 11 704 0.6− 0.1+ 2000 02 12 552 0.0 0.2− 2000 03 13 704 0.0 0.1+
 2000 01 11 704 1.4− 0.4+ 2000 02 14 552 0.2− 0.3+ 2000 03 13 704 0.9+ 0.3+
 2000 02 06 704 0.7+ 0.3− 2000 02 14 552 0.7+ 0.0 2000 03 13 704 0.2− 0.0
 2000 02 06 704 0.2+ 0.5+ 2000 02 14 552 0.8− 0.1+ 2000 03 14 608 0.6+ 0.1−
 2000 02 06 704 0.9+ 0.1− 2000 03 02 552 1.2− 0.4− 2000 03 14 608 0.2+ 0.2−
 2000 02 06 704 0.4+ 0.0 2000 03 02 552 0.7+ 1.0− 2000 03 14 608 0.0 0.4+
 2000 02 06 704 0.0 0.2+ 2000 03 04 552 0.1− 1.0−

2000 CM₉₇ = 1998 XY₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	117.69609		(2000.0)	P		Q	
<i>n</i>	0.17167449	ω	20.47811	+0.73865404	−0.67407202		
<i>a</i>	3.2062610	Ω	21.90569	+0.61690702	+0.67351266		
<i>e</i>	0.1469718	<i>i</i>	0.63545	+0.27169090	+0.30332756		
<i>P</i>	5.74	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 14 704 0.2− 0.1+ 1999 01 19 704 0.3− 0.5+ 2000 03 08 704 1.1+ 0.4+
 1998 12 14 704 0.8+ 1.3− 2000 02 13 120 0.9− 0.8− 2000 03 08 704 0.2+ 1.2+
 1998 12 14 704 1.1+ 1.6+ 2000 02 13 120 0.4+ 0.1+ 2000 03 11 704 0.1+ 0.2−
 1998 12 14 704 0.7− 0.2+ 2000 02 13 120 (2.3− 1.7−) 2000 03 11 704 0.4+ 0.2−
 1998 12 17 704 0.7− 0.7+ 2000 02 14 120 0.6+ 0.7− 2000 03 11 704 0.0 0.2−
 1998 12 17 704 0.3− 1.1− 2000 02 14 120 0.2− 0.8− 2000 03 11 704 0.0 0.3+
 1998 12 17 704 0.9+ 1.0− 2000 02 27 703 0.1− 0.0 2000 03 11 704 0.5+ 0.2+
 1998 12 17 704 0.8− 0.0 2000 02 27 703 0.1+ 0.9− 2000 03 14 703 1.0+ 1.3+
 1998 12 17 704 0.9− 0.6+ 2000 02 27 703 0.3− 0.1− 2000 03 14 703 0.6− 0.3+
 1999 01 19 704 0.5+ 0.7+ 2000 02 27 703 0.0 0.6− 2000 03 14 703 0.3+ 0.3+
 1999 01 19 704 (2.6+ 0.1+) 2000 03 08 704 0.5− 0.5+ 2000 03 14 703 1.8− 0.2−
 1999 01 19 704 0.6+ 0.7− 2000 03 08 704 0.3− 0.1−

2000 CT₉₇ = 1998 QC₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	143.47249		(2000.0)	P		Q	
<i>n</i>	0.29335066	ω	216.64723	+0.99416137	+0.08538432		
<i>a</i>	2.2432517	Ω	138.30330	−0.05922049	+0.94286500		
<i>e</i>	0.1175747	<i>i</i>	5.69209	−0.09020036	+0.32204831		
<i>P</i>	3.36	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17 704 0.3− 0.6+ 2000 02 09 413 0.1− 0.2− 2000 02 26 413 0.1+ 0.3+
 1998 08 17 704 0.3+ 0.1− 2000 02 10 413 0.1+ 0.1− 2000 02 29 704 0.3+ 1.1+
 1998 08 17 704 1.0+ 0.5+ 2000 02 10 413 0.1+ 0.0 2000 02 29 704 0.6+ 0.5+

2000 MAR. 20

M.P.C. 39433

1998 08 17	704	1.0−	0.1−	2000 02 10	413	0.1+	0.1+	2000 02 29	704	0.8+	0.2+
1998 08 23	699	0.5−	0.7−	2000 02 25	413	0.2+	0.2+	2000 02 29	704	1.2−	0.1−
1998 08 23	704	0.4+	1.6+	2000 02 25	413	0.1−	0.1+	2000 03 02	691	0.3−	0.4−
1998 08 23	699	0.3+	1.0−	2000 02 25	413	0.1−	0.2+	2000 03 02	691	0.0	0.3−
1998 08 23	704	1.2−	0.2−	2000 02 25	413	0.0	0.1+	2000 03 02	691	0.2−	0.0
1998 08 23	704	(0.7−	2.1−)	2000 02 25	413	0.0	0.3+	2000 03 03	704	0.2−	1.7−
1998 08 23	699	0.9+	0.4−	2000 02 25	413	0.0	0.1+	2000 03 03	704	0.0	0.2−
2000 02 09	413	0.2−	0.1−	2000 02 26	413	0.1+	0.2+	2000 03 03	704	0.2+	0.1−
2000 02 09	413	0.1−	0.1−	2000 02 26	413	0.0	0.1+				

2000 CE₉₉ = 1995 EH₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	93.59636		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.18427881	ω	261.27010	+0.71973805	−0.69310467
<i>a</i>	3.0583401	Ω	142.59055	+0.65993284	+0.66524613
<i>e</i>	0.0788147	<i>i</i>	3.75517	+0.21555925	+0.27758512
<i>P</i>	5.35	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1995 03 02	691	0.0	0.4−	2000 02 08	691	0.1−	0.2−	2000 02 29	704	0.2+	0.9−
1995 03 02	691	0.0	0.1−	2000 02 08	691	0.1−	0.2−	2000 02 29	704	1.9−	0.7−
1995 03 02	691	0.2+	0.6−	2000 02 08	691	0.1−	0.1−	2000 03 03	704	0.3+	0.4+
1995 03 07	691	1.0−	0.6−	2000 02 12	120	1.3−	0.2−	2000 03 03	704	0.4+	0.5−
1995 03 07	691	0.0	0.1−	2000 02 12	120	0.9+	0.6+	2000 03 03	704	0.0	0.3+
1995 03 07	691	0.0	0.3−	2000 02 14	691	0.0	0.3−	2000 03 03	704	0.0	0.5+
1997 07 14	910	0.4+	0.4−	2000 02 14	691	0.2+	0.3−	2000 03 03	704	0.3−	0.5+
1997 07 14	910	0.1+	0.8−	2000 02 14	691	0.1−	0.2−	2000 03 09	704	0.1+	0.3+
1997 07 14	910	0.1−	0.5−	2000 02 27	703	0.3−	0.1+	2000 03 09	704	1.2+	0.8+
1998 11 11	704	1.3−	0.1+	2000 02 27	703	0.1+	0.6+	2000 03 09	704	0.9+	0.5+
1998 11 11	704	0.8+	0.8−	2000 02 27	703	0.0	0.2−	2000 03 09	704	0.1+	0.6−
1998 11 11	704	0.9−	1.6−	2000 02 27	691	0.2−	0.1+	2000 03 09	704	0.4+	0.4−
1998 11 18	704	0.3+	0.4+	2000 02 27	703	0.7−	0.9+	2000 03 14	691	0.2+	0.4−
1998 11 18	704	1.0+	0.1−	2000 02 27	691	0.2−	0.1+	2000 03 14	691	0.1+	0.1−
1998 11 18	704	0.5+	1.0+	2000 02 27	691	0.1−	0.2+	2000 03 14	691	0.1+	0.0
1998 11 18	704	(0.1−	2.5+)	2000 02 29	704	0.3+	0.4−				

2000 CF₉₉ = 1998 SH₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	21.79393		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.18826532	ω	132.35599	−0.46713704	−0.88418237
<i>a</i>	3.0150129	Ω	345.49219	+0.80870634	−0.42628555
<i>e</i>	0.1492407	<i>i</i>	0.48672	+0.35745915	−0.19105542
<i>P</i>	5.24	<i>H</i>	15.3	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 09 25	691	0.4+	0.3+	2000 02 14	691	0.0	0.1+	2000 03 03	704	0.3−	0.6+
1998 09 25	691	0.4+	0.2−	2000 02 14	691	0.1+	0.2−	2000 03 03	704	0.4+	0.5+
1998 09 25	691	0.2+	0.5−	2000 02 27	691	0.8−	0.3+	2000 03 03	704	0.4+	0.2+
1998 09 30	691	0.4−	0.2+	2000 02 27	691	0.7−	0.4+	2000 03 05	704	0.8−	0.1−
1998 09 30	691	0.6−	0.4+	2000 02 27	691	0.8−	0.5+	2000 03 05	704	0.4−	0.5+
1998 09 30	691	0.1+	0.1−	2000 02 29	704	0.5+	0.4−	2000 03 05	704	0.3−	0.1+
2000 02 08	691	0.1−	0.0	2000 02 29	704	2.0+	0.9−	2000 03 05	704	0.5+	0.4+
2000 02 08	691	0.2−	0.0	2000 02 29	704	0.3−	0.2+	2000 03 05	704	0.4−	0.3+
2000 02 08	691	0.0	0.1−	2000 02 29	704	0.3+	0.9−				
2000 02 14	691	0.1−	0.1+	2000 02 29	704	0.8+	1.5−				

2000 CA₁₀₀ = 1992 OS₂ = 1997 NH₉ = 1998 YY₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	189.86455		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.19837880	ω	189.88833	+0.68849307	+0.72381210
<i>a</i>	2.9116503	Ω	123.63952	−0.66160552	+0.65255930
<i>e</i>	0.0761347	<i>i</i>	3.13523	−0.29707815	+0.22419279
<i>P</i>	4.97	<i>H</i>	14.1	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1992 07 26	809	0.2−	1.1−	1998 11 24	704	1.4−	1.7−	2000 02 14	691	0.4−	0.6−
1992 07 26	809	0.2+	0.9−	1998 11 24	704	(6.1−	0.5+)	2000 02 29	704	0.7−	0.8−
1992 07 26	809	0.3−	1.0−	1998 12 25	691	0.3−	0.6−	2000 02 29	704	0.6+	0.1+
1992 07 30	809	1.4+	1.1−	1998 12 25	691	0.0	0.2−	2000 02 29	704	0.2−	0.2−
1992 07 30	809	(0.5+	2.0−)	1998 12 25	691	0.1−	0.5−	2000 02 29	704	0.7+	0.2+
1992 07 30	809	(1.1+	2.3−)	1998 12 28	691	0.5+	0.0	2000 02 29	704	0.4−	0.2+
1997 07 13	910	0.0	0.3+	1998 12 28	691	0.1−	0.0	2000 03 03	704	0.1−	0.7−
1997 07 13	910	0.2+	0.6+	1998 12 28	691	0.2+	0.2−	2000 03 03	704	0.8−	0.8−
1997 07 13	910	0.0	0.7+	2000 02 10	691	0.1−	0.4−	2000 03 03	704	0.2+	0.9−
1997 07 14	910	0.5−	0.5+	2000 02 10	691	0.3−	0.4−	2000 03 03	704	0.8−	0.1−
1997 07 14	910	0.3−	0.4+	2000 02 10	691	0.0	0.1−	2000 03 03	704	0.4−	0.4+
1997 07 14	910	0.3−	0.4+	2000 02 11	704	0.5+	1.2+	2000 03 04	704	0.3+	0.7+
1998 11 23	699	1.2+	1.3+	2000 02 11	704	0.0	1.3+	2000 03 04	704	0.0	0.2+
1998 11 23	699	0.5−	1.0+	2000 02 11	704	0.0	0.0	2000 03 04	704	1.4+	0.6+
1998 11 23	699	0.3+	1.0+	2000 02 11	704	0.9+	0.5+	2000 03 04	704	0.7+	0.3−
1998 11 24	704	1.0+	0.7+	2000 02 14	691	0.5−	0.6−				
1998 11 24	704	0.7−	1.1−	2000 02 14	691	0.8−	0.8−				

2000 CH₁₀₀ = 1998 UM₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	289.73648		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23979059	ω	253.26073	−0.82799520	+0.55689546
<i>a</i>	2.5659486	Ω	320.51344	−0.46719817	−0.74975586
<i>e</i>	0.0205524	<i>i</i>	5.91297	−0.31008034	−0.35739838
<i>P</i>	4.11	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 10 28	704	0.0	0.9−	2000 02 03	704	0.1+	0.4+	2000 02 14	691	0.2−	0.8−
1998 10 28	704	(3.1+	0.4−)	2000 02 03	704	0.4−	0.1+	2000 02 14	691	0.2−	0.6−
1998 10 28	704	1.7−	0.2+	2000 02 03	704	0.4−	0.2+	2000 02 29	704	0.1+	0.4+
1998 10 28	704	0.3+	0.9+	2000 02 03	704	0.1+	0.3+	2000 02 29	704	1.5+	0.0
1998 10 29	704	0.6−	0.8−	2000 02 03	704	0.3+	0.4+	2000 02 29	704	0.2+	0.8+
1998 10 29	704	0.6+	1.0+	2000 02 10	691	0.3−	0.3−	2000 02 29	704	0.2+	0.6+
1998 10 29	704	0.3+	0.7−	2000 02 10	691	0.3−	0.4−	2000 03 05	704	0.3+	0.6+
1998 10 29	704	1.2+	0.2+	2000 02 10	691	0.4−	0.5−	2000 03 05	704	0.1−	0.5−
2000 01 04	704	0.2−	0.4−	2000 02 11	704	0.7−	0.6+	2000 03 05	704	0.3−	0.8−
2000 01 04	704	0.3−	0.5−	2000 02 11	704	0.1+	0.3−	2000 03 05	704	0.5−	0.4+
2000 01 04	704	0.1+	0.5+	2000 02 11	704	0.8+	0.0	2000 03 05	704	0.6−	0.2−
2000 01 04	704	0.9+	0.5+	2000 02 11	704	0.4+	0.0				
2000 01 04	704	0.1+	0.3+	2000 02 14	691	0.4−	0.7−				

2000 CY₁₀₁ = 1999 BT₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	345.33414		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17866713	ω	23.91960	−0.86303470	+0.50496557
<i>a</i>	3.1220483	Ω	186.45844	−0.48060584	−0.82901674
<i>e</i>	0.1028364	<i>i</i>	6.86717	−0.15552860	−0.24029361
<i>P</i>	5.52	<i>H</i>	12.8	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1997 10 29	704	0.3+	1.1+	1997 11 03	704	(2.3−	0.4−)	2000 02 10	704	0.9+	1.4+
1997 10 29	704	0.5+	0.4+	1997 11 06	704	1.9−	0.1+	2000 02 12	621	0.3−	0.1+
1997 10 29	704	1.6+	0.2+	1997 11 06	704	(2.3−	0.1+)	2000 02 12	621	0.0	0.4+
1997 10 29	704	1.8+	1.0+	1997 11 06	704	1.9−	0.7+	2000 02 12	621	0.4−	0.0
1997 10 29	704	1.1+	0.2−	1997 11 06	704	(2.4−	0.4+)	2000 02 12	621	0.1−	0.3+
1997 10 30	704	(3.0+	0.3−)	1997 11 06	704	(3.1−	0.1−)	2000 02 12	621	0.0	0.1−
1997 10 30	704	1.7+	1.0−	1999 01 18	704	(0.7−	2.7−)	2000 02 12	621	0.1−	0.1+
1997 10 30	704	(2.4+	1.3−)	1999 01 18	704	1.7+	1.1−	2000 02 12	621	0.2−	0.3+
1997 10 30	704	(2.9+	0.5+)	1999 01 18	704	0.1−	0.2−	2000 02 12	621	0.2−	0.1+
1997 10 31	704	0.3−	0.1+	1999 01 20	704	0.0	0.1−	2000 02 26	621	0.9+	0.1−
1997 10 31	704	0.9−	0.8+	1999 01 20	704	0.7−	0.7−	2000 02 26	621	0.6+	0.0
1997 10 31	704	0.5−	0.9+	1999 01 20	704	0.5−	0.3−	2000 02 26	621	0.8+	0.4−
1997 10 31	704	1.0+	0.9+	1999 01 20	704	0.5−	0.4+	2000 02 27	621	0.2−	0.2+
1997 10 31	704	0.5−	1.2+	2000 02 02	704	0.8−	0.5+	2000 02 27	621	0.4−	0.2+
1997 11 03	704	0.5−	0.5−	2000 02 02	704	0.1+	0.3+	2000 03 14	703	0.6+	0.5+

M.P.C. 39434

1997 11 03	704	1.0–	0.2+	2000 02 02	704	0.2–	0.1+	2000 03 14	703	0.4+	0.6–
1997 11 03	704	0.8–	0.9–	2000 02 10	704	0.4+	0.4+	2000 03 14	703	0.5–	0.2+
1997 11 03	704	0.5–	1.3–	2000 02 10	704	0.4–	0.1+	2000 03 14	703	0.3–	0.1+

2000 CQ₁₀₂ = 1995 BP₅ = 1998 WC₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		322.72949		(2000.0)		P		Q	
<i>n</i>		0.21059062	ω	252.54191		−0.93773503		+0.34612140	
<i>a</i>		2.7979720	Ω	307.69848		−0.30304067		−0.85630736	
<i>e</i>		0.1235758	<i>i</i>	2.11537		−0.16976270		−0.38332451	
<i>P</i>		4.68	<i>H</i>	13.9		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 07 26	809	0.6+	1.0–	2000 02 04	704	0.3–	0.3+	2000 03 04	704	0.0	0.3–
1992 07 26	809	0.8+	1.0–	2000 02 04	704	0.0	0.2–	2000 03 04	704	0.2+	0.0
1992 07 26	809	0.0	1.8–	2000 02 04	704	0.0	0.3+	2000 03 04	704	0.3+	0.1–
1995 01 27	691	0.0	0.7–	2000 02 04	704	0.3–	0.4–	2000 03 05	704	0.0	0.0
1995 01 27	691	0.3+	0.7–	2000 02 12	704	0.9+	0.3–	2000 03 05	704	0.0	0.0
1995 01 27	691	0.1+	0.8–	2000 02 12	704	0.4–	0.1+	2000 03 05	704	0.1–	0.2–
1995 01 29	691	0.5–	0.9–	2000 02 12	704	0.2–	0.5+	2000 03 05	704	0.1–	0.2–
1995 01 29	691	0.3–	1.1–	2000 02 12	704	0.0	0.8+	2000 03 05	704	0.3+	0.2–
1995 01 29	691	0.7–	0.7–	2000 02 12	704	0.8+	0.7+	2000 03 05	704	0.1–	0.2–
1998 11 18	704	0.1+	0.3–	2000 02 13	704	0.8–	0.4+	2000 03 05	704	0.1–	0.1+
1998 11 18	704	(1.1–	3.4–)	2000 02 13	704	0.2–	0.3+	2000 03 05	704	0.1–	0.2+
1998 11 18	704	(0.6+	2.9–)	2000 02 13	704	0.0	0.7+	2000 03 05	704	0.1+	0.1+
1998 11 18	704	(0.9–	2.2–)	2000 02 13	704	0.2–	1.4+	2000 03 05	704	0.4–	0.3+
1998 11 21	704	0.7–	0.7+	2000 02 13	704	0.4–	1.0+	2000 03 06	704	0.3–	0.1–
1998 11 21	704	0.4+	0.0	2000 02 25	703	0.4–	0.3–	2000 03 06	704	0.2–	0.3–
1998 11 21	704	0.5–	0.8–	2000 02 25	703	0.2–	0.1+	2000 03 06	704	0.3–	0.0
1998 11 24	704	1.0–	0.9+	2000 02 25	703	0.2–	0.3–	2000 03 06	704	0.4+	0.1–
1998 11 24	704	1.5+	0.5–	2000 02 25	703	0.2+	0.0	2000 03 08	704	0.0	0.5–
1998 11 24	704	0.3–	0.7+	2000 02 26	651	0.1–	0.1–	2000 03 08	704	0.0	0.0
1998 11 24	704	(2.3–	0.8+)	2000 02 26	651	0.1+	0.1–	2000 03 08	704	0.1+	0.2+
1998 11 25	699	1.0+	0.0	2000 02 26	651	0.1+	0.1–	2000 03 08	704	0.5+	0.2–
1998 11 25	699	1.3–	1.1+	2000 02 29	704	0.1+	0.3–	2000 03 08	704	0.3–	0.2–
1998 11 25	699	0.5+	0.6–	2000 02 29	704	0.4+	0.2–	2000 03 09	704	0.1–	0.1+
2000 02 02	703	(2.3–	0.8+)	2000 02 29	704	0.0	0.8–	2000 03 09	704	0.1+	0.1–
2000 02 02	703	0.5–	0.6+	2000 02 29	704	0.0	0.3–	2000 03 09	704	0.1–	0.5–
2000 02 02	703	1.9+	0.3–	2000 02 29	704	0.1–	0.6–	2000 03 09	704	0.2+	0.8–
2000 02 02	703	0.5+	0.9+	2000 03 03	704	0.0	0.3–	2000 03 09	704	0.8+	1.3–
2000 02 02	704	0.2–	0.6+	2000 03 03	704	0.2–	0.2–	2000 03 11	704	0.0	0.5+
2000 02 02	704	0.8–	0.1–	2000 03 03	704	0.3–	0.2–	2000 03 11	704	0.0	0.9+
2000 02 02	704	(0.6–	2.3+)	2000 03 03	704	0.4–	0.2–	2000 03 11	704	0.2–	0.3+
2000 02 02	704	0.2+	0.6–	2000 03 03	704	0.2–	0.3–	2000 03 11	704	0.2+	0.5+
2000 02 02	704	0.0	0.3–	2000 03 04	704	0.1–	0.4+	2000 03 11	704	0.1+	0.6+
2000 02 04	704	0.2+	0.0	2000 03 04	704	0.3+	0.3–				

2000 CR₁₀₂ = 1998 QZ₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		66.64916		(2000.0)		P		Q	
<i>n</i>		0.23808196	ω	229.60031		+0.44952241		−0.89316447	
<i>a</i>		2.5782106	Ω	193.70592		+0.83604190		+0.42606347	
<i>e</i>		0.2124049	<i>i</i>	3.30717		+0.31458472		+0.14396925	
<i>P</i>		4.14	<i>H</i>	14.7		<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.0	1.0–	2000 02 06	704	1.8+	1.4+	2000 03 03	704	0.4–	0.1–
1998 08 17	704	1.4–	0.4+	2000 02 06	704	0.6–	0.2–	2000 03 03	704	0.5–	0.2+
1998 08 17	704	1.5+	0.3–	2000 02 06	704	0.7+	0.4+	2000 03 11	704	0.3+	0.6–
1998 08 17	704	0.4–	1.1–	2000 02 06	704	0.6–	1.0+	2000 03 11	704	0.3–	0.7–
1998 08 23	704	1.5–	0.7+	2000 02 06	704	0.3–	0.4+	2000 03 11	704	0.3+	0.2+
1998 08 23	704	2.0+	1.2+	2000 02 29	704	0.8+	0.1+	2000 03 11	704	0.2–	0.0
1998 08 23	704	0.6–	0.5+	2000 02 29	704	0.1+	0.1+	2000 03 11	704	0.0	0.1+
1998 08 23	704	0.1+	0.7–	2000 02 29	704	0.0	0.4+	2000 03 11	699	1.3+	0.4+
1998 08 23	704	0.3+	0.2+	2000 02 29	704	0.6+	0.3–	2000 03 11	699	0.5–	0.0
2000 02 02	704	0.8+	1.2–	2000 02 29	704	0.0	0.6–	2000 03 11	699	0.2–	0.1–

2000 MAR. 20

2000 02 02	704	0.1–	0.0	2000 03 03	704	0.5+	0.1+	2000 03 11	699	0.7–	0.0
2000 02 02	704	0.8–	1.3–	2000 03 03	704	1.2–	0.5+				
2000 02 02	704	0.6–	0.7–	2000 03 03	704	0.2–	0.4+				

2000 CW₁₀₂ = 1996 AN₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		8.66839		(2000.0)		P		Q	
<i>n</i>		0.26794731	ω	1.53759		−0.96880854		−0.24753599	
<i>a</i>		2.3828852	Ω	164.11597		+0.22690451		−0.90500961	
<i>e</i>		0.1411747	<i>i</i>	2.44164		+0.09962108		−0.34595308	
<i>P</i>		3.68	<i>H</i>	15.0		<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 01 13	691	0.2+	0.0	2000 02 08	704	0.0	0.4+	2000 03 08	691	0.6–	0.3–
1996 01 13	691	0.1–	0.0	2000 02 08	704	0.1+	0.8–	2000 03 09	691	0.0	0.1–
1996 01 13	691	0.1–	0.2–	2000 02 08	704	0.4+	0.3–	2000 03 09	691	0.1–	0.2–
1996 01 19	691	0.1–	0.3–	2000 02 08	704	0.2+	0.1–	2000 03 09	691	0.0	0.3–
1996 01 19	691	0.2–	0.2–	2000 03 01	703	0.2+	0.2+	2000 03 10	704	0.3+	0.1+
1998 09 18	910	0.2–	0.6+	2000 03 01	703	0.8+	0.3+	2000 03 10	704	0.1+	0.1+
1998 09 18	910	0.0	0.5+	2000 03 01	703	0.3+	0.2+	2000 03 10	704	0.1+	0.4+
1998 09 18	910	0.3–	0.6+	2000 03 01	703	0.5–	0.2–	2000 03 10	704	0.0	0.9+
1998 09 20	809	(0.8+	3.0–)	2000 03 08	704	(0.8–	2.6+)	2000 03 10	704	0.1+	0.4+
1998 09 20	809	(0.7–	2.4–)	2000 03 08	704	0.1+	0.1–	2000 03 11	704	0.0	0.4–
1998 09 20	809	(1.2–	2.7–)	2000 03 08	691	0.5–	0.1–	2000 03 11	704	0.2+	0.1–
2000 02 02	704	0.1–	0.3+	2000 03 08	704	0.3+	0.1–	2000 03 11	704	0.2+	0.1+
2000 02 02	704	0.2–	0.3+	2000 03 08	704	0.4–	0.1–	2000 03 11	704	0.2+	0.4+
2000 02 02	704	0.1–	0.7+	2000 03 08	691	0.6–	0.1–				
2000 02 08	704	(0.2+	2.3+)	2000 03 08	704	0.3+	0.2+				

2000 CX₁₀₂ = 1993 FL₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		320.96364		(2000.0)		P		Q	
<i>n</i>		0.27374874	ω	251.69141		−0.93988148		+0.34090840	
<i>a</i>		2.3490989	Ω	308.23589		−0.30285963		−0.85929152	
<i>e</i>		0.1512158	<i>i</i>	1.46682		−0.15779370		−0.38131293	
<i>P</i>		3.60	<i>H</i>	16.1		<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 19	809	0.8+	0.2+	2000 02 06	704	0.1+	0.1+	2000 02 29	704	0.3–	0.4–
1993 03 20	809	0.9+	0.7–	2000 02 26	691	0.5–	0.5–	2000 03 03	704	0.2–	0.6+
1993 03 24	809	0.0	0.0	2000 02 26	691	0.2+	0.8–	2000 03 03	704	0.0	0.8+
2000 02 04	704	0.2+	1.0–	2000 02 26	691	0.5–	0.4–	2000 03 03	704	0.5–	0.4+
2000 02 04	704	0.3+	0.2+	2000 02 27	703	0.6–	0.1–	2000 03 03	704	0.4+	0.6–
2000 02 04	704	(2.4–	1.4+)	2000 02 27	703	(2.6+	0.4+)	2000 03 03	704	0.6–	0.0
2000 02 05	695	0.3–	0.3+	2000 02 27	703	0.9+	0.9+	2000 03 09	704	0.4+	1.0+
2000 02 05	695	0.1–	0.5+	2000 02 27	703	1.3+	1.1–	2000 03 09	704	0.4–	0.2+
2000 02 06	704	0.0	0.8–	2000 02 29	704	0.4–	0.1–	2000 03 09	704	0.1–	0.8–
2000 02 06	704	0.0	1.5+	2000 02 29	704	0.0	0.1–	2000 03 09	704	0.2+	0.1+
2000 02 06	704	0.6+	0.4+	2000 02 29	704	0.3+	0.0				
2000 02 06	704	0.7–	0.2+	2000 02 29	704	0.0	0.5–				

2000 MAR. 20

M.P.C. 39435

1993 10 11	809	(5.3− 0.6+)	2000 02 06	704	0.3+ 0.0	2000 03 05	704	0.0 0.5+
1993 10 17	033	0.2+ 1.3+	2000 02 06	704	0.5− 0.0	2000 03 05	704	0.5− 0.6−
1993 10 18	033	0.1− 0.5+	2000 02 11	704	1.1+ 0.1+	2000 03 05	704	0.5+ 0.0
1993 10 21	809	1.2+ 0.8−	2000 02 11	704	0.5+ 0.6+	2000 03 11	699	0.0 0.1−
1993 10 21	809	1.3− 0.9−	2000 02 11	704	0.9− 0.8+	2000 03 11	699	0.5+ 0.4−
1993 10 21	809	(2.8− 1.5−)	2000 02 11	704	(1.2− 2.7+)	2000 03 11	699	0.6+ 1.1+
1996 05 10	691	0.3+ 0.1+	2000 02 25	703	0.3− 0.7−	2000 03 11	699	0.6+ 0.0
1996 05 10	691	0.1− 1.7+	2000 02 25	703	0.8− 0.8+	2000 03 12	704	0.1− 0.1+
1996 05 10	691	0.3+ 0.2−	2000 02 25	703	0.8− 0.5−	2000 03 12	704	0.3− 0.4+
1996 05 17	691	0.0 0.8−	2000 02 25	703	0.2+ 0.3+	2000 03 12	704	0.4− 0.5−
1996 05 17	691	0.3− 0.3−	2000 02 29	704	0.4+ 0.4−	2000 03 12	704	0.6− 0.0
1996 05 17	691	0.4− 0.3−	2000 02 29	704	0.3− 0.3−	2000 03 12	704	0.2− 0.3−

2000 CF₁₀₃ = 1998 ST₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	52.56428		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.23160710	ω	296.62271	-0.03189808	-0.99930036
a	2.6260408	Ω	155.18193	$+0.93276427$	-0.03678161
e	0.1824646	i	2.66647	$+0.35907287$	$+0.00677524$
P	4.26	H	15.1	G 0.15	U 4

Residuals in seconds of arc

1998 09 26	704	0.9− 1.1+	2000 02 11	704	0.1+ 0.9+	2000 03 03	704	0.4+ 0.1+
1998 09 26	704	0.2− 0.2−	2000 02 11	704	0.0 0.2+	2000 03 03	704	0.4+ 0.1−
1998 09 26	704	0.2− 0.2−	2000 02 11	704	1.3− 0.7+	2000 03 03	704	0.0 0.5+
1998 09 26	704	1.3+ 0.1+	2000 02 26	703	0.3− 1.0−	2000 03 03	704	0.4− 0.2+
1998 09 26	704	(3.7− 0.2+)	2000 02 26	703	0.5− 1.7+	2000 03 03	704	0.5− 0.1−
1998 09 27	704	0.3+ 0.7−	2000 02 26	703	0.6+ 0.1+	2000 03 11	704	0.2+ 0.1−
1998 09 27	704	0.4+ 0.3+	2000 02 26	703	0.1− 1.5−	2000 03 11	704	0.1+ 0.0
1998 09 27	704	0.6− 0.2+	2000 02 27	691	0.1− 0.8−	2000 03 11	704	0.5+ 0.1−
1998 09 27	704	0.9+ 0.2+	2000 02 27	691	0.0 0.4−	2000 03 11	704	0.6+ 0.5+
1998 09 27	704	1.1− 0.8−	2000 02 27	691	0.1+ 0.3−	2000 03 11	704	0.3+ 0.1+
2000 02 06	704	0.2− 0.2+	2000 02 29	704	0.0 0.8−	2000 03 11	699	0.5− 0.2−
2000 02 06	704	0.9+ 0.0	2000 02 29	704	0.0 0.2−	2000 03 11	699	0.1+ 0.3+
2000 02 06	704	0.1+ 0.3−	2000 02 29	704	0.2+ 0.1+	2000 03 11	699	0.2− 0.6+
2000 02 11	704	0.4+ 0.7−	2000 02 29	704	(0.3+ 2.6−)	2000 03 11	699	0.8− 0.2+

2000 CG₁₀₃ = 1996 FT₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	311.11633		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.23158115	ω	189.76203	−0.62648925	+0.77830735
a	2.6262370	Ω	41.46287	−0.71078581	−0.54847476
e	0.1461371	i	3.62115	−0.31983552	−0.30563557
P	4.26	H	14.5	G 0.15	U 4

Residuals in seconds of arc

1996 03 24	809	1.0+ 0.0	1998 12 17	704	0.5+ 1.0−	2000 03 02	703	0.3− 0.3+
1996 03 24	809	0.1+ 0.3−	1998 12 17	704	0.7+ 1.8−	2000 03 02	703	0.3+ 0.2+
1996 03 24	809	0.4+ 0.1+	2000 02 06	704	0.4+ 0.3−	2000 03 02	703	0.1+ 0.3+
1996 03 26	809	1.0− 1.0−	2000 02 06	704	(0.2+ 2.2+)	2000 03 02	703	0.6+ 0.9+
1996 03 26	809	1.3− 1.1−	2000 02 06	704	0.2− 0.6−	2000 03 12	704	0.1− 0.3+
1996 03 26	809	1.9− 0.1−	2000 02 06	704	(1.9− 2.2+)	2000 03 12	704	0.3+ 0.5+
1996 03 26	809	1.4+ 0.5−	2000 02 11	704	0.3− 0.0	2000 03 12	704	0.1+ 0.1+
1996 03 26	809	0.1+ 0.5−	2000 02 11	704	0.8+ 0.1−	2000 03 12	704	0.1− 0.6+
1996 03 26	809	0.3+ 0.3−	2000 02 11	704	0.8+ 0.3+	2000 03 12	704	1.0+ 0.7+
1996 05 15	566	0.4− 0.4−	2000 02 11	704	0.9− 0.4−	2000 03 14	608	0.1+ 0.7−
1996 05 15	566	0.6− 0.2−	2000 02 26	703	1.8− 1.1−	2000 03 14	608	0.3+ 0.0
1996 05 15	566	0.3− 0.7−	2000 02 26	703	0.2− 0.5+	2000 03 14	608	0.4+ 0.1+
1998 12 17	704	0.5− 1.3−	2000 02 26	703	0.1− 0.7+			
1998 12 17	704	0.1+ 0.3+	2000 02 26	703	0.6+ 1.2+			

2000 CS₁₀₃ = 1998 XR₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	331.24420		(2000.0)	P	Q
n	0.19078072	ω	295.91772	−0.98168607	+0.12155394
a	2.9884528	Ω	251.35238	−0.06389778	−0.93547627
e	0.0376388	i	8.90603	−0.17947016	−0.33182645
P	5.17	H	13.0	G 0.15	U 3

Residuals in seconds of arc

1998 11 24	704	0.8− 0.1+	1999 12 14	704	0.2+ 0.6−	2000 03 12	704	0.2− 0.2−
1998 11 24	704	0.2+ 0.2−	2000 02 07	703	0.6− 0.6−	2000 03 12	704	0.3− 0.1−
1998 11 24	704	0.0 0.4−	2000 02 07	703	0.3− 0.8−	2000 03 12	704	0.3+ 0.5−
1998 11 24	704	1.5− 0.4−	2000 02 07	703	1.1+ 0.4−	2000 03 12	704	0.3+ 0.3+
1998 11 24	704	(3.9− 1.7+)	2000 02 07	703	0.3+ 0.4+	2000 03 12	704	0.1+ 0.6+
1998 12 14	704	0.8+ 0.6−	2000 02 08	704	0.2− 0.1+	2000 03 13	704	0.1− 0.1+
1998 12 14	704	1.3+ 0.8+	2000 02 08	704	0.3+ 0.2−	2000 03 13	704	0.3− 0.7+
1998 12 14	704	0.1+ 0.5+	2000 02 08	704	0.0 0.5−	2000 03 13	704	0.0 0.3+
1998 12 14	704	1.1+ 0.2−	2000 02 08	704	0.4− 0.7−	2000 03 13	704	0.2− 0.8+
1998 12 14	704	1.5− 1.5+	2000 02 08	704	0.1− 1.1−	2000 03 13	704	0.0 0.7+
1998 12 17	704	0.4+ 0.2+	2000 02 13	704	0.8+ 0.8+	2000 03 13	704	0.2− 0.4−
1998 12 17	704	0.4+ 0.5−	2000 02 13	704	0.8+ 0.2−	2000 03 13	704	0.2− 0.0
1998 12 17	704	0.0 0.6−	2000 02 13	704	0.2+ 0.1+	2000 03 13	704	0.4+ 0.0
1998 12 17	704	0.2− 0.8+	2000 03 08	704	0.5+ 0.2+	2000 03 14	703	0.5− 0.0
1998 12 17	704	0.5− 0.1−	2000 03 08	704	0.2+ 0.6+	2000 03 14	703	0.1− 0.1−
1999 12 14	704	0.6+ 0.1+	2000 03 08	704	0.4− 0.3+	2000 03 14	703	0.2+ 0.0
1999 12 14	704	0.9− 0.7−	2000 03 08	704	0.0 0.2+	2000 03 14	703	0.7− 0.0
1999 12 14	704	0.9− 0.0	2000 03 08	704	0.2+ 0.5+			

2000 CB₁₀₄ = 1998 SL₁₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	317.94780		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.29984627	ω	189.43438	-0.94624198	$+0.32333062$		
a	2.2107363	Ω	9.44528	-0.29302138	-0.84489868		
e	0.0848414	i	3.19051	-0.13698386	-0.42614965		
P	3.29	H	15.6	G	0.15	U	3

Residuals in seconds of arc

1997 02 10	910	0.2+ 0.0	2000 02 03	704	1.4+ 0.1+	2000 02 28	704	0.0 0.2−
1997 02 10	910	0.1+ 0.4+	2000 02 03	704	(2.1+ 0.6−)	2000 02 28	704	0.2− 0.5−
1997 02 10	910	0.1+ 0.3+	2000 02 06	703	0.3+ 0.7−	2000 02 28	704	0.3+ 0.4−
1997 04 01	809	0.3+ 0.2+	2000 02 06	703	0.4− 0.6−	2000 02 28	704	0.1+ 0.4−
1997 04 01	809	0.2− 0.3−	2000 02 06	703	0.7− 0.2−	2000 03 05	704	0.0 0.6+
1997 04 01	809	0.2− 0.0	2000 02 06	703	1.3− 0.9+	2000 03 05	704	0.5− 0.6+
1998 09 26	704	(2.5− 1.3+)	2000 02 11	704	0.0 0.4−	2000 03 05	704	0.2+ 0.0
1998 09 26	704	1.7− 1.2+	2000 02 11	704	0.5+ 0.0	2000 03 05	704	0.4+ 0.1+
1998 09 27	704	0.4+ 1.0−	2000 02 11	704	0.1+ 0.1+	2000 03 05	704	0.0 0.3+
1998 09 27	704	0.4+ 0.0	2000 02 11	704	0.2− 0.5+	2000 03 09	704	0.2+ 0.3+
1998 09 27	704	0.2+ 0.8+	2000 02 11	704	1.1+ 0.9+	2000 03 09	704	0.1− 0.3−
1998 09 27	704	0.8+ 0.3+	2000 02 13	704	0.2− 0.1+	2000 03 09	704	0.0 0.0
1998 09 27	704	0.4− 0.6−	2000 02 13	704	0.4+ 0.1+	2000 03 09	704	0.3+ 0.4−
2000 01 29	703	0.2− 0.2−	2000 02 13	704	0.1+ 0.5−	2000 03 09	704	0.0 0.1+
2000 01 29	703	0.8− 0.2−	2000 02 13	704	0.7− 0.7+	2000 03 12	704	0.3− 0.7+
2000 01 29	703	0.1+ 0.2+	2000 02 25	703	0.7− 0.1−	2000 03 12	704	0.3− 0.7+
2000 01 29	703	0.7− 0.3−	2000 02 25	703	0.0 0.6−	2000 03 12	704	0.2− 0.5+
2000 02 03	704	1.5+ 0.3−	2000 02 25	703	0.5− 0.1+	2000 03 12	704	0.9+ 0.9−
2000 02 03	704	(2.1+ 0.1+)	2000 02 25	703	0.0 0.4−			
2000 02 03	704	0.3+ 0.1−	2000 02 28	704	0.1− 0.0			

2000 DO = 1993 RC₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21154668	ω	136.77567	−0.61050236	−0.79171992		
<i>a</i>	2.7895356	Ω	350.77777	+0.68499740	−0.51412662		
<i>e</i>	0.1696532	<i>i</i>	7.74473	+0.39757443	−0.32992936		
<i>P</i>	4.66	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 09 15	691	0.7−	0.2+	2000 02 27	120	0.1+	0.5−	2000 03 08	704	0.2+	0.3−
1993 09 15	691	0.3+	0.1+	2000 02 27	120	0.1−	0.9−	2000 03 08	704	0.9+	0.9+
1993 09 15	691	0.1−	0.1+	2000 02 28	120	0.8+	0.5−	2000 03 08	704	1.3+	1.4+
1993 09 20	691	0.4+	0.3−	2000 02 28	120	0.7+	0.2−	2000 03 08	704	1.2+	0.7+
1993 09 20	691	0.2+	0.0	2000 03 02	120	0.6−	0.4−	2000 03 09	704	0.0	0.0
2000 02 11	704	0.5+	0.0	2000 03 02	120	0.4−	1.4+	2000 03 09	704	0.0	0.2−
2000 02 11	704	0.2+	0.3+	2000 03 05	704	0.7+	0.1−	2000 03 09	704	0.0	0.3−
2000 02 11	704	0.5−	0.2−	2000 03 05	704	0.3−	1.0−	2000 03 09	704	0.7+	0.5−
2000 02 11	704	0.1+	0.2+	2000 03 05	704	0.2+	0.2+	2000 03 09	704	0.5−	0.1+
2000 02 23	120	1.1+	0.4+	2000 03 05	704	0.6−	0.2−	2000 03 11	704	0.1+	0.4−
2000 02 23	120	0.6+	0.7−	2000 03 05	704	1.0−	0.3+	2000 03 11	704	0.1−	0.0
2000 02 23	120	0.2+	1.0+	2000 03 05	106	0.6−	0.4−	2000 03 11	704	0.2+	0.2+
2000 02 24	120	0.1−	0.0	2000 03 05	106	0.5+	0.8−	2000 03 11	699	0.3−	0.1+
2000 02 24	120	1.2−	0.4−	2000 03 05	106	0.9−	0.5−	2000 03 11	704	0.0	0.4−
2000 02 25	703	0.3−	0.1+	2000 03 07	106	1.0+	1.7+	2000 03 11	704	0.6−	0.3−
2000 02 25	703	0.5−	0.4−	2000 03 07	106	(3.4− 0.0)		2000 03 11	699	0.5−	0.4−
2000 02 25	703	0.4−	0.0	2000 03 08	106	(2.3− 0.2+)		2000 03 11	699	1.0−	0.2−
2000 02 25	703	0.9−	0.7+	2000 03 08	704	0.4+	0.4+	2000 03 11	699	0.2−	0.1+

2000 DW = 1976 DW = 1998 SH₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28973076	ω	23.63162	+0.72590778	−0.68553471		
<i>a</i>	2.2618978	Ω	19.97627	+0.60219680	+0.59437303		
<i>e</i>	0.1330809	<i>i</i>	9.37977	+0.33229040	+0.42043175		
<i>P</i>	3.40	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1976 02 28	033	0.4+	0.0	1999 01 05	910	0.8−	0.1−	2000 02 29	704	1.3−	0.2−
1976 02 29	033	0.4−	0.2+	1999 01 05	910	0.7−	0.1−	2000 03 05	704	0.0	0.5+
1998 08 28	699	0.8−	0.2+	1999 01 05	910	0.6−	0.3−	2000 03 05	704	0.1+	0.4+
1998 08 28	699	0.7−	0.4−	2000 01 07	704	0.3+	1.0−	2000 03 05	704	0.1+	0.2+
1998 08 28	699	0.2−	0.9+	2000 01 07	704	0.3+	0.4−	2000 03 05	704	0.2+	0.0
1998 09 17	699	0.3−	0.2+	2000 01 07	704	0.5+	0.3−	2000 03 08	411	0.2−	0.6−
1998 09 17	699	0.2−	0.0	2000 02 04	704	0.5+	0.2+	2000 03 08	411	0.4+	0.1−
1998 09 17	699	0.1+	0.0	2000 02 04	704	0.1+	0.8+	2000 03 09	704	0.4+	0.4+
1998 09 22	699	0.4−	0.8+	2000 02 04	704	0.2−	0.5+	2000 03 09	704	0.5+	0.1+
1998 09 22	699	0.0	0.5+	2000 02 04	704	0.2−	1.1+	2000 03 09	704	0.4+	0.0
1998 09 22	699	0.2−	0.4+	2000 02 04	704	0.7−	0.8+	2000 03 09	704	0.4+	0.1−
1998 12 08	704	(2.0+ 1.3+)		2000 02 24	411	0.2−	0.9−	2000 03 09	704	0.2+	0.3+
1998 12 08	704	1.2+	0.8+	2000 02 24	411	1.0−	1.8−	2000 03 12	704	0.5+	0.5+
1998 12 08	704	0.6+	0.8+	2000 02 25	411	0.8−	2.0−	2000 03 12	704	0.6+	0.6+
1998 12 08	704	(6.1− 0.6+)		2000 02 25	411	1.0−	0.4−	2000 03 12	704	0.9+	0.4+
1998 12 09	699	1.0+	0.0	2000 02 29	704	0.5+	1.9+	2000 03 12	704	0.8+	0.4+
1998 12 09	699	0.6+	0.6+	2000 02 29	704	0.3−	1.2+	2000 03 12	704	0.6+	0.4+
1998 12 09	699	0.3−	0.2−	2000 02 29	704	0.1−	0.5+				

2000 DG₁ = 1996 HU₁₇ = 1998 XD₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22349141	ω	309.90838	+0.70952675	−0.70268848		
<i>a</i>	2.6892354	Ω	94.80742	+0.66165324	+0.63848418		
<i>e</i>	0.0818371	<i>i</i>	3.04432	+0.24245987	+0.31395357		
<i>P</i>	4.41	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 04 18	809	(1.3+ 4.3+)		1998 12 16	704	0.1−	0.5−	2000 03 01	703	1.0−	0.5+
1996 04 18	809	(1.3+ 5.1+)		1998 12 16	704	0.5−	0.3−	2000 03 01	703	0.3+	0.3−
1996 04 18	809	(0.6− 4.7+)		1998 12 16	704	0.1−	1.5+	2000 03 01	703	0.0	0.4+
1996 04 20	809	(3.3− 2.6+)		1998 12 16	704	1.7+	0.5+	2000 03 08	704	0.1−	0.0
1996 04 20	809	(3.5− 1.6+)		1998 12 22	704	0.3+	0.8−	2000 03 08	704	0.6+	0.4+
1996 04 20	809	(3.4− 0.9+)		1998 12 22	704	0.7+	0.6+	2000 03 08	704	0.3+	0.3−
1996 05 23	809	0.4+	0.6−	1998 12 22	704	1.4+	0.2−	2000 03 08	704	0.1−	0.1+
1996 05 23	809	0.4−	1.4−	1998 12 22	704	0.2−	1.1−	2000 03 11	699	0.3+	0.6+
1996 05 23	809	0.8−	0.3−	1998 12 22	704	0.6+	1.1+	2000 03 11	699	0.0	0.9+
1998 12 15	704	0.4−	0.2−	2000 02 26	652	0.1−	1.3−	2000 03 11	699	0.3+	1.1+
1998 12 15	704	0.5−	0.4−	2000 02 26	652	0.0	0.4−	2000 03 11	699	0.7+	1.5+
1998 12 15	704	0.6−	0.4−	2000 02 27	652	1.0−	1.5−	2000 03 12	704	0.6+	0.4−
1998 12 15	704	0.9−	0.6−	2000 02 27	652	1.5−	0.5−	2000 03 12	704	0.7+	0.2−
1998 12 15	704	1.2−	0.7−	2000 03 01	703	0.3+	0.8+	2000 03 12	704	0.3+	0.3−

2000 DL₁ = 1980 HA = 1990 RG₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.34397185	ω	118.98433	−0.53775188	−0.84193939		
<i>a</i>	2.0173788	Ω	4.38932	+0.41730227	−0.31143688		
<i>e</i>	0.2729327	<i>i</i>	35.35288	+0.73258565	−0.44061903		
<i>P</i>	2.87	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1980 04 17	381	(1.1− 3.2−)	2000 02 26	151	0.4−	0.9−	2000 02 28	713	0.4+	0.4+	
1980 04 17	381	2.0−	0.2+	2000 02 26	958	0.7−	1.5−	2000 02 28	713	0.2+	0.2+
1980 04 17	381	0.9+	0.8−	2000 02 26	958	2.0−	1.8−	2000 02 28	713	0.5+	0.8+
1980 04 17	381	0.1+	0.4−	2000 02 26	163	0.4+	0.0	2000 02 28	750	0.3−	0.2+
1980 04 18	381	1.6+	0.0	2000 02 26	163	0.5+	0.0	2000 02 28	750	1.3−	2.0+
1980 04 18	381	0.2−	1.3+	2000 02 26	163	0.1+	0.3−	2000 02 28	713	0.5+	0.7+
1990 09 15	809	1.2−	1.0+	2000 02 26	958	0.9−	1.3−	2000 02 28	750	0.2−	0.5+
1990 09 15	809	0.0	0.6+	2000 02 26	958	(0.6+ 2.2+)	2000 02 28	750	0.9−	1.3+	
1990 09 15	809	1.6−	0.0	2000 02 26	163	0.2+	0.4−	2000 02 28	750	1.0−	0.9+
2000 02 25	704	0.0	0.3+	2000 02 26	163	0.2+	0.1+	2000 02 28	750	0.1+	0.2+
2000 02 25	704	0.0	0.9+	2000 02 26	163	0.1+	0.2−	2000 02 28	704	1.1−	0.2+
2000 02 25	704	0.1−	0.7+	2000 02 26	958	0.0	0.0	2000 02 28	704	0.4−	0.4+
2000 02 25	704	0.1−	0.8+	2000 02 26	171	0.4−	1.1−	2000 02 28	850	0.5−	0.5−
2000 02 25	704	(1.2− 2.1+)		2000 02 26	171	0.2−	0.9−	2000 02 28	704	0.5−	0.5+
2000 02 26	557	1.1−	0.7−	2000 02 26	171	1.3−	0.3−	2000 02 28	850	0.3−	0.4−
2000 02 26	557	0.8−	0.4−	2000 02 27	611	0.1+	0.2+	2000 02 28	850	0.4−	0.4−
2000 02 26	557	0.1+	0.2+	2000 02 27	611	0.1+	0.3+	2000 02 28	850	0.4−	0.4−
2000 02 26	611	0.3−	0.2+	2000 02 27	611	0.0	0.4+	2000 02 28	344	0.3−	0.4−
2000 02 26	611	0.1−	0.4+	2000 02 27	713	0.8+	0.5+	2000 02 28	344	0.3−	0.5−
2000 02 26	611	0.4−	0.2+	2000 02 27	713	1.6+	0.3+	2000 02 28	344	0.3−	0.4−
2000 02 26	611	0.5−	0.2+	2000 02 27	713	1.1+	0.3+	2000 02 28	104	0.3−	0.4−
2000 02 26	611	0.3−	0.5+	2000 02 27	713	1.4+	0.0	2000 02 28	104	0.2−	0.5−
2000 02 26	739	0.5+	0.5+	2000 02 27	858	0.1−	0.1−	2000 02 28	104	0.2−	0.6−
2000 02 26	739	0.3+	0.7−	2000 02 27	858	0.3−	0.0	2000 02 28	104	0.2−	0.6−
2000 02 26	739	0.6+	0.1+	2000 02 27	858	0.2−	0.0	2000 02 28	163	0.0	0.1+
2000 02 26	557	0.0	0.0	2000 02 27	151	0.2−	0.5−	2000 02 28	163	0.0	0.1+
2000 02 26	946	1.3+	1.1+	2000 02 27	151	0.5−	0.4−	2000 02 28	163	0.0	0.2+
2000 02 26	557	0.1−	0.1+	2000 02 27	151	0.6−	0.5−	2000 02 28	163	0.0	0.1+
2000 02 26	946	1.6+	1.7+	2000 02 27	151	0.5−	0.1−	2000 02 28	636	0.3−	0.4+
2000 02 26	557	0.1−	0.0	2000 02 27	151	0.1−	0.3−	2000 02 28	163	0.6−	0.3+
2000 02 26	946	(2.5+ 2.0+)		2000 02 27	151	0.5−	0.3−	2000 02 28	163	0.3+	0.5−
2000 02 26	557	0.1−	0.1+	2000 02 27	113	0.1−	0.2+	2000 02 28	163	0.1−	0.0
2000 02 26	557	0.1−	0.0	2000 02 27	639	0.9−	1.4+	2000 02 28	636	0.1−	0.4+
2000 02 26	704	0.0	0.3+	2000 02 27	113	0.1−	0.3+	2000 02 28	595	0.1−	0.0
2000 02 26	704	0.1−	0.3+	2000 02 27	113	0.0	0.2+	2000 02 28	636	0.3−	0.4+
2000 02 26	704	0.1−	0.5+	2000 02 27	113	0.0	0.0	2000 02 28	595	0.0	0.1−
2000 02 26	651	0.1+	0.6−	2000 02 27	639	0.6−	1.6+	2000 02 28	595	0.1−	0.2−
2000 02 26	651	0.1+	0.7−	2000 02 27	113	0.2−	0.3+	2000 02 29	704	0.1+	0.8+
2000 02 26	651	0.1+	0.6−	2000 02 27	113	0.1−	0.3+	2000 02 29	704	0.0	0.7+
2000 02 26	704	0.1−	0.3+	2000 02 27	113	0.1+	0.1+	2000 02 29	704	0.4+	0.4−
2000 02 26	704	0.2−	0.2+	2000 02 27	046	0.2+	0.5+	2000 02 29	704	0.3−	0.8+
2000 02 26	704	0.1−	0.2+	2000 02 27	046	0.1+	0.4+	2000 02 29	704	0.2−	0.6+

2000 MAR. 20

M.P.C. 39437

2000 02 26	704	0.0	0.3+	2000 02 27	046	0.2+	0.4+	2000 02 29	171	0.1-	0.2+
2000 02 26	704	0.0	0.3+	2000 02 27	046	0.1+	0.4+	2000 02 29	171	0.4-	0.3-
2000 02 26	704	0.1+	0.3+	2000 02 28	726	0.1-	0.6-	2000 02 29	171	0.1-	0.1-
2000 02 26	704	0.2+	0.1+	2000 02 28	726	0.1+	0.5-	2000 03 03	171	0.6+	0.1+
2000 02 26	557	0.1+	0.1-	2000 02 28	726	0.3-	0.3-	2000 03 03	171	0.6+	0.5+
2000 02 26	557	0.0	0.0	2000 02 28	726	0.1+	0.6-	2000 03 06	642	0.9+	0.4+
2000 02 26	046	0.5+	0.0	2000 02 28	726	0.1-	0.2-	2000 03 06	642	0.4+	0.8+
2000 02 26	046	0.4+	0.2-	2000 02 28	726	0.0	0.9-	2000 03 06	642	1.5+	1.5+
2000 02 26	557	0.0	0.2-	2000 02 28	726	0.0	0.4-	2000 03 06	642	1.1+	0.4+
2000 02 26	046	0.5+	0.4-	2000 02 28	726	0.1+	0.2-	2000 03 06	642	1.1+	0.4+
2000 02 26	046	0.5+	0.0	2000 02 28	726	0.1+	0.4-	2000 03 07	642	0.6+	0.3+
2000 02 26	046	0.4+	0.1-	2000 02 28	726	0.0	0.5-	2000 03 07	642	1.1+	1.1-
2000 02 26	636	0.4-	0.5-	2000 02 28	726	0.1+	0.5-	2000 03 15	704	1.2+	0.1+
2000 02 26	636	0.3-	0.7-	2000 02 28	726	0.2-	0.5-	2000 03 15	704	1.0+	0.0
2000 02 26	151	0.1-	0.5-	2000 02 28	642	0.0	0.7-	2000 03 15	704	1.0+	0.2-
2000 02 26	151	0.6-	0.8-	2000 02 28	642	0.9+	0.1+	2000 03 15	704	0.9+	0.3-
2000 02 26	151	0.7-	1.0-	2000 02 28	642	(2.5+	0.2+)	2000 03 15	704	1.2+	0.8-
2000 02 26	151	0.6-	0.7-	2000 02 28	713	0.5+	0.4+				
2000 02 26	151	0.3-	0.8-	2000 02 28	713	0.4+	0.4+				

2000 DZ₁ = 1998 UW₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	12.67663		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.18671453	<i>ω</i>	149.29649	-0.67497222	-0.73777516		
<i>a</i>	3.0316842	<i>Ω</i>	343.14864	+0.66974709	-0.60692632		
<i>e</i>	0.1369994	<i>i</i>	1.97997	+0.30959869	-0.29551353		
<i>P</i>	5.28	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 10 16	691	1.0+	0.6+	2000 02 26	691	0.4+	0.4-	2000 03 05	704	0.7+	1.2-
1998 10 16	691	1.1+	0.7-	2000 02 27	691	0.3-	0.5-	2000 03 05	704	1.3+	0.8-
1998 10 16	691	0.7+	0.8-	2000 02 27	691	0.5-	0.6-	2000 03 05	704	1.4+	0.2+
1998 10 24	691	1.2-	0.5+	2000 02 27	691	0.4-	0.5-	2000 03 05	704	0.8+	0.1+
1998 10 24	691	0.8-	0.2+	2000 02 29	704	0.3+	0.3-	2000 03 05	704	0.8+	0.3-
1998 10 24	691	0.7-	0.2+	2000 02 29	704	0.5-	0.2-	2000 03 11	704	0.5+	0.6+
2000 02 11	704	0.3-	0.5+	2000 02 29	704	0.4-	0.3+	2000 03 11	704	0.1+	0.1-
2000 02 11	704	0.5-	0.6-	2000 02 29	704	0.2+	0.4+	2000 03 11	704	0.4-	0.4+
2000 02 11	704	0.3-	1.1+	2000 03 03	704	0.6-	0.4+	2000 03 11	691	0.3-	0.2+
2000 02 11	704	0.5+	0.3+	2000 03 03	704	0.0	0.3-	2000 03 11	691	0.7-	0.2+
2000 02 26	691	0.6+	0.2+	2000 03 03	704	1.4-	0.5+	2000 03 11	691	0.6-	0.2+
2000 02 26	691	0.3+	0.4-	2000 03 03	704	0.8-	0.7+				

2000 DA₂ = 1994 AJ₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	341.16559		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.17477649	<i>ω</i>	70.69225	-0.98574791	-0.16779416		
<i>a</i>	3.1682106	<i>Ω</i>	99.64673	+0.14937774	-0.90607932		
<i>e</i>	0.0675620	<i>i</i>	0.70267	+0.07737790	-0.38841393		
<i>P</i>	5.64	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1994 01 07	691	0.1-	0.2-	2000 02 26	691	0.2+	0.5-	2000 02 29	704	0.1+	0.1+
1994 01 07	691	0.9+	0.3-	2000 02 26	691	0.1-	0.7-	2000 03 03	704	0.5+	0.1+
1994 01 07	691	0.2-	0.1-	2000 02 26	691	0.1+	0.5-	2000 03 03	704	0.1-	0.2-
1994 01 12	691	0.4-	0.9+	2000 02 27	691	0.6-	0.6-	2000 03 03	704	0.5-	0.6+
1994 01 12	691	0.1+	0.1-	2000 02 27	691	0.7-	0.5-	2000 03 03	704	0.0	1.2+
1994 01 12	691	0.3-	0.3-	2000 02 27	691	0.8-	0.5-	2000 03 03	691	0.2+	0.2-
2000 02 11	704	0.4-	0.7+	2000 02 29	704	0.8-	0.3+	2000 03 03	691	0.2+	0.7-
2000 02 11	704	0.7+	0.1-	2000 02 29	704	0.2+	0.4+	2000 03 03	691	0.1+	0.2-
2000 02 11	704	1.0+	1.6+	2000 02 29	704	0.8+	0.0				

2000 DG₂ = 1997 RD₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	1.63525		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.21469797	<i>ω</i>	2.35124	-0.99854089	-0.04960115		
<i>a</i>	2.7621723	<i>Ω</i>	174.66329	+0.04503962	-0.98309637		
<i>e</i>	0.0618942	<i>i</i>	13.27044	+0.02979133	-0.17624204		
<i>P</i>	4.59	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 09 06	910	0.2+	0.1-	2000 02 27	691	0.3-	0.1+	2000 03 10	704	0.8-	0.7+
1997 09 06	910	0.2+	0.1-	2000 02 27	691	0.4-	0.1+	2000 03 10	704	0.3-	0.7-
1997 09 06	910	0.2-	0.0	2000 03 02	691	0.0	0.0	2000 03 11	704	0.2-	0.1-
1997 09 06	910	0.2-	0.1-	2000 03 02	691	0.2-	0.0	2000 03 11	704	0.4+	0.8+
1997 09 06	910	0.0	0.0	2000 03 02	691	0.2-	0.1+	2000 03 11	704	0.3+	0.9+
1997 09 06	910	0.0	0.2+	2000 03 03	691	0.1+	0.4-	2000 03 11	704	1.0+	0.0
2000 02 26	691	0.4+	0.1+	2000 03 03	691	0.1-	0.7-	2000 03 11	704	0.5+	0.7+
2000 02 26	691	0.2+	0.4+	2000 03 03	691	0.2+	0.3-	2000 03 11	704	0.8-	0.6-
2000 02 26	691	0.4+	0.1+	2000 03 10	704	0.3-	0.4-	2000 03 11	704	0.5+	0.3-
2000 02 27	691	0.2-	0.0	2000 03 10	704	0.7+	0.8-	2000 03 11	704	0.8-	0.0

2000 DL₂ = 1993 FW₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	259.02159		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.27173258	<i>ω</i>	162.53992	+0.17345405	+0.98371640		
<i>a</i>	2.3607042	<i>Ω</i>	117.42698	-0.90978629	+0.17835301		
<i>e</i>	0.2001082	<i>i</i>	3.03996	-0.37709760	+0.02218650		
<i>P</i>	3.63	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 19	809	0.2-	0.3+	2000 02 25	703	0.3+	0.7+	2000 03 05	704	0.3-	0.8-
1993 03 20	809	1.2+	0.1+	2000 02 25	703	1.8-	0.8-	2000 03 05	704	0.4+	0.3-
1993 03 24	809	0.1+	0.2-	2000 02 25	703	0.6-	0.2+	2000 03 11	699	0.7+	0.1-
1993 03 25	691	0.4-	0.1-	2000 02 27	120	0.6+	0.3-	2000 03 11	699	0.2+	0.2+
1993 03 25	691	0.5-	0.0	2000 02 27	120	0.8+	0.5-	2000 03 11	699	0.7-	0.1+
1993 03 25	691	0.3-	0.1-	2000 02 28	120	(2.9+	0.1+)	2000 03 11	699	0.3-	0.4+
2000 02 23	120	0.2+	0.8-	2000 02 28	120	(5.3-	2.2+)	2000 03 12	704	0.1-	0.1+
2000 02 23	120	1.8+	0.1-	2000 03 02	120	(3.7+	2.1-)	2000 03 12	704	0.1-	1.4+
2000 02 23	120	0.8-	1.8+	2000 03 02	120	(2.2+	4.7+)	2000 03 12	704	1.0-	0.1-
2000 02 24	120	0.5-	0.4-	2000 03 05	704	0.6+	0.1+	2000 03 12	704	0.3+	0.0
2000 02 24	120	1.4-	0.4-	2000 03 05	704	0.8+	0.2+	2000 03 12	704	0.4+	0.4-
2000 02 25	703	0.5+	0.0	2000 03 05	704	0.1+	0.1-				

2000 DM₂ = 1996 GA₂₁ = 1998 YZ₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	315.07989		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.23017336	<i>ω</i>	56.40432	-0.77439418	+0.63252437		
<i>a</i>	2.6369345	<i>Ω</i>	162.81659	-0.59606824	-0.72137032		
<i>e</i>	0.1502378	<i>i</i>	2.92050	-0.21217046	-0.28202443		
<i>P</i>	4.28	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 03 24	566	0.2-	0.5+	2000 02 14	104	0.2+	0.7-	2000 03 03	608	0.2+	0.5-
1996 03 24	566	0.7-	0.5+	2000 02 14	104	0.3+	1.0-	2000 03 04	704	0.0	0.4+
1996 03 24	566	0.7-	0.7+	2000 02 14	104	0.9+	1.3-	2000 03 04	704	0.0	0.2+
1996 04 12	691	0.2+	0.1-	2000 02 26	703	0.2-	0.6-	2000 03 04	704	0.0	0.1-
1996 04 12	691	0.2+	0.3-	2000 02 26	703	0.1+	0.4+	2000 03 04	704	0.4+	0.3-
1996 04 12	691	0.3+	0.3-	2000 02 26	703	0.7-	0.1-	2000 03 04	704	0.8-	0.6-
1996 04 15	801	0.0	1.2-	2000 02 26	703	1.0-	1.5+	2000 03 05	704	0.7+	0.2+
1996 04 15	801	0.3+	0.8-	2000 02 26	557	0.1-	0.5-	2000 03 05	704	1.3+	0.0
1998 12 25	691	0.0	0.4-	2000 02 26	557	0.3-	0.4-	2000 03 05	704	0.7+	0.1-
1998 12 25	691	0.0	0.2-	2000 02 26	557	0.4+	0.1-	2000 03 05	704	1.0+	0.0
1998 12 25	691	0.2-	0.5-	2000 02 27	557	0.2-	0.2-	2000 03 05	704	1.2+	0.0
1998 12 28	691	0.2+	0.3+	2000 02 27	557	0.5-	0.1-	2000 03 11	699	0.2+	0.5+
1998 12 28	691	0.7+	0.1-	2000 02 29	704	0.1-	0.0	2000 03 11	704	0.0	0.2+
1998 12 28	691	0.4-	0.2-	2000 02 29	704	0.2-	0.2+	2000 03 11	699	0.2+	0.4+

M.P.C. 39438

2000 MAR. 20

2000 02 02	704	0.4+	0.4−	2000 02 29	704	0.0	0.7+	2000 03 11	704	0.1+	0.2+
2000 02 02	704	0.5+	0.4+	2000 02 29	704	0.1+	0.7+	2000 03 11	699	0.3+	0.4+
2000 02 02	704	0.3+	1.1+	2000 02 29	704	0.6−	0.1+	2000 03 11	704	0.1−	0.4+
2000 02 02	704	0.1−	0.2+	2000 03 03	704	0.9+	1.3−	2000 03 11	704	0.0	0.3+
2000 02 02	704	0.4−	0.7+	2000 03 03	704	0.5−	0.1+	2000 03 11	699	0.4−	0.6+
2000 02 11	704	0.9−	1.2−	2000 03 03	704	0.6+	0.8+	2000 03 11	704	0.1+	0.5+
2000 02 11	704	0.1−	0.4+	2000 03 03	704	0.1+	0.1+	2000 03 15	691	0.3−	0.4−
2000 02 11	704	1.1−	0.3+	2000 03 03	608	0.6−	0.4−	2000 03 15	691	0.4−	0.4−
2000 02 11	704	0.6−	0.7+	2000 03 03	608	0.4−	0.8−	2000 03 15	691	0.3−	0.3−

2000 DC₃ = 1986 WS₁₀ = 1995 KO₃ = 1998 XN₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	135.43408		(2000.0)	P	Q
<i>n</i>	0.17110908	ω	338.46820	+0.85516882	−0.49314001
<i>a</i>	3.2133202	Ω	52.08448	+0.50021710	+0.70434997
<i>e</i>	0.0619479	<i>i</i>	11.67792	+0.13590123	+0.51059186
<i>P</i>	5.76	<i>H</i>	12.2	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1986 11 30	381	0.2+	0.3+	1998 12 17	704	0.3−	0.6−	2000 03 08	704	0.4+	0.2−
1986 11 30	381	0.4+	0.2+	1999 01 16	704	0.3+	0.1−	2000 03 08	704	0.1+	0.2+
1986 12 01	381	0.4−	0.3−	1999 01 16	704	0.5−	0.4+	2000 03 08	704	0.1−	0.5−
1986 12 01	381	0.3−	0.2+	1999 01 16	704	0.1−	0.8+	2000 03 08	704	0.5+	0.0
1995 05 25	691	0.3−	0.5−	1999 01 16	704	1.6−	0.3−	2000 03 08	411	0.1−	1.7−
1995 05 25	691	0.4−	0.6−	2000 02 04	704	0.0	0.2−	2000 03 08	411	1.6−	0.4−
1995 05 25	691	0.4−	0.4−	2000 02 04	704	0.2+	0.0	2000 03 09	704	0.0	0.1+
1995 05 26	691	0.6−	0.7−	2000 02 04	704	1.5+	0.8+	2000 03 09	704	0.0	0.3−
1995 05 26	691	0.4−	0.8−	2000 02 04	704	0.4+	0.1−	2000 03 09	704	0.2+	0.2−
1995 05 26	691	0.6−	0.8−	2000 02 04	704	0.2+	0.0	2000 03 09	704	0.1+	0.4−
1998 12 14	704	0.4+	1.6+	2000 02 27	411	(2.8−	1.0−)	2000 03 10	704	1.1+	1.5+
1998 12 14	704	0.4+	0.5−	2000 02 27	411	(3.5−	0.1−)	2000 03 10	704	1.5+	0.7+
1998 12 14	704	0.4−	1.4−	2000 02 28	411	0.7+	0.6+	2000 03 10	704	0.9+	0.3+
1998 12 14	704	0.3+	1.2−	2000 02 28	411	1.4−	0.6+	2000 03 12	704	0.1−	0.1+
1998 12 14	704	0.1+	0.1−	2000 03 05	704	0.2+	0.2+	2000 03 12	704	0.0	0.4−
1998 12 17	704	0.3−	0.6−	2000 03 05	704	0.1−	1.2+	2000 03 12	704	0.6−	0.1+
1998 12 17	704	0.3+	1.5−	2000 03 05	704	0.6−	0.1−	2000 03 12	704	0.2−	0.1+
1998 12 17	704	0.9+	0.2+	2000 03 05	704	0.3−	0.3−	2000 03 12	704	0.3+	0.7+
1998 12 17	704	0.2+	1.0−	2000 03 05	704	0.7−	0.6+				

2000 DD₃ = 1991 PR₁₄ = 1998 XP₉₁

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	100.16454		(2000.0)	P	Q
<i>n</i>	0.18159634	ω	317.92529	+0.31774044	−0.93803505
<i>a</i>	3.0883842	Ω	113.12427	+0.90509698	+0.25658793
<i>e</i>	0.0188234	<i>i</i>	8.65009	+0.28256057	+0.23292247
<i>P</i>	5.43	<i>H</i>	12.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1991 08 06	675	0.7−	0.9−	1998 12 15	704	0.4−	1.9−	2000 01 08	704	0.5+	0.2+
1991 08 06	675	1.4+	1.0−	1998 12 15	704	0.1+	0.4−	2000 01 08	704	0.7+	0.2−
1991 08 10	675	0.2+	0.3+	1998 12 15	704	0.5−	0.3+	2000 01 08	704	0.2+	0.1+
1991 08 10	675	0.4−	0.8−	1998 12 22	704	1.0−	1.0−	2000 01 08	704	0.9+	0.8+
1997 09 30	566	0.2−	0.6+	1998 12 22	704	0.0	0.9−	2000 02 02	703	0.2+	0.2+
1997 09 30	566	0.2+	0.9+	1998 12 22	704	0.4+	1.1−	2000 02 02	703	0.5+	0.4+
1997 09 30	566	0.8−	0.8+	1998 12 22	704	0.9+	1.9+	2000 02 02	703	0.6+	0.3+
1998 11 23	704	0.9+	0.3−	1998 12 22	704	0.3−	1.8+	2000 02 02	703	0.3+	0.2+
1998 11 23	704	0.3+	0.1−	1999 01 20	704	0.9+	0.9+	2000 02 27	411	1.1−	0.5−
1998 11 23	704	0.6−	0.9−	1999 01 20	704	0.4−	1.1+	2000 02 27	411	(2.4−	0.6−)
1998 11 23	704	1.5−	1.7−	1999 01 20	704	1.1+	0.0	2000 02 28	411	0.4+	0.5−
1998 11 23	704	(2.8−	0.7−)	1999 01 20	704	0.3+	0.4−	2000 02 28	411	1.4−	0.9−
1998 12 15	704	(3.0−	1.7−)	1999 01 20	704	0.0	0.2+	2000 03 08	411	0.4−	0.1+
1998 12 15	704	0.1−	0.3+	2000 01 08	704	0.3+	0.0	2000 03 08	411	0.8−	0.3+

2000 DL₃ = 1998 XT₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	62.27481		(2000.0)	P	Q
<i>n</i>	0.18334893	ω	288.54702	−0.24268585	−0.97002787
<i>a</i>	3.0686719	Ω	175.44509	+0.93798332	−0.23784799
<i>e</i>	0.0710671	<i>i</i>	8.85670	+0.24756993	−0.04974187
<i>P</i>	5.38	<i>H</i>	12.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 12 15	704	0.1+	0.4−	2000 02 27	703	0.3−	0.1+	2000 03 11	704	0.1+	0.4−
1998 12 15	704	0.7+	0.9−	2000 02 27	703	0.2+	0.4+	2000 03 11	704	0.2+	0.1+
1998 12 15	704	0.9−	0.0	2000 02 27	703	0.5−	0.9+	2000 03 11	704	0.3+	0.3+
1998 12 15	704	0.4+	0.7+	2000 02 27	703	0.0	0.0	2000 03 11	704	0.1+	0.0
1998 12 15	704	0.1+	0.7+	2000 02 27	120	0.2−	0.4−	2000 03 11	704	0.4+	0.1−
1998 12 22	704	0.1−	0.2−	2000 02 28	120	1.7−	0.3−	2000 03 14	703	0.4+	0.1+
1998 12 22	704	0.1+	0.3−	2000 02 28	120	0.9−	0.4−	2000 03 14	703	0.1−	0.2−
1998 12 22	704	0.1−	0.8+	2000 02 28	120	1.2+	0.3+	2000 03 14	703	0.4+	0.1−
1998 12 22	704	0.5−	0.2−	2000 02 28	120	0.9−	0.6−	2000 03 14	703	0.5+	0.4−
1998 12 22	704	0.2+	0.1−	2000 02 29	704	0.2−	0.4+	2000 03 15	704	0.3−	0.1+
2000 02 08	704	0.6+	0.2−	2000 02 29	704	0.0	1.0−	2000 03 15	704	0.1+	0.2−
2000 02 08	704	0.3+	0.3+	2000 02 29	704	1.1−	0.1−	2000 03 15	704	0.1−	0.0
2000 02 08	704	0.6+	0.1−	2000 03 08	704	0.6+	0.0	2000 03 15	704	0.2−	0.6+
2000 02 08	704	0.2+	0.7−	2000 03 08	704	0.1−	1.2+	2000 03 15	704	0.4−	0.8+
2000 02 08	704	0.2−	0.2+	2000 03 08	704	1.3+	0.2−				

2000 DM₃ = 1998 RB₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	89.57621		(2000.0)	P	Q
<i>n</i>	0.30427359	ω	321.99130	+0.29142967	−0.95289206
<i>a</i>	2.1892392	Ω	110.92530	+0.89822522	+0.24236548
<i>e</i>	0.1158940	<i>i</i>	5.16312	+0.32902919	+0.18236143
<i>P</i>	3.24	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 23	704	1.2+	1.9+	1998 09 22	699	0.5+	0.5+	2000 03 05	608	0.1+	1.0−
1998 08 23	704	0.2+	0.3−	1998 09 22	699	0.4+	0.4+	2000 03 05	608	0.0	1.0−
1998 08 23	704	(2.8+	0.9+)	1998 09 22	699	0.8+	0.8+	2000 03 06	120	1.1+	0.0
1998 08 23	704	0.4+	1.7−	2000 02 28	120	0.9+	0.1+	2000 03 06	120	0.3−	0.2+
1998 08 23	704	1.3−	0.2−	2000 02 28	120	0.4+	0.4+	2000 03 12	703	1.5−	0.6+
1998 09 14	704	0.8−	0.3+	2000 02 28	120	0.5−	0.4−	2000 03 12	703	0.4−	0.1+
1998 09 14	704	0.4−	0.3−	2000 02 28	120	0.0	0.3−	2000 03 12	703	0.9−	0.2+
1998 09 14	704	0.3−	0.3+	2000 02 29	120	1.9+	0.1−	2000 03 12	703	0.6−	0.0
1998 09 14	704	1.9−	0.4+	2000 02 29	704	0.5+	0.7+	2000 03 12	704	0.1−	0.2+
1998 09 18	704	0.3−	0.8−	2000 02 29	704	0.3−	0.6+	2000 03 12	704	0.3+	0.3+
1998 09 18	704	0.0	1.1−	2000 02 29	704	0.5+	0.4+	2000 03 12	704	0.6+	0.6+
1998 09 18	704	0.1+	0.3−	2000 02 29	704	0.7−	0.9−	2000 03 12	704	0.5−	0.2+
1998 09 18	704	1.4+	0.2+	2000 03 05	608	0.1−	0.9−				

2000 DN₃ = 1977 DB₁₁ = 1991 GN₁₁ = 1998 WA₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	48.09349		(2000.0)	P	Q
<i>n</i>	0.21542357	ω	87.35540	−0.48712424	−0.86842176
<i>a</i>	2.7559663	Ω	32.32585	+0.71670592	−0.45802714
<i>e</i>	0.1040514	<i>i</i>	9.95978	+0.49904167	−0.18988098
<i>P</i>	4.58	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1977 02 19	033	1.1−	0.4−	1998 11 21	704	1.6+	1.4+	2000 02 28	120	0.4−	0.1+
1977 02 19	033	0.4+	0.9−	1998 11 24	704	0.4+	0.3−	2000 02 28	120	0.1+	0.4+
1991 04 11	033	0.9+	0.1−	1998 11 24	704	0.3+	0.1−	2000 02 28	120	1.1−	0.1−
1991 04 11	033	0.4−	0.3−	1998 11 24	704	0.5+	1.8−	2000 02 28	120	0.2−	0.3+
1991 04 12	033	0.6−	1.0+	1998 11 24	704	0.2+	0.1−	2000 02 29	120	0.3+	0.1+
1998 11 18	704	0.2+	0.1+	1998 12 14	704	0.4−	0.5+	2000 03 03	120	0.9−	0.0
1998 11 18	704	0.5+	0.1−	1998 12 14	704	0.3−	0.6−	2000 03 03	120	0.2−	0.2−
1998 11 18	704	0.2−	0.8−	1998 12 14	704	1.1−	1.3−	2000 03 06	120	0.6−	0.2−

2000 MAR. 20

M.P.C. 39439

1998 11 18	704	0.5+	0.0	1998 12 14	704	1.6−	0.1−	2000 03 06	120	0.1−	0.0
1998 11 18	704	0.3−	0.5+	1999 01 15	699	1.4−	0.3−	2000 03 12	703	0.7+	0.6+
1998 11 20	699	0.4−	0.3+	1999 01 15	699	(2.4+	1.1+)	2000 03 12	703	0.6+	0.3+
1998 11 20	699	0.6−	0.0	1999 01 15	699	0.3−	0.6+	2000 03 12	703	0.6+	0.5+
1998 11 20	699	0.1+	0.4+	2000 01 08	704	0.1+	0.9+	2000 03 12	703	0.7+	0.7+
1998 11 21	704	0.4+	0.2+	2000 01 08	704	0.2+	0.3−	2000 03 12	704	0.8+	0.3−
1998 11 21	704	0.2−	0.1−	2000 01 08	704	0.1−	0.4−	2000 03 12	704	0.6+	0.2+
1998 11 21	704	0.4−	0.6+	2000 01 08	704	0.2−	0.4−	2000 03 12	704	0.2+	0.4−
1998 11 21	704	1.7+	1.3+	2000 01 08	704	0.6−	0.1+	2000 03 12	704	0.0	0.8−

2000 DQ₃ = 2000 AA₁₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	348.76417		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.22915941	<i>ω</i>	199.22309	−0.99733078	−0.04670999		
<i>a</i>	2.6447071	<i>Ω</i>	337.87194	+0.06913329	−0.85138668		
<i>e</i>	0.0871309	<i>i</i>	8.56826	−0.02349267	−0.52245468		
<i>P</i>	4.30	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 14	704	0.3+	0.6−	2000 02 26	703	0.2−	0.5−	2000 03 05	704	0.4+	0.4+
1998 11 14	704	1.0+	0.6−	2000 02 26	703	1.0−	1.3+	2000 03 05	704	0.2+	0.2+
1998 11 14	704	(2.6+	0.2−)	2000 02 27	684	0.3−	1.1−	2000 03 05	704	0.3+	0.0
1998 11 14	704	0.8−	0.2+	2000 02 27	684	0.2−	1.1−	2000 03 05	608	0.0	0.5−
1998 11 14	704	0.4−	0.7+	2000 02 29	704	0.7−	0.5−	2000 03 05	608	0.1+	0.6−
1999 12 05	704	0.9+	0.2−	2000 02 29	704	0.1+	0.1−	2000 03 05	608	0.3+	1.8−
1999 12 05	704	0.7−	0.9−	2000 02 29	704	0.2+	0.2−	2000 03 08	704	0.2−	0.9+
1999 12 05	704	0.3−	0.3−	2000 02 29	704	0.4+	0.3+	2000 03 08	704	1.1−	0.1−
2000 01 04	704	0.4+	0.0	2000 03 02	684	1.0+	0.4−	2000 03 08	704	0.0	0.3−
2000 01 04	704	0.3+	0.4+	2000 03 02	684	1.1+	0.6−	2000 03 08	704	0.0	0.1+
2000 01 04	704	0.0	0.4+	2000 03 03	704	0.2+	0.1+	2000 03 08	704	0.2+	1.2+
2000 01 04	704	0.6+	0.5+	2000 03 03	704	0.3+	0.1−	2000 03 10	691	0.2−	0.8−
2000 01 08	704	0.6+	0.0	2000 03 03	704	0.1+	0.1+	2000 03 10	691	0.3−	0.7−
2000 01 08	704	0.6−	0.9−	2000 03 03	704	0.1+	0.1+	2000 03 10	691	0.3−	0.8−
2000 01 08	704	0.5+	1.9+	2000 03 03	684	0.4+	0.4−	2000 03 11	704	0.5+	0.3+
2000 01 08	704	0.6+	0.1−	2000 03 03	684	0.5+	0.4−	2000 03 11	704	0.4+	0.3+
2000 01 08	704	0.6−	0.2−	2000 03 03	704	0.2+	0.3−	2000 03 11	704	0.3−	0.1+
2000 02 06	704	0.8−	0.1+	2000 03 04	704	0.1−	0.1+	2000 03 11	704	0.7−	0.3+
2000 02 06	704	0.0	0.4+	2000 03 04	704	0.2+	0.2+	2000 03 11	704	0.1+	0.3+
2000 02 06	704	0.1−	0.1+	2000 03 04	704	0.3+	0.0	2000 03 11	699	0.5−	0.1+
2000 02 06	704	0.0	1.3+	2000 03 04	704	0.1−	0.1+	2000 03 11	699	0.0	0.6+
2000 02 06	704	0.1−	0.3+	2000 03 04	704	0.0	0.0	2000 03 11	699	0.0	0.4+
2000 02 26	703	0.7−	0.0	2000 03 05	704	0.0	0.5+	2000 03 11	699	0.4−	0.4+
2000 02 26	703	0.7−	0.1−	2000 03 05	704	0.3+	0.2+				

2000 DY₃ = 1998 XU₂₉ = 2000 AM₂₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	195.83143		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.17094745	<i>ω</i>	317.22905	+0.65029888	+0.75927615		
<i>a</i>	3.2153454	<i>Ω</i>	353.20155	−0.62833251	+0.51929010		
<i>e</i>	0.0246734	<i>i</i>	12.05360	−0.42697731	+0.39222128		
<i>P</i>	5.77	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 12 14	704	1.2+	0.0	2000 01 08	704	0.2−	0.8−	2000 02 29	704	0.4+	0.4+
1998 12 14	704	0.1−	0.1−	2000 01 08	704	1.1−	1.4−	2000 02 29	704	0.3+	0.6+
1998 12 14	704	0.4−	0.2−	2000 02 03	704	0.2−	0.8+	2000 02 29	704	0.1−	0.4+
1998 12 14	704	0.2−	0.9+	2000 02 03	704	0.2+	0.4+	2000 02 29	704	0.1−	0.3+
1998 12 14	704	0.9+	0.2−	2000 02 03	704	0.0	0.5+	2000 02 29	704	1.4−	0.1−
1998 12 17	704	0.4+	0.9+	2000 02 03	704	0.3−	0.3+	2000 03 04	704	0.2+	0.2+
1998 12 17	704	0.1+	0.2−	2000 02 03	704	0.1+	0.4+	2000 03 04	704	0.4+	0.4−
1998 12 17	704	1.8−	0.2+	2000 02 11	704	0.6+	0.1−	2000 03 04	704	0.1−	0.1−
1998 12 17	704	0.4−	0.2−	2000 02 11	704	0.3−	0.0	2000 03 04	704	0.2−	0.2+
1998 12 17	704	0.2+	1.1−	2000 02 11	704	0.4+	0.1+	2000 03 04	704	0.5+	0.8−
2000 01 06	699	0.0	1.7+	2000 02 11	704	0.9+	0.2+	2000 03 12	704	0.4−	0.1+
2000 01 06	699	0.6+	0.2+	2000 02 28	704	0.5−	0.6−	2000 03 12	704	0.4+	0.4−
2000 01 06	699	0.1−	0.3−	2000 02 28	704	0.2−	0.1−	2000 03 12	704	0.3−	0.5−

2000 01 08	704	0.2−	0.4−	2000 02 28	704	0.3+	0.1−	2000 03 12	704	0.5−	0.4−
2000 01 08	704	0.2+	0.8−	2000 02 28	704	0.2+	0.1+				
2000 01 08	704	0.5−	0.3−	2000 02 28	704	0.6+	0.6+				

2000 DD₄ = 1996 FC₂ = 1998 XC₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	214.09119		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.22116934	<i>ω</i>	308.41758	+0.53072551	+0.84724932		
<i>a</i>	2.7080256	<i>Ω</i>	353.51874	−0.70280465	+0.42520678		
<i>e</i>	0.1608979	<i>i</i>	11.41423	−0.47370461	+0.31838308		
<i>P</i>	4.46	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 03 20	566	0.3−	0.4+	1998 12 17	704	0.5−	0.7−	2000 02 29	704	1.2−	0.3−
1996 03 20	566	0.2−	0.4+	1998 12 17	704	0.7+	0.2+	2000 02 29	704	0.1+	0.5−
1996 03 20	566	0.4−	0.4+	2000 02 28	704	0.1+	0.3+	2000 02 29	704	0.1−	0.1−
1996 03 21	566	0.3+	0.5−	2000 02 28	704	0.1+	0.1−	2000 03 04	704	0.1+	0.2−
1996 03 21	566	0.6+	0.1−	2000 02 28	704	0.2+	0.1−	2000 03 04	704	0.3−	0.4−
1996 03 21	566	0.3+	0.1−	2000 02 28	704	0.0	0.1−	2000 03 04	704	(2.2−	0.7+)
1998 12 14	704	0.0	1.0+	2000 02 28	704	0.4+	0.3+	2000 03 04	704	0.9−	0.1−
1998 12 14	704	0.3+	0.2−	2000 02 28	704	0.3−	0.2−	2000 03 11	699	0.8−	0.5+
1998 12 14	704	0.9−	0.5−	2000 02 28	704	1.6+	0.8+	2000 03 11	699	0.4−	0.4−
1998 12 14	704	(2.8−	1.9−)	2000 02 28	704	1.1+	1.2+	2000 03 11	699	0.9−	0.2+
1998 12 17	704	0.1+	1.2+	2000 02 28	704	0.3−	0.2−	2000 03 11	699	0.5−	0.5+
1998 12 17	704	0.4+	0.1−	2000 02 29	704	0.6+	0.9−				
1998 12 17	704	0.3−	0.5−	2000 02 29	704	1.1+	0.6−				

2000 DE₄ = 1995 EO₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	182.91454		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.18389132	<i>ω</i>	329.05316	+0.81757853	+0.57568086		
<i>a</i>	3.0626349	<i>Ω</i>	355.73563	−0.48783230	+0.68093188		
<i>e</i>	0.0972977	<i>i</i>	9.69775	−0.30591665	+0.45268458		
<i>P</i>	5.36	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 03 02	691	0.4−	0.2+	2000 02 28	704	0.7+	0.2+	2000 03 04	704	0.2+	0.6−
1995 03 02	691	0.4+	0.1+	2000 02 28	704	0.4+	0.8+	2000 03 04	704	0.2−	0.2+
1995 03 02	691	0.1−	0.1+	2000 02 29	704	0.7+	0.3−	2000 03 04	704	0.3−	0.2+
1995 03 07	691	0.7+	0.3+	2000 02 29	704	0.2+	0.7+	2000 03 05	704	1.0+	0.9+
1995 03 07	691	0.0	0.2−	2000 02 29	704	0.3+	0.9+	2000 03 05	704	0.1+	0.1+
1995 03 07	691	0.5−	0.5−	2000 02 29	704	0.2+	0.3−	2000 03 05	704	0.1+	1.1−
2000 02 25	703	1.4−	0.6−	2000 02 29	704	0.5+	0.0	2000 03 05	704	0.1+	0.8−
2000 02 25	703	1.8−	0.3−	2000 03 04	704	0.1−	0.2+	2000 03 05	704	0.1+	0.8−
2000 02 25	703	(2.7−	1.9−)	2000 03 04	704	0.3−	0.2+	2000 03 11	699	0.7+	0.1+
2000 02 25	703	(3.0−	1.2+)	2000 03 04	704	0.1+	0.0	2000 03 11	699	0.6−	0.4+
2000 02 28	704	0.0	0.3+	2000 03 04	704	0.1−	0.4−	2000 03 11	699	0.9−	0.7−
2000 02 28	704	0.3+	0.1+	2000 03 04	704	0.3+	0.2+	2000 03 11	699	0.6−	0.2+
2000 02 28	704	0.1+	0.4+	2000 03 04	704	0.0	0.3−				

2000 DW₄ = 1990 ST₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	52.48318		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.23487807	<i>ω</i>	41.61135	+0.40577257	−0.91296688		
<i>a</i>	2.6016032	<i>Ω</i>	24.54153	+0.80890956	+0.33688393		
<i>e</i>	0.2828333	<i>i</i>	5.92792	+0.42545734	+0.23021881		
<i>P</i>	4.20	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

1990 09 25	809	0.0	1.4+	2000 02 28	704	0.3−	0.1−	2000 03 06	704	(2.1+	0.2−)
1990 09 25	809	(0.4+	2.3+)	2000 02 29	704	0.3+	0.2+	2000 03 06	704	0.4−	0.2+
1990 09 25	809	0.7+	1.8+	2000 02 29	704	0.3+	0.3+	2000 03 09	704	0.4+	0.7−
2000 02 03	704	0.4−	0.7+	2000 02 29	704	0.6+	0.3+	2000 03 09	704	0.5+	0.3−
2000 02 03	704	1.6−	1.0−	2000 02 29	704	0.1+	0.2+	2000 03 09	704	0.7+	0.3−
2000 02 03	704	0.6−	0.2+	2000 02 29	704	0.4+	0.9+	2000 03 09	704	0.3−	0.6+
2000 02 03	704	0.9−	0.4−	2000 03 04	704	0.2+	0.1−	2000 03 09	704	0.5+	0.2−
2000 02 11	704	0.8+	0.0	2000 03 04	704	0.2−	0.1+				

2000 DA₅ = 1998 XS₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	231.55895		(2000.0)	P	Q
<i>n</i>	0.25859679	ω	234.72711	+0.34842446	+0.93448784
<i>a</i>	2.4399858	Ω	55.82510	−0.82877946	+0.34352928
<i>e</i>	0.1587566	<i>i</i>	5.06397	−0.43786414	+0.09338150
<i>P</i>	3.81	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1990 09 28	675	0.0	0.1−	1998 12 17	691	0.2−	0.4−	2000 02 29	704	0.6−	0.6+
1998 11 18	704	1.2−	0.5−	1998 12 17	691	0.4−	0.3+	2000 02 29	704	0.5−	0.4+
1998 11 18	704	0.7+	0.2−	2000 02 03	704	0.1+	0.1+	2000 03 04	704	0.2+	0.2+
1998 11 18	704	1.8−	0.5+	2000 02 03	704	0.5+	0.5−	2000 03 04	704	0.1−	0.3−
1998 11 18	704	0.9−	1.4+	2000 02 03	704	1.0−	0.4−	2000 03 04	704	0.9−	0.5+
1998 11 19	699	0.8−	0.1−	2000 02 03	704	0.3−	0.3−	2000 03 04	704	0.5+	0.5+
1998 11 19	699	0.6−	0.4+	2000 02 03	704	1.0−	0.0	2000 03 04	704	0.6+	0.5+
1998 11 19	699	0.3+	1.0+	2000 02 06	703	(2.0−	2.0+)	2000 03 06	704	0.3−	0.1+
1998 11 21	704	1.0−	0.1+	2000 02 06	703	0.4−	1.8+	2000 03 06	704	0.4+	0.2+
1998 11 21	704	1.1+	0.2−	2000 02 06	703	0.8−	0.0	2000 03 06	704	0.8−	0.4−
1998 11 21	704	1.5+	0.4−	2000 02 06	703	0.1+	0.2+	2000 03 06	704	0.4−	0.8+
1998 11 21	704	0.9+	0.6−	2000 02 11	704	0.4+	0.3−	2000 03 06	704	0.5−	0.9−
1998 11 21	704	(3.0−	0.6−)	2000 02 11	704	0.7+	0.4−	2000 03 09	704	0.6+	0.2−
1998 11 24	704	0.6+	0.2−	2000 02 11	704	0.1+	0.9−	2000 03 09	704	0.6+	0.4−
1998 11 24	704	0.7+	0.7−	2000 02 11	704	(2.1+	2.2−)	2000 03 09	704	0.4+	1.0−
1998 11 24	704	(0.3+	2.2−)	2000 02 28	704	1.7+	0.3−	2000 03 09	704	0.0	0.7−
1998 11 24	704	0.9+	0.1+	2000 02 28	704	0.5+	0.5−	2000 03 09	704	0.5+	0.0
1998 11 24	704	0.1−	0.0	2000 02 28	704	0.2+	0.9+	2000 03 12	704	0.1−	0.3+
1998 12 11	691	0.1+	0.1−	2000 02 28	704	(2.3+	1.2−)	2000 03 12	704	0.1+	0.1+
1998 12 11	691	0.1+	0.1−	2000 02 29	704	0.3+	0.3+	2000 03 12	704	0.1−	0.6+
1998 12 11	691	0.1+	0.1+	2000 02 29	704	0.5−	0.0				
1998 12 17	691	0.3−	0.5−	2000 02 29	704	0.2−	0.3−				

2000 DF₆ = 1999 XU₂₃₁ = 1998 VE₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	45.14635		(2000.0)	P	Q
<i>n</i>	0.18489649	ω	88.77508	−0.03038047	−0.99950637
<i>a</i>	3.0515250	Ω	3.00112	+0.84548576	−0.02996793
<i>e</i>	0.0827521	<i>i</i>	8.79271	+0.53313306	−0.00943107
<i>P</i>	5.33	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 11 10	704	0.3−	0.0	1999 12 09	703	0.7+	0.2+	2000 02 29	704	0.1−	0.2−
1998 11 10	704	0.8−	0.7+	1999 12 09	703	0.5−	0.5+	2000 02 29	704	0.1+	0.2−
1998 11 10	704	1.4+	0.7−	1999 12 09	703	0.2+	0.4+	2000 02 29	704	0.0	0.0
1998 11 10	704	1.4−	2.0−	1999 12 09	703	0.3−	0.4+	2000 03 04	704	0.4+	0.3−
1998 11 11	704	0.1−	0.1+	2000 02 28	704	0.0	0.4+	2000 03 04	704	0.3+	0.1−
1998 11 11	704	0.0	1.9+	2000 02 28	704	0.0	0.4+	2000 03 04	704	0.1+	0.5−
1998 11 11	704	1.5+	0.4+	2000 02 28	704	0.3−	0.7+	2000 03 04	704	0.0	0.0
1998 11 11	704	0.2−	0.5−	2000 02 28	704	0.4−	0.7+	2000 03 04	704	0.0	0.1+
1999 12 08	704	0.2−	1.1−	2000 02 28	704	0.6−	1.0+	2000 03 05	608	0.2−	0.7−
1999 12 08	704	0.1+	0.1+	2000 02 29	704	0.5+	0.2−	2000 03 05	608	0.2+	0.6−
1999 12 08	704	0.1+	0.5−	2000 02 29	704	0.2+	0.2−	2000 03 05	608	0.2−	0.5−

2000 DG₆ = 1977 CF₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	82.21154		(2000.0)	P	Q
<i>n</i>	0.17200143	ω	23.71704	+0.62549056	−0.77824293
<i>a</i>	3.2021968	Ω	27.66364	+0.69529425	+0.52360182
<i>e</i>	0.0921718	<i>i</i>	6.88707	+0.35401618	+0.34666854
<i>P</i>	5.73	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1977 02 12	675	0.5+	0.8+	2000 02 28	704	1.2−	1.1−	2000 02 29	704	1.1+	0.9+
1977 02 13	675	0.3−	0.1−	2000 02 28	704	0.3+	0.9−	2000 03 04	704	0.5−	1.0+
2000 01 06	704	0.5+	0.3+	2000 02 28	704	0.1−	1.3−	2000 03 04	704	0.9−	0.1−
2000 01 06	704	0.8−	0.4−	2000 02 29	704	0.9+	0.7+	2000 03 04	704	0.6−	0.0
2000 01 06	704	0.4−	0.5−	2000 02 29	704	0.2−	0.1−	2000 03 04	704	0.6+	0.6+
2000 01 06	704	0.4+	0.2+	2000 02 29	704	0.4+	0.0				
2000 02 28	704	0.1+	0.5+	2000 02 29	704	0.1+	0.5−				

2000 DA₇ = 1996 CS₁ = 1998 VX₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	323.56037		(2000.0)	P	Q
<i>n</i>	0.26603478	ω	229.64661	−0.83751917	+0.54639236
<i>a</i>	2.3942920	Ω	343.47193	−0.49681986	−0.76463382
<i>e</i>	0.1316131	<i>i</i>	0.83112	−0.22744596	−0.34174626
<i>P</i>	3.70	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1996 02 14	566	0.5−	1.1+	2000 01 08	704	0.2+	0.8−	2000 03 07	732	0.6−	0.3+
1996 02 14	566	0.4−	1.2+	2000 02 11	704	0.9+	0.1−	2000 03 08	732	0.0	0.0
1996 02 14	566	0.8−	1.0+	2000 02 11	704	0.5+	0.6+	2000 03 08	732	0.0	0.0
1996 02 15	566	0.2−	1.3−	2000 02 11	704	(1.2−	2.1+)	2000 03 08	732	0.6+	0.0
1996 02 15	566	0.1−	1.2−	2000 02 27	703	0.4−	0.1−	2000 03 08	732	0.4+	0.4−
1996 02 15	566	0.5+	1.1−	2000 02 27	703	0.2−	0.0	2000 03 08	732	0.3+	0.4−
1996 02 16	566	0.1−	1.3−	2000 02 27	703	0.1−	0.0	2000 03 08	732	0.0	0.3−
1996 02 16	566	0.4+	1.3−	2000 02 27	703	0.1+	0.1+	2000 03 08	704	0.2−	0.4−
1996 02 16	566	0.4+	1.2−	2000 02 29	732	0.1−	0.9+	2000 03 08	704	0.1+	0.0
1997 08 03	566	0.7−	0.3+	2000 02 29	732	0.5+	0.7+	2000 03 08	704	0.2−	0.4+
1997 08 03	566	0.5−	0.9+	2000 02 29	732	0.0	0.4+	2000 03 08	704	0.1+	0.3+
1997 08 03	566	0.8+	0.9+	2000 02 29	704	0.4+	0.3+	2000 03 08	704	0.4−	0.3+
1998 10 18	699	0.3+	1.7+	2000 02 29	704	0.1+	0.6+	2000 03 09	732	0.0	0.2−
1998 10 18	699	0.3+	0.9+	2000 02 29	704	0.5+	0.5+	2000 03 09	732	1.4−	0.1−
1998 10 18	699	(0.3+	2.2+)	2000 02 29	704	0.5+	0.5+	2000 03 09	732	0.3−	0.3−
1998 11 10	704	0.9−	0.8+	2000 02 29	704	0.5+	0.6+	2000 03 11	704	0.4+	0.1+
1998 11 10	704	1.1−	0.0	2000 03 01	732	0.6+	0.8+	2000 03 11	699	0.0	0.5+
1998 11 10	704	0.6−	1.0+	2000 03 01	732	0.3+	1.3+	2000 03 11	704	0.3+	0.0
1998 11 10	704	(2.4−	0.2+)	2000 03 01	732	0.5+	0.8+	2000 03 11	704	0.2+	0.1−
1998 11 11	704	0.2−	0.3+	2000 03 03	704	0.1+	0.0	2000 03 11	699	0.0	0.5+
1998 11 11	704	0.1−	0.4−	2000 03 03	704	0.2+	0.1−	2000 03 11	704	0.3+	0.2−
1998 11 11	704	0.6−	0.9+	2000 03 03	704	0.1+	0.2−	2000 03 11	699	0.1+	0.5+
1998 11 11	704	1.2+	0.4+	2000 03 03	704	0.2+	0.3−	2000 03 11	704	0.4+	0.3−
2000 01 08	704	0.1−	1.2−	2000 03 03	704	0.2−	0.3−	2000 03 11	699	0.2−	0.4+
2000 01 08	704	0.1+	0.4−	2000 03 07	732	0.9−	0.5+				
2000 01 08	704	0.4−	0.1−	2000 03 07	732	0.6−	0.0				

2000 DB₇ = 1998 XB₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	111.92056		(2000.0)	P	Q
<i>n</i>	0.17296911	ω	45.91266	+0.70819225	−0.70601872
<i>a</i>	3.1902424	Ω	358.99714	+0.62763921	+0.63031224
<i>e</i>	0.1561162	<i>i</i>	3.74981	+0.32331526	+0.32286847
<i>P</i>	5.70	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1994 02 12	809	0.0	1.3−	1999 01 16	704	(0.7+	2.7+)	2000 03 08	732	1.2−	0.6+
1994 02 12	809	1.2−	1.0−	1999 01 16	704	(4.0−	1.8+)	2000 03 08	732	1.2+	1.6−
1994 02 12	809	(1.3−	2.2−)	2000 02 29	732	0.8+	0.2+	2000 03 10	732	0.1+	0.0

2000 MAR. 20

M.P.C. 39441

1998 12 14	704	0.4−	0.6−	2000 02 29	732	0.3+	0.0	2000 03 10	732	0.6+	0.0
1998 12 14	704	(2.7−	2.1−)	2000 02 29	732	0.3+	0.6+	2000 03 10	732	0.5+	0.4−
1998 12 14	704	0.0	0.4−	2000 03 01	732	0.7−	0.6+	2000 03 11	704	0.4+	0.1−
1998 12 14	704	(3.2−	1.7−)	2000 03 01	732	0.3−	0.2−	2000 03 11	699	0.8−	0.5−
1998 12 17	704	1.1−	0.7−	2000 03 01	732	0.5+	1.0+	2000 03 11	704	0.1+	0.5+
1998 12 17	704	0.1+	1.3+	2000 03 03	704	0.8+	0.1−	2000 03 11	704	0.1−	0.1−
1998 12 17	704	0.7+	1.5+	2000 03 03	704	0.1−	0.2−	2000 03 11	699	0.5−	1.2+
1998 12 17	704	1.4−	0.4+	2000 03 03	704	0.3+	0.1+	2000 03 11	704	0.9+	0.1−
1999 01 16	704	0.9+	1.2−	2000 03 03	704	0.1+	0.5+	2000 03 11	699	1.3−	0.7−
1999 01 16	704	0.4+	0.7−	2000 03 03	704	0.0	0.1+	2000 03 11	704	0.5+	0.1+
1999 01 16	704	0.9+	1.4+	2000 03 08	732	0.1−	0.9+	2000 03 11	699	1.2−	0.4−

2000 DD₇ = 1998 SG₂₆

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	43.17609		(2000.0)	P	Q		
<i>n</i>	0.28407370	ω	52.22421	−0.55665060	−0.81871460		
<i>a</i>	2.2918281	Ω	72.17359	+0.70807549	−0.55627086		
<i>e</i>	0.0426386	<i>i</i>	8.51003	+0.43447579	−0.14236974		
<i>P</i>	3.47	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 22	699	0.2+	0.5−	2000 01 07	704	0.7+	0.9−	2000 03 05	704	0.1−	0.2+
1998 09 22	699	0.1+	0.0	2000 01 07	704	0.1+	0.4−	2000 03 05	704	0.1+	0.3+
1998 09 22	699	0.1−	0.0	2000 01 07	704	0.0	0.4+	2000 03 05	704	0.9+	0.7+
1998 09 24	699	0.5−	0.3+	2000 02 04	704	(2.7−	1.3−)	2000 03 08	411	0.1−	0.8−
1998 09 24	699	0.1−	0.7+	2000 02 04	704	0.2−	0.3+	2000 03 08	411	0.5+	0.5−
1998 09 24	699	0.1−	0.3+	2000 02 04	704	0.1+	1.9+	2000 03 12	704	0.4−	0.5+
1999 11 16	703	0.1−	0.4−	2000 02 29	411	0.2+	1.2−	2000 03 12	704	0.5−	0.3+
1999 11 16	703	0.5+	0.6+	2000 02 29	411	0.7+	0.8−	2000 03 12	704	0.5−	0.3+
1999 11 16	703	0.3−	0.2−	2000 03 01	411	0.5+	0.8−	2000 03 12	704	0.6−	0.3+
1999 11 16	703	0.5−	1.4−	2000 03 01	411	0.1+	0.4+	2000 03 15	636	0.4−	0.1+
2000 01 07	704	0.2+	0.0	2000 03 05	704	0.1+	0.1+	2000 03 15	636	0.4−	1.0+

2000 DL₇ = 1998 XP₇₀

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	350.74126		(2000.0)	P	Q		
<i>n</i>	0.18033366	ω	145.73140	−0.98281672	+0.05732285		
<i>a</i>	3.1027838	Ω	38.74586	−0.15056963	−0.79881281		
<i>e</i>	0.1338413	<i>i</i>	16.28069	+0.10677116	−0.59884237		
<i>P</i>	5.47	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 16	704	0.4−	0.2−	1998 12 17	704	0.5+	0.2+	2000 03 05	704	0.1+	0.1−
1998 11 16	704	0.7+	1.7+	1998 12 17	704	0.5−	0.6+	2000 03 05	704	0.1+	0.1+
1998 11 16	704	0.3+	1.8−	2000 01 07	704	0.2−	0.6+	2000 03 08	411	0.2+	0.7−
1998 11 16	704	1.6−	0.7+	2000 01 07	704	0.6−	1.0−	2000 03 08	411	0.6−	0.7−
1998 11 16	704	1.0+	1.1+	2000 01 07	704	0.9+	0.2−	2000 03 12	704	0.6+	0.7+
1998 12 14	704	0.2+	1.0−	2000 02 29	411	0.1−	0.1−	2000 03 12	704	0.2+	0.6+
1998 12 14	704	0.1+	0.6+	2000 02 29	411	0.1−	0.6−	2000 03 12	704	0.4+	0.3+
1998 12 14	704	0.3−	0.4−	2000 03 01	411	0.2+	0.3+	2000 03 12	704	0.2+	0.4+
1998 12 17	704	0.1+	0.3−	2000 03 01	411	1.8−	0.0				
1998 12 17	704	0.1−	0.9−	2000 03 05	704	0.6+	0.1+				

2000 DJ₉ = 1996 GK₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	136.94822		(2000.0)	P	Q		
<i>n</i>	0.21441750	ω	210.76717	+0.99641659	−0.07583503		
<i>a</i>	2.7645804	Ω	153.50426	+0.08393669	+0.94113909		
<i>e</i>	0.0885502	<i>i</i>	4.81619	−0.01042135	+0.32940289		
<i>P</i>	4.60	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 04 11	691	0.1−	0.4+	2000 02 26	691	0.1−	0.2+	2000 03 04	691	0.1−	0.0
1996 04 11	691	0.3−	0.2−	2000 02 26	691	0.4−	0.2+	2000 03 04	691	0.2+	0.1−
1996 04 11	691	0.4+	0.3+	2000 02 26	691	0.7+	0.5−	2000 03 04	691	0.2+	0.3+
1996 04 18	691	0.1+	0.0	2000 03 02	691	0.1−	0.3−	2000 03 12	691	0.0	0.0
1996 04 18	691	0.1−	0.6−	2000 03 02	691	0.4+	0.1−	2000 03 12	691	0.3−	0.0
1996 04 18	691	0.0	0.1+	2000 03 02	691	0.4−	0.2+	2000 03 12	691	0.1−	0.1+

2000 DJ₁₀ = 1993 FZ₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	189.18127		(2000.0)	P	Q		
<i>n</i>	0.26494888	ω	338.50562	+0.80857115	+0.58834967		
<i>a</i>	2.4008295	Ω	345.44687	−0.53535706	+0.73028067		
<i>e</i>	0.2000223	<i>i</i>	1.72714	−0.24414242	+0.34718122		
<i>P</i>	3.72	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 19	809	0.7−	0.6+	1998 11 18	704	0.1−	0.0	2000 03 02	691	0.3−	0.0
1993 03 20	809	1.0+	0.4−	1998 11 18	704	(0.1+	2.3−)	2000 03 04	691	0.2−	0.1+
1993 03 24	809	0.2−	0.1+	1998 11 18	704	(0.4+	2.7−)	2000 03 04	691	0.2+	0.0
1998 10 19	699	1.0−	0.4+	2000 02 26	691	0.4−	0.4−	2000 03 04	691	0.1+	0.1+
1998 10 19	699	0.6−	0.6+	2000 02 26	691	0.7−	0.5−	2000 03 05	704	0.2+	0.4+
1998 10 19	699	0.2−	0.0	2000 02 26	691	0.5−	0.4−	2000 03 05	704	0.4−	0.7+
1998 11 11	704	0.5+	0.5−	2000 02 29	704	0.0	0.4−	2000 03 05	704	0.5+	0.5−
1998 11 11	704	1.2+	0.5−	2000 02 29	704	0.4+	0.7+	2000 03 05	704	0.6+	0.0
1998 11 11	704	0.3+	0.3+	2000 02 29	704	0.7+	1.2+	2000 03 05	704	0.5+	0.3−
1998 11 11	704	0.7+	0.4−	2000 02 29	704	0.1+	0.1+	2000 03 12	691	0.1+	0.2−
1998 11 18	704	1.1−	0.5+	2000 03 02	691	0.4−	0.2−	2000 03 12	691	0.2+	0.0
1998 11 18	704	0.3+	0.2−	2000 03 02	691	0.6−	0.1−	2000 03 12	691	0.1+	0.2−

2000 DD₁₁ = 1997 GJ₁₁ = 1998 RO₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	140.48707		(2000.0)	P	Q		
<i>n</i>	0.27925816	ω	16.04100	+0.99919015	+0.03759074		
<i>a</i>	2.3180998	Ω	341.78654	−0.04008054	+0.89838556		
<i>e</i>	0.1921020	<i>i</i>	2.63178	−0.00354783	+0.43759607		
<i>P</i>	3.53	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 04 03	704	0.4+	0.7+	1998 09 14	704	0.5−	0.4−	2000 02 29	704	0.1−	1.6+
1997 04 03	704	0.7−	0.6+	1998 09 14	704	0.9+	0.1+	2000 03 02	691	0.3+	0.6−
1997 04 07	704	0.7+	0.1+	1998 09 18	704	0.8+	0.3+	2000 03 02	691	0.1−	0.5−
1997 04 07	704	0.2+	0.2−	1998 09 18	704	0.3−	0.3−	2000 03 02	691	0.1+	0.5−
1998 08 17	704	0.0	0.8+	1998 09 18	699	0.6−	0.3−	2000 03 03	704	0.2+	0.0
1998 08 17	704	0.5−	0.4+	1998 09 18	704	0.7−	0.6+	2000 03 03	704	1.3+	0.1−
1998 08 17	704	0.4+	0.7+	1998 09 18	699	0.4−	0.1+	2000 03 03	704	0.5+	0.1+
1998 08 17	704	0.4+	1.0+	1998 09 18	704	0.2−	1.3+	2000 03 05	704	0.6−	0.7−
1998 08 17	704	0.5+	0.2+	1998 09 18	704	0.6−	0.8+	2000 03 05	704	0.2+	0.5+
1998 08 23	704	0.3+	1.3−	1998 09 18	699	0.3−	0.3+	2000 03 05	704	0.5−	0.7+
1998 08 23	704	0.8−	0.2+	2000 02 26	691	0.7−	0.6−	2000 03 05	704	0.4−	0.3+
1998 08 23	704	(0.6−	2.6−)	2000 02 26	691	0.7−	0.2−	2000 03 05	704	0.4+	0.5+
1998 08 23	704	1.0−	1.0−	2000 02 26	691	0.3−	0.3−	2000 03 12	691	0.3+	0.1+
1998 08 23	704	(5.8−	1.1+)	2000 02 29	704	1.2+	1.2+	2000 03 12	691	0.4+	0.0
1998 09 14	704	0.6+	0.9−	2000 02 29	704	0.7+	0.3−	2000 03 12	691	0.3+	0.2+
1998 09 14	704	0.4+	0.1−	2000 02 29	704	0.5+	0.1+				
1998 09 14	704	0.2+	0.7+	2000 02 29	704	1.4−	1.9+				

2000 DO₁₁ = 1998 SD₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	68.88451		(2000.0)	P	Q
n	0.28037189	ω	49.43361	+0.08559365	-0.99632378
a	2.3119569	Ω	35.65670	+0.91226158	+0.07693581
e	0.1790834	i	0.34956	+0.40056527	+0.03768025
P	3.52	H	16.3	G 0.15	U 6

Residuals in seconds of arc

1998 09 20	691	0.0	0.1−	2000 03 02	691	0.1+	0.1−	2000 03 10	704	1.2+	1.3−
1998 09 20	691	0.3+	0.2−	2000 03 02	691	0.1−	0.4−	2000 03 10	704	1.0−	0.2−
1998 09 20	691	0.3+	0.3+	2000 03 02	691	0.2−	0.5−	2000 03 11	704	0.1−	0.8+
1998 09 21	691	0.1+	0.2+	2000 03 03	691	0.4−	0.2−	2000 03 11	704	0.6−	0.8+
1998 09 21	691	0.2+	0.0	2000 03 03	691	0.1−	0.1−	2000 03 11	704	0.1+	0.1−
1998 09 21	691	0.7−	0.6−	2000 03 03	691	0.1+	0.3−	2000 03 11	704	0.3+	0.5+
2000 02 27	691	0.1−	0.0	2000 03 10	704	1.5+	0.4+	2000 03 11	704	0.3−	0.3−
2000 02 27	691	0.2−	0.0	2000 03 10	704	0.1−	0.4+				
2000 02 27	691	0.0	0.1+	2000 03 10	704	0.3−	0.1+				

2000 DU₁₁ = 6694 P-L = 1997 MG₆ = 1998 SX₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	77.86914		(2000.0)		P		Q
<i>n</i>	0.28553379	ω	272.58255	+0.07988660			−0.99677177
<i>a</i>	2.2840084	Ω	172.82065	+0.93813089			+0.07246559
<i>e</i>	0.1016873	<i>i</i>	3.67493	+0.33693999			+0.03456550
<i>P</i>	3.45	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.0	0.6−	1998 09 26	704	0.1−	0.3+	2000 03 03	691	0.1+	0.8−
1960 09 24	675	0.6−	0.2+	1998 09 26	704	0.1−	1.4−	2000 03 04	688	0.3+	0.4+
1960 09 26	675	0.5+	0.9−	1998 09 26	704	1.5−	1.7+	2000 03 04	688	0.7−	0.3+
1960 09 26	675	0.4+	1.3−	1998 09 27	704	0.4−	0.1−	2000 03 08	704	0.2+	0.8+
1960 09 27	675	1.2+	1.7−	1998 09 27	704	1.1+	0.2+	2000 03 08	704	0.2+	0.9−
1960 09 27	675	0.4+	0.2−	1998 09 27	704	(2.8+	0.3+)	2000 03 08	704	1.1−	0.5+
1960 09 28	675	1.3−	0.8−	1998 09 27	704	0.2−	1.6+	2000 03 10	704	0.4−	0.6+
1960 09 28	675	1.1+	0.0	1998 09 27	704	1.2+	0.1−	2000 03 10	704	0.3+	0.2−
1997 06 27	691	0.1−	0.3−	2000 02 27	691	0.5−	0.6−	2000 03 10	704	0.1+	0.3+
1997 06 27	691	0.0	0.1−	2000 02 27	691	0.5−	0.6−	2000 03 10	704	0.0	0.1−
1997 06 27	691	0.2+	0.4+	2000 02 27	691	0.6−	0.5−	2000 03 10	704	0.5+	0.3+
1997 07 03	691	0.2+	0.0	2000 03 02	691	0.5−	0.9−	2000 03 11	704	0.6+	0.3−
1997 07 03	691	0.2−	0.0	2000 03 02	691	0.5−	0.9−	2000 03 11	704	0.1−	0.5+
1997 07 03	691	0.1−	0.2−	2000 03 02	691	0.4−	0.7−	2000 03 11	704	0.4+	0.1+
1998 09 26	704	0.6−	0.5+	2000 03 03	691	0.2−	0.6−	2000 03 11	704	0.7+	0.5+
1998 09 26	704	0.6−	0.5+	2000 03 03	691	0.1+	0.3−	2000 03 11	704	0.9+	0.9+

2000 DH₁₂ = 1998 XV₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	104.98118		(2000.0)		P		Q
<i>n</i>	0.18248210	ω	250.18915	+0.40934317			−0.91228919
<i>a</i>	3.0783822	Ω	175.58290	+0.88721619			+0.39471370
<i>e</i>	0.0792706	<i>i</i>	9.64766	+0.21280414			+0.10922235
<i>P</i>	5.40	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 15	704	1.2−	1.0+	2000 02 27	691	0.1+	0.6+	2000 03 08	704	0.1+	0.5+
1998 12 15	704	0.6−	1.5+	2000 02 27	691	0.8+	0.8−	2000 03 08	704	0.3+	1.5+
1998 12 15	704	0.4+	1.8+	2000 02 27	691	0.2+	0.5+	2000 03 08	704	0.1+	0.2−
1998 12 15	704	1.6+	0.1+	2000 03 02	691	0.2−	0.0	2000 03 08	704	0.3−	0.4−
1998 12 22	704	0.2−	1.0−	2000 03 02	691	0.5−	0.1+	2000 03 08	704	0.1+	0.2−
1998 12 22	704	0.5+	1.4−	2000 03 02	691	0.4−	0.2−	2000 03 10	704	0.6−	0.6−
1998 12 22	704	0.7−	1.8−	2000 03 03	691	0.0	0.2−	2000 03 10	704	0.1−	0.2−
1998 12 22	704	0.2−	0.2−	2000 03 03	691	0.1−	0.2−	2000 03 10	704	0.2+	0.1+
1998 12 22	704	0.4+	0.1−	2000 03 03	691	0.2−	0.2−	2000 03 10	704	0.4+	0.1+

2000 DQ₁₂ = 1996 KR₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	245.19128		(2000.0)		P		Q
<i>n</i>	0.22263768	ω	142.10497	+0.47031059			+0.88238438
<i>a</i>	2.6961059	Ω	155.93942	−0.81803207			+0.44199407
<i>e</i>	0.0475390	<i>i</i>	2.01628	−0.33110645			+0.16136620
<i>P</i>	4.43	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1996 05 20	691	0.6−	1.5+	2000 02 27	691	0.4+	0.3+	2000 03 03	691	0.3−	0.1+
1996 05 20	691	0.7−	1.0+	2000 02 27	691	0.2+	0.1+	2000 03 03	691	0.3−	0.2+
1996 05 20	691	0.5−	1.0+	2000 02 27	691	0.2+	0.3+	2000 03 03	691	0.1−	0.2+
1996 05 22	809	0.3−	0.2−	2000 03 02	691	0.2−	0.4−	2000 03 10	704	0.3+	0.1+
1996 05 22	809	0.5+	1.6−	2000 03 02	691	0.3−	0.1−	2000 03 10	704	0.1+	0.2−
1996 05 22	809	1.5+	1.7−	2000 03 02	691	0.5−	0.0	2000 03 10	704	0.4+	0.8−

2000 DQ₁₃ = 1993 QK₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	186.82267		(2000.0)		P		Q
<i>n</i>	0.22620003	ω	143.52143	+0.88230145			+0.47065868
<i>a</i>	2.6677243	Ω	188.40590	−0.43946507			+0.81996400
<i>e</i>	0.0761345	<i>i</i>	1.94254	−0.16856629			+0.32579049
<i>P</i>	4.36	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 08 18	010	(2.2−	2.9−)	2000 02 29	704	0.0	0.1−	2000 03 04	691	0.6−	0.7−
1993 08 19	010	0.6+	1.0+	2000 02 29	704	0.1−	0.1+	2000 03 04	691	0.5−	0.6−
1993 08 19	010	0.3−	0.3+	2000 02 29	704	0.1−	0.1+	2000 03 11	704	0.2+	0.2+
1993 08 19	010	0.4−	1.1−	2000 03 02	691	0.8−	0.5−	2000 03 11	704	1.1+	1.1+
2000 02 06	704	1.3+	0.2−	2000 03 02	691	0.7−	0.6−	2000 03 11	704	0.4+	0.5−
2000 02 06	704	0.1+	0.6+	2000 03 02	691	0.8−	0.4−	2000 03 11	699	0.5+	0.0
2000 02 06	704	0.2+	0.5+	2000 03 03	704	0.3+	0.4+	2000 03 11	704	0.5+	0.6+
2000 02 28	691	0.2−	0.9−	2000 03 03	704	0.1+	0.5+	2000 03 11	704	0.7+	1.3+
2000 02 28	691	0.3−	0.8−	2000 03 03	704	0.0	0.1−	2000 03 11	699	0.6−	0.5−
2000 02 28	691	0.3−	0.8−	2000 03 03	704	0.1−	0.7+	2000 03 11	699	0.2+	0.2+
2000 02 29	704	0.1+	0.0	2000 03 03	704	0.2−	1.0+	2000 03 11	699	0.1−	0.1+
2000 02 29	704	0.1+	0.0	2000 03 04	691	0.4−	0.6−				

2000 DR₁₃ = 1997 NY₁ = 1998 SA₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	98.04721		(2000.0)		P		Q
<i>n</i>	0.24052582	ω	227.30552	+0.78818711			−0.61532390
<i>a</i>	2.5607170	Ω	170.64904	+0.58365445			+0.74130367
<i>e</i>	0.2042558	<i>i</i>	4.13984	+0.19521415			+0.26803986
<i>P</i>	4.10	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 07 02	691	0.1+	0.2+	1998 09 18	704	1.9−	1.0+	2000 03 02	691	0.3−	0.5−
1997 07 02	691	0.1−	0.1+	1998 09 23	120	0.4+	0.3+	2000 03 02	691	0.1−	0.5−
1997 07 02	691	0.2−	0.5+	1998 09 23	120	0.2+	0.4+	2000 03 03	704	0.4+	0.2+
1997 07 08	691	0.3+	0.0	1998 09 23	120	0.0	0.1+	2000 03 03	704	0.4+	0.8+
1997 07 08	691	0.0	0.1−	1998 09 29	120	0.2+	0.0	2000 03 03	704	1.1+	1.0+
1997 07 08	691	0.2+	0.4+	1998 09 29	120	0.6+	0.7+	2000 03 03	704	0.7+	0.7+
1998 08 23	704	0.1−	0.9+	1998 09 29	120	0.2−	0.4+	2000 03 03	704	0.7+	0.7+
1998 08 23	704	0.2−	0.3+	1998 10 10	699	1.0+	0.7+	2000 03 04	691	0.0	0.8−
1998 08 23	704	0.1+	0.1−	1998 10 10	699	0.9+	0.1+	2000 03 04	691	0.2+	0.8−
1998 08 23	704	0.7+	1.6+	1998 10 10	699	0.4+	1.0−	2000 03 04	691	0.1−	0.6−
1998 08 23	704	(0.8−	2.2−)	2000 02 28	691	0.0	0.7−	2000 03 11	704	0.2+	1.3+
1998 09 14	704	0.3−	0.3+	2000 02 28	691	0.2+	0.8−	2000 03 11	704	0.9−	0.4+
1998 09 14	704	0.2+	1.2−	2000 02 28	691	0.1+	0.7−	2000 03 11	704	0.8−	1.9+
1998 09 14	704	0.5−	0.1−	2000 02 29	704	1.2+	0.3−	2000 03 11	699	0.2−	0.3+
1998 09 14	704	(2.1+	0.6−)	2000 02 29	704	0.1+	0.0	2000 03 11	704	0.5+	1.7+
1998 09 18	704	0.7−	0.6−	2000 02 29	704	0.0	0.3−	2000 03 11	704	0.3−	1.2+
1998 09 18	704	0.7−	1.0+	2000 02 29	704	0.5−	0.1−	2000 03 11	699	0.0	0.5+
1998 09 18	704	(2.2−	0.5−)	2000 02 29	704	0.1−	0.2−	2000 03 11	699	0.5−	1.1+
1998 09 18	704	1.5−	0.5+	2000 03 02	691	0.4−	0.4−	2000 03 11	699	0.2+	0.9+

2000 MAR. 20

M.P.C. 39443

2000 DT₁₃ = 1994 PC₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	79.34169		(2000.0)		P		Q				
<i>n</i>	0.23863851		ω	75.55473	+0.68807067		−0.72456936				
<i>a</i>	2.5742004		Ω	330.84510	+0.63065218		+0.62401883				
<i>e</i>	0.2842446		<i>i</i>	4.64729	+0.35893814		+0.29257433				
<i>P</i>	4.13		<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	6			
Residuals in seconds of arc											
1994 08 10	809	0.0	0.4−	2000 02 29	704	0.7+	1.5+	2000 03 03	704	0.1+	0.4+
1994 08 10	809	0.1+	0.2+	2000 02 29	704	0.0	0.3−	2000 03 03	704	0.2+	0.0
1994 08 10	809	0.5−	0.9−	2000 02 29	704	0.1+	1.6+	2000 03 04	691	0.0	0.5−
1994 08 11	809	1.5+	0.1+	2000 02 29	704	0.3−	0.1+	2000 03 04	691	0.2−	0.7−
1994 08 11	809	0.2−	1.2+	2000 03 02	691	0.3−	0.6−	2000 03 04	691	0.2−	0.7−
1994 08 11	809	0.9−	0.1−	2000 03 02	691	0.3−	0.6−	2000 03 11	704	0.8−	0.7−
2000 02 28	691	0.3+	0.5−	2000 03 02	691	0.4−	0.4−	2000 03 11	704	0.2+	0.0
2000 02 28	691	0.2+	0.4−	2000 03 03	704	0.2−	1.4+	2000 03 11	704	1.2+	0.8+
2000 02 28	691	0.2+	0.3−	2000 03 03	704	0.1−	0.4+				
2000 02 29	704	0.3−	0.4+	2000 03 03	704	0.2−	0.7−				

2000 DH₁₄ = 1994 AS₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	60.57548		(2000.0)		P		Q				
<i>n</i>	0.17845054	<i>ω</i>	104.51260		+0.08350515		−0.99649526				
<i>a</i>	3.1245739	<i>Ω</i>	340.69530		+0.90846532		+0.07815066				
<i>e</i>	0.1335127	<i>i</i>	0.85068		+0.40953346		+0.02982740				
<i>P</i>	5.52	<i>H</i>	15.5		<i>G</i>	0.15	<i>U</i>	6			
Residuals in seconds of arc											
1994 01 05	691	0.8+	0.1−	2000 02 28	691	0.0	0.2−	2000 03 04	691	0.1−	0.1−
1994 01 05	691	0.2−	0.1+	2000 03 02	691	0.4−	0.5−	2000 03 04	691	0.1−	0.1−
1994 01 05	691	0.6−	0.3+	2000 03 02	691	0.8−	0.2−	2000 03 04	691	0.1−	0.4−
1994 01 18	691	0.2−	0.1−	2000 03 02	691	0.5−	0.0	2000 03 15	691	0.0	0.0
1994 01 18	691	0.4−	0.1−	2000 03 03	704	0.8+	0.8+	2000 03 15	691	0.1−	0.0
1994 01 18	691	0.5+	0.1−	2000 03 03	704	1.1+	0.6+	2000 03 15	691	0.1+	0.1−
2000 02 28	691	0.6+	0.1+	2000 03 03	704	1.0+	0.2−				
2000 02 28	691	0.7−	0.3−	2000 03 03	704	0.7−	0.6+				

2000 DV₁₄ = 1997 UQ = 1998 XH₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	332.45536		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$				
n	0.17523697	ω	120.50640		−0.93683044		+0.34677542				
a	3.1626580	Ω	79.81684		−0.33474703		−0.85088648				
e	0.0905602	i	2.66577		−0.10145516		−0.39463781				
P	5.62	H	13.6	G	0.15	U	2				
Residuals in seconds of arc											
1996 08 15	566	0.3+	0.4+	1997 10 29	046	0.3−	0.3+	2000 02 26	703	0.8+	0.4−
1996 08 15	566	0.1−	0.0	1998 12 14	704	0.1+	1.0+	2000 02 26	703	0.7−	0.8−
1996 08 15	566	0.4−	0.3+	1998 12 14	704	0.2−	0.9−	2000 02 26	703	0.1−	0.4+
1997 10 21	046	0.3+	0.5+	1998 12 14	704	0.9+	0.8−	2000 02 26	703	1.0+	0.2+
1997 10 21	046	0.2−	0.2+	1998 12 14	704	0.8−	1.0−	2000 03 02	703	0.1+	0.2+
1997 10 21	046	0.2+	0.5+	1998 12 14	704	0.2−	0.7−	2000 03 02	703	0.3+	0.1−
1997 10 21	046	0.3−	0.5−	1998 12 17	704	1.3−	0.2+	2000 03 02	703	0.1+	0.3+
1997 10 22	046	0.4+	0.2−	1998 12 17	704	1.5+	0.9+	2000 03 02	703	0.4−	0.1−
1997 10 22	046	0.4−	0.3+	1998 12 17	704	0.8−	0.4+	2000 03 11	699	0.7−	0.1−
1997 10 22	046	0.2−	0.5+	1998 12 17	704	0.8+	0.0	2000 03 11	699	0.4−	0.2−
1997 10 22	046	0.4+	0.1+	2000 02 11	704	0.0	1.3+	2000 03 11	699	0.7−	0.2−
1997 10 23	046	0.3−	0.3−	2000 02 11	704	0.2−	0.7−	2000 03 11	699	0.6−	0.3−
1997 10 23	046	0.1+	0.2−	2000 02 11	704	0.4+	0.7+	2000 03 12	704	0.2+	0.4+
1997 10 24	046	0.5−	0.7−	2000 02 11	704	0.6−	1.1−	2000 03 12	704	0.4+	0.4+
1997 10 24	046	0.0	0.5−	2000 02 16	703	0.3+	0.3+	2000 03 12	704	0.4+	1.1+
1997 10 24	046	0.0	0.5+	2000 02 16	703	0.3+	0.1+	2000 03 12	704	0.4+	0.7+
1997 10 29	046	0.0	0.6+	2000 02 16	703	0.0	0.0				
1997 10 29	046	0.2−	1.1+	2000 02 16	703	0.4+	0.2+				

2000 DW₁₄ = 1998 UM₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	132.02292		(2000.0)		P		Q				
<i>n</i>	0.25399284	ω	249.63753		+0.85676903		−0.51170488				
<i>a</i>	2.4693827	Ω	141.06397		+0.50296732		+0.80170355				
<i>e</i>	0.0527264	<i>i</i>	5.85139		+0.11388897		+0.30891670				
<i>P</i>	3.88	<i>H</i>	15.4		<i>G</i>	0.15	<i>U</i>	5			
Residuals in seconds of arc											
1998 10 18	809	0.3+	0.3+	2000 02 26	703	1.6+	0.6+	2000 03 02	703	0.3−	0.2+
1998 10 18	809	0.5+	0.6+	2000 02 26	703	0.1+	0.0	2000 03 02	703	(3.3−	0.4+)
1998 10 18	809	0.4+	1.0+	2000 02 26	703	1.1−	1.1+	2000 03 11	699	0.2+	0.1+
1998 10 19	809	0.2+	1.4−	2000 02 26	703	0.1−	1.3−	2000 03 11	699	0.0	0.1−
1998 10 19	809	0.7−	0.5−	2000 03 02	703	0.1+	0.3−	2000 03 11	699	0.1+	0.2−
1998 10 19	809	0.8−	0.1−	2000 03 02	703	0.7−	0.4−	2000 03 11	699	0.1+	0.3+

2000 DY₁₄ = 1977 EL₄ = 1988 VX₁₁ = 1993 BX₁₂ = 1998 VF₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	207.30388		(2000.0)		P		Q				
n	0.29804387	ω	186.81634		+0.83743691		+0.54414714				
a	2.2196402	Ω	140.07939		−0.49760671		+0.79774580				
e	0.1546435	i	4.56031		−0.22602427		+0.25981827				
P	3.31	H	14.1	G	0.15	U	2				
Residuals in seconds of arc											
1977 03 15	381	1.1−	1.2−	1998 11 11	704	0.2+	0.8−	2000 02 11	704	0.1−	0.6+
1977 03 15	381	0.3+	2.0−	1998 11 18	704	1.0+	0.3+	2000 02 11	704	0.7+	0.1+
1988 11 03	327	0.4−	0.3+	1998 11 18	704	0.9+	0.3−	2000 02 26	703	0.5+	0.0
1988 11 03	327	0.4−	0.5+	1998 11 18	704	0.0	0.1+	2000 02 26	703	0.7+	0.2−
1993 01 22	809	0.7+	0.2−	1998 11 18	704	0.6−	1.1+	2000 02 26	703	0.4−	0.2−
1993 01 22	809	0.3+	0.0	1998 11 18	704	1.1+	0.9+	2000 02 26	703	0.4−	0.5−
1993 01 22	809	1.1−	1.1−	1999 02 04	704	0.8+	0.5−	2000 03 02	703	0.5−	0.2−
1993 01 28	809	0.1−	1.0+	1999 02 04	704	0.1−	0.1−	2000 03 02	703	0.6+	0.2+
1993 01 28	809	0.2−	0.1−	1999 02 04	704	(3.0+	0.6+)	2000 03 02	703	0.5+	0.0
1993 01 28	809	0.3+	0.1+	1999 02 04	704	1.5−	1.0+	2000 03 02	703	0.0	0.1−
1998 08 31	704	1.5+	0.8−	1999 12 09	703	0.1+	0.0	2000 03 11	699	0.3−	0.3−
1998 08 31	704	1.7−	0.0	1999 12 09	703	1.0+	0.1+	2000 03 11	699	0.5−	0.4−
1998 08 31	704	1.0−	1.5−	1999 12 09	703	0.2+	0.2−	2000 03 11	699	0.6−	0.3−
1998 08 31	704	1.2+	1.2+	1999 12 09	703	0.4+	0.2+	2000 03 11	699	0.6−	0.2−
1998 08 31	704	(0.2+	2.3+)	2000 01 08	704	1.0−	0.1+	2000 03 12	704	0.4+	0.4+
1998 11 10	704	1.1−	0.0	2000 01 08	704	0.9−	0.3+	2000 03 12	704	0.2+	0.5+
1998 11 10	704	0.3−	0.3−	2000 01 08	704	0.7−	0.3−	2000 03 12	704	0.3+	0.6+
1998 11 10	704	0.4+	0.3−	2000 01 08	704	0.9−	0.0	2000 03 12	704	1.0+	1.1+
1998 11 10	704	0.5−	0.9−	2000 02 11	704	0.2+	0.1−	2000 03 12	704	0.2−	1.0+
1998 11 11	704	0.2−	0.1−	2000 02 11	704	0.5+	0.0				
1998 11 11	704	0.6+	0.8−	2000 02 11	704	0.1−	0.5+				

2000 DZ₁₄ = 1982 JU₂ = 1994 SQ₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	324.35692		(2000.0)			P		Q		
n	0.26903058	ω	61.51944			−0.85309140		+0.52108822		
a	2.3764843	Ω	149.86344			−0.49526407		−0.79274415		
e	0.1208140	i	3.02536			−0.16416021		−0.31626537		
P	3.66	H	15.9			G	0.15	U		4
Residuals in seconds of arc										
1982 05 15	675	1.0+	0.6+	2000 02 26	703	1.2+	0.4+	2000 03 03	704	0.2+ 0.3+
1982 05 16	675	1.3−	0.3−	2000 02 26	703	0.4+	0.0	2000 03 03	704	0.7+ 0.0
1982 05 18	675	0.3+	0.4−	2000 02 29	704	0.4−	0.0	2000 03 03	704	0.5+ 0.1+
1994 09 27	691	0.1−	0.3−	2000 02 29	704	0.5+	0.4−	2000 03 03	704	0.7+ 0.3+
1994 09 27	691	0.2+	0.0	2000 02 29	704	0.2+	1.0−	2000 03 03	704	0.4+ 0.4+
1994 09 27	691	0.0	0.1+	2000 02 29	704	0.0	0.4−	2000 03 11	704	0.1− 0.2+
1994 10 06	691	0.1−	0.2−	2000 02 29	704	0.8−	1.4−	2000 03 11	704	0.2− 0.2+
1994 10 06	691	0.2+	0.4+	2000 03 02	703	0.7−	0.1−	2000 03 11	704	0.5− 0.5+
1994 10 06	691	0.1−	0.1+	2000 03 02	703	0.7−	0.2+	2000 03 11	704	0.2− 0.7+

M.P.C. 39444

2000 MAR. 20

2000 02 26 703 (0.0 2.2+) 2000 03 02 703 0.8+ 0.8+ 2000 03 11 704 0.0 0.6+
 2000 02 26 703 1.3- 0.8- 2000 03 02 703 0.6- 0.5-

2000 DO₁₅ = 1998 SY₁₃₆

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	45.05369		(2000.0)	P	Q		
<i>n</i>	0.23123629	ω	334.32963	-0.30341718	-0.94913077		
<i>a</i>	2.6288475	Ω	133.20629	+0.89292781	-0.31406360		
<i>e</i>	0.1646725	<i>i</i>	6.63308	+0.33259277	-0.02268979		
<i>P</i>	4.26	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.5-	0.8-	2000 02 11	704	0.8-	0.1-	2000 03 06	365	0.8+	0.0
1998 09 26	704	1.1+	0.7-	2000 02 11	704	0.0	0.4+	2000 03 06	365	0.5-	0.3-
1998 09 26	704	(1.7- 2.2-)		2000 02 26	703	0.1+	0.3-	2000 03 11	699	0.3+	0.5+
1998 09 26	704	0.1-	0.2+	2000 02 26	703	1.1+	0.2-	2000 03 11	699	0.3+	0.7+
1998 09 26	704	0.3+	0.8+	2000 02 26	703	1.1-	0.5+	2000 03 11	699	0.2-	0.1-
1998 09 27	704	0.2+	1.0+	2000 02 26	703	0.3+	0.3-	2000 03 11	699	0.1+	0.7+
1998 09 27	704	0.6+	0.7-	2000 03 01	365	1.0+	0.4-	2000 03 12	704	0.1-	0.0
1998 09 27	704	1.5-	0.6+	2000 03 01	365	0.7+	0.3-	2000 03 12	704	(2.6+ 0.1-)	
1998 09 27	704	0.2-	0.7-	2000 03 02	703	(2.2+ 0.6-)		2000 03 12	704	1.2-	0.6+
2000 02 11	704	0.6+	1.1+	2000 03 02	703	0.4+	0.0	2000 03 12	704	0.1-	0.3-
2000 02 11	704	0.4-	0.6-	2000 03 02	703	0.2+	1.0-	2000 03 12	704	0.4-	1.2-
2000 02 11	704	0.7-	0.6+	2000 03 02	703	0.6-	0.1+				

2000 DS₁₅ = 1996 LD₄ = 1998 XN₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	248.94559		(2000.0)	P	Q		
<i>n</i>	0.22269509	ω	218.54129	+0.35352497	+0.92983097		
<i>a</i>	2.6956425	Ω	72.37146	-0.82948094	+0.36209042		
<i>e</i>	0.1076347	<i>i</i>	6.15292	-0.43241354	+0.06561164		
<i>P</i>	4.43	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 06 08	809	0.0	0.3-	1999 01 16	704	0.6+	0.3-	2000 03 02	703	0.2-	0.9-
1996 06 08	809	0.4-	0.7-	1999 01 16	704	(4.4- 1.1-)		2000 03 02	703	0.0	0.1-
1996 06 08	809	0.2-	0.2-	2000 02 11	704	1.1+	0.2+	2000 03 02	703	0.1+	0.3-
1996 06 10	809	(4.1+ 7.3+)		2000 02 11	704	0.3-	0.9-	2000 03 02	703	1.1-	0.6-
1996 06 10	809	(2.6+ 7.9+)		2000 02 11	704	0.9+	1.3+	2000 03 05	704	0.0	0.3+
1996 06 10	809	(2.1+ 6.8+)		2000 02 11	704	1.3+	0.2-	2000 03 05	704	0.1+	0.1-
1998 12 14	704	0.1-	0.6+	2000 02 11	704	1.3+	0.6+	2000 03 05	704	0.8+	0.2+
1998 12 14	704	(0.7+ 3.6-)		2000 02 26	703	0.4-	0.2+	2000 03 05	704	0.4-	0.5-
1998 12 14	704	0.3+	1.5+	2000 02 26	703	1.7-	0.9+	2000 03 05	704	0.1-	0.2-
1998 12 17	704	0.1-	0.4-	2000 02 26	703	0.1+	0.1-	2000 03 12	704	0.3+	0.6-
1998 12 17	704	0.4+	1.1-	2000 02 26	703	1.4-	0.2+	2000 03 12	704	0.3+	0.2+
1998 12 17	704	0.7-	0.5-	2000 02 29	704	0.1-	0.6+	2000 03 12	704	0.1+	0.0
1998 12 17	704	1.1+	0.2-	2000 02 29	704	0.3-	0.6+	2000 03 12	704	0.7+	0.2+
1998 12 17	704	1.7-	0.5-	2000 02 29	704	0.9-	0.3-	2000 03 12	704	0.9+	0.2-
1999 01 16	704	0.3-	1.5-	2000 02 29	704	0.3-	0.1-				
1999 01 16	704	0.9+	1.1+	2000 02 29	704	0.1-	0.3+				

2000 DY₁₅ = 2248 T-1 = 1998 XJ₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	69.39402		(2000.0)	P	Q		
<i>n</i>	0.16918666	ω	24.21228	+0.13284552	-0.99052993		
<i>a</i>	3.2376158	Ω	58.17045	+0.90256207	+0.10644207		
<i>e</i>	0.1849447	<i>i</i>	2.33919	+0.40955314	+0.08672108		
<i>P</i>	5.83	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1971 03 24	675	2.1-	0.4+	2000 02 27	703	0.4+	0.6-	2000 03 05	608	0.5+	0.4+
1971 03 25	675	1.5-	0.2+	2000 02 27	703	0.1-	0.5-	2000 03 05	608	0.2-	0.8+
1971 03 25	675	2.6-	0.4+	2000 02 27	703	1.2+	1.4-	2000 03 07	611	0.5-	0.1+
1971 03 26	675	1.2-	1.0-	2000 02 27	703	0.4+	0.9-	2000 03 07	611	1.3+	0.8+

1971 03 27	675	0.5+	0.6+	2000 03 02	703	0.5+	0.3+	2000 03 11	699	0.1-	0.4+
1971 04 02	675	0.4-	0.1-	2000 03 02	703	0.1+	0.3-	2000 03 11	699	1.0-	0.5+
1998 12 14	704	0.6+	1.6-	2000 03 02	703	0.1+	0.1-	2000 03 11	699	0.4-	1.0+
1998 12 14	704	0.1+	0.9-	2000 03 02	703	0.9+	0.3+	2000 03 11	699	0.8-	0.4+
1998 12 14	704	1.3+	0.3+	2000 03 05	849	0.1-	1.9-	2000 03 12	704	0.5-	0.3-
1998 12 14	704	(0.7+ 2.8-)		2000 03 05	849	0.5-	0.8+	2000 03 12	704	1.2-	0.3+
1998 12 14	704	1.7+	1.6-	2000 03 05	849	1.1+	0.8+	2000 03 12	704	1.1-	0.2+
1998 12 17	704	0.6-	1.2+	2000 03 05	849	1.8+	0.8-	2000 03 12	704	0.6-	0.0
1998 12 17	704	1.5-	1.0+	2000 03 05	849	0.5+	0.0	2000 03 12	704	0.9-	0.3+
1998 12 17	704	0.6-	0.4+	2000 03 05	849	0.6+	1.1+				
1998 12 17	704	1.0-	0.9+	2000 03 05	608	0.0	0.3+				

2000 DC₁₆ = 1993 RN₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	25.86169		(2000.0)	P	Q		
<i>n</i>	0.21699121	ω	138.80609	-0.75328432	-0.65769498		
<i>a</i>	2.7426768	Ω	0.07053	+0.55292953	-0.63345656		
<i>e</i>	0.1320012	<i>i</i>	9.33265	+0.35613433	-0.40763967		
<i>P</i>	4.54	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 15	809	0.8-	1.5-	2000 01 04	704	0.4+	0.2+	2000 03 05	120	0.6-	0.8-
1993 09 15	809	(1.2- 2.4-)		2000 01 04	704	0.2-	0.0	2000 03 08	704	0.0	0.1-
1993 09 15	809	(2.8- 1.8-)		2000 01 04	704	0.7-	0.1-	2000 03 08	704	1.4-	0.1-
1993 09 16	809	0.1-	0.1+	2000 02 11	704	0.9+	0.4+	2000 03 08	704	1.1-	0.5-
1993 09 16	809	0.8-	0.4-	2000 02 11	704	0.3+	0.3+	2000 03 08	704	1.8-	0.0
1993 09 16	809	0.2-	0.2+	2000 02 11	704	0.2+	0.0	2000 03 11	704	0.6+	0.5+
1993 09 17	809	0.8+	1.6+	2000 02 11	704	0.2-	0.8+	2000 03 11	704	0.7+	0.5+
1993 09 17	809	(0.3+ 2.2+)		2000 02 11	704	0.1+	0.0	2000 03 11	704	0.3+	0.5+
1993 09 17	809	0.5-	1.5+	2000 02 27	703	0.2+	0.3+	2000 03 11	704	0.4+	0.7+
1993 09 18	809	0.5+	0.7-	2000 02 27	703	0.4+	0.6+	2000 03 11	704	0.7+	0.9+
1993 09 18	809	0.2-	1.7-	2000 02 27	703	0.3+	0.6+	2000 03 14	703	0.1+	0.2+
1993 09 18	809	0.8-	1.6-	2000 02 27	703	0.1+	0.4+	2000 03 14	703	0.1-	0.4+
1993 09 18	675	0.3+	1.0+	2000 02 28	120	0.0	1.4-	2000 03 14	703	0.2+	0.3+
1993 09 18	675	0.6+	0.1-	2000 02 28	120	1.0-	1.0-	2000 03 14	703	0.2+	0.8+
1993 09 22	675	0.2-	1.1+	2000 02 28	120	0.4-	1.7-	2000 03 15	704	0.6+	0.5+
1993 09 22	675	0.8-	0.1+	2000 02 29	704	0.4+	0.1+	2000 03 15	704	0.9+	0.0
1993 09 23	809	(3.2+ 1.6+)		2000 02 29	704	0.8+	0.6-	2000 03 15	704	0.7+	0.2+
1993 09 23	809	(2.6+ 1.6+)		2000 02 29	704	0.1+	0.3+	2000 03 15	704	0.5+	0.3+
1993 09 23	809	1.4+	1.7+	2000 03 02	120	0.4-	0.9-	2000 03 15	704	0.5+	0.1+
2000 01 04	704	0.2+	0.1-	2000 03 02	120	0.7-	0.9-				
2000 01 04	704	0.2-	0.2-	2000 03 05	120	1.3-	0.4-				

2000 DG₁₆ = 1993 TB₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	34.49829		(2000.0)	P	Q		
<i>n</i>	0.21923109	ω	325.05129	-0.83080182	-0.55655922		
<i>a</i>	2.7239635	Ω	181.14501	+0.54006827	-0.80477385		
<i>e</i>	0.0621234	<i>i</i>	9.18215	+0.13451616	-0.20635137		
<i>P</i>	4.50	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 10 11	809	0.5+	1.4+	2000 02 29	120	0.1+	0.2+	2000 03 07	120	0.0	0.5-
1993 10 11	809	0.3-	1.6+	2000 02 29	120	1.0+	1.2-	2000 03 09	704	(0.4+ 2.7+)	
1993 10 11	809	1.2-	1.4+	2000 02 29	120	(2.1+ 1.0+)		2000 03 09	704	0.5+	0.5+
1993 10 21	809	(0.6+ 4.4+)		2000 02 29	120	0.2+	0.8+	2000 03 09	704	0.1+	0.6+
1993 10 21	809	(0.3- 2.4+)		2000 03 03	120	0.4-	0.4+	2000 03 09	704	0.1+	0.6+
1993 10 21	809	(1.3- 2.7+)		2000 03 03	120	0.7+	0.4-	2000 03 10	704	0.1+	0.7+
1997 08 30	608	0.0	0.1+	2000 03 03	120	0.0	0.8-	2000 03 10	704	0.1-	0.1+
1997 08 30	608	0.0	0.2+	2000 03 04	703	0.3-	0.4+	2000 03 10	704	0.1-	0.2-
1998 12 15	704	0.2-	0.2-	2000 03 04	703	0.1+	0.9+	2000 03 10	704	0.4+	0.1+
1998 12 15	704	0.3+	0.3-	2							

2000 MAR. 20

M.P.C. 39445

2000 DH₁₆ = 1990 EC₇ = 1998 VY₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	340.74153	ω	194.02381	−0.91955235	+0.39275276		
<i>a</i>	2.2044508	Ω	9.13427	−0.35219366	−0.80902715		
<i>e</i>	0.0727381	<i>i</i>	4.69375	−0.17430751	−0.43728749		
<i>P</i>	3.27	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1990 03 02	809	1.5−	0.7−	1998 11 10	704	0.2+	0.5+	2000 03 04	703	0.2+	0.1−
1990 03 02	809	1.0−	0.7−	1998 11 11	704	0.7−	0.3−	2000 03 04	703	0.3+	0.0
1990 03 02	809	0.6−	0.9−	1998 11 11	704	0.4−	0.4+	2000 03 05	120	0.4−	0.2+
1990 03 03	809	0.2+	0.2−	1998 11 11	704	0.5−	1.2+	2000 03 05	120	0.5−	0.2−
1990 03 03	809	0.7+	0.1−	1998 11 11	704	1.0−	0.5+	2000 03 09	704	0.9+	0.0
1990 03 03	809	1.0+	0.0	1998 11 11	704	0.4−	0.5−	2000 03 09	704	0.3+	0.3−
1998 10 19	699	1.5+	0.0	2000 02 08	704	0.8−	1.2+	2000 03 09	704	0.2−	0.2+
1998 10 19	699	1.5+	0.4−	2000 02 08	704	0.1+	0.7+	2000 03 09	704	0.1−	0.5+
1998 10 19	699	0.5+	0.3−	2000 02 08	704	1.9+	0.5+	2000 03 09	704	0.3+	0.1+
1998 10 29	704	0.2−	0.7−	2000 02 29	120	0.5−	0.0	2000 03 10	704	0.7+	0.3−
1998 10 29	704	(2.7−	1.8−)	2000 02 29	120	0.5+	0.1−	2000 03 10	704	0.3+	0.0
1998 10 29	704	0.2+	0.3−	2000 02 29	120	(2.5+	0.8−)	2000 03 10	704	0.0	0.3−
1998 10 29	704	0.3+	0.6−	2000 03 03	120	0.3−	0.1+	2000 03 10	704	0.2−	0.3+
1998 10 29	704	(4.9−	0.3+)	2000 03 03	120	0.7+	0.2+	2000 03 11	120	0.3−	0.2+
1998 11 10	704	1.0−	0.8+	2000 03 03	120	0.0	0.2−	2000 03 11	120	0.8−	0.1−
1998 11 10	704	0.5−	0.5+	2000 03 04	703	0.3+	0.4+				
1998 11 10	704	0.0	0.1+	2000 03 04	703	0.1−	0.6+				

2000 DK₁₆ = 1977 CG₂ = 1995 AW₄ = 1998 XR₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21866475	ω	133.04578	−0.77939394	−0.62644264		
<i>a</i>	2.7286648	Ω	8.18630	+0.55075343	−0.69317337		
<i>e</i>	0.0863937	<i>i</i>	4.31341	+0.29869004	−0.35648324		
<i>P</i>	4.51	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 02 11	675	0.1−	0.8+	1998 12 14	704	0.4+	0.2+	2000 03 05	120	0.5−	0.6+
1977 02 12	675	0.4+	0.4+	1998 12 14	704	0.3−	1.4−	2000 03 06	120	1.7+	0.5−
1993 10 12	809	(0.0	2.5+)	1998 12 14	704	0.6−	0.1+	2000 03 06	120	0.4+	0.6−
1993 10 12	809	0.2−	1.6+	1998 12 17	704	0.0	0.6+	2000 03 07	120	0.1−	0.4−
1993 10 12	809	0.0	0.7+	1998 12 17	704	0.3+	0.7−	2000 03 09	120	0.1−	1.1−
1993 10 22	809	0.9+	1.5−	1998 12 17	704	0.5+	0.3+	2000 03 09	120	1.2+	0.9−
1993 10 22	809	0.5−	0.5−	1998 12 17	704	0.1−	0.3+	2000 03 09	704	0.2−	0.2+
1993 10 22	809	(5.7−	2.1+)	1998 12 17	704	0.2+	0.2+	2000 03 09	704	0.1+	0.5+
1995 01 06	033	0.2−	0.8−	2000 02 29	120	0.3+	0.0	2000 03 09	704	0.2−	0.2+
1995 01 06	033	0.7−	0.1+	2000 02 29	120	0.2+	0.1−	2000 03 09	704	0.2−	0.8+
1995 01 08	033	0.8+	0.7−	2000 03 03	120	0.1+	0.1+	2000 03 09	704	0.5−	1.1+
1995 02 22	033	0.3+	0.0	2000 03 03	120	1.1−	0.4−	2000 03 10	704	0.8+	0.2−
1995 02 22	033	0.1+	0.2+	2000 03 03	120	0.8−	0.5−	2000 03 10	704	0.3+	0.5+
1998 11 10	704	1.2−	0.4+	2000 03 04	703	0.2−	0.0	2000 03 10	704	0.1−	0.5+
1998 11 10	704	0.8+	0.6−	2000 03 04	703	0.3+	0.1−	2000 03 10	704	0.6−	0.7+
1998 11 10	704	1.3−	1.5−	2000 03 04	703	0.1−	0.1−	2000 03 17	120	0.3+	1.2−
1998 11 10	704	0.6+	1.9+	2000 03 04	703	0.5+	0.3+	2000 03 17	120	1.4−	0.1−
1998 12 14	704	(2.1−	2.5−)	2000 03 05	120	0.3−	0.2+	2000 03 18	120	0.3−	0.1+

2000 DX₁₇ = 1982 BJ₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17154883	ω	294.81253	−0.04703442	+0.98318398		
<i>a</i>	3.2078265	Ω	330.77206	−0.73516462	−0.15366635		
<i>e</i>	0.0438177	<i>i</i>	21.18501	−0.67625494	+0.09867075		
<i>P</i>	5.75	<i>H</i>	12.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1982 01 26	381	0.7−	0.3−	2000 02 10	704	0.9−	0.1+	2000 03 09	704	0.0	0.1+
1982 01 26	381	1.9−	0.2+	2000 02 28	106	0.3+	0.5−	2000 03 09	704	0.0	0.7−
1982 01 26	381	0.7+	0.7−	2000 02 29	106	0.2+	0.0	2000 03 13	704	0.2−	0.4+
1982 01 26	381	0.7+	1.0+	2000 02 29	106	0.0	0.0	2000 03 13	704	0.4+	0.1+
1982 01 26	381	1.3+	0.2−	2000 03 02	106	0.1−	0.2+	2000 03 13	704	0.3−	0.5−
1982 01 28	381	(4.7+	1.9+)	2000 03 03	106	0.4+	0.3+	2000 03 13	704	0.4−	0.4−
2000 02 10	704	0.1+	0.2+	2000 03 03	106	0.1−	0.7+	2000 03 13	704	0.3+	0.5+
2000 02 10	704	0.6+	0.3+	2000 03 09	704	0.4−	0.2+				
2000 02 10	704	0.3+	0.8−	2000 03 09	704	0.2−	0.2−				

2000 DW₁₈ = 1995 EW₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19599300	ω	349.28282	−0.01187734	+0.99982944		
<i>a</i>	2.9352314	Ω	280.03556	−0.91635166	−0.01654422		
<i>e</i>	0.0479600	<i>i</i>	0.82294	−0.40019816	+0.00820846		
<i>P</i>	5.03	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 03 01	691	0.0	0.9−	2000 02 27	691	0.3−	0.3−	2000 03 03	691	0.0	0.0
1995 03 01	691	0.4−	0.2−	2000 02 27	691	0.1−	0.3−	2000 03 05	704	0.2−	0.4−
1995 03 07	691	0.3+	0.0	2000 02 29	704	0.0	0.5+	2000 03 05	704	0.0	0.2−
1995 03 07	691	0.1−	0.2−	2000 02 29	704	0.6+	0.2+	2000 03 05	704	0.3−	0.6+
1995 03 07	691	0.4−	0.3−	2000 02 29	704	1.0+	0.0	2000 03 05	704	0.3+	0.3+
2000 02 04	704	0.6+	0.1−	2000 02 29	704	0.2−	0.2−	2000 03 05	704	0.8+	0.4+
2000 02 04	704	0.3−	0.8−	2000 02 29	704	0.1+	0.7+	2000 03 09	691	0.3−	0.3−
2000 02 04	704	0.2+	0.8−	2000 03 03	704	0.3+	0.1−	2000 03 09	691	0.2−	0.1−
2000 02 04	704	0.4+	0.9+	2000 03 03	704	0.8−	0.6+	2000 03 09	691	0.3−	0.3−
2000 02 04	704	1.1−	0.1−	2000 03 03	691	0.0	0.0	2000 03 14	691	0.1+	0.2−
2000 02 12	704	(1.4+	3.7+)	2000 03 03	704	0.2+	0.9+	2000 03 14	691	0.0	0.1−
2000 02 12	704	(2.6−	0.9+)	2000 03 03	704	0.3+	0.9+	2000 03 14	691	0.3+	0.2−
2000 02 12	704	(3.6−	0.7−)	2000 03 03	691	0.0	0.1−				
2000 02 27	691	0.3−	0.2−	2000 03 03	704	0.3−	0.9+				

2000 DS₁₉ = 1981 VC = 1996 KD₆ = 1998 XU₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17617408	ω	340.25481	+0.99990067	−0.01081977		
<i>a</i>	3.1514327	Ω	20.37145	+0.01361300	+0.90744000		
<i>e</i>	0.2217213	<i>i</i>	1.48688	−0.00365270	+0.42004235		
<i>P</i>	5.59	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 11 02	688	1.4+	0.9−	1998 12 11	699	0.0	0.0	2000 02 27	703	0.2−	0.0
1981 11 02	688	1.4+	1.5−	1998 12 11	699	0.8−	0.2−	2000 02 27	703	0.0	0.6+
1981 11 05	688	1.8−	1.8−	1998 12 14	704	1.0+	0.8−	2000 02 29	704	0.5+	0.1−
1981 11 05	688	0.6+	0.2+	1998 12 14	704	0.3+	1.4+	2000 02 29	704	0.3−	0.4−
1996 04 17	809	0.0	1.7−	1998 12 14	704	1.3−	0.7+	2000 02 29	704	0.2+	0.3−
1996 04 17	809	(0.7+	3.1−)	1998 12 14	704	0.7−	1.3+	2000 02 29	704	0.1+	0.4−
1996 04 17	809	0.1+	1.5−	1998 12 17	704	0.0	0.3+	2000 02 29	704	0.0	0.2+
1996 05 19	809	0.4+	1.2+	1998 12 17	704	0.4−	0.5−	2000 03 03	704	0.2−	0.4−
1996 05 19	809	0.4−	1.7+	1998 12 17	704	0.8+	0.3−	2000 03 03	704	0.6−	0.3−
1996 05 19	809	(0.9−	2.0+)	1998 12 17	704	1.8+	0.6−	2000 03 03	704	0.1+	1.0+
1996 05 22	809	(0.8+	2.6+)	2000 02 03	704	0.6+	0.5+	2000 03 03	704	0.3+	0.0
1996 05 22	809	(2.3−	2.1+)	2000 02 03	704	0.5+	0.9+	2000 03 05	704	0.6−	0.8−
1996 05 22	809	(3.8−	1.4+)	2000 02 03	704	0.5+	0.2−	2000 03 05	704	0.4−	0.1−
1997 08 01	566	(0.8+	2.8+)	2000 02 03	704	0.2−	0.7+	2000 03 05	704	0.1−	0.3+
1997 08 01	566	(1.5+	2.9+)	2000 02 11	704	0.4−	0.1+	2000 03 09	704	0.9+	0.4−
1997 08 01	566	(1.5+	2.4+)	2000 02 11	704	0.4−	0.3+	2000 03 09	704	0.3−	0.6−
1998 11 16	566	0.1−	0.8+	2000 02 11	704	0.2+	0.3+	2000 03 09	704	0.3+	1.7−
1998 11 16	566	0.5−	0.5+	2000 02 11	704	0.1−	0.3−	2000 03 09	704	0.3−	0.4−
1998 11 16	566	0.2−	0.4+	2000 02 27	703	0.5−	0.4−				
1998 12 11	699	0.8−	1.1+	2000 02 27	703	0.2−	0.2−				

2000 DM₂₁ = 1994 NM₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	265.84466		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.29194506	ω	91.98305	-0.17658653	+0.98421477		
<i>a</i>	2.2504461	Ω	167.82683	-0.92379914	-0.16159650		
<i>e</i>	0.1606367	<i>i</i>	3.19928	-0.33972393	-0.07216556		
<i>P</i>	3.38	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1994 07 04	010	1.6+	1.8-	2000 02 27	703	0.1-	0.3-
1994 07 04	010	0.2+	0.7-	2000 02 27	703	0.7+	1.2+
1994 07 04	010	0.4+	1.1-	2000 02 29	704	0.1+	0.2+
1994 07 05	010	0.7+	0.1+	2000 02 29	704	0.5+	0.4-
1994 07 05	010	(2.7+	0.5+)	2000 02 29	704	0.6+	0.3+
1994 07 05	010	0.3+	0.1+	2000 02 29	704	0.1-	0.1-
1994 07 08	010	1.3-	1.8+	2000 02 29	704	0.7-	0.3-
1994 07 08	010	1.1-	1.0+	2000 03 03	704	0.8-	0.3+
1994 07 08	010	0.8-	0.9+	2000 03 03	704	0.3-	0.4+
2000 02 27	703	0.3-	0.1+	2000 03 03	704	0.2+	0.8+
2000 02 27	703	0.2+	0.6+	2000 03 03	704	0.7+	0.1+

2000 DK₂₂ = 1998 SV₁₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	54.51982		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.23662996	ω	296.06304	+0.12471574	-0.99021555		
<i>a</i>	2.5887467	Ω	146.58738	+0.94610716	+0.09967975		
<i>e</i>	0.0930066	<i>i</i>	6.52787	+0.29887660	+0.09765817		
<i>P</i>	4.17	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 09 26	704	1.7-	0.6+	2000 02 27	703	0.2+	0.3-
1998 09 26	704	0.7-	0.4-	2000 02 27	703	0.3+	0.0
1998 09 26	704	0.4+	1.5-	2000 02 27	703	0.4-	1.0-
1998 09 26	704	0.7-	0.3-	2000 02 27	703	0.0	0.7+
1998 09 26	704	(2.3-	0.9+)	2000 02 29	704	0.1+	0.2+
1998 09 27	704	1.3+	0.7+	2000 02 29	704	0.6+	0.1-
1998 09 27	704	1.3+	0.0	2000 02 29	704	0.5+	0.7-
1998 09 27	704	0.2+	0.9+	2000 02 29	704	0.3-	0.4-

2000 DW₂₂ = 1998 SM₁₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	82.98733		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.18343850	ω	57.92207	+0.80581463	-0.59086135		
<i>a</i>	3.0676730	Ω	338.21736	+0.50131570	+0.71601687		
<i>e</i>	0.2322746	<i>i</i>	6.08162	+0.31519098	+0.37175625		
<i>P</i>	5.37	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 09 17	699	0.7-	0.5+	1998 10 12	699	0.7-	0.6+
1998 09 17	699	0.0	1.8+	1998 10 12	699	1.1+	0.1-
1998 09 17	699	0.9-	1.3+	2000 02 29	704	0.4-	0.6-
1998 09 26	704	1.4-	0.3-	2000 02 29	704	0.2-	0.3-
1998 09 26	704	0.3+	1.1+	2000 02 29	704	0.5-	0.3-
1998 09 26	704	1.3+	0.3-	2000 02 29	704	0.3+	0.1+
1998 09 26	704	0.6+	0.1-	2000 02 29	704	0.4-	0.3+
1998 09 27	704	0.8-	0.1+	2000 03 03	704	0.6+	0.1-
1998 09 27	704	0.3+	1.0-	2000 03 03	704	1.4+	1.3-
1998 09 27	704	0.4-	0.9-	2000 03 03	704	1.6+	0.7+
1998 09 27	704	0.3+	1.1-	2000 03 03	704	1.3+	0.3-
1998 09 27	704	1.2+	1.8-	2000 03 06	704	0.2+	0.5-
1998 10 12	699	0.2-	0.5+	2000 03 06	704	0.7-	1.0-

2000 DB₂₃ = 1994 RF₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	73.88597		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.24468670	ω	76.70637	+0.59994785	-0.79537291		
<i>a</i>	2.5316042	Ω	335.78508	+0.62814803	+0.53509022		
<i>e</i>	0.1842379	<i>i</i>	12.14348	+0.49547214	+0.28471107		
<i>P</i>	4.03	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1994 09 03	809	1.6+	0.1-	2000 02 11	704	0.8-	1.1-
1994 09 03	809	0.3+	0.5-	2000 02 27	703	0.0	1.0+
1994 09 03	809	1.6-	0.6+	2000 02 27	703	0.3-	0.6-
1994 09 04	809	0.1-	0.1-	2000 02 27	703	0.2-	0.4-
1994 09 04	809	0.2+	0.0	2000 02 27	703	0.4-	0.3+
1994 09 04	809	0.4-	0.0	2000 02 29	704	0.5+	0.7-
2000 02 03	704	0.4+	1.1+	2000 02 29	704	0.2+	1.3-
2000 02 03	704	0.6+	0.5+	2000 02 29	704	0.2+	0.7+
2000 02 03	704	1.0-	0.4+	2000 02 29	704	0.2+	1.1-
2000 02 03	704	0.6+	0.7+	2000 02 29	704	1.2+	1.0-
2000 02 11	704	0.2-	0.4-	2000 03 03	704	0.6-	0.0
2000 02 11	704	0.7+	0.1+	2000 03 03	704	0.3+	0.4-
2000 02 11	704	1.0-	1.3-	2000 03 03	704	0.2-	0.2+

2000 DF₂₄ = 1995 BE₁₁ = 1996 KX₅ = 1997 NO₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	171.04561		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.19570392	ω	342.47210	+0.90473027	+0.42597320		
<i>a</i>	2.9381211	Ω	352.31337	-0.38795104	+0.82086769		
<i>e</i>	0.1133811	<i>i</i>	1.35268	-0.17594639	+0.38042484		
<i>P</i>	5.04	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1995 01 29	691	0.2-	0.5-	1997 07 14	910	0.5+	1.0-
1995 01 29	691	0.2-	0.6-	1997 07 14	910	0.4+	1.1-
1995 01 29	691	0.3-	0.4-	2000 02 04	704	0.0	0.1+
1995 02 01	691	0.1+	0.2-	2000 02 04	704	1.1+	0.1-
1995 02 01	691	0.4-	0.2-	2000 02 04	704	0.1-	0.0
1995 02 01	691	0.0	0.4-	2000 02 04	704	0.2-	1.2+
1996 04 17	809	(0.6+	4.5-)	2000 02 04	704	0.0	1.4+
1996 04 17	809	(0.6-	5.5-)	2000 02 25	703	0.1-	0.0
1996 04 17	809	(0.1-	5.5-)	2000 02 25	703	1.8-	0.5-
1996 05 19	809	0.7+	0.7+	2000 02 25	703	(2.1+	1.2+)
1996 05 19	809	0.2-	1.0+	2000 02 25	703	1.6-	0.7+
1996 05 19	809	0.1+	0.1-	2000 02 27	691	0.1+	0.2-
1996 05 22	809	(0.7+	2.7+)	2000 02 27	691	0.1+	0.3-
1996 05 22	809	(0.1-	2.5+)	2000 02 27	691	0.1+	0.2-
1996 05 22	809	(0.3-	2.9+)	2000 02 29	704	0.2-	0.4+
1997 07 13	910	0.3+	1.1-	2000 02 29	704	0.7+	0.7+
1997 07 13	910	0.3+	1.1-	2000 02 29	704	0.9-	0.8-
1997 07 13	910	0.3+	0.9-	2000 02 29	704	0.7+	0.8-
1997 07 14	910	0.5+	1.0-	2000 03 03	704	0.3+	0.9-

2000 DY₂₄ = 1994 PS₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	286.57498		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28782046	ω	89.84400	-0.41994131	+0.90491667		
<i>a</i>	2.2718951	Ω	154.96598	-0.88402906	-0.39064674		
<i>e</i>	0.1856192	<i>i</i>	9.39860	-0.20528496	-0.16888146		
<i>P</i>	3.42	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1994 08 10	809	0.8+	0.1-	2000 02 29	704	1.0-	0.2-
1994 08 10	809	1.0+	1.0+	2000 03 03	704	1.0-	0.2-
1994 08 10	809	1.2+	0.5+	2000 03 03	704	0.7+	0.3-
1994 08 11	809	1.1-	0.4-	2000 03 03	704	0.4+	0.8-

2000 MAR. 20

1994 08 11	809	0.6−	0.6−	2000 03 03	704	0.5+	0.7−	2000 03 11	704	0.6+	1.1−
1994 08 11	809	0.4−	0.2−	2000 03 04	704	0.6−	0.5+	2000 03 11	704	0.6+	0.3−
1994 09 03	809	(2.2−	2.3−)	2000 03 04	704	0.4−	0.0	2000 03 11	704	0.5−	0.4+
1994 09 03	809	0.6−	0.3−	2000 03 04	704	0.6−	0.1−	2000 03 11	691	0.3+	0.6−
1994 09 03	809	0.1−	0.3−	2000 03 04	704	1.2−	0.1−	2000 03 11	691	0.0	0.3−
2000 02 29	704	0.1−	0.5−	2000 03 05	704	0.9+	0.4−	2000 03 11	691	0.2+	1.4+
2000 02 29	704	0.1−	0.3+	2000 03 05	704	0.3+	0.6+	2000 03 12	691	0.2−	0.0
2000 02 29	704	0.2−	1.3+	2000 03 05	704	0.1+	1.0+	2000 03 12	691	0.5−	0.1−
2000 02 29	704	0.1+	0.0	2000 03 05	704	0.9+	0.6+	2000 03 12	691	0.3−	0.1+

2000 DD₂₅ = 1998 QW₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.27273497	<i>ω</i>	214.40455	+0.93737810	−0.34758830		
<i>a</i>	2.3549164	<i>Ω</i>	165.88306	+0.33668574	+0.88767329		
<i>e</i>	0.1478154	<i>i</i>	5.28483	+0.08924696	+0.30202402		
<i>P</i>	3.61	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.0	0.9−	1998 08 26	699	0.1+	0.4+	2000 03 03	704	0.4+	0.0
1998 08 17	704	0.3+	0.0	1998 08 26	120	0.5−	0.2+	2000 03 03	704	0.2+	0.5−
1998 08 17	704	0.3−	0.4−	1998 08 26	120	(3.0+	0.2−)	2000 03 05	704	0.0	0.3+
1998 08 17	704	0.5+	1.2+	1998 08 26	120	1.8+	0.4+	2000 03 05	704	0.2+	0.0
1998 08 17	704	(0.4+	2.3+)	2000 02 29	704	0.8−	0.8−	2000 03 05	704	0.3−	0.4−
1998 08 23	704	0.9−	0.0	2000 02 29	704	0.0	0.7−	2000 03 05	704	0.0	0.2−
1998 08 23	704	(0.6+	2.5−)	2000 02 29	704	0.3−	0.0	2000 03 05	704	0.2−	0.0
1998 08 23	704	0.8−	0.2−	2000 02 29	704	1.0+	0.4+	2000 03 11	704	0.1−	0.2+
1998 08 23	704	0.6−	0.4+	2000 02 29	704	0.4−	0.8+	2000 03 11	704	0.0	0.0
1998 08 23	704	0.2−	1.4−	2000 03 03	704	0.9−	1.1−	2000 03 11	704	0.1+	0.4+
1998 08 26	699	0.4+	0.1−	2000 03 03	704	0.7+	0.5+	2000 03 11	704	0.5+	0.1+
1998 08 26	699	0.1+	0.6+	2000 03 03	704	0.0	0.7+	2000 03 11	704	0.1+	0.7+

2000 DH₂₅ = 1996 FY₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.23489434	<i>ω</i>	8.43684	−0.99650472	−0.08140860		
<i>a</i>	2.6014831	<i>Ω</i>	166.84968	+0.07103147	−0.94377909		
<i>e</i>	0.0359554	<i>i</i>	4.72350	+0.04396446	−0.32039611		
<i>P</i>	4.20	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 03 18	691	0.8−	0.3+	2000 02 02	704	0.3−	0.5−	2000 03 05	704	0.9+	0.1+
1996 03 18	691	0.7−	0.1+	2000 02 02	704	0.2+	0.6+	2000 03 05	704	0.6−	0.1+
1996 03 18	691	0.7−	0.3+	2000 02 29	704	0.3+	0.2−	2000 03 05	704	0.1−	0.2+
1996 03 19	566	1.5+	0.5−	2000 02 29	704	0.6+	0.5+	2000 03 05	704	0.4+	0.1−
1996 03 19	566	1.3+	0.2−	2000 02 29	704	0.5+	0.8−	2000 03 05	704	0.2+	0.1−
1996 03 19	566	1.3+	0.2+	2000 02 29	704	0.2+	0.1+	2000 03 11	704	0.1−	0.4−
1996 03 26	691	0.7−	0.0	2000 02 29	704	0.1+	1.0−	2000 03 11	704	0.0	0.0
1996 03 26	691	0.4−	0.1+	2000 03 03	704	0.2+	0.0	2000 03 11	704	0.5−	0.5+
1996 03 26	691	0.8−	0.3−	2000 03 03	704	0.1−	0.1+	2000 03 11	704	0.3−	0.4+
2000 02 02	704	1.1−	0.3+	2000 03 03	704	0.2+	0.2+				
2000 02 02	704	0.7−	0.0	2000 03 03	704	0.2−	0.3+				

2000 DQ₂₅ = 1997 PB₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.19166719	<i>ω</i>	86.31134	−0.49189254	+0.86590536		
<i>a</i>	2.9792311	<i>Ω</i>	153.60587	−0.85770223	−0.46400190		
<i>e</i>	0.0561930	<i>i</i>	11.78948	−0.14962825	−0.18684256		
<i>P</i>	5.14	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 08 03	327	0.2+	0.7+	2000 02 25	703	(2.8+	2.1+)	2000 03 03	704	0.1+	0.3+
1997 08 03	327	0.2+	0.6+	2000 02 25	703	0.9−	0.2−	2000 03 05	704	0.2+	0.6−
1997 08 03	327	1.3+	0.0	2000 02 25	703	0.9+	1.5+	2000 03 05	704	1.0−	0.7−

M.P.C. 39447

1997 08 05	327	0.8−	0.2+	2000 02 29	704	0.2+	0.2+	2000 03 05	704	0.1−	0.4−
1997 08 05	327	1.0−	1.4−	2000 02 29	704	0.4+	0.0	2000 03 05	704	0.0	0.6+
1997 08 05	327	0.1+	0.0	2000 02 29	704	0.1+	0.7+	2000 03 05	704	1.1+	0.3−
2000 02 02	704	0.6+	1.7−	2000 02 29	704	0.7+	0.9+	2000 03 10	691	0.2−	0.4−
2000 02 02	704	0.2−	0.1−	2000 03 03	704	0.5−	0.1−	2000 03 10	691	0.3−	0.7−
2000 02 02	704	0.6−	0.6+	2000 03 03	704	0.1−	0.3+	2000 03 10	691	0.2−	0.6−
2000 02 25	703	0.3−	0.8+	2000 03 03	704	0.0	0.2−				

2000 DZ₂₅ = 1998 SA₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.26908795	<i>ω</i>	163.91073	−0.83937103	−0.54255242		
<i>a</i>	2.3761465	<i>Ω</i>	343.10795	+0.48532204	−0.72066088		
<i>e</i>	0.0781539	<i>i</i>	6.53363	+0.24478316	−0.43160719		
<i>P</i>	3.66	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 16	699	0.1+	1.2+	1999 12 15	704	0.4+	0.2−	2000 02 29	704	0.1−	0.6+
1998 09 16	699	0.4−	0.1+	1999 12 15	704	0.4−	0.4−	2000 02 29	704	0.5+	0.4+
1998 09 16	699	0.5+	0.6+	2000 02 03	704	0.6+	0.5+	2000 03 03	704	0.1+	0.2+
1998 09 26	704	0.5+	1.0−	2000 02 03	704	0.2+	0.2−	2000 03 03	704	0.2+	0.9−
1998 09 26	704	1.5−	0.2−	2000 02 03	704	0.2+	0.2+	2000 03 03	704	0.5+	1.2−
1998 09 26	704	0.6−	0.8−	2000 02 03	704	0.6+	0.4−	2000 03 03	704	0.8+	1.2−
1998 09 26	704	0.5−	1.3+	2000 02 03	704	0.4+	0.0	2000 03 05	704	0.2−	0.6+
1998 09 27	704	0.2+	0.3−	2000 02 03	684	0.6−	0.6+	2000 03 05	704	0.3+	0.1−
1998 09 27	704	0.4+	0.4+	2000 02 03	684	0.7−	0.5+	2000 03 05	704	0.4+	0.6+
1998 09 27	704	0.3−	0.6+	2000 02 06	703	0.3−	0.4+	2000 03 05	704	0.5+	0.4+
1998 09 27	704	0.4+	0.2+	2000 02 06	703	0.0	0.3+	2000 03 05	704	0.2+	0.0
1998 09 27	704	0.0	0.3+	2000 02 06	703	0.1−	0.1+	2000 03 08	704	0.3+	0.3−
1999 11 16	704	0.4−	0.2−	2000 02 06	703	0.2+	0.1+	2000 03 08	704	0.1+	0.4+
1999 11 16	704	0.6+	0.3−	2000 02 11	704	0.2−	0.2−	2000 03 08	704	0.6+	1.0+
1999 11 16	704	0.3−	0.9−	2000 02 11	704	0.1+	0.1−	2000 03 08	704	0.2−	0.3+
1999 11 16	704	0.4+	0.9+	2000 02 11	704	0.3+	0.1−	2000 03 08	704	0.6−	0.1+
1999 12 06	704	0.7−	1.8−	2000 02 11	704	0.2−	0.4−	2000 03 11	704	0.9−	0.4+
1999 12 06	704	0.8−	0.4−	2000 02 11	704	0.1−	0.1+	2000 03 11	704	0.0	0.0
1999 12 06	704	1.3−	0.5−	2000 02 29	704	0.2−	0.6+	2000 03 11	704	0.7+	0.6−
1999 12 06	704	0.7−	0.6−	2000 02 29	704	0.1+	0.5+	2000 03 11	704	0.0	0.2+
1999 12 15	704	0.1+	1.0+	2000 02 29	704	0.1+	0.4+	2000 03 11	704	0.7−	0.2+

2000 DC₂₆ = 1998 UL₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.28310334	<i>ω</i>	52.98088	+0.82921569	−0.55796206		
<i>a</i>	2.2970620	<i>Ω</i>	340.86549	+0.47568493	+0.73536359		
<i>e</i>	0.1281452	<i>i</i>	5.75318	+0.29347092	+0.38460203		
<i>P</i>	3.48	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.5+	1.1−	2000 02 27	691	0.3−	0.1−	2000 03 05	704	0.1+	0.4−
1998 08 17	704	(1.9−	2.8−)	2000 02 27	691	0.3−	0.2−	2000 03 05	704	0.1+	0.6+
1998 08 17	704	(3.5−	0.0)	2000 02 27	691	0.3−	0.1−	2000 03 05	704	0.3−	0.5+
1998 08 17	704	0.1−	0.9+	2000 02 29	704	0.6−	0.2+	2000 03 05	704	0.0	0.8−
1998 10 20	910	0.1−	0.2−	2000 02 29	704	0.3+	0.1−	2000 03 11	704	0.1+	0.2−
1998 10 20	910	0.0	0.1+	2000 02 29	704	0.1−	0.1−	2000 03 11	704	0.4−	0.5+
1998 10 20	910	0.1−	0.5+	2000 02 29	704	0.4−	1.1−	2000 03 11	704	0.1+	1.1+
1998 10 21	910	0.2−	0.0	2000 02 29	704	0.0	0.5−	2000 03 11	704	0.2+	1.4+
1998 10 21	910	0.2−	0.2−	2000 03 03	704	0.4−	0.8−	2000 03 11	704	0.4−	0.8+
1998 10 21	910	0.1−	0.1+	2000 03 03	704	0.7+	1.0−	2000 03 11	691	0.1+	0.1−
2000 02 25	703	0.0	0.8+	2000 03 03	704	0.8+	0.5+	2000 03 11	691	0.1+	0.0
2000 02 25	703	1.4+	1.3−	2000 03 03	704	0.7−	1.1+	2000 03 11	691	0.0	0.1−
2000 02 25	703	0.4−	0.1−	2000 03 03	704	0.3−	1.1+				
2000 02 25	703	1.2+	1.6−	2000 03 05	704	0.2−	0.2+				

2000 DM₂₆ = 1993 QF₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	82.77651	(2000.0)	P		Q	
<i>n</i>	0.21512784	ω	269.52465	+0.49710365	-0.86520283	
<i>a</i>	2.7584914	Ω	150.37707	+0.83954813	+0.46048303	
<i>e</i>	0.0640270	<i>i</i>	7.63427	+0.21919602	+0.19844254	
<i>P</i>	4.58	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1993 08 15	809	(2.1+ 2.6+)	1998 12 11	699	0.2- 0.6+	2000 03 04	704	0.2+ 0.0
1993 08 15	809	(1.0+ 2.2+)	1999 12 05	703	0.3- 0.0	2000 03 04	704	0.4+ 0.4-
1993 08 15	809	1.0+ 1.6+	1999 12 05	703	0.0 0.0	2000 03 04	704	0.5+ 0.0
1993 08 18	010	0.2+ 1.5-	1999 12 05	703	0.3+ 1.5-	2000 03 04	704	0.6+ 0.5-
1993 08 19	010	2.0+ 0.8-	1999 12 05	703	0.7+ 0.5-	2000 03 04	704	0.7+ 0.1-
1993 08 19	010	1.3+ 1.8-	2000 02 25	703	0.9- 0.2+	2000 03 05	704	0.1- 0.1+
1993 08 19	010	(1.8+ 2.6-)	2000 02 25	703	0.4- 0.6+	2000 03 05	704	0.0 0.2-
1993 08 20	809	(4.2+ 2.4+)	2000 02 25	703	0.5- 0.4+	2000 03 05	704	0.0 0.1+
1993 08 20	809	(3.6+ 2.8+)	2000 02 25	703	0.7- 0.1-	2000 03 05	704	0.1- 0.2+
1993 08 20	809	(3.4+ 2.5+)	2000 02 29	704	0.0 0.3+	2000 03 05	704	0.3- 0.2+
1993 08 24	809	1.2- 1.3-	2000 02 29	704	0.2- 0.5+	2000 03 09	691	0.1- 0.3-
1993 08 24	809	0.3- 0.8-	2000 02 29	704	0.4- 0.2+	2000 03 09	691	0.1+ 0.3-
1993 08 24	809	1.1- 1.0-	2000 02 29	704	0.1+ 0.2+	2000 03 09	691	0.1+ 0.4-
1998 10 12	699	0.4- 1.0+	2000 02 29	704	0.3+ 0.2+	2000 03 11	704	0.1+ 0.2+
1998 10 12	699	0.3+ 0.3+	2000 03 03	704	0.1+ 0.1-	2000 03 11	704	0.1+ 0.0
1998 10 12	699	0.6- 0.9+	2000 03 03	704	0.1- 0.8-	2000 03 11	704	0.2+ 0.0
1998 11 13	704	1.7+ 0.2+	2000 03 03	704	0.2- 0.2+	2000 03 11	704	0.1- 0.2+
1998 11 13	704	1.0+ 0.0	2000 03 03	704	0.1- 0.1-	2000 03 11	704	0.0 0.1-
1998 11 13	704	(2.0+ 2.4-)	2000 03 03	704	0.3+ 0.3-	2000 03 12	691	0.3- 0.5-
1998 11 13	704	0.4- 0.8-	2000 03 03	704	0.3+ 0.3+	2000 03 12	691	0.4- 0.4-
1998 11 13	704	0.5- 1.0-	2000 03 03	704	0.2+ 0.7-	2000 03 12	691	0.4- 0.4-
1998 12 11	699	1.3- 0.2+	2000 03 03	704	0.6- 1.2-			
1998 12 11	699	0.2- 0.6+	2000 03 03	704	0.1+ 0.7-			

2000 DN₂₆ = 1996 JM₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	80.74978	(2000.0)	P		Q	
<i>n</i>	0.21120421	ω	269.42279	+0.44274640	-0.89587427	
<i>a</i>	2.7925503	Ω	154.19609	+0.85291534	+0.40798614	
<i>e</i>	0.0516364	<i>i</i>	4.90439	+0.27660631	+0.17594491	
<i>P</i>	4.67	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1996 05 12	691	0.1+ 0.5-	2000 02 29	704	0.3+ 0.0	2000 03 10	691	0.2- 0.4-
1996 05 12	691	0.5- 0.3+	2000 02 29	704	0.5+ 0.4-	2000 03 10	691	0.4- 0.4-
1996 05 12	691	0.3- 0.2+	2000 02 29	704	0.4- 0.2-	2000 03 10	691	0.4- 0.2-
1996 05 18	691	0.5+ 0.2+	2000 03 03	704	0.2+ 0.3-	2000 03 10	691	0.6- 0.2-
1996 05 18	691	0.1+ 0.2-	2000 03 03	704	1.2- 0.2-	2000 03 11	691	0.3- 0.1+
1996 05 18	691	0.3+ 0.0	2000 03 03	704	0.4+ 0.4+	2000 03 11	691	0.0 0.3+
2000 02 02	704	0.9+ 0.2+	2000 03 03	704	0.2- 0.0	2000 03 11	691	0.3- 0.3+
2000 02 02	704	0.5- 0.8-	2000 03 03	704	0.2+ 1.4+	2000 03 12	691	0.6+ 0.0
2000 02 02	704	0.3+ 0.6+	2000 03 10	691	0.2+ 0.6-	2000 03 12	691	0.8+ 0.1-
2000 02 29	704	0.5- 0.6+	2000 03 10	691	0.2+ 0.3-	2000 03 12	691	0.7+ 0.0

2000 DZ₂₆ = 1998 TR₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	356.33667	(2000.0)	P		Q	
<i>n</i>	0.21408786	ω	259.24888	-0.91486631	-0.40366374	
<i>a</i>	2.7674175	Ω	256.94325	+0.37383208	-0.83874913	
<i>e</i>	0.1445080	<i>i</i>	0.51012	+0.15254248	-0.36545245	
<i>P</i>	4.60	<i>H</i>	15.7	<i>G</i> 0.15	<i>U</i> 6	

Residuals in seconds of arc

1998 10 13	691	0.1- 0.0	1998 10 23	691	0.1- 0.0	2000 03 03	704	0.8+ 0.2+
1998 10 13	691	0.2+ 0.0	2000 02 29	704	0.5- 0.3-	2000 03 03	704	0.9+ 0.8+
1998 10 13	691	0.1- 0.0	2000 02 29	704	0.5- 0.4-	2000 03 03	704	0.7+ 0.2-

1998 10 18	691	0.3+ 0.2-	2000 02 29	704	0.6- 0.3-	2000 03 05	704	0.2+ 0.0
1998 10 18	691	0.0 0.3-	2000 02 29	704	0.0 0.5+	2000 03 05	704	1.2- 0.8-
1998 10 18	691	0.2+ 0.1+	2000 02 29	704	0.1+ 0.1-	2000 03 05	704	0.5- 0.5+
1998 10 23	691	0.6- 0.4+	2000 03 03	704	0.1+ 0.4-	2000 03 05	704	0.0 0.0
1998 10 23	691	0.4+ 0.1-	2000 03 03	704	0.5+ 0.5+			

2000 DK₂₇ = 1993 FM₂₄ = 1998 SH₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	298.65181	(2000.0)	P		Q	
<i>n</i>	0.27186565	ω	339.39022	-0.74639019	+0.66477012	
<i>a</i>	2.3599338	Ω	242.31432	-0.60552921	-0.69790710	
<i>e</i>	0.0828787	<i>i</i>	2.02842	-0.27610878	-0.26647019	
<i>P</i>	3.63	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1993 03 21	809	0.3- 0.4+	2000 02 02	704	0.9- 0.6-	2000 03 06	704	0.0 0.2-
1993 03 22	809	0.0 0.4+	2000 02 02	704	0.3- 0.3+	2000 03 06	704	0.5- 0.0
1993 03 26	809	0.3+ 0.7-	2000 02 29	704	0.2- 0.1+	2000 03 06	704	0.9- 0.3+
1998 09 21	691	0.6- 0.2-	2000 02 29	704	0.6+ 0.2-	2000 03 09	608	0.4- 0.9-
1998 09 21	691	0.1- 0.3-	2000 02 29	704	0.0 0.1+	2000 03 09	608	0.1- 1.0-
1998 09 21	691	0.3- 0.2+	2000 02 29	704	0.3- 0.1-	2000 03 09	608	0.0 0.3-
1998 09 27	691	0.2+ 0.2+	2000 02 29	704	0.2+ 0.5+	2000 03 11	704	0.9+ 0.0
1998 09 27	691	0.4+ 0.0	2000 03 03	704	0.1- 0.2+	2000 03 11	704	0.2- 0.3+
1998 09 27	691	0.4+ 0.1+	2000 03 03	704	0.0 0.1+	2000 03 11	704	0.1- 0.6+
2000 02 02	704	0.1+ 0.5+	2000 03 03	704	0.2+ 0.0	2000 03 11	704	0.1+ 0.1-
2000 02 02	704	0.6+ 0.2+	2000 03 03	704	0.6+ 0.0			
2000 02 02	704	0.2+ 0.1+	2000 03 03	704	0.3+ 0.0			

2000 DM₂₈ = 1997 SC₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	227.44891	(2000.0)	P		Q	
<i>n</i>	0.17602490	ω	311.73452	+0.38012771	+0.92444418	
<i>a</i>	3.1532130	Ω	340.54410	-0.81952960	+0.32154448	
<i>e</i>	0.1200579	<i>i</i>	5.18441	-0.42880549	+0.20496854	
<i>P</i>	5.60	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1997 09 23	691	0.1+ 0.0	2000 02 29	704	1.2+ 0.3+	2000 03 06	704	0.4- 0.3-
1997 09 23	691	0.3+ 0.0	2000 02 29	704	0.5- 0.3-	2000 03 06	704	0.4- 0.3-
1997 09 23	691	0.5+ 0.0	2000 02 29	704	0.1- 1.0-	2000 03 06	704	0.2- 0.1+
1997 09 29	691	0.2- 0.1-	2000 02 29	704	0.0 0.7-	2000 03 06	704	0.2+ 0.2+
1997 09 29	691	0.3- 0.1-	2000 03 03	704	0.5+ 0.1+	2000 03 09	704	0.8+ 0.7+
1997 09 29	691	0.4- 0.1+	2000 03 03	704	0.9+ 0.3-	2000 03 09	704	0.1+ 0.3-
2000 02 11	704	0.1+ 0.8+	2000 03 03	704	0.2+ 0.6+	2000 03 09	691	0.0 0.6-
2000 02 11	704	0.6+ 0.9-	2000 03 03	704	0.1+ 0.7+	2000 03 09	704	0.3- 0.2+
2000 02 11	704	0.5+ 0.0	2000 03 03	704	0.3+ 0.5+	2000 03 09	691	0.0 0.6-
2000 02 11	704	1.2- 0.2+	2000 03 05	704	0.2- 0.2-	2000 03 09	691	0.2+ 0.6-
2000 02 25	703	0.4- 0.8+	2000 03 05	704	0.0 0.2-	2000 03 11	704	0.2- 0.1-
2000 02 25	703	0.4- 0.8+	2000 03 05	704	0.4- 0.1-	2000 03 11	704	0.6+ 0.4+
2000 02 25	703	0.7- 0.3+	2000 03 05	704	0.3- 0.3+	2000 03 11	704	0.6- 0.5+
2000 02 25	703	(2.2+ 0.5+)	2000 03 05	704	0.4- 0.5-	2000 03 11	704	0.3- 0.0
2000 02 29	704	0.5+ 0.4-	2000 03 06	704	0.1- 0.7-	2000 03 11	704	0.2- 0.4+

2000 DB₂₉ = 1998 XW₆₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	120.79910	(2000.0)	P		Q	
<i>n</i>	0.18286059	ω	44.29288	+0.93502117	-0.34881304	
<i>a</i>	3.0741329	Ω	335.90282	+0.26618866	+0.80925905	
<i>e</i>	0.1096073	<i>i</i>	8.98386	+0.23426268	+0.47268303	
<i>P</i>	5.39	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 12 14	704	1.0+ 1.5-	2000 03 03	704	0.7+ 0.5+	2000 03 09	704	1.7- 0.4+
1998 12 14	704	0.8+ 0.0	2000 03 03	704	0.4- 0.3-	2000 03 09	704	0.2- 0.5+
1998 12 14	704	1.3+ 1.3+	2000 03 03	704	0.0 0.3+	2000 03 10	691	0.0 0.2+

2000 MAR. 20

M.P.C. 39449

1998 12 14	704	0.8−	0.1−	2000 03 03	704	0.4+	0.2+	2000 03 10	691	0.1−	0.1+
1998 12 17	704	0.2−	1.4+	2000 03 05	704	1.1+	1.1−	2000 03 10	691	0.0	0.1+
1998 12 17	704	0.6−	0.6−	2000 03 05	704	0.2−	0.9+	2000 03 11	704	0.5+	0.2+
1998 12 17	704	0.8−	1.3−	2000 03 05	704	0.1+	0.4−	2000 03 11	704	0.5−	0.6−
1998 12 17	704	0.8−	0.8+	2000 03 05	704	1.1+	0.1+	2000 03 11	704	0.9+	0.5−
2000 02 06	695	0.5−	0.5−	2000 03 06	704	0.3+	0.9+	2000 03 11	699	0.7−	0.4+
2000 02 06	695	0.6−	0.7−	2000 03 06	704	0.2+	0.6+	2000 03 11	699	0.0	1.5−
2000 02 29	704	0.3+	0.4+	2000 03 06	704	0.2+	0.6+	2000 03 11	699	0.1−	0.4−
2000 02 29	704	0.7−	0.4+	2000 03 06	704	0.3+	0.6+	2000 03 11	699	1.4−	0.9−
2000 02 29	704	0.2+	0.3+	2000 03 06	704	0.1−	0.7+	2000 03 12	691	0.1−	0.1−
2000 02 29	704	0.1+	0.4+	2000 03 09	704	1.0−	0.2+	2000 03 12	691	0.1−	0.3−
2000 02 29	704	0.6+	0.1−	2000 03 09	704	0.3+	1.3−	2000 03 12	691	0.1+	0.3−
2000 03 03	704	0.5+	0.2+	2000 03 09	704	0.4+	0.3−				

2000 DD₂₉ = 1993 RF₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	199.64293		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.22332690	ω	338.31979	+0.70976180	+0.70408060
<i>a</i>	2.6905560	Ω	336.87628	−0.63758001	+0.62845112
<i>e</i>	0.0920200	<i>i</i>	3.29237	−0.29954951	+0.33063529
<i>P</i>	4.41	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1993 09 14	809	(2.6+	2.4+)	1998 11 24	704	(3.0−	0.3−)	2000 03 03	704	0.2−	0.1−
1993 09 14	809	0.2+	1.4+	2000 02 04	704	0.6−	1.3−	2000 03 03	704	0.3+	0.2+
1993 09 14	809	0.2−	0.8+	2000 02 04	704	1.0−	0.1−	2000 03 03	704	0.4+	0.1−
1993 09 19	809	1.5−	0.7+	2000 02 04	704	0.8+	0.4+	2000 03 03	704	0.6−	1.0−
1993 09 19	809	0.2+	0.6+	2000 02 25	703	0.5−	0.4+	2000 03 05	704	0.9+	0.4+
1993 09 19	809	0.5−	0.1−	2000 02 25	703	0.6+	0.4+	2000 03 05	704	0.6+	0.7+
1998 11 21	704	0.2−	1.7+	2000 02 25	703	0.4+	0.1+	2000 03 05	704	0.2−	0.6+
1998 11 21	704	0.5+	1.0−	2000 02 25	703	0.6−	0.5−	2000 03 05	704	0.2+	0.6+
1998 11 21	704	(1.4−	2.0+)	2000 02 29	704	0.5+	0.5+	2000 03 10	691	0.4−	0.2+
1998 11 21	704	(4.4−	1.0+)	2000 02 29	704	0.5+	0.4+	2000 03 10	691	0.4−	0.3+
1998 11 24	704	0.4+	0.0	2000 02 29	704	1.5+	0.3−	2000 03 10	691	0.7−	0.4+
1998 11 24	704	0.7+	0.8−	2000 02 29	704	0.6+	1.4+	2000 03 12	691	0.4−	0.1−
1998 11 24	704	1.1−	1.4−	2000 02 29	704	0.2+	0.0	2000 03 12	691	0.4−	0.0
1998 11 24	704	(2.6−	1.8−)	2000 03 03	704	0.2+	0.4+	2000 03 12	691	0.3−	0.1+

2000 DF₂₉ = 1998 XW₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	140.67039		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17424314	ω	217.06287	+0.99803843	−0.01256271
<i>a</i>	3.1746725	Ω	143.51194	+0.03155923	+0.94703420
<i>e</i>	0.1577695	<i>i</i>	5.91983	−0.05406766	+0.32088690
<i>P</i>	5.66	<i>H</i>	13.2	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 12 15	704	0.3−	0.6+	2000 02 04	704	0.8−	0.6+	2000 03 03	704	0.2+	0.6+
1998 12 15	704	0.7−	0.5+	2000 02 04	704	1.7+	0.8−	2000 03 06	704	0.6+	0.2+
1998 12 15	704	0.5−	0.5+	2000 02 04	704	0.4−	0.1+	2000 03 06	704	0.4+	0.0
1998 12 15	704	0.4+	0.5+	2000 02 04	704	0.2−	0.1+	2000 03 06	704	0.3+	0.3+
1998 12 15	704	0.0	0.4+	2000 02 29	704	0.0	0.6+	2000 03 06	704	0.0	0.3−
1998 12 16	704	0.2+	0.3+	2000 02 29	704	0.2+	0.1−	2000 03 06	704	0.2+	0.3+
1998 12 16	704	0.5−	0.5+	2000 02 29	704	0.1−	0.3+	2000 03 11	704	0.4−	0.2+
1998 12 16	704	0.4−	0.5−	2000 02 29	704	0.2−	0.3+	2000 03 11	704	0.6+	0.2−
1998 12 16	704	1.1+	0.1−	2000 02 29	704	0.5−	0.2+	2000 03 11	704	0.2+	0.0
1998 12 22	704	0.7+	0.1+	2000 03 03	704	0.2−	0.3+	2000 03 11	704	0.6−	0.4−
1998 12 22	704	0.9−	1.3−	2000 03 03	704	0.4+	0.1−	2000 03 12	691	0.5−	0.7−
1998 12 22	704	0.6+	0.6−	2000 03 03	704	0.2−	0.1+	2000 03 12	691	0.5−	0.8−
1998 12 22	704	0.2+	1.1−	2000 03 03	704	0.4+	0.1+	2000 03 12	691	0.5−	0.9−

2000 DL₂₉ = 1991 TJ₁₃ = 1997 HG

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	84.02557		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27057438	ω	332.06221	+0.70523299	−0.70894025
<i>a</i>	2.3674361	Ω	73.08842	+0.65184410	+0.64444221
<i>e</i>	0.2069089	<i>i</i>	0.42411	+0.27882915	+0.28652742
<i>P</i>	3.64	<i>H</i>	16.2	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1991 10 04	033	0.0	0.0	2000 02 11	704	0.4+	0.8+	2000 03 03	704	0.7−	0.3−
1991 10 04	033	0.5−	0.7+	2000 02 11	704	0.0	0.4+	2000 03 03	704	0.9−	0.3+
1991 10 05	033	0.3+	0.5−	2000 02 11	704	0.2+	0.1−	2000 03 03	704	0.3−	0.7+
1997 04 28	691	0.4+	0.1+	2000 02 29	704	1.2+	0.6−	2000 03 03	704	0.7+	0.7+
1997 04 28	691	0.1−	0.4−	2000 02 29	704	1.2+	0.4−	2000 03 12	691	0.6−	0.4−
1997 04 28	691	0.2+	0.0	2000 02 29	704	0.5−	0.3+	2000 03 12	691	0.4−	0.3−
1997 04 29	691	0.3−	0.2+	2000 02 29	704	1.2+	0.5−	2000 03 12	691	0.5−	0.3−
1997 04 29	691	0.0	0.4+	2000 02 29	704	0.6−	0.4+				
1997 04 29	691	0.0	0.1+	2000 03 03	704	0.3−	0.7−				

2000 DV₂₉ = 1993 RU₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	85.21779		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21191784	ω	253.88969	+0.54610978	−0.83746299
<i>a</i>	2.7862775	Ω	162.96263	+0.79283666	+0.50880137
<i>e</i>	0.0884314	<i>i</i>	4.01015	+0.27050718	+0.19944148
<i>P</i>	4.65	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1993 09 14	809	0.4+	0.1+	2000 02 29	704	0.3+	0.4−	2000 03 05	704	1.7+	0.6+
1993 09 14	809	0.8+	0.6+	2000 02 29	704	0.4−	0.2−	2000 03 05	704	1.4+	0.2+
1993 09 14	809	0.8−	0.8−	2000 02 29	704	0.8−	0.4+	2000 03 05	704	0.3−	0.7+
1993 09 19	809	1.6+	1.2−	2000 02 29	704	0.2+	0.3+	2000 03 11	704	0.1−	0.2−
1993 09 19	809	0.2−	1.2+	2000 02 29	704	0.5+	0.3+	2000 03 11	704	0.2+	0.1−
1993 09 19	809	1.7−	0.2+	2000 03 03	704	0.4−	0.4−	2000 03 11	704	0.6−	0.2+
2000 02 25	703	(1.2−	2.6+)	2000 03 03	704	0.6−	0.2−	2000 03 11	704	0.6−	0.3−
2000 02 25	703	0.1−	0.6−	2000 03 03	704	0.3−	0.3−	2000 03 11	704	0.3+	0.7−
2000 02 25	703	0.1−	0.9−	2000 03 03	704	0.2−	0.3+				
2000 02 25	703	0.3+	0.7+	2000 03 03	704	0.5−	0.4+				

2000 DU₃₀ = 1998 VM₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	115.21211		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21307122	ω	112.83551	+0.88520828	−0.46260800
<i>a</i>	2.7762134	Ω	274.75024	+0.40675682	+0.82080616
<i>e</i>	0.1071833	<i>i</i>	2.81780	+0.22573255	+0.33506877
<i>P</i>	4.63	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 10 19	699	0.6+	1.1+	1998 11 11	704	1.2−	0.7−	2000 03 03	704	0.3−	0.6+
1998 10 19	699	0.3−	0.1−	1998 11 15	699	0.2−	0.6+	2000 03 03	704	1.1+	0.5+
1998 10 19	699	0.1−	0.0	1998 11 15	699	0.4+	0.3+	2000 03 03	704	0.1−	1.1−
1998 11 10	704	0.1−	0.2−	1998 11 15	699	0.7−	1.5+	2000 03 11	704	0.8−	0.7−
1998 11 10	704	(2.4−	2.7−)	2000 02 29	704	0.9−	0.3+	2000 03 11	704	0.5+	0.3−
1998 11 10	704	0.1−	1.6−	2000 02 29	704	0.5−	0.5+	2000 03 11	704	0.8+	0.0
1998 11 10	704	(3.0−	2.9−)	2000 02 29	704	0.3+	0.6+	2000 03 11	704	0.2−	0.0
1998 11 11	704	1.3+	0.5−	2000 02 29	704	0.3+	0.2+	2000 03 11	704	0.3+	0.4−
1998 11 11	704	0.5+	0.4−	2000 03 03	704	0.6−	0.2−				
1998 11 11	704	(0.2−	2.7−)	2000 03 03	704	0.1+	0.0				

2000 DO₃₁ = 1998 SS₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	350.06292	(2000.0)	P	Q	
<i>n</i>	0.29818984	ω 156.73576	-0.96531418	-0.26106998	
<i>a</i>	2.2189158	Ω 8.13280	+0.23571329	-0.87687810	
<i>e</i>	0.0965152	<i>i</i> 1.34304	+0.11228435	-0.40364250	
<i>P</i>	3.31	<i>H</i> 17.1	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1998 09 20	691	0.7+	0.0	1998 09 26	691	0.0	0.2-	2000 03 03	704	0.6-	0.2+
1998 09 20	691	0.2-	0.2+	2000 02 11	704	0.2-	0.4-	2000 03 03	704	0.1-	0.4+
1998 09 21	691	0.2+	0.4-	2000 02 11	704	0.1-	1.0+	2000 03 03	704	0.8-	0.2-
1998 09 21	691	0.3+	0.4+	2000 02 11	704	0.4-	0.3-	2000 03 06	704	0.2+	0.5+
1998 09 21	691	0.0	0.0	2000 02 29	704	0.9+	0.7-	2000 03 06	704	0.0	0.4+
1998 09 23	691	0.6-	0.1-	2000 02 29	704	0.5+	0.9-	2000 03 06	704	0.4+	0.0
1998 09 23	691	0.4-	0.3+	2000 02 29	704	0.7+	0.1+	2000 03 06	704	0.4+	0.8+
1998 09 23	691	0.4-	0.2-	2000 02 29	704	0.3+	0.4-	2000 03 12	691	0.2-	0.0
1998 09 26	691	0.1+	0.3-	2000 03 03	704	0.0	0.2+	2000 03 12	691	0.1-	0.1-
1998 09 26	691	0.2+	0.5+	2000 03 03	704	0.5-	0.3-	2000 03 12	691	0.2-	0.0

2000 DE₃₃ = 1998 TU₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	327.64447	(2000.0)	P	Q	
<i>n</i>	0.28067544	ω 0.36421	-0.97492225	+0.22239998	
<i>a</i>	2.3102897	Ω 192.49464	-0.20427576	-0.90865936	
<i>e</i>	0.0939048	<i>i</i> 2.13340	-0.08830646	-0.35337856	
<i>P</i>	3.51	<i>H</i> 16.2	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1998 10 14	691	0.3-	0.1-	2000 02 29	704	1.0+	0.0	2000 03 05	704	0.5-	0.3-
1998 10 14	691	0.3+	0.2-	2000 02 29	704	0.5-	0.4+	2000 03 05	704	0.8+	0.2+
1998 10 14	691	0.1-	0.0	2000 03 03	704	0.1-	0.6-	2000 03 05	704	0.7-	0.3-
1998 10 19	691	0.2+	0.2-	2000 03 03	704	0.1+	0.6+	2000 03 05	704	0.2+	1.0-
1998 10 19	691	0.0	0.1+	2000 03 03	704	1.8+	0.3+	2000 03 05	704	0.1-	0.8-
2000 02 02	704	0.8-	0.3+	2000 03 03	704	0.9+	0.1-	2000 03 11	704	0.7-	1.2+
2000 02 02	704	0.4-	0.8+	2000 03 03	704	0.4-	1.0-	2000 03 11	704	0.3-	0.0
2000 02 02	704	0.7+	0.6+	2000 03 04	704	0.6-	0.2+	2000 03 11	704	0.7-	0.5+
2000 02 29	704	0.0	0.3+	2000 03 04	704	0.2+	0.8-	2000 03 11	704	0.0	0.4-
2000 02 29	704	0.3+	0.6-	2000 03 04	704	0.8+	0.4+	2000 03 11	704	0.9-	0.3-
2000 02 29	704	0.2+	0.3+	2000 03 04	704	0.5-	0.0				

2000 DJ₃₃ = 1991 RJ₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	215.97279	(2000.0)	P	Q	
<i>n</i>	0.29292532	ω 354.39299	+0.63278963	+0.77315973	
<i>a</i>	2.2454227	Ω 314.85406	-0.70808107	+0.55560306	
<i>e</i>	0.2051696	<i>i</i> 3.43233	-0.31336638	+0.30582557	
<i>P</i>	3.36	<i>H</i> 14.4	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1991 09 13	675	1.1+	0.2+	2000 03 03	704	0.0	0.2-	2000 03 05	704	0.1+	0.2-
1991 09 13	675	0.3+	0.3+	2000 03 03	704	0.5+	0.0	2000 03 06	704	0.1+	0.9+
1991 09 15	675	0.2+	0.3+	2000 03 03	704	0.2+	0.2-	2000 03 06	704	0.6+	0.1-
1991 09 15	675	0.5+	0.2+	2000 03 04	704	0.0	0.4-	2000 03 06	704	(2.2+ 0.6+)	
2000 02 25	703	0.4+	1.1+	2000 03 04	704	0.4+	0.3-	2000 03 11	704	1.0-	0.0
2000 02 25	703	1.1-	0.5+	2000 03 04	704	0.3+	0.1+	2000 03 11	704	0.2-	0.1-
2000 02 25	703	0.9-	0.3+	2000 03 04	704	0.2-	0.2-	2000 03 11	704	0.6+	0.1+
2000 02 25	703	0.5+	0.5+	2000 03 04	704	0.6-	0.6-	2000 03 11	704	0.5+	0.6-
2000 02 29	704	0.3+	0.3-	2000 03 05	704	0.3+	0.2+	2000 03 11	704	0.0	0.1-
2000 02 29	704	0.1-	0.1-	2000 03 05	704	0.0	0.4+	2000 03 11	699	0.6-	0.5+
2000 02 29	704	1.6-	1.8-	2000 03 05	704	0.1+	0.4-	2000 03 11	699	0.3-	0.4+
2000 02 29	704	0.5+	0.3-	2000 03 05	704	1.0+	0.7+	2000 03 11	699	0.4-	0.1+
2000 02 29	704	0.1+	0.2-	2000 03 05	704	0.5+	0.1+	2000 03 11	699	0.6-	0.1-
2000 03 03	704	0.0	0.2+	2000 03 05	704	0.1+	0.1-				
2000 03 03	704	0.0	0.2-	2000 03 05	704	1.3+	0.1-				

2000 DP₃₄ = 1997 EJ₈ = 1998 SU₁₄₃ = 1998 SQ₁₃₈Id. G. V. Williams, S. Nakano (d, *MPC* 33590)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	235.15387	(2000.0)	P	Q	
<i>n</i>	0.31371511	ω 280.48001	+0.34850303	+0.93730340	
<i>a</i>	2.1450912	Ω 9.91716	-0.85342482	+0.31855817	
<i>e</i>	0.1333697	<i>i</i> 0.93915	-0.38757157	+0.14136132	
<i>P</i>	3.14	<i>H</i> 15.4	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1997 03 08	684	0.1-	0.6-	1998 11 10	704	0.9-	0.6-	2000 03 03	704	0.2+	0.4+
1997 03 08	684	0.1-	0.6-	1998 11 10	704	0.0	0.8-	2000 03 03	704	0.3+	0.5+
1997 03 09	684	0.2-	0.2-	2000 02 01	703	0.7-	0.4+	2000 03 03	704	0.3+	0.7+
1997 03 09	684	0.2-	0.1-	2000 02 01	703	0.6+	0.5-	2000 03 03	704	0.4+	0.8+
1998 09 18	809	(3.7+ 2.9+)		2000 02 01	703	0.1+	0.1-	2000 03 03	704	0.7+	0.8+
1998 09 18	809	(3.0+ 1.7+)		2000 02 01	703	0.8+	0.2-	2000 03 11	704	0.3-	1.2+
1998 09 18	809	(2.2+ 1.0+)		2000 02 08	704	0.6-	0.0	2000 03 11	706	0.4-	0.5-
1998 09 20	809	0.4-	0.7+	2000 02 08	704	0.6+	0.2-	2000 03 11	704	0.5-	0.4+
1998 09 20	809	0.7-	0.2+	2000 02 08	704	1.8+	0.0	2000 03 11	704	0.1-	0.1+
1998 09 20	809	0.5-	1.2+	2000 02 08	704	0.2+	0.5-	2000 03 11	704	0.2+	0.2+
1998 09 26	704	0.6-	0.6-	2000 02 08	704	1.4+	0.5+	2000 03 11	704	0.9+	0.4+
1998 09 26	704	0.4-	0.9-	2000 02 11	704	1.8+	0.3-	2000 03 11	699	0.7-	0.1+
1998 09 26	704	0.3+	1.1-	2000 02 11	704	0.4-	0.9-	2000 03 11	706	0.4-	1.4-
1998 09 26	704	1.0-	1.0-	2000 02 11	704	0.9-	0.4-	2000 03 11	699	0.8-	0.6+
1998 09 26	704	(2.2- 0.3-)		2000 02 11	704	0.3+	0.6-	2000 03 11	706	0.6-	0.7-
1998 09 27	704	0.4+	0.1+	2000 02 11	704	0.1-	0.2-	2000 03 11	706	0.9-	0.8-
1998 09 27	704	1.0+	0.2+	2000 02 25	703	1.4-	0.6+	2000 03 11	699	1.0-	0.7-
1998 09 27	704	0.2-	1.1-	2000 02 25	703	0.8-	0.4+	2000 03 11	699	0.5-	0.8+
1998 09 27	704	1.1-	0.9-	2000 02 25	703	1.9-	0.7+	2000 03 11	608	0.1-	1.1-
1998 10 17	699	1.4+	1.4+	2000 02 25	703	(3.2- 2.4+)		2000 03 11	608	0.8+	1.2-
1998 10 17	699	1.2+	1.1+	2000 02 29	704	0.3+	0.7+	2000 03 11	608	1.3+	0.9-
1998 10 17	699	1.9+	1.2+	2000 02 29	704	0.4+	0.7+	2000 03 12	706	0.9-	0.4-
1998 11 10	704	0.0	0.0	2000 02 29	704	0.2+	0.6+	2000 03 12	706	0.7+	0.4+
1998 11 10	704	0.4-	0.0	2000 02 29	704	0.1+	0.2+				

2000 DE₃₅ = 1998 QZ₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	109.70403	(2000.0)	P	Q	
<i>n</i>	0.28164170	ω 42.55730	+0.86187345	-0.50660018	
<i>a</i>	2.3050025	Ω 347.81865	+0.43095776	+0.75560899	
<i>e</i>	0.1375011	<i>i</i> 6.26608	+0.26730051	+0.41522440	
<i>P</i>	3.50	<i>H</i> 15.8	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 08 17	704	1.0+	0.5+	2000 02 25	703	0.2-	0.0	2000 03 03	704	0.8+	0.1+
1998 08 17	704	1.7+	0.5-	2000 02 25	703	0.3-	0.5-	2000 03 11	704	0.3-	0.7-
1998 08 17	704	(2.3+ 2.2+)		2000 02 25	703	0.5-	1.0+	2000 03 11	704	0.7-	0.1+
1998 08 17	704	0.6-	0.2+	2000 02 29	704	0.5+	0.2+	2000 03 11	704	0.1-	0.1+
1998 08 17	704	1.4-	1.5-	2000 02 29	704	0.3+	0.5-	2000 03 11	704	0.7-	1.4+
1998 08 23	704	0.6-	0.6+	2000 02 29	704	0.6+	0.1-	2000 03 11	699	0.3-	0.1-
1998 08 23	704	0.2-	0.1-	2000 02 29	704	0.1+	0.0	2000 03 11	699	0.6+	0.5+
1998 08 23	704	0.3+	0.3-	2000 02 29	704	0.3+	0.5+	2000 03 11	699	0.1+	0.0
1998 08 23	704	1.3-	0.8+	2000 03 03	704	0.3+	0.1-	2000 03 11	699	0.1-	0.8-
1998 08 23	704	0.8+	0.7+	2000 03 03	704	1.1+	0.3+				
2000 02 25	703	1.5-	0.6-	2000 03 03	704	0.2+	0.2-				

2000 DF₃₅ = 1993 FM₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	235.34943	(2000.0)	P	Q	</

2000 MAR. 20

M.P.C. 39451

Residuals in seconds of arc

1993 03 19	809	0.3+	0.7−	2000 02 29	704	0.7+	0.1−	2000 03 05	704	0.8+	0.3+
1993 03 20	809	1.3−	1.3+	2000 03 03	704	0.1−	0.1−	2000 03 05	704	0.8+	0.4−
1993 03 24	809	1.0+	0.6−	2000 03 03	704	0.4−	0.6+	2000 03 11	704	1.5−	0.4−
2000 02 10	120	0.2−	0.4−	2000 03 03	704	0.6−	0.4−	2000 03 11	704	0.1−	0.5+
2000 02 10	120	0.5−	0.4+	2000 03 03	704	0.3−	0.5+	2000 03 11	704	0.1+	0.6−
2000 02 29	704	0.2+	0.0	2000 03 03	704	0.0	0.5+	2000 03 11	704	0.9−	0.5−
2000 02 29	704	0.9−	0.1−	2000 03 05	704	0.4+	0.2+	2000 03 11	704	0.1+	0.4+
2000 02 29	704	0.1+	0.7+	2000 03 05	704	0.8+	1.8−				
2000 02 29	704	0.0	0.2+	2000 03 05	704	1.4+	0.5+				

2000 DH₃₅ = 1992 EA₃₂ = 1998 SA₁₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	33.64138		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.24386546	ω	87.12669	−0.42214391	−0.90648174
<i>a</i>	2.5372846	Ω	27.84909	+0.82366827	−0.38779557
<i>e</i>	0.0830230	<i>i</i>	1.13339	+0.37863585	−0.16704925
<i>P</i>	4.04	<i>H</i>	15.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1992 03 01	809	1.3+	1.3−	2000 02 11	704	0.7−	1.4−	2000 03 03	704	0.3+	0.5+
1992 03 03	809	1.8−	0.1+	2000 02 11	704	0.1−	1.4−	2000 03 03	704	0.2−	0.0
1998 09 26	704	0.6+	1.6−	2000 02 25	703	1.5−	0.2+	2000 03 05	704	0.9+	0.3+
1998 09 26	704	0.5−	1.8−	2000 02 25	703	0.3−	1.1+	2000 03 05	704	0.0	0.2−
1998 09 26	704	1.8+	0.5+	2000 02 25	703	0.0	0.4+	2000 03 05	704	0.2−	0.8−
1998 09 27	704	0.0	0.5+	2000 02 25	703	0.0	1.1+	2000 03 05	704	0.5+	0.5−
1998 09 27	704	0.6−	1.0+	2000 02 29	704	0.7+	0.3+	2000 03 11	704	0.7+	0.1+
1998 09 27	704	0.5−	1.6+	2000 02 29	704	0.5+	0.1−	2000 03 11	704	0.1−	0.1−
1998 09 27	704	0.9−	0.2−	2000 02 29	704	0.7+	0.1−	2000 03 11	704	0.4+	0.2+
2000 02 04	704	1.2+	0.6−	2000 02 29	704	0.1+	0.5+	2000 03 11	704	0.0	1.2+
2000 02 04	704	0.9−	0.3+	2000 02 29	704	0.2−	0.2+	2000 03 11	608	0.0	0.0
2000 02 04	704	0.0	0.6+	2000 03 03	704	0.0	0.6+	2000 03 11	608	0.5−	0.4−
2000 02 04	704	0.9−	0.5−	2000 03 03	704	0.0	0.3+	2000 03 11	608	0.4−	1.0−
2000 02 11	704	0.5+	0.1−	2000 03 03	704	0.3+	0.7+				

2000 DB₃₈ = 1998 WT₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	67.17740		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.19946441	ω	106.06482	+0.05231719	−0.99859996
<i>a</i>	2.9010760	Ω	340.93111	+0.90684234	+0.05078330
<i>e</i>	0.0165911	<i>i</i>	1.37025	+0.41821032	+0.01480474
<i>P</i>	4.94	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 11 21	704	0.1−	0.9−	2000 02 01	703	0.4+	0.2+	2000 02 29	704	0.9−	0.4−
1998 11 21	704	1.1+	0.3−	2000 02 01	703	0.1+	0.9−	2000 02 29	704	0.6−	0.7−
1998 11 21	704	0.2+	0.1−	2000 02 04	704	0.0	0.3+	2000 03 03	704	0.4+	0.4−
1998 11 21	704	0.3−	1.4−	2000 02 04	704	0.7+	0.6+	2000 03 03	704	0.2+	0.0
1998 11 24	704	0.1+	1.1+	2000 02 04	704	0.2−	0.7+	2000 03 03	704	0.2+	0.2−
1998 11 24	704	0.5+	0.4+	2000 02 04	704	0.7+	1.2+	2000 03 03	704	0.0	0.5+
1998 11 24	704	2.0−	0.7−	2000 02 25	703	0.9−	0.3−	2000 03 03	704	0.2+	0.5+
1998 11 24	704	0.2+	0.8−	2000 02 25	703	1.4−	1.1+	2000 03 11	704	0.7+	0.1−
1998 11 25	699	0.4+	0.7+	2000 02 25	703	0.4+	0.4+	2000 03 11	704	1.0+	0.4−
1998 11 25	699	1.1−	0.9+	2000 02 25	703	0.7+	0.7−	2000 03 11	704	0.1−	0.1+
1998 11 25	699	0.9+	1.0+	2000 02 29	704	0.4−	0.2+	2000 03 11	704	0.8−	0.1−
2000 02 01	703	0.1+	0.6+	2000 02 29	704	0.6−	0.8−				
2000 02 01	703	0.4−	1.2−	2000 02 29	704	0.4+	0.4−				

2000 DE₃₈ = 1998 XR₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	299.11268		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.19648815	ω	52.51161	−0.76933938	+0.63878738
<i>a</i>	2.9302981	Ω	167.18294	−0.59720160	−0.71456476
<i>e</i>	0.0372437	<i>i</i>	2.12412	−0.22686376	−0.28521552
<i>P</i>	5.02	<i>H</i>	14.1	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 12 15	120	0.6−	0.5+	2000 02 29	704	0.1−	0.1+	2000 03 11	704	0.6+	0.1−
1998 12 15	120	0.3+	0.5−	2000 02 29	704	0.1−	0.3−	2000 03 11	704	0.4−	0.6+
1998 12 16	120	0.1+	1.2+	2000 02 29	704	0.3−	0.0	2000 03 11	704	0.9+	0.3+
1998 12 16	120	0.5+	0.5−	2000 02 29	704	0.7+	0.2+	2000 03 11	704	0.8+	0.2−
1998 12 17	120	(1.8−	5.0−)	2000 03 03	704	0.6−	0.1+	2000 03 11	699	0.4−	0.9−
1998 12 17	120	0.3−	0.8−	2000 03 03	704	0.3−	0.1−	2000 03 11	699	0.3−	0.3−
2000 02 25	703	0.5+	0.6−	2000 03 03	704	0.2−	0.1−	2000 03 11	699	0.0	0.8−
2000 02 25	703	0.1−	0.1+	2000 03 03	704	0.5−	0.1+	2000 03 11	699	0.2−	0.3−
2000 02 25	703	0.4+	0.5+	2000 03 03	704	0.9−	0.5−				
2000 02 25	703	0.3+	0.3+	2000 03 11	704	0.1+	1.6+				

2000 DG₃₈ = 1998 QU₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	68.55350		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26538486	ω	257.34637	+0.35048264	−0.93654749
<i>a</i>	2.3981994	Ω	172.12791	+0.87635597	+0.32553837
<i>e</i>	0.1548993	<i>i</i>	2.67054	+0.33039692	+0.13001374
<i>P</i>	3.71	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1997 06 07	809	0.3−	0.2+	2000 02 02	704	0.0	0.6−	2000 03 04	704	0.9+	1.1+
1997 06 07	809	0.4+	1.0−	2000 02 02	704	0.2−	1.7−	2000 03 04	704	0.0	0.8+
1997 06 07	809	0.4−	0.4−	2000 02 06	704	0.9−	0.7−	2000 03 04	704	0.5+	0.6+
1998 08 17	704	0.3+	1.0+	2000 02 06	704	0.8−	1.9−	2000 03 05	704	0.3−	0.4+
1998 08 17	704	1.0−	0.3−	2000 02 06	704	0.1+	0.1+	2000 03 05	704	0.1−	0.4+
1998 08 17	704	0.6+	0.3−	2000 02 29	704	0.4+	0.5+	2000 03 05	704	0.2+	0.5+
1998 08 17	704	1.6−	1.4+	2000 02 29	704	0.1+	0.3+	2000 03 05	704	0.6−	1.0+
1998 08 23	704	0.5+	0.4+	2000 02 29	704	0.2+	0.4+	2000 03 05	704	0.4+	1.0+
1998 08 23	704	0.1+	0.9−	2000 02 29	704	0.5+	0.9+	2000 03 11	704	0.5+	0.3+
1998 08 23	704	0.4−	1.4+	2000 02 29	704	0.6+	0.9+	2000 03 11	704	0.1−	0.0
1998 08 23	704	0.1+	1.3+	2000 03 03	704	0.1+	0.3+	2000 03 11	704	0.3+	0.1+
2000 02 01	703	0.4−	0.2−	2000 03 03	704	0.4−	0.4+	2000 03 11	704	0.2−	0.3+
2000 02 01	703	0.8−	1.0−	2000 03 03	704	0.2+	0.1+	2000 03 11	704	0.1+	0.5+
2000 02 01	703	0.5+	0.3−	2000 03 03	704	0.2+	0.2+	2000 03 11	699	0.1+	0.5−
2000 02 01	703	1.0−	1.6+	2000 03 03	704	0.0	0.1−	2000 03 11	699	0.4−	0.4−
2000 02 02	704	0.1+	1.1+	2000 03 04	704	0.0	0.3−	2000 03 11	699	0.4+	0.0
2000 02 02	704	0.3+	1.1−	2000 03 04	704	0.9+	0.4−	2000 03 11	699	0.1+	0.7−

2000 DA₃₉ = 1998 RN₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	84.59899		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.25830319	ω	91.60686	+0.54558906	−0.83521165
<i>a</i>	2.4418344	Ω	325.04319	+0.71308666	+0.50588245
<i>e</i>	0.1291568	<i>i</i>	6.91172	+0.44027263	+0.21564890
<i>P</i>	3.82	<i>H</i>	15.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.8+	1.9+	2000 02 29	704	0.6−	0.5−	2000 03 11	704	0.4+	0.1−
1998 09 14	704	(1.3−	2.3+)	2000 02 29	704	0.5−	0.2+	2000 03 11	704	0.5+	0.0
1998 09 14	704	1.0+	0.2+	2000 03 03	704	0.1−	0.3+	2000 03 11	704	0.7+	0.3+
1998 09 14	704	1.0−	0.7+	2000 03 03	704	0.3−	0.4+	2000 03 11	704	0.2+	0.1−
1998 09 18	704	0.5−	0.7+	2000 03 03	704	0.0	0.6+	2000 03 11	699	0.4−	0.4−
1998 09 18	704	0.1+	1.5−	2000 03 03	704	0.2+	0.6+	2000 03 11	704	0.3+	0.2+
1998 09 18	704	0.6−	0.7−	2000 03 03	704	0.4−	0.1+	2000 03 11	699	0.9−	0.3+
1998 09 18	704	0.1+	1.0−	2000 03 09	704	0.8+	0.5+	2000 03 11	699	1.5−	0.4+
2000 02 29	704	0.2−	0.7−	2000 03 09	704	0.3+	0.9−	2000 03 11	699	0.6−	0.1+

M.P.C. 39452

2000 MAR. 20

2000 02 29 704 0.0 0.4− 2000 03 09 704 0.4+ 0.9−
 2000 02 29 704 1.0+ 0.1+ 2000 03 09 704 0.9+ 0.1+

2000 DF₃₉ = 1994 CB₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	312.99006		(2000.0)	P	Q
<i>n</i>	0.17088649	ω	19.89949	−0.83574497	+0.54881681
<i>a</i>	3.2161101	Ω	193.43231	−0.51380784	−0.79325494
<i>e</i>	0.1165193	<i>i</i>	4.48830	−0.19373140	−0.26371709
<i>P</i>	5.77	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1994 02 10	691	0.1−	0.4−	2000 02 29	704	1.1+	0.5+	2000 03 04	704	0.1+	0.1−
1994 02 10	691	0.2+	0.3−	2000 02 29	704	1.4+	1.9+	2000 03 05	704	0.2+	0.7−
1994 02 10	691	0.1−	0.4−	2000 02 29	704	0.4−	0.3+	2000 03 05	704	0.9−	1.3−
1994 02 12	691	0.5+	0.0	2000 03 03	704	0.2+	0.3+	2000 03 05	704	0.3−	0.3−
1994 02 12	691	0.6−	1.8+	2000 03 03	704	0.1−	0.4+	2000 03 05	704	0.2+	0.3−
1994 02 12	691	0.2+	0.5−	2000 03 03	704	0.3+	0.0	2000 03 05	704	0.2−	0.6+
2000 02 06	704	0.6−	0.2−	2000 03 03	704	0.0	0.4+	2000 03 11	699	0.0	0.3+
2000 02 06	704	0.5−	0.4−	2000 03 03	704	0.3−	0.5+	2000 03 11	699	0.8−	0.6−
2000 02 06	704	0.3−	0.4−	2000 03 04	704	0.3+	0.3−	2000 03 11	699	0.2−	0.5−
2000 02 06	704	0.2+	0.0	2000 03 04	704	0.1+	0.7−	2000 03 11	699	0.4−	0.6−
2000 02 29	704	0.4+	0.2+	2000 03 04	704	0.3−	0.5+				
2000 02 29	704	0.2−	0.7−	2000 03 04	704	1.0+	1.2+				

2000 DB₄₀ = 1979 QX₅ = 1993 SW₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	169.05074		(2000.0)	P	Q
<i>n</i>	0.21688892	ω	149.54895	+0.97205895	+0.23442798
<i>a</i>	2.7435390	Ω	196.90581	−0.22285039	+0.90550936
<i>e</i>	0.0664495	<i>i</i>	2.37257	−0.07375026	+0.35368958
<i>P</i>	4.54	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1979 08 30	809	0.4−	1.1+	1998 12 16	704	(3.0−	0.4+)	2000 02 29	704	0.1−	0.8−
1979 08 30	809	0.3−	1.0+	1998 12 16	704	(2.3−	1.4+)	2000 02 29	704	0.6−	0.3−
1993 09 17	809	0.9+	1.5−	1998 12 16	704	1.9−	0.6−	2000 02 29	704	0.5+	0.4−
1993 09 17	809	0.0	1.0−	1998 12 17	704	1.6−	0.5+	2000 02 29	704	0.1−	0.5−
1993 09 17	809	0.5+	1.3−	1998 12 17	704	0.7−	0.7+	2000 02 29	704	0.3+	0.1−
1993 09 18	809	(3.4+	1.1−)	1998 12 17	704	0.2−	0.7−	2000 03 03	704	0.4−	0.0
1993 09 18	809	(3.4+	1.3−)	1998 12 17	704	0.7+	1.4+	2000 03 03	704	0.4−	0.1−
1993 09 18	809	(2.8+	1.3−)	1998 12 17	704	1.5+	0.6+	2000 03 03	704	0.4−	0.0
1998 11 24	704	0.6−	0.2−	1998 12 17	704	0.7−	1.0−	2000 03 03	704	0.5−	0.0
1998 11 24	704	0.4+	0.2−	1998 12 17	704	0.2+	1.9+	2000 03 11	704	0.6+	0.4−
1998 11 24	704	0.3+	0.6−	1998 12 17	704	1.0+	0.4+	2000 03 11	704	0.7+	0.6−
1998 11 24	704	0.7−	0.4+	1998 12 17	704	(0.6−	3.5+)	2000 03 11	704	0.2+	0.1+
1998 11 24	704	(4.2−	0.3+)	1998 12 17	704	(3.8−	2.0+)	2000 03 11	704	0.2+	0.3−
1998 12 08	699	1.2+	0.1+	2000 02 02	704	0.0	0.7+	2000 03 11	699	0.1+	0.1−
1998 12 08	699	0.0	0.4+	2000 02 02	704	0.3+	0.5+	2000 03 11	704	0.5+	0.2+
1998 12 08	699	0.2+	0.1−	2000 02 02	704	0.5−	0.2−	2000 03 11	699	0.3−	1.1+
1998 12 16	704	0.2−	0.1+	2000 02 02	704	0.5−	0.3+	2000 03 11	699	0.4+	0.2+
1998 12 16	704	0.7+	0.6−	2000 02 02	704	0.3−	0.6−	2000 03 11	699	0.4−	0.1+

2000 DW₄₀ = 1998 SL₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	41.63007		(2000.0)	P	Q
<i>n</i>	0.27663870	ω	133.18455	−0.31763295	−0.94683756
<i>a</i>	2.3327100	Ω	335.19787	+0.83083924	−0.25195607
<i>e</i>	0.0753407	<i>i</i>	6.99251	+0.45696330	−0.20004192
<i>P</i>	3.56	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.3−	0.7+	2000 02 11	704	0.1−	0.3−	2000 03 04	704	0.1+	0.1+
1998 09 26	704	0.8−	0.0	2000 02 11	704	0.5−	1.1+	2000 03 04	704	0.2−	0.1+
1998 09 26	704	1.2+	0.9−	2000 02 11	704	0.3−	0.9−	2000 03 04	704	0.9+	0.3−

1998 09 27	704	0.4+	1.2−	2000 02 11	704	0.6−	0.1−	2000 03 04	704	0.3+	0.3−
1998 09 27	704	1.4−	1.9+	2000 02 25	703	0.7−	0.3+	2000 03 05	704	0.3−	0.1+
1998 09 27	704	0.7+	1.4−	2000 02 25	703	0.2−	0.6+	2000 03 05	704	0.1−	0.0
1998 09 27	704	1.0−	0.7+	2000 02 25	703	0.2+	0.3−	2000 03 05	704	0.4+	0.2−
1998 09 27	704	1.0+	0.1+	2000 02 25	703	0.6−	0.0	2000 03 05	704	0.1+	0.2−
2000 02 01	703	1.6−	0.4−	2000 02 29	704	0.2+	0.2−	2000 03 05	704	0.8+	0.7+
2000 02 01	703	0.3−	0.4−	2000 02 29	704	0.2+	0.2+	2000 03 11	704	0.1−	0.1+
2000 02 01	703	0.5+	0.5+	2000 02 29	704	0.4+	0.1+	2000 03 11	704	0.4+	0.1−
2000 02 01	703	(2.5+	0.0)	2000 02 29	704	0.3+	0.1−	2000 03 11	704	0.4−	0.3−
2000 02 04	704	0.1−	0.0	2000 02 29	704	0.4+	0.4+	2000 03 11	704	0.1−	0.2−
2000 02 04	704	1.5−	0.5+	2000 03 03	704	0.3+	0.0	2000 03 11	699	0.6−	0.2+
2000 02 04	704	1.2+	0.3−	2000 03 03	704	0.2+	0.2+	2000 03 11	704	0.3+	0.4−
2000 02 04	704	2.0+	0.5−	2000 03 03	704	0.3+	0.2+	2000 03 11	699	1.2−	0.6−
2000 02 05	695	0.1+	0.2−	2000 03 03	704	0.2+	0.0	2000 03 11	699	0.8−	0.0
2000 02 05	695	0.1−	0.1−	2000 03 03	704	0.3+	0.2+	2000 03 11	699	0.7−	0.1−
2000 02 11	704	0.3+	0.7+	2000 03 04	704	0.5+	0.0				

2000 DD₄₁ = 2000 CW₁₀₅ = 1991 RH₃₁ = 1998 SN₁₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	169.32801		(2000.0)	P	Q
<i>n</i>	0.28519511	ω	187.83979	+0.96323718	+0.26420315
<i>a</i>	2.2858164	Ω	156.66374	−0.23933398	+0.92623727
<i>e</i>	0.1457275	<i>i</i>	7.06056	−0.12203846	+0.26885166
<i>P</i>	3.46	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1991 09 15	675	1.2+	1.4−	1998 09 27	704	0.5−	0.4+	2000 03 03	704	0.2−	0.4−
1991 09 15	675	0.1+	0.3−	2000 02 06	704	0.0	1.0−	2000 03 03	704	0.3+	0.2−
1991 09 30	691	0.3−	0.2−	2000 02 06	704	0.7+	0.4−	2000 03 03	704	0.9−	0.2+
1991 09 30	691	0.2−	0.1−	2000 02 06	704	0.7+	0.0	2000 03 03	704	0.8+	0.4−
1991 09 30	691	0.1−	0.1−	2000 02 25	703	0.4−	0.0	2000 03 11	704	0.0	0.2+
1998 09 26	704	0.4+	0.0	2000 02 25	703	0.2+	0.3−	2000 03 11	704	0.5−	0.7−
1998 09 26	704	0.4+	0.3−	2000 02 25	703	0.2+	0.6+	2000 03 11	704	0.2−	0.2−
1998 09 26	704	0.6+	0.3−	2000 02 25	703	(2.3−	0.6−)	2000 03 11	699	0.4−	0.4+
1998 09 26	704	0.0	0.1+	2000 02 29	704	0.1−	0.1−	2000 03 11	704	0.3−	0.3−
1998 09 26	704	(2.7+	0.0)	2000 02 29	704	0.7+	0.0	2000 03 11	704	0.9−	0.0
1998 09 27	704	0.2−	0.1+	2000 02 29	704	0.4+	0.8+	2000 03 11	699	0.6−	0.1−
1998 09 27	704	0.6−	1.0+	2000 02 29	704	1.2+	1.2+	2000 03 11	699	1.2−	0.1−
1998 09 27	704	0.5−	0.6+	2000 02 29	704	0.0	0.0	2000 03 11	699	0.3−	0.2−
1998 09 27	704	0.1−	0.1−	2000 03 03	704	0.4+	0.3−				

2000 DG₄₁ = 1993 FC₁₂ = 1994 RS₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	291.79093		(2000.0)	P	Q
<i>n</i>	0.27370439	ω	73.05709	−0.61903542	+0.78386880
<i>a</i>	2.3493526	Ω	158.47288	−0.76140167	−0.58389262
<i>e</i>	0.0599972	<i>i</i>	7.58319	−0.19251659	−0.21123236
<i>P</i>	3.60	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1993 03 17	809	(0.0	5.4−)	1994 09 06	809	0.8+	1.6−	2000 03 03	704	0.4+	0.3+
1993 03 18	809	0.3−	0.5−	1994 09 06	809	0.1+	0.2−	2000 03 03	704	0.0	0.1−
1993 03 23	809	0.1+	0.2−	2000 02 29	704	0.5−	0.6−	2000 03 03	704	0.1+	0.3−
1994 09 05	809	0.4+	0.2−	2000 02 29	704	0.4+	0.7−	2000 03 03	704	0.1+	0.8−
1994 09 05	809	0.7−	0.3−	2000 02 29	704	1.2−	0.9−	2000 03 11	704	0.2−	1.8+
1994 09 05	809	(1.2−	2.0−)	2000 02 29	704	0.5+	1.0−	2000 03 11	704	0.7−	1.1+
1994 09 06	809	(2.2+	0.5+)	2000 03 03	704	0.3−	0.1−	2000 03 11	704	1.1+	0.2−

2000 DA₄₂ = 1998 XA₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>

2000 MAR. 20

M.P.C. 39453

Residuals in seconds of arc

1998 12 08	691	0.4+	0.0	2000 02 29	704	0.2+	0.7+	2000 03 05	704	0.9+	0.3+
1998 12 08	691	0.2+	0.2-	2000 03 03	704	0.1+	0.3+	2000 03 05	704	1.3-	0.3-
1998 12 08	691	0.2+	0.1-	2000 03 03	704	0.1-	0.5-	2000 03 05	704	1.0-	1.0-
1998 12 13	691	0.2-	0.3+	2000 03 03	704	0.0	0.5-	2000 03 11	704	0.1+	0.4-
1998 12 13	691	0.1-	0.1-	2000 03 03	704	0.1+	0.7-	2000 03 11	704	0.2+	0.9+
1998 12 13	691	0.5-	0.0	2000 03 03	704	0.1-	0.2-	2000 03 11	704	0.0	0.0
2000 02 05	695	0.2-	0.9+	2000 03 04	704	0.0	0.6-	2000 03 11	699	0.2+	1.1+
2000 02 05	695	0.3-	0.9+	2000 03 04	704	0.5+	0.4-	2000 03 11	704	0.3-	0.3+
2000 02 29	704	0.2+	0.0	2000 03 04	704	1.0+	0.4+	2000 03 11	704	0.3-	0.8-
2000 02 29	704	0.6+	0.1-	2000 03 04	704	0.2+	0.3-	2000 03 11	699	0.8-	0.1-
2000 02 29	704	0.5+	0.0	2000 03 04	704	0.7+	0.7-	2000 03 11	699	0.6-	0.1+
2000 02 29	704	0.1-	0.6-	2000 03 05	704	1.0+	1.1+	2000 03 11	699	1.0-	0.2+

2000 DT₄₂ = 1998 SR₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	21.62251	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.21937246	ω	345.69253	-0.63756436	-0.76812864
<i>a</i>	2.7227932	Ω	143.86341	+0.71630815	-0.61928233
<i>e</i>	0.1094690	<i>i</i>	5.74948	+0.28357417	-0.16268924
<i>P</i>	4.49	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 09 20	809	0.6+	0.7+	2000 02 25	703	0.6-	0.0	2000 03 05	704	0.3-	0.9+
1998 09 20	809	0.5+	0.1+	2000 02 25	703	0.4+	0.3-	2000 03 05	704	0.2+	0.7+
1998 09 20	809	0.4-	0.7+	2000 02 25	703	0.4-	0.2+	2000 03 09	704	0.7+	0.6+
1998 09 21	809	0.4+	0.6-	2000 02 25	703	0.3-	0.7-	2000 03 09	704	0.3-	0.3-
1998 09 21	809	0.4-	0.5-	2000 02 29	704	0.3-	0.6-	2000 03 09	704	0.1+	0.2-
1998 09 21	809	0.8-	0.4-	2000 02 29	704	0.0	0.3-	2000 03 09	704	0.7+	0.1+
2000 02 04	704	0.6+	0.1-	2000 02 29	704	0.0	0.2+	2000 03 09	704	0.2+	0.1+
2000 02 04	704	0.3+	0.5-	2000 02 29	704	0.2+	0.0	2000 03 11	704	0.0	0.4-
2000 02 04	704	0.7-	0.3-	2000 02 29	704	0.5-	0.3+	2000 03 11	704	0.5-	0.2-
2000 02 04	704	(2.3-	0.2-)	2000 03 03	704	0.2+	0.3-	2000 03 11	704	0.0	0.6-
2000 02 05	695	0.5-	0.2+	2000 03 03	704	0.3+	0.1-	2000 03 11	699	0.4+	0.1-
2000 02 05	695	0.4-	0.1+	2000 03 03	704	0.1+	0.5-	2000 03 11	704	0.1-	0.4-
2000 02 11	704	0.3+	0.8+	2000 03 03	704	0.5+	0.3-	2000 03 11	704	0.0	0.8-
2000 02 11	704	0.1+	0.0	2000 03 03	704	0.5+	0.6-	2000 03 11	699	0.1+	0.4+
2000 02 11	704	0.2+	0.5-	2000 03 05	704	0.4-	0.3+	2000 03 11	699	0.6-	0.8+
2000 02 11	704	0.4+	0.7+	2000 03 05	704	0.4-	1.0+	2000 03 11	699	0.4-	0.3+
2000 02 11	704	0.3+	0.3+	2000 03 05	704	0.2-	0.1+				

2000 DW₄₂ = 1992 RQ₃ = 1992 SO₁

Id. G. V. Williams, S. Nakano (d, *MPC* 22572)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	91.74152	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.17587027	ω	53.64680	+0.79585557	-0.58885983
<i>a</i>	3.1550610	Ω	341.08619	+0.31395160	+0.60033410
<i>e</i>	0.2760879	<i>i</i>	25.76864	+0.51773382	+0.54114976
<i>P</i>	5.60	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1992 09 02	809	0.8+	0.0	1999 01 09	704	1.0+	1.0-	2000 03 03	704	0.0	0.2-
1992 09 02	809	1.1+	0.4-	1999 01 09	704	(1.7-	2.5+)	2000 03 03	704	0.5+	0.1-
1992 09 02	809	0.2+	0.7-	2000 02 01	703	0.0	0.4+	2000 03 03	704	0.1+	0.2-
1992 09 03	809	0.1-	0.5-	2000 02 01	703	0.3+	0.1-	2000 03 03	704	0.1-	0.1+
1992 09 20	399	(5.6-	1.8+)	2000 02 01	703	0.3-	0.0	2000 03 03	704	0.1+	0.1-
1992 09 20	399	(5.1-	1.2-)	2000 02 01	703	1.0+	0.7+	2000 03 05	704	0.0	0.6+
1992 09 28	399	(0.9-	2.6-)	2000 02 04	704	0.5-	0.3-	2000 03 05	704	0.6+	0.2+
1992 09 28	399	0.8+	0.9-	2000 02 04	704	1.0-	0.0	2000 03 05	704	0.1+	0.3+
1998 08 29	704	0.4-	0.4+	2000 02 04	704	0.1-	0.2+	2000 03 05	704	0.4+	0.7-
1998 08 29	704	0.6+	0.8+	2000 02 04	704	0.0	0.6-	2000 03 05	704	0.1+	0.7-
1998 08 29	704	0.3-	0.4-	2000 02 04	704	0.2+	0.3-	2000 03 09	704	0.3+	0.1+
1998 08 29	704	0.7-	0.1+	2000 02 11	704	0.3-	0.5-	2000 03 09	704	0.2-	0.1+
1998 08 29	704	0.9-	1.0+	2000 02 11	704	0.2+	0.6-	2000 03 09	704	0.2-	0.1+
1998 11 19	704	0.0	0.8+	2000 02 11	704	0.5-	0.6-	2000 03 09	704	0.8+	0.1-
1998 11 19	704	(0.1-	3.4+)	2000 02 11	704	0.1+	0.0	2000 03 09	704	0.5+	0.4+

1998 11 19	704	(2.9-	1.7+)	2000 02 11	704	0.2+	1.0-	2000 03 11	704	0.6+	0.3-
1998 11 19	704	0.4+	1.6+	2000 02 25	703	0.2-	0.5-	2000 03 11	704	0.3-	0.1+
1998 12 11	704	1.5-	0.3+	2000 02 25	703	0.5-	0.3+	2000 03 11	704	0.2-	0.0
1998 12 11	704	0.1+	0.5+	2000 02 25	703	0.3-	0.2-	2000 03 11	699	0.1+	0.4-
1998 12 11	704	0.6-	0.4+	2000 02 25	703	0.6-	0.1-	2000 03 11	704	0.3-	0.4+
1998 12 11	704	0.7+	0.2+	2000 02 29	704	0.0	0.1+	2000 03 11	704	0.1-	0.5+
1998 12 11	704	0.3+	0.7-	2000 02 29	704	0.0	0.1+	2000 03 11	699	1.3-	1.6+
1999 01 09	704	0.5+	0.7-	2000 02 29	704	0.0	0.3-	2000 03 11	699	0.5-	0.1-
1999 01 09	704	0.0	1.1-	2000 02 29	704	0.6+	0.4+	2000 03 11	699	0.0	0.0
1999 01 09	704	0.2-	1.4-	2000 02 29	704	0.6-	0.4-				

2000 DX₄₂ = 1993 QC₈ = 1996 FD₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	228.93379	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.23533228	ω	290.68556	+0.51045240	+0.85984659
<i>a</i>	2.5982546	Ω	10.02672	-0.76576633	+0.45988647
<i>e</i>	0.1709730	<i>i</i>	3.32852	-0.39120362	+0.22173919
<i>P</i>	4.19	<i>H</i>	14.2	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1993 08 15	809	(1.0-	5.6-)	2000 02 11	704	1.5-	0.0	2000 03 05	704	0.1-	0.4+
1993 08 15	809	(3.4-	5.2-)	2000 02 11	704	1.0-	0.0	2000 03 05	704	1.1+	0.7+
1993 08 15	809	(4.1-	6.0-)	2000 02 11	704	0.4-	0.6-	2000 03 09	704	0.2-	0.9+
1993 08 20	809	0.2+	0.9+	2000 02 29	704	0.4-	0.1-	2000 03 09	704	0.2-	0.4+
1993 08 20	809	0.4-	0.5+	2000 02 29	704	0.7-	0.5+	2000 03 09	704	0.5+	0.1-
1993 08 20	809	0.0	0.3+	2000 02 29	704	0.1+	0.1-	2000 03 09	704	0.1-	0.2-
1993 08 24	809	0.1+	0.2+	2000 02 29	704	0.2-	0.2-	2000 03 09	704	0.2-	0.6+
1993 08 24	809	0.5+	0.9-	2000 03 03	704	0.8+	0.3+	2000 03 11	704	1.4+	0.4-
1993 08 24	809	0.8-	0.3-	2000 03 03	704	0.1+	0.2-	2000 03 11	704	0.3+	0.7-
1996 03 18	691	0.1-	0.0	2000 03 03	704	0.7+	0.1+	2000 03 11	699	0.3+	0.9-
1996 03 18	691	0.0	0.1+	2000 03 03	704	0.6+	0.1+	2000 03 11	704	0.9+	0.6-
1996 03 18	691	0.0	0.1+	2000 03 03	704	1.0+	0.1-	2000 03 11	704	0.6+	0.5+
1996 03 26	691	0.2-	0.1-	2000 03 05	704	0.3+	0.1+	2000 03 11	699	1.2-	1.4+
1996 03 26	691	0.3+	0.3-	2000 03 05	704	0.6-	0.0	2000 03 11	699	0.1+	0.6+
1996 03 26	691	0.2-	0.2-	2000 03 05	704	0.5-	0.9-	2000 03 11	699	1.1-	0.3-

2000 DY₄₂ = 1996 HO₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	226.89340	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.21446770	ω	174.73713	+0.42033094	+0.90626494
<i>a</i>	2.7641490	Ω	120.11164	-0.83437407	+0.40544081
<i>e</i>	0.0604013	<i>i</i>	2.96766	-0.35656949	+0.11958929
<i>P</i>	4.60	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	6

Residuals in seconds of arc

1996 04 17	691	0.5-	0.3+	2000 02 29	704	0.5-	1.2+	2000 03 05	704	0.1+	0.3+
1996 04 17	691	0.1-	0.2-	2000 02 29	704	0.0	0.3-	2000 03 05	704	1.0+	0.4-
1996 04 17	691	0.2-	0.3+	2000 02 29	704	0.4-	0.2-	2000 03 05	704	0.8+	0.2+
1996 04 21	691	0.1+	0.0	2000 03 03	704	0.1-	0.7+	2000 03 09	704	0.6-	0.1-
1996 04 21	691	0.4+	0.2-	2000 03 03	704	0.2-	1.0-	2000 03 09	704	0.2+	0.1+
1996 04 21	691	0.2+	0.2-	2000 03 03	704	0.5-	0.4+	2000 03 09	704	0.0	0.1+
2000 02 29	704	0.8+	0.8-	2000 03 03	704	0.5-	0.1-	2000 03 09	704	0.1-	0.2+
2000 02 29	704	0.1-	0.5-	2000 03 05	704	0.4+	0.9+	2000 03 09	704	0.5-	0.7-

2000 DF₄₃ = 1998 VF₄₂

Epoch 2000 Feb. 26.0 TT = J

M.P.C. 39454

2000 MAR. 20

1998 11 15	691	0.2+	0.1-	2000 03 03	704	0.1+	0.0	2000 03 09	704	0.1-	0.5+
1998 11 19	691	0.5-	0.1-	2000 03 03	704	0.0	0.5-	2000 03 11	704	0.2-	0.3+
1998 11 19	691	0.0	0.0	2000 03 03	704	0.4+	0.1-	2000 03 11	704	0.4-	0.1-
1998 11 19	691	0.0	0.2+	2000 03 03	704	0.4+	0.4-	2000 03 11	704	0.1-	0.3+
2000 02 29	704	0.4-	0.1-	2000 03 03	704	0.2+	0.4-	2000 03 11	704	0.5+	0.2+
2000 02 29	704	0.9+	0.0	2000 03 09	704	0.5+	0.1+	2000 03 11	704	0.8-	0.1+
2000 02 29	704	0.1+	0.1-	2000 03 09	704	0.3+	0.0				

2000 DM₄₃ = 1998 XZ₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23397513	ω	216.20356	+0.92683713	+0.37397958		
<i>a</i>	2.6082923	Ω	121.80255	-0.33460448	+0.86300609		
<i>e</i>	0.0697825	<i>i</i>	2.24892	-0.17033137	+0.33964651		
<i>P</i>	4.21	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 12 07	910	0.3-	0.3+	2000 02 29	704	0.2+	0.5+	2000 03 05	704	0.5+	0.2+
1998 12 07	910	0.1-	0.4+	2000 02 29	704	0.0	0.2+	2000 03 05	704	0.2-	1.5+
1998 12 07	910	0.1+	0.5+	2000 02 29	704	0.0	0.4+	2000 03 05	704	0.4-	0.3+
1998 12 08	910	0.0	0.4-	2000 03 03	704	0.2+	1.5-	2000 03 05	704	0.8+	0.3-
1998 12 08	910	0.1+	0.3-	2000 03 03	704	0.3-	0.4-	2000 03 05	704	0.4+	0.1+
1998 12 08	910	0.2+	0.4-	2000 03 03	704	0.8-	0.7-	2000 03 11	704	0.9-	0.8-
2000 02 29	704	0.1-	0.2-	2000 03 03	704	0.3-	0.6-	2000 03 11	704	0.4+	0.1-
2000 02 29	704	0.6+	0.6+	2000 03 03	704	0.7-	0.2-	2000 03 11	704	0.4+	0.8+

2000 DC₄₇ = 1992 UW₇ = 1998 XG₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17621897	ω	209.73905	+0.93329977	-0.35908750		
<i>a</i>	3.1508975	Ω	171.30375	+0.33298165	+0.86250365		
<i>e</i>	0.1839931	<i>i</i>	1.05161	+0.13444238	+0.35657204		
<i>P</i>	5.59	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1992 10 23	010	(4.4+	0.2-)	1998 12 16	704	0.7-	0.7+	2000 03 03	704	0.7-	0.1-
1992 10 23	010	1.2+	0.5+	1998 12 16	704	0.8+	1.1+	2000 03 03	704	0.2-	0.4+
1992 11 02	010	0.1-	0.3-	1998 12 16	704	0.6-	0.7+	2000 03 03	704	0.2+	0.2+
1992 11 02	010	0.9-	0.6-	2000 02 05	695	0.3-	0.2+	2000 03 11	704	0.2+	0.9-
1992 11 02	010	(2.0-	2.2-)	2000 02 05	695	0.2-	0.1+	2000 03 11	704	1.7+	0.3+
1998 12 15	704	1.2+	1.0-	2000 02 29	704	0.2-	0.3+	2000 03 11	704	0.4+	0.2+
1998 12 15	704	0.5-	0.6-	2000 02 29	704	0.3+	0.3-	2000 03 11	699	0.0	0.6+
1998 12 15	704	0.4-	0.6+	2000 02 29	704	0.7-	0.5-	2000 03 11	704	0.0	0.3-
1998 12 15	704	0.2+	1.3+	2000 02 29	704	0.4-	0.0	2000 03 11	704	0.5+	0.1-
1998 12 15	704	0.5+	0.9-	2000 02 29	704	0.6+	0.4+	2000 03 11	699	0.4+	0.2+
1998 12 16	704	0.5+	0.2-	2000 03 03	704	0.8-	0.6-	2000 03 11	699	0.6-	0.0
1998 12 16	704	1.1-	1.3-	2000 03 03	704	0.1+	0.6-	2000 03 11	699	0.3-	0.0

2000 DJ₄₈ = 1981 EL₄₂ = 1996 HG₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20416468	ω	11.32705	+0.99674476	-0.08056336		
<i>a</i>	2.8563777	Ω	353.29162	+0.07176367	+0.90394183		
<i>e</i>	0.1069512	<i>i</i>	1.50623	+0.03674043	+0.41999846		
<i>P</i>	4.83	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 02 12	413	0.1+	1.5-	1996 04 18	809	0.5-	1.1-	2000 02 29	704	0.0	0.5-
1981 02 12	413	0.0	0.4+	1996 04 18	809	0.8-	0.6+	2000 03 03	704	0.1-	0.3-
1981 03 02	413(11.9+	7.6-)		1996 05 19	809	(2.4+	5.9+)	2000 03 03	704	0.0	0.1+
1981 03 02	413	2.2-	1.2-	1996 05 19	809	(0.1-	8.7+)	2000 03 03	704	0.1+	0.4-
1981 03 11	413	0.1+	0.1+	1996 05 19	809	(0.6-	8.1+)	2000 03 03	704	0.3+	0.0
1981 03 15	413	1.6+	0.6-	1996 05 22	809	(0.1+	9.2+)	2000 03 03	704	0.3-	0.1+
1981 03 15	413	0.2-	1.4+	1996 05 22	809	(0.3-	7.6+)	2000 03 11	704	0.7+	1.5+
1996 04 17	809	1.2+	0.6+	2000 02 29	704	0.4+	0.1+	2000 03 11	704	0.2-	0.4+

1996 04 17	809	0.3+	1.0+	2000 02 29	704	0.1+	0.4-	2000 03 11	704	0.0	0.7+
1996 04 17	809	0.6+	0.2+	2000 02 29	704	0.3-	0.4-	2000 03 11	704	0.4-	0.5+
1996 04 18	809	0.6-	0.9-	2000 02 29	704	0.1+	0.0	2000 03 11	704	0.1+	0.2-

2000 DP₅₁ = 1998 QP₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	71.65023	ω	62.15367	+0.60751468	-0.79404186		
<i>a</i>	2.7547081	Ω	350.35536	+0.67872024	+0.53239263		
<i>e</i>	0.2979105	<i>i</i>	7.05519	+0.41263149	+0.29335238		
<i>P</i>	4.57	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.3+	0.4+	2000 02 04	704	1.0+	1.6+	2000 03 04	704	0.7+	0.3-
1998 08 17	704	0.5+	0.5+	2000 02 04	704	0.3+	0.5+	2000 03 04	704	0.0	0.1+
1998 08 17	704	0.4-	0.1-	2000 02 04	704	1.1-	0.0	2000 03 04	704	0.0	0.0
1998 08 17	704	1.0-	0.7-	2000 02 04	704	0.2+	0.0	2000 03 05	704	0.2-	0.1+
1998 08 17	704	0.7-	0.2+	2000 02 11	704	0.3-	0.2+	2000 03 05	704	0.2+	0.2+
1998 08 23	699	0.3+	0.9+	2000 02 11	704	0.7-	0.7+	2000 03 05	704	0.4+	0.6+
1998 08 23	704	1.0-	0.3-	2000 02 11	704	0.4+	0.5-	2000 03 05	704	0.1+	0.0
1998 08 23	704	0.2+	0.7-	2000 02 29	704	0.2+	0.0	2000 03 05	704	0.2+	0.1+
1998 08 23	699	0.5+	1.1+	2000 02 29	704	0.3+	0.1-	2000 03 06	704	0.2+	0.2-
1998 08 23	704	1.0-	0.5-	2000 02 29	704	0.6+	0.0	2000 03 06	704	0.1+	0.2+
1998 08 23	699	0.3+	0.5+	2000 02 29	704	0.2+	0.4-	2000 03 06	704	0.1+	0.3-
1998 08 23	704	0.1+	1.2+	2000 02 29	704	1.6-	0.1-	2000 03 11	704	0.1+	1.2+
1998 09 21	699	0.5-	0.4+	2000 03 03	704	0.1+	0.6+	2000 03 11	704	0.0	0.6+
1998 09 21	699	0.3-	0.7-	2000 03 03	704	0.0	0.1+	2000 03 11	704	0.2+	0.1+
1998 09 21	699	0.2-	0.4+	2000 03 03	704	0.3+	0.1+	2000 03 11	704	0.3+	0.3+
1998 10 12	699	0.2-	0.2+	2000 03 03	704	0.4+	0.3+	2000 03 11	704	0.3+	0.2+
1998 10 12	699	0.1+	1.0+	2000 03 04	704	0.2+	0.2-				
1998 10 12	699	0.4+	1.2+	2000 03 04	704	0.1+	0.1-				

2000 DO₅₂ = 1996 EG₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24202023	ω	254.82568	-0.43602756	+0.89987564		
<i>a</i>	2.5501649	Ω	349.30642	-0.80316063	-0.39422236		
<i>e</i>	0.1494829	<i>i</i>	3.14753	-0.40597164	-0.18658126		
<i>P</i>	4.07	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 03 11	691	0.2+	0.3+	2000 02 29	704	0.2-	0.3-	2000 03 03	704	0.4+	0.3+
1996 03 11	691	0.3+	0.2-	2000 02 29	704	0.8-	0.3+	2000 03 03	704	0.3-	0.2-
1996 03 11	691	0.5+	0.1+	2000 02 29	704	0.3+	0.4+	2000 03 03	704	0.5-	0.1-
1996 03 18	691	0.4-	0.7-	2000 02 29	704	0.8+	0.0	2000 03 11	704	0.4+	0.8+
1996 03 18	691	0.5-	0.1+	2000 03 03	704	0.2-	0.2-	2000 03 11	704	0.4-	0.1-
1996 03 18	691	0.1-	0.5+	2000 03 03	704	0.4-	0.4-	2000 03 11	704	0.8+	0.8-

2000 DV₅₂ = 1998 VY₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	156.75195	ω	72.86674	+0.99989312	-0.00411525		
<i>a</i>	2.4523617	Ω	287.36731	-0.00186790	+0.91574322		
<i>e</i>	0.0509917	<i>i</i>	0.84222	+0.01450015	+0.40174297		
<i>P</i>	3.84	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 11 10	704	0.7-	0.7+	2000 02 29	704

2000 MAR. 20

M.P.C. 39455

2000 DW₅₃ = 1993 PX₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	195.64435		(2000.0)	P	Q
<i>n</i>	0.23152316	ω	68.15283	+0.84265219	+0.53746364
<i>a</i>	2.6266755	Ω	259.32225	-0.50550243	+0.76868948
<i>e</i>	0.0826201	<i>i</i>	1.90769	-0.18548472	+0.34676985
<i>P</i>	4.26	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1993 08 15	010	0.2-	0.7+	1998 12 17	704	0.5+	0.6-	2000 03 03	704	0.2-	0.2+
1993 08 15	010	0.1-	0.5-	1998 12 17	704	1.0-	0.8+	2000 03 03	704	0.1-	0.1+
1993 08 16	010	0.7-	0.9-	1998 12 17	704	1.3-	1.5+	2000 03 03	704	0.7+	0.1-
1993 08 16	010	0.3-	0.8-	1998 12 17	704	(5.9-	1.2-)	2000 03 03	704	0.2-	0.5-
1993 08 16	010	0.4+	0.2+	2000 02 06	704	0.7-	0.3+	2000 03 03	608	0.0	1.2-
1993 08 19	010	0.7+	0.6+	2000 02 06	704	0.2+	0.2-	2000 03 03	608	0.0	0.4-
1993 08 19	010	0.3+	0.2+	2000 02 06	704	0.6-	0.0	2000 03 03	608	0.3+	0.0
1993 08 20	010	0.4+	0.6-	2000 02 26	703	0.7+	0.7+	2000 03 11	699	0.1+	0.5-
1998 12 11	699	1.0+	0.4+	2000 02 26	703	0.2+	0.1-	2000 03 11	704	0.2+	0.4-
1998 12 11	699	0.7+	1.3+	2000 02 26	703	0.8-	0.7+	2000 03 11	699	0.6-	0.2-
1998 12 11	699	0.2+	0.6+	2000 02 26	703	1.1+	1.0+	2000 03 11	704	0.5+	0.0
1998 12 14	704	0.7-	1.1-	2000 02 29	704	0.6-	0.0	2000 03 11	699	0.1-	0.2-
1998 12 14	704	1.8+	1.3-	2000 02 29	704	0.5-	0.1+	2000 03 11	704	0.6+	0.1-
1998 12 14	704	0.8-	1.3-	2000 02 29	704	0.6-	0.3-	2000 03 11	704	0.7+	0.3-
1998 12 14	704	(4.7-	0.8+)	2000 02 29	704	0.0	0.2-	2000 03 11	699	0.1+	0.2-
1998 12 17	704	0.4-	0.5-	2000 03 03	704	0.1+	0.0	2000 03 11	704	0.4+	0.8+

2000 DX₅₄ = 1998 SN₁₅₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	196.05919		(2000.0)	P	Q
<i>n</i>	0.30306437	ω	172.98711	+0.83285131	+0.55310840
<i>a</i>	2.1950586	Ω	153.39958	-0.51004547	+0.78147835
<i>e</i>	0.0936961	<i>i</i>	2.65373	-0.21497050	+0.28872595
<i>P</i>	3.25	<i>H</i>	15.8	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1998 09 26	704	0.7+	0.4+	2000 02 29	704	1.3-	1.1-	2000 03 03	704	0.9+	1.0-
1998 09 26	704	0.5-	0.9-	2000 02 29	704	0.4+	0.1+	2000 03 11	704	0.0	0.4-
1998 09 26	704	(2.9+	0.7+)	2000 02 29	704	0.4-	0.5+	2000 03 11	699	0.8+	1.0+
1998 09 26	704	1.6+	0.8-	2000 02 29	704	0.1+	0.8+	2000 03 11	704	0.9-	0.5+
1998 09 26	704	0.3+	1.0+	2000 03 03	704	0.9-	0.9+	2000 03 11	704	0.3+	0.5+
1998 09 27	704	0.5-	0.3-	2000 03 03	704	0.5-	0.3-	2000 03 11	699	0.3+	1.1-
1998 09 27	704	1.5-	0.8+	2000 03 03	704	1.2+	0.0	2000 03 11	699	0.5+	0.9-
1998 09 27	704	0.1-	0.1-	2000 03 03	704	0.7+	0.4+	2000 03 11	699	1.2-	0.0

2000 DK₅₅ = 1994 LF₇ = 1995 YY₄ = 1998 SN₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	218.83843		(2000.0)	P	Q
<i>n</i>	0.29981915	ω	192.83886	+0.54101528	+0.84054348
<i>a</i>	2.2108697	Ω	109.92028	-0.76894906	+0.50790942
<i>e</i>	0.0229106	<i>i</i>	1.71220	-0.34061681	+0.18845340
<i>P</i>	3.29	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1994 06 03	809	1.3-	1.2+	1998 09 27	704	1.1+	0.0	2000 03 04	704	0.1+	0.2+
1994 06 03	809	0.5-	1.2+	1998 09 27	704	0.2-	0.8+	2000 03 04	704	0.6-	0.1+
1994 06 03	809	1.2+	0.1-	1998 09 27	704	1.2+	1.0+	2000 03 04	704	0.5-	0.2+
1994 06 04	809	0.7-	1.3-	1998 09 27	704	0.3-	1.0-	2000 03 04	704	0.2+	0.7+
1994 06 04	809	0.0	1.4-	2000 02 11	704	0.6+	0.2-	2000 03 04	704	0.0	0.4+
1994 06 04	809	1.0+	1.7-	2000 02 11	704	0.5-	1.1-	2000 03 05	704	0.0	0.7+
1995 12 16	691	0.0	0.3-	2000 02 11	704	0.3-	0.4+	2000 03 05	704	0.6-	0.4+
1995 12 16	691	0.0	0.2-	2000 02 11	704	0.4+	0.0	2000 03 05	704	0.1-	0.5+
1995 12 16	691	0.0	0.4-	2000 02 29	704	0.6+	0.8-	2000 03 05	704	0.1+	0.9+
1995 12 22	691	0.3+	0.6-	2000 02 29	704	0.3-	0.3+	2000 03 11	704	0.2+	0.3+
1995 12 22	691	0.1+	0.4-	2000 02 29	704	0.9-	0.3-	2000 03 11	704	0.9-	0.0
1995 12 22	691	0.4+	0.7-	2000 02 29	704	0.0	0.3+	2000 03 11	704	0.2-	0.0

1998 09 26	704	0.7-	0.8-	2000 03 03	704	0.2+	0.0	2000 03 11	704	0.1+	0.2-
1998 09 26	704	0.0	0.3+	2000 03 03	704	0.2+	0.2-	2000 03 11	049	0.4+	0.8-
1998 09 26	704	0.3+	0.8+	2000 03 03	704	0.1+	0.1+	2000 03 11	049	0.8+	1.2-
1998 09 26	704	1.2-	0.1-	2000 03 03	704	0.7+	0.2+	2000 03 11	049	0.2+	1.0-
1998 09 26	704	0.5-	0.5-	2000 03 03	704	0.2+	0.2+				

2000 DY₅₅ = 1993 FC₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	217.26318		(2000.0)	P	Q
<i>n</i>	0.26870316	ω	312.49000	+0.69562061	+0.71840837
<i>a</i>	2.3784144	Ω	1.58816	-0.64604262	+0.62626531
<i>e</i>	0.1735844	<i>i</i>	2.43430	-0.31423065	+0.30278899
<i>P</i>	3.67	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1993 03 21	809	1.0-	0.1+	2000 03 03	704	1.0+	1.1-	2000 03 11	704	0.5+	0.5+
1993 03 22	809	0.1-	0.8+	2000 03 03	704	0.5+	0.1-	2000 03 11	704	0.4+	0.8+
1993 03 26	809	1.1+	0.9-	2000 03 05	704	0.2-	0.2+	2000 03 11	704	0.5+	0.5+
2000 02 29	704	(2.4+	1.7+)	2000 03 05	704	0.0	0.0	2000 03 11	699	0.7+	0.4+
2000 02 29	704	0.3-	0.6+	2000 03 05	704	0.3-	0.8-	2000 03 11	699	1.3-	0.8-
2000 02 29	704	0.8-	0.6-	2000 03 05	704	0.2-	0.1-	2000 03 11	699	0.4-	0.2+
2000 02 29	704	0.0	0.2-	2000 03 05	704	0.4-	0.7+	2000 03 11	699	0.1-	1.1-
2000 03 03	704	0.3-	1.2+	2000 03 11	704	0.0	0.4-				
2000 03 03	704	0.6+	0.3-	2000 03 11	704	0.0	0.4+				

2000 DZ₅₅ = 1997 LU₇ = 1998 RX₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	95.03400		(2000.0)	P	Q
<i>n</i>	0.26518894	ω	266.83053	+0.66804218	-0.74342976
<i>a</i>	2.3993805	Ω	141.18997	+0.70145958	+0.61474656
<i>e</i>	0.1616757	<i>i</i>	2.93787	+0.24834271	+0.26343663
<i>P</i>	3.72	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1995 11 24	327	1.6+	2.4+	1998 09 13	699	0.1+	0.3-	2000 03 04	704	0.7-	0.0
1995 11 24	327	0.7-	2.7+	1998 09 18	699	0.3+	1.4+	2000 03 05	704	0.1+	0.6+
1995 11 24	327	0.8+	2.8+	1998 09 18	699	0.6-	1.6+	2000 03 05	704	0.6+	0.5+
1997 05 04	809	1.3-	0.5+	1998 09 18	699	0.2+	1.4+	2000 03 05	704	0.6-	0.2+
1997 05 04	809	0.2-	0.0	1998 10 12	699	0.3-	1.3+	2000 03 05	704	0.2+	0.3+
1997 05 04	809	2.1-	0.6-	1998 10 12	699	0.6-	0.6+	2000 03 05	704	0.6+	0.5+
1997 06 07	809	1.3+	1.6+	1998 10 12	699	0.4-	0.7+	2000 03 06	704	0.0	0.1+
1997 06 07	809	0.8+	1.8+	2000 02 29	704	0.4+	0.1-	2000 03 06	704	0.2-	0.8-
1997 06 07	809	0.8+	0.7+	2000 02 29	704	0.1+	0.4+	2000 03 06	704	0.2-	0.7+
1997 06 08	809	1.1+	1.0+	2000 02 29	704	0.3+	0.5+	2000 03 11	704	0.4+	0.3+
1997 06 08	809	1.1+	1.0+	2000 03 03	704	0.4+	0.1-	2000 03 11	704	0.4+	0.0
1997 06 08	809	0.5+	1.1+	2000 03 03	704	0.6+	0.2+	2000 03 11	704	0.7+	0.2-
1998 08 17	704	0.2+	1.4+	2000 03 03	704	0.4+	0.0	2000 03 11	704	0.4+	0.1+
1998 08 17	704	1.2-	0.4+	2000 03 03	704	0.1+	0.4+	2000 03 11	704	0.1-	0.2+
1998 08 17	704	0.7-	1.4-	2000 03 03	704	0.2+	0.2+	2000 03 11	699	0.4-	0.5+
1998 08 17	704	1.3-	1.0+	2000 03 04	704	0.8+	0.3+	2000 03 11	699	0.9-	0.2+
1998 08 17	704	0.9+	1.8+	2000 03 04	704	0.3+	0.2+	2000 03 11	699	0.1-	0.3+
1998 09 13	699	0.5+	0.0	2000 03 04	704	0.3-	0.1-	2000 03 11	699	0.6-	0.7+
1998 09 13	699	0.9-	0.3+	2000 03 04	704	0.4-	0.4-				

2000 DB₅₆ = 1991 RF₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	190.51266		(2000.0)	P	Q
<i>n</i>	0.17460672	ω	177.24435	+0.89029319	+0.44978484
<i>a</i>	3.1702639	Ω	155.62833	-0.42104113	+0.87259855
<i>e</i>	0.0930015	<i>i</i>	9.93780	-0.17350044	+0.19043468
<i>P</i>	5.64	<i>H</i>	12.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1991 09 12	675	0.1-	0.9+	2000 02 29	704</

1991 09 16	675	1.4+	0.2-	2000 03 03	704	0.0	0.3+	2000 03 05	704	0.0	0.2-
1991 09 16	675	0.1+	0.8-	2000 03 03	704	0.1-	0.9-	2000 03 05	704	0.6+	0.4+
2000 02 11	704	0.2+	0.1-	2000 03 03	704	0.2+	0.1-	2000 03 06	704	0.2+	0.1+
2000 02 11	704	0.1+	1.0-	2000 03 03	704	0.4+	0.5-	2000 03 06	704	0.3+	0.8-
2000 02 11	704	1.1-	1.5+	2000 03 03	704	0.3+	0.0	2000 03 06	704	0.1+	0.2-
2000 02 11	704	0.0	0.4-	2000 03 03	704	0.1+	0.7-	2000 03 11	704	0.3-	0.3+
2000 02 29	704	0.6-	0.1+	2000 03 03	704	0.3+	0.6+	2000 03 11	704	0.5-	0.3+
2000 02 29	704	0.0	0.3+	2000 03 03	704	0.2-	0.4-	2000 03 11	704	0.4-	0.2+
2000 02 29	704	0.4-	0.1+	2000 03 03	704	0.5+	0.7+	2000 03 11	704	0.1-	0.1-
2000 02 29	704	0.0	0.4+	2000 03 05	704	0.1+	0.0	2000 03 11	704	1.0-	0.0

2000 DL₅₆ = 1982 YT

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	70.31395		(2000.0)	P	Q		
<i>n</i>	0.23698525	ω	86.11835	+0.46917369	-0.88285232		
<i>a</i>	2.5861587	Ω	335.86550	+0.78830718	+0.42949042		
<i>e</i>	0.2507158	<i>i</i>	2.96676	+0.39805506	+0.19002570		
<i>P</i>	4.16	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1982 12 22	511	0.5-	0.2-	2000 02 29	704	0.6+	0.2+	2000 03 04	704	0.3+	0.3-
1982 12 23	511	0.5+	0.2+	2000 02 29	704	0.4+	0.1-	2000 03 04	704	0.2-	0.7-
2000 02 06	704	0.9-	0.2+	2000 02 29	704	1.1+	0.2+	2000 03 11	704	1.1+	0.4-
2000 02 06	704	0.4+	0.2-	2000 02 29	704	0.2+	0.1-	2000 03 11	704	0.3-	0.2+
2000 02 06	704	0.2+	0.5+	2000 03 03	704	0.1+	0.3+	2000 03 11	704	1.2+	0.0
2000 02 26	703	1.6-	0.1-	2000 03 03	704	0.3+	0.0	2000 03 11	704	1.0+	0.5-
2000 02 26	703	1.3+	0.0	2000 03 03	704	0.1+	0.9+	2000 03 11	704	0.3+	0.3-
2000 02 26	703	0.7-	1.9-	2000 03 03	704	0.0	0.5+	2000 03 11	699	0.9-	0.7+
2000 02 26	703	0.3-	0.3+	2000 03 03	704	0.1+	0.6+	2000 03 11	699	0.8-	1.5+
2000 02 26	691	0.0	0.0	2000 03 04	704	0.2-	0.0	2000 03 11	699	1.0-	0.7+
2000 02 26	691	0.2+	0.1-	2000 03 04	704	0.3-	0.5-	2000 03 11	699	1.4-	1.0-
2000 02 26	691	0.0	0.4-	2000 03 04	704	0.4-	0.2-				

2000 DS₅₆ = 1998 SN₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	59.44036		(2000.0)	P	Q		
<i>n</i>	0.23853344	ω	104.33878	+0.04299438	-0.99896722		
<i>a</i>	2.5749564	Ω	343.17632	+0.89595320	+0.04506108		
<i>e</i>	0.1336519	<i>i</i>	2.91053	+0.44206260	+0.00583031		
<i>P</i>	4.13	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.2-	0.1+	2000 02 26	703	1.5+	0.6-	2000 03 10	704	0.5-	0.0
1998 09 26	704	0.4-	0.3+	2000 02 26	703	1.2+	0.1+	2000 03 10	704	0.2-	0.2+
1998 09 26	704	0.5-	0.3-	2000 02 26	703	0.4+	0.4+	2000 03 10	704	0.4+	1.1+
1998 09 26	704	0.3+	0.3+	2000 02 26	703	0.5+	0.7+	2000 03 10	704	0.5+	1.5+
1998 09 26	704	0.8+	1.2-	2000 02 29	704	0.0	0.4-	2000 03 11	704	0.9-	0.1-
1998 09 27	704	1.3+	0.1+	2000 02 29	704	0.7-	0.2+	2000 03 11	704	0.8-	0.2-
1998 09 27	704	0.6-	0.1+	2000 02 29	704	0.6-	0.4+	2000 03 11	704	0.7-	0.2-
1998 09 27	704	1.0-	0.3+	2000 02 29	704	0.8-	0.4-	2000 03 11	704	0.4-	0.4-
1998 09 27	704	0.5+	0.1+	2000 02 29	704	1.9-	0.3+	2000 03 11	704	0.3-	0.1-
1998 09 27	704	0.1-	0.2+	2000 03 03	704	0.4+	0.1+	2000 03 11	699	1.7+	1.8-
2000 02 11	704	0.2+	0.6-	2000 03 03	704	0.3+	0.3+	2000 03 11	699	0.5-	0.2-
2000 02 11	704	0.7+	0.1+	2000 03 03	704	0.3+	0.1+	2000 03 11	699	0.6+	0.1-
2000 02 11	704	0.4-	0.7+	2000 03 03	704	0.4+	0.2+	2000 03 11	699	0.9+	0.5-
2000 02 11	704	0.1-	0.1-	2000 03 03	704	0.5+	0.1+				
2000 02 11	704	1.3-	0.7-	2000 03 10	704	0.5-	0.0				

2000 DU₅₆ = 1969 TK₁ = 1969 UE₁ = 1992 WB₄ = 1998 XF₆₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	122.00214		(2000.0)	P	Q		
<i>n</i>	0.17239036	ω	230.91018	+0.91551228	-0.40160892		
<i>a</i>	3.1973785	Ω	152.74502	+0.38307139	+0.85253598		
<i>e</i>	0.1920645	<i>i</i>	2.92889	+0.12285592	+0.33450364		
<i>P</i>	5.72	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1969 10 08	095	1.2+	2.9-	1998 12 16	704	0.2-	0.3-	2000 03 03	704	0.3+	0.4-
1969 10 16	095	0.8+	2.9-	1998 12 16	704	0.7-	1.3-	2000 03 03	704	0.4+	0.0
1992 11 21	399	0.8+	1.1+	1998 12 16	704	1.3+	0.0	2000 03 03	704	0.3-	0.1+
1992 11 21	399	1.2-	1.5+	1998 12 16	704	1.4+	0.0	2000 03 03	704	0.4+	0.5+
1998 11 23	704	0.4+	0.9+	1998 12 16	704	0.7+	0.2-	2000 03 03	704	0.4+	0.5+
1998 11 23	704	1.6-	1.0+	1998 12 22	704	0.4-	0.1-	2000 03 11	704	0.1-	0.1-
1998 11 23	704	0.6+	1.1+	1998 12 22	704	1.0-	0.6-	2000 03 11	704	0.3-	0.1-
1998 11 23	704	(6.0-	1.3+)	1998 12 22	704	0.6+	0.6-	2000 03 11	704	0.0	0.1-
1998 12 15	704	0.4+	0.3+	1998 12 22	704	1.2-	0.1+	2000 03 11	704	0.4+	0.4+
1998 12 15	704	1.0-	0.5+	2000 02 29	704	0.6-	0.7-	2000 03 11	704	0.7-	0.2+
1998 12 15	704	0.9-	0.4+	2000 02 29	704	0.3+	0.4-	2000 03 15	691	0.4-	0.8-
1998 12 15	704	0.7+	0.6+	2000 02 29	704	0.2+	1.0-	2000 03 15	691	0.6-	1.2-
1998 12 15	704	0.6+	0.0	2000 02 29	704	0.5-	0.9-	2000 03 15	691	0.5-	0.9-

2000 DY₅₆ = 1998 RZ₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	65.33546		(2000.0)	P	Q		
<i>n</i>	0.22355616	ω	142.35717	+0.27961903	-0.95990756		
<i>a</i>	2.6887161	Ω	291.39772	+0.87564711	+0.26340918		
<i>e</i>	0.1943599	<i>i</i>	1.21640	+0.39377066	+0.09588050		
<i>P</i>	4.41	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 14	704	0.8-	0.0	2000 02 29	704	0.5-	0.6+	2000 03 03	704	0.2+	0.3-
1998 09 14	704	1.0+	0.7+	2000 02 29	704	0.3+	0.1+	2000 03 03	704	0.3+	0.1-
1998 09 14	704	1.2-	1.7-	2000 02 29	704	0.1+	0.1-	2000 03 11	704	0.2+	0.0
1998 09 18	704	0.3+	0.6-	2000 02 29	704	0.2+	0.4+	2000 03 11	704	0.0	0.2-
1998 09 18	704	1.0+	1.4-	2000 03 03	704	0.2+	0.4+	2000 03 11	704	0.2-	0.3-
1998 09 18	704	1.1+	1.7+	2000 03 03	704	0.2+	0.2-	2000 03 11	704	1.5-	0.5+
1998 09 18	704	1.3-	1.2+	2000 03 03	704	0.1-	0.3-	2000 03 11	704	0.4+	0.8-

2000 DZ₅₆ = 1992 EK₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	25.55636		(2000.0)	P	Q		
<i>n</i>	0.24592371	ω	308.29368	-0.64934200	-0.76049471		
<i>a</i>	2.5231077	Ω	182.20046	+0.71057929	-0.60593921		
<i>e</i>	0.0871225	<i>i</i>	2.48504	+0.27098348	-0.23342125		
<i>P</i>	4.01	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1992 03 01	809	0.4+	0.5-	2000 02 29	704	0.4+	0.5+	2000 03 04	704	0.4-	0.4+
1992 03 03	809	1.9-	0.6+	2000 02 29	704	0.6-	0.5+	2000 03 05	704	0.6+	0.1-
1992 03 06	809	1.4+	0.3-	2000 02 29	704	0.1-	0.4+	2000 03 05	704	0.0	0.8-
2000 02 25	691	0.4+	0.2-	2000 03 03	704	0.6+	1.0+	2000 03 05	704	0.2-	0.6-
2000 02 25	691	0.1-	0.1-	2000 03 03	704	0.3+	0.1+	2000 03 05	704	0.3+	0.0
2000 02 25	691	0.2+	0.1-	2000 03 03	704	0.7+	0.0	2000 03 05	704	0.2-	1.2-
2000 02 26	703	0.6-	0.7+	2000 03 03	704	0.2-	0.4-	2000 03 11	704	0.2+	0.4+
2000 02 26	703	1.0-	1.7-	2000 03 03	704	0.2-	0.5-	2000 03 11	704	0.1-	0.2-
2000 02 26	703	1.2+	0.3+	2000 03 04	704	0.7-	0.0	2000 03 11	704	0.0	0.2+
2000 02 26	703	0.0	0.4+	2000 03 04	704	0.5-	0.3-	2000 03 11	704	0.0	0.4+
2000 02 29	704	0.6+	0.1-	2000 03 04	704	0.3-	1.1+	2000 03 11	704	0.2-	0.0

2000 DO₅₇ = 1998 SR₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	68.93775		(2000.0)	P	Q		
<i>n</i>	0.19013705	ω	197.19537	+0.38246913	-0.92370754		
<i>a</i>	2.9951935	Ω	230.32366	+0.85104254	+0.36143262		
<i>e</i>	0.2167030	<i>i</i>	1.63415	+0.35978322	+0.12700727		
<i>P</i>	5.18	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

2000 MAR. 20

M.P.C. 39457

1998 09 30	691	0.5+	0.4-	2000 03 03	704	0.5+	0.6-	2000 03 05	704	0.9+	0.1+
1998 09 30	691	0.8+	0.5-	2000 03 03	704	0.2+	0.4+	2000 03 11	699	1.7-	0.3+
1998 09 30	691	0.7+	0.5-	2000 03 03	704	0.3+	0.2-	2000 03 11	704	0.3+	0.5-
1998 10 10	699	0.8-	0.6+	2000 03 03	704	0.7+	0.2-	2000 03 11	699	0.2-	0.6+
1998 10 10	699	0.1-	0.7+	2000 03 03	704	0.9+	1.7-	2000 03 11	704	0.4+	0.9-
1998 10 10	699	0.6-	0.3+	2000 03 04	704	0.0	0.2+	2000 03 11	699	0.9+	0.9-
1998 11 11	704	0.5-	0.8+	2000 03 04	704	0.7-	0.6+	2000 03 11	704	0.5-	0.6-
1998 11 11	704	1.2+	0.8-	2000 03 04	704	0.1+	0.5+	2000 03 11	704	1.6-	1.3+
1998 11 11	704	0.4-	0.7+	2000 03 04	704	0.1-	0.2+	2000 03 11	699	1.4-	0.2-
1998 11 11	704	(2.7-	0.7+)	2000 03 04	704	0.7+	0.0	2000 03 11	704	0.0	0.4+
2000 02 29	704	0.2+	0.3+	2000 03 05	704	1.2+	0.1-				

2000 DA₅₈ = 1998 VB₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	129.18820		(2000.0)	P	Q			Williams			
<i>n</i>	0.24158115	ω	197.74102	+0.92166702	-0.38788150						
<i>a</i>	2.5532540	Ω	185.10767	+0.36689848	+0.87875148						
<i>e</i>	0.1205923	<i>i</i>	5.68744	+0.12615626	+0.27810749						
<i>P</i>	4.08	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

1998 10 20	699	0.3+	0.2-	1998 11 11	704	1.9-	0.1+	2000 03 03	704	0.2+	0.2+
1998 10 20	699	0.5-	0.2-	1998 11 11	704	0.9+	0.2-	2000 03 03	704	0.5+	0.1-
1998 10 20	699	0.2+	0.1-	1998 11 11	704	0.7+	1.1-	2000 03 03	704	0.1+	0.1-
1998 11 10	704	0.2-	1.2+	1998 11 11	704	0.4-	1.4-	2000 03 03	704	0.6+	0.2-
1998 11 10	704	1.0+	0.3-	2000 02 29	704	0.2+	0.4+	2000 03 11	704	0.9-	0.2-
1998 11 10	704	0.1-	0.3-	2000 02 29	704	0.0	1.0+	2000 03 11	704	0.0	0.5-
1998 11 10	704	0.2+	0.5+	2000 02 29	704	0.2+	0.8-	2000 03 11	704	0.2-	0.5-
1998 11 10	704	0.0	0.7+	2000 02 29	704	0.3-	0.2+	2000 03 11	704	0.0	0.4+
1998 11 11	704	0.1-	1.1+	2000 03 03	704	0.4-	0.1+				

2000 DZ₅₈ = 1991 TN₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	255.30071		(2000.0)	P	Q			Williams			
<i>n</i>	0.17315100	ω	342.83265	+0.14204136	+0.98942520						
<i>a</i>	3.1880078	Ω	295.32519	-0.90432318	+0.11764846						
<i>e</i>	0.0961636	<i>i</i>	1.86140	-0.40252186	+0.08483284						
<i>P</i>	5.69	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

1991 10 03	033	0.2+	0.2-	2000 02 29	704	0.1-	0.3+	2000 03 03	691	0.8-	0.6-
1991 10 04	033	0.1-	0.0	2000 02 29	704	0.5+	0.2+	2000 03 11	704	0.2-	0.0
1991 10 04	033	0.1-	0.1+	2000 02 29	704	0.0	0.1-	2000 03 11	704	0.4-	0.0
2000 02 02	704	0.6+	0.5-	2000 02 29	704	0.0	0.4-	2000 03 11	704	0.2-	0.2+
2000 02 02	704	0.3+	0.8+	2000 03 03	704	0.5+	0.3+	2000 03 11	704	0.0	0.2-
2000 02 02	704	0.7-	0.1+	2000 03 03	704	0.4+	0.1-	2000 03 11	699	0.4+	0.0
2000 02 02	704	0.9+	0.1-	2000 03 03	704	0.3+	0.1-	2000 03 11	699	0.1+	0.4+
2000 02 26	703	(0.4+	2.3+)	2000 03 03	704	0.5+	0.1+	2000 03 11	699	0.1+	0.2-
2000 02 26	703	1.2+	0.2-	2000 03 03	704	0.3+	0.3+	2000 03 11	699	0.6+	0.7-
2000 02 26	703	1.3-	0.3+	2000 03 03	691	0.8-	0.5-				
2000 02 26	703	1.6-	1.1+	2000 03 03	691	0.7-	0.6-				

2000 DB₅₉ = 1997 OF₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	132.58292		(2000.0)	P	Q			Williams			
<i>n</i>	0.19585538	ω	168.70332	+0.92550763	-0.37849882						
<i>a</i>	2.9366062	Ω	213.54698	+0.34558911	+0.85826920						
<i>e</i>	0.1068126	<i>i</i>	1.36884	+0.15493158	+0.34657269						
<i>P</i>	5.03	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4				

Residuals in seconds of arc

1997 07 30	910	0.1-	0.4+	2000 02 29	704	0.1+	0.6+	2000 03 04	691	0.1+	0.4-
1997 07 31	910	0.1+	0.0	2000 02 29	704	0.8-	0.0	2000 03 04	691	0.2-	0.6-
1997 07 31	910	0.3+	0.0	2000 02 29	704	0.4+	0.2-	2000 03 11	704	0.1+	1.0+
1997 08 01	910	0.3-	0.5+	2000 02 29	704	0.3+	0.2-	2000 03 11	704	0.5+	0.1-

1997 08 02	910	0.3-	0.3+	2000 03 03	704	0.6+	0.4+	2000 03 11	704	0.4+	0.0
1997 08 02	910	0.4-	0.5+	2000 03 03	704	0.5+	0.6+	2000 03 11	704	0.3-	0.1-
1998 12 15	704	0.1-	0.8+	2000 03 03	704	0.6+	0.7+	2000 03 11	704	0.6+	0.1+
1998 12 15	704	(2.8+	0.0)	2000 03 03	704	0.5+	0.5+	2000 03 11	699	0.2-	0.3+
1998 12 15	704	0.9+	0.7-	2000 03 03	704	0.8+	0.1+	2000 03 11	699	0.1+	0.8+
1998 12 15	704	0.9-	0.7+	2000 03 03	691	0.6-	0.3-	2000 03 11	699	0.4+	0.1+
2000 02 25	691	0.6-	0.5-	2000 03 03	691	0.5-	0.3-	2000 03 11	699	0.4-	0.1+
2000 02 25	691	0.5-	0.0	2000 03 03	691	0.6-	0.4-				
2000 02 25	691	0.7-	0.3-	2000 03 04	691	0.0	0.5-				

2000 DJ₅₉ = 1980 FO₈ = 1992 OL₆ = 1998 XX₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	99.32950		(2000.0)	P	Q			Williams			
<i>n</i>	0.19526069	ω	106.47380	+0.60735067	-0.79433991						
<i>a</i>	2.9425657	Ω	306.12162	+0.72298781	+0.55903833						
<i>e</i>	0.0928033	<i>i</i>	0.86665	+0.32926248	+0.23769783						
<i>P</i>	5.05	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1				

Residuals in seconds of arc

1980 03 23	809	0.5-	1.0-	1998 12 17	704	1.0+	0.6-	2000 03 03	704	0.2+	0.4-
1992 07 30	809	1.2+	1.8-	2000 02 26	703	0.3+	0.1+	2000 03 03	704	0.3+	0.3-
1992 07 30	809	0.3+	1.4-	2000 02 26	703	0.1-	0.1-	2000 03 04	691	0.6-	0.2-
1992 07 30	809	0.1+	1.3-	2000 02 26	703	0.1-	0.1+	2000 03 04	691	0.5-	0.3+
1992 07 31	809	(1.1+	2.4-)	2000 02 26	703	1.2-	0.3-	2000 03 04	691	0.6-	0.4-
1992 07 31	809	(0.5+	2.3-)	2000 02 27	691	0.4-	0.6-	2000 03 11	704	0.2+	0.2-
1992 07 31	809	(0.7-	2.9-)	2000 02 27	691	0.2-	0.5-	2000 03 11	704	0.4-	0.0
1998 12 14	704	0.5-	0.1+	2000 02 27	691	0.4-	0.4-	2000 03 11	704	0.1+	0.2-
1998 12 14	704	0.6-	0.7-	2000 02 29	704	0.4+	0.0	2000 03 11	704	0.1+	0.3-
1998 12 14	704	0.2-	0.1-	2000 02 29	704	0.2+	0.3-	2000 03 11	704	0.4-	0.2-
1998 12 14	704	0.7+	0.5+	2000 02 29	704	0.6+	0.5+	2000 03 11	699	0.1+	0.1+
1998 12 14	704	1.3+	1.0+	2000 02 29	704	0.6+	0.2+	2000 03 11	699	0.2-	0.1-
1998 12 17	704	1.7-	0.6-	2000 03 03	704	0.7+	0.3-	2000 03 11	699	0.1+	0.5+
1998 12 17	704	0.8+	0.8-	2000 03 03	704	0.2+	0.2-	2000 03 11	699	0.6-	0.0
1998 12 17	704	0.3-	0.8-	2000 03 03	704	0.2+	0.0				

2000 DV₅₉ = 1980 TN₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	167.00985		(2000.0)	P	Q			Williams			
<i>n</i>	0.22527871	ω	16.60363	+0.98910194	+0.14538625						
<i>a</i>	2.6749928	Ω	335.00122	-0.14056252	+0.88548033						
<i>e</i>	0.2339599	<i>i</i>	3.15272	-0.04381238	+0.44134728						
<i>P</i>	4.38	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1				

Residuals in seconds of arc

1980 10 10	095	1.5-	0.1+	1999 01 16	704	(2.8-	0.1+)	2000 03 03	704	0.1-	0.1-
1980 10 15	095	1.6+	0.3-	2000 02 02	704	0.4-	0.4+	2000 03 03	704	0.6+	0.0
1993 09 18	010	0.3-	0.3+	2000 02 02	704	0.1-	0.2-	2000 03 11	704	0.5+	0.2+
1993 09 18	010	0.6-	1.7+	2000 02 02	704	0.1+	0.3+	2000 03 11	704	0.0	0.1+
1993 09 18	010	0.5-	1.0+	2000 02 02	704	0.4+	1.7+	2000 03 11	704	0.1-	0.4+
1998 12 17	704	0.5-	0.4+	2000 02 29	704	0.0	0.7+	2000 03 11	704	1.1+	0.0
1998 12 17	704	(0.8+	2.5-)	2000 02 29	704	0.2+	0.1+	2000 03 11	704	0.7-	0.2+
1998 12 17	704	1.6+	0.6+	2000 02 29	704	0.0	0.0	2000 03 11	699	0.1+	0.3+
1998 12 17	704	0.9-	0.1-	2000 02 29	704	0.6-	0.4-	2000 03 11	699	0.4+	0.0
1999 01 16	704	0.5+	0.5+	2000 03 03	704	0.0	0.0	2000 03 11	699	0.2+	0.2-
1999 01 16	704	0.7-	1.1-	2000 03 03	704	0.2-	0.4+	2000 03 11	699	0.4+	0.0
1999 01 16	704	0.1-	0.5-	2000 03 03	704	0.0	0.0				

2000 DS₆₀ = 1977 EM₇ = 1998 XS₆₂

Epoch 2000 Feb.

Residuals in seconds of arc

1977 03 12	381	0.1−	0.3+	1999 01 14	704	1.8+	1.1−	2000 02 26	703	0.3−	0.1+
1977 03 12	381	0.3−	0.5+	1999 11 10	703	0.5+	0.8−	2000 02 29	704	0.2−	0.4+
1977 03 14	381	0.1+	0.5−	1999 11 10	703	0.0	0.0	2000 02 29	704	2.0−	0.1+
1977 03 14	381	1.6+	0.4−	1999 11 10	703	(2.2+	0.5−)	2000 02 29	704	0.8−	0.4+
1977 03 15	381	2.2−	1.6−	1999 11 10	703	0.0	0.1+	2000 03 03	704	0.1−	0.1−
1977 03 15	381	0.9−	0.6−	1999 12 05	704	1.4+	1.3−	2000 03 03	704	0.3−	0.1−
1998 12 12	704	0.2+	0.2−	1999 12 05	704	0.6−	0.3+	2000 03 03	704	0.3−	0.3+
1998 12 12	704	0.3+	0.4+	1999 12 05	699	0.3−	1.2+	2000 03 03	704	0.4−	0.3+
1998 12 12	704	0.1+	0.5−	1999 12 05	704	1.0+	1.0−	2000 03 03	704	0.2−	0.2+
1998 12 12	704	0.4+	0.2−	1999 12 05	699	(0.9−	2.5+)	2000 03 09	049	1.1+	1.0−
1998 12 12	704	0.3−	0.8+	1999 12 05	699	0.1−	1.9+	2000 03 09	049	1.1+	1.1−
1998 12 15	704	0.1+	0.2+	2000 02 04	704	0.5+	0.2−	2000 03 09	049	1.1+	1.0−
1998 12 15	704	0.2−	0.0	2000 02 04	704	0.4+	0.1+	2000 03 11	704	0.2−	0.2+
1998 12 15	704	0.7−	0.3+	2000 02 04	704	0.2+	0.1+	2000 03 11	704	0.1+	0.3+
1998 12 15	704	0.4−	0.5+	2000 02 04	704	0.3+	0.5+	2000 03 11	704	0.1−	0.4+
1998 12 15	704	0.6−	0.3+	2000 02 04	704	0.1+	0.6−	2000 03 11	704	0.2+	0.3+
1998 12 15	704	0.4−	0.6+	2000 02 11	704	0.2+	0.0	2000 03 11	704	0.6−	0.7+
1998 12 15	704	0.0	0.0	2000 02 11	704	0.2−	0.1+	2000 03 11	699	0.2−	0.4+
1998 12 15	704	0.0	0.3−	2000 02 11	704	0.1−	0.2+	2000 03 11	699	0.2−	0.2+
1998 12 15	704	0.3−	0.3−	2000 02 11	704	0.1+	0.2+	2000 03 11	699	0.0	0.2+
1998 12 15	704	0.9−	0.4−	2000 02 11	704	0.0	0.1+	2000 03 11	699	0.3−	0.2+
1999 01 14	704	0.3−	0.5−	2000 02 26	703	0.5−	0.2+	2000 03 15	049	0.8+	0.1−
1999 01 14	704	1.0+	0.3−	2000 02 26	703	0.1+	0.5+	2000 03 15	049	0.8+	0.0
1999 01 14	704	0.1+	0.2−	2000 02 26	703	0.2+	0.2−	2000 03 15	049	0.9+	0.2−

2000 DU₆₀ = 1998 YT₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	282.65684		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.17265406	ω	166.84520	−0.19080342	+0.98080287		
a	3.1941221	Ω	92.14435	−0.90423302	−0.15965516		
e	0.1717050	i	2.30820	−0.38204279	−0.11196408		
P	5.71	H	12.6	G	0.15	U	4

Residuals in seconds of arc

1997 11 06	704	0.2−	0.6+	2000 02 04	704	0.2+	0.2−	2000 02 29	704	0.4+	0.2+
1997 11 06	704	(1.4−	3.0+)	2000 02 04	704	0.4+	0.3+	2000 02 29	704	0.0	0.1+
1997 11 06	704	(4.1−	0.6+)	2000 02 04	704	0.0	0.6+	2000 02 29	704	0.1−	0.5+
1997 11 06	704	(4.1−	0.2+)	2000 02 04	704	0.3−	0.0	2000 02 29	704	0.1+	0.4−
1998 12 26	104	0.5−	0.6+	2000 02 04	704	0.8+	1.3+	2000 03 03	704	0.1−	0.4−
1998 12 26	104	0.5−	0.1−	2000 02 11	704	0.7+	0.2+	2000 03 03	704	0.2+	0.4−
1998 12 26	104	1.2+	0.1+	2000 02 11	704	0.4+	0.1−	2000 03 03	704	0.1+	0.2−
1998 12 26	104	0.9+	0.0	2000 02 11	704	0.2−	0.5+	2000 03 03	704	0.3+	0.1−
1998 12 26	104	0.3+	0.6−	2000 02 11	704	0.1−	0.5+	2000 03 03	704	0.0	0.1−
1998 12 26	104	0.9−	0.3−	2000 02 11	704	0.3−	0.1−	2000 03 12	704	0.6−	0.4−
1999 01 06	104	0.4+	0.4−	2000 02 26	703	(2.0−	5.3−)	2000 03 12	704	0.0	0.2−
1999 01 06	104	1.2−	0.5−	2000 02 26	703	0.6−	0.7−	2000 03 12	704	0.0	0.1+
1999 01 06	104	0.3−	0.5−	2000 02 26	703	0.5−	0.3−	2000 03 12	704	0.1−	0.1+
1999 01 06	104	0.5+	0.7+	2000 02 26	703	0.7−	0.0	2000 03 12	704	0.2+	0.0

2000 DD₆₁ = 1998 XZ₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	94.10725		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17257911	ω	258.39498	+0.62028866	−0.78305094
a	3.1950468	Ω	153.10324	+0.75315888	+0.57838630
e	0.1567755	i	5.77659	+0.21907462	+0.22869303
P	5.71	H	12.9	G 0.15	U 5

Residuals in seconds of arc

1998 12 15	704	1.4−	0.3+	2000 02 29	704	1.1+	0.3+	2000 03 11	704	0.2−	0.2−
1998 12 15	704	1.0−	0.3+	2000 02 29	704	0.4+	0.4−	2000 03 11	704	0.4+	0.2+
1998 12 15	704	0.7−	1.7+	2000 02 29	704	0.0	0.2+	2000 03 11	704	0.5−	1.1+
1998 12 15	704	0.3−	0.1−	2000 03 03	704	0.5+	0.1−	2000 03 11	704	0.2+	0.0
1998 12 22	704	0.3−	0.7+	2000 03 03	704	0.3+	0.0	2000 03 11	699	1.0−	0.5−
1998 12 22	704	1.4+	0.4−	2000 03 03	704	0.0	0.1+	2000 03 11	699	0.5−	0.5−
1998 12 22	704	1.6+	1.0−	2000 03 03	704	0.1+	0.3+	2000 03 11	699	0.7−	0.5−

1998 12 22	704	0.7+	1.6−	2000 03 03	704	0.3−	0.0	2000 03 11	699	0.3−	0.1+
2000 02 29	704	0.6+	0.1−	2000 03 11	704	0.2−	0.0				

2000 DU₆₁ = 1994 RF₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	320.36982		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.26991584	ω	57.95837	-0.84353636	$+0.53583308$
a	2.3712852	Ω	154.38662	-0.51680663	-0.79136214
e	0.1228505	i	4.83807	-0.14614140	-0.29432784
P	3.65	H	15.5	G 0.15	U 5

Residuals in seconds of arc

1994 09 05	691	0.4−	0.9−	2000 02 29	704	0.2−	0.2−	2000 03 05	608	0.0	0.3−
1994 09 05	691	0.0	0.3−	2000 02 29	704	0.3−	0.2−	2000 03 05	608	0.2−	0.2−
1994 09 05	691	0.5+	0.0	2000 03 03	704	0.0	0.1−	2000 03 11	704	0.1+	0.1−
1994 09 09	691	0.2+	0.6+	2000 03 03	704	0.2+	0.0	2000 03 11	704	0.3−	0.0
1994 09 09	691	0.2−	0.4+	2000 03 03	704	0.7+	0.2+	2000 03 11	704	0.2−	0.2+
1994 09 09	691	0.1−	0.3+	2000 03 03	704	0.2+	0.3−	2000 03 11	704	0.1+	0.4+
2000 02 29	704	0.7+	0.0	2000 03 03	704	0.1+	0.2+				
2000 02 29	704	0.7−	0.9+	2000 03 05	608	0.3−	0.6−				

2000 DP₆₂ = 1995 EK₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	48.06023		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.19618101	ω	301.68324	−0.34078986	−0.93942309
a	2.9333558	Ω	168.07157	+0.91144639	−0.33970656
e	0.0574571	i	10.22634	+0.23049458	−0.04564768
P	5.02	H	14.7	G 0.15	U 6

Residuals in seconds of arc

1995 03 02	691	0.8−	0.4+	2000 03 03	704	0.7+	0.3+	2000 03 11	704	0.2+	0.7+
1995 03 02	691	1.0−	0.3−	2000 03 03	704	0.2+	0.2+	2000 03 11	704	0.1+	0.2−
1995 03 02	691	0.4−	0.2+	2000 03 03	704	0.2+	0.1+	2000 03 11	704	0.2+	0.2+
1995 03 08	691	0.9+	0.1−	2000 03 03	704	0.5+	0.5−	2000 03 11	699	0.6−	0.1+
1995 03 08	691	0.9+	0.3−	2000 03 03	704	0.3−	0.5−	2000 03 11	699	1.5−	1.1+
1995 03 08	691	0.4+	0.2+	2000 03 03	691	0.1+	0.4−	2000 03 11	699	0.7−	1.0+
2000 02 29	704	1.0+	0.7−	2000 03 03	691	0.3+	0.4−	2000 03 11	699	0.6−	0.2+
2000 02 29	704	0.6−	1.0−	2000 03 03	691	0.2+	0.4−	2000 03 15	837	0.2+	1.0−
2000 02 29	704	0.1+	1.0+	2000 03 11	704	0.4−	0.4+	2000 03 15	837	0.2+	0.7−
2000 02 29	704	0.5+	0.7+	2000 03 11	704	0.6+	0.3−	2000 03 15	837	0.5−	0.2−

2000 DU₆₂ = 1998 UK₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	216.04240		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.27959921	ω	334.34447	+0.63138176	+0.77464146		
a	2.3162144	Ω	334.75930	−0.69620328	+0.54585343		
e	0.0379371	i	4.82727	−0.34155242	+0.31933468		
P	3.53	H	14.4	G	0.15	U	4

Residuals in seconds of arc

1998 10 28	704	0.2−	0.8+	2000 02 26	703	0.4+	0.3+	2000 03 04	691	0.1−	0.4−
1998 10 28	704	0.9+	0.7+	2000 02 26	703	0.8+	1.2+	2000 03 04	691	0.1−	0.3−
1998 10 28	704	0.9−	0.7+	2000 02 29	704	0.2−	0.1−	2000 03 04	691	0.1−	0.3−
1998 10 28	704	0.5−	0.7+	2000 02 29	704	0.5+	0.2−	2000 03 11	704	0.0	0.1−
1998 10 29	704	0.8−	1.3−	2000 02 29	704	0.2+	0.1+	2000 03 11	704	0.2+	0.0
1998 10 29	704	1.0+	0.1−	2000 02 29	704	0.1+	0.2+	2000 03 11	704	0.0	0.4+
1998 10 29	704	0.0	0.6+	2000 03 03	704	0.5+	0.1+	2000 03 11	704	0.1−	0.3+
1998 10 29	704	0.1+	1.5−	2000 03 03	704	0.5+	0.3+	2000 03 11	704	0.0	0.1+
1998 10 29	704	0.4+	0.7−	2000 03 03	704	0.6+	0.0	2000 03 11	699	0.3−	0.0
2000 02 25	691	0.3−	0.3−	2000 03 03	704	0.6+	0.3−	2000 03 11	699	0.1+	0.3+
2000 02 25	691	0.4−	0.3−	2000 03 03	704	0.2+	0.3−	2000 03 11	699	0.0	0.4−
2000 02 25	691	0.5−	0.3−	2000 03 03	691	0.6−	0.3−	2000 03 11	699	0.1+	0.2+
2000 02 26	703	0.3−	0.2−	2000 03 03	691	1.2−	0.1−				
2000 02 26	703	0.0	0.6+	2000 03 03	691	0.4−	0.2−				

2000 MAR. 20

M.P.C. 39459

2000 DA₆₃ = 1998 YO₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	128.69024		(2000.0)	P		Q	
<i>n</i>	0.18547606	ω	107.67728	+0.89548963		−0.44464991	
<i>a</i>	3.0451648	Ω	278.72744	+0.40046503		+0.82417126	
<i>e</i>	0.1094117	<i>i</i>	1.13715	+0.19423202		+0.35075375	
<i>P</i>	5.31	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 12 14	704	0.4+	0.0	2000 02 29	704	0.1−	0.2+	2000 03 05	704	0.2+	0.2+
1998 12 14	704	0.4−	1.3−	2000 02 29	704	0.1−	0.3−	2000 03 05	704	0.0	0.3+
1998 12 14	704	1.1−	0.0	2000 02 29	704	0.5+	0.4+	2000 03 05	704	0.2+	0.4+
1998 12 14	704	0.9+	0.2+	2000 02 29	704	0.6−	0.4+	2000 03 05	704	0.0	0.5+
1998 12 14	704	(4.5−	2.4−)	2000 03 03	704	0.4+	0.1+	2000 03 05	704	0.1+	0.2+
1998 12 16	704	1.1+	1.4−	2000 03 03	704	0.1+	0.0	2000 03 11	704	0.2+	0.1−
1998 12 16	704	0.8+	0.7−	2000 03 03	704	0.4+	0.1+	2000 03 11	704	0.7+	0.1−
1998 12 16	704	0.9−	0.6+	2000 03 03	704	0.2−	0.0	2000 03 11	704	0.3+	0.5+
1998 12 16	704	(0.0	2.1+)	2000 03 03	704	0.1+	0.2+	2000 03 11	704	0.1−	0.0
1998 12 16	704	0.5+	1.6+	2000 03 03	691	0.1−	0.5−	2000 03 11	704	0.7+	0.3+
1998 12 17	704	0.7−	0.6−	2000 03 03	691	0.2−	0.4−	2000 03 11	699	0.4−	0.2+
1998 12 17	704	1.0−	0.4−	2000 03 03	691	0.3−	0.5−	2000 03 11	699	0.6−	0.4+
1998 12 17	704	1.3+	1.2+	2000 03 04	704	0.1−	0.1+	2000 03 11	699	0.8−	0.0
1998 12 17	704	0.9−	0.8+	2000 03 04	704	0.6+	0.3−	2000 03 11	699	0.9−	0.6−
2000 02 25	691	0.2−	0.3−	2000 03 04	704	0.4−	0.2−	2000 03 12	691	0.1−	0.4−
2000 02 25	691	0.2−	0.5−	2000 03 04	704	0.6+	0.7+	2000 03 12	691	0.2+	0.4−
2000 02 25	691	0.2−	0.4−	2000 03 04	704	0.3+	0.0	2000 03 12	691	0.0	0.3−

2000 DZ₆₃ = 1993 FE₃₀ = 1994 PF₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	186.66055		(2000.0)	P		Q	
<i>n</i>	0.27230780	ω	12.13836	+0.93637783		+0.34548893	
<i>a</i>	2.3573786	Ω	327.43655	−0.33088693		+0.81004262	
<i>e</i>	0.1697764	<i>i</i>	6.60599	−0.11709137		+0.47378091	
<i>P</i>	3.62	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 03 21	809	(3.4−	0.7+)	1998 12 24	699	0.2−	1.6+	2000 03 03	704	0.0	0.5+
1993 03 22	809	0.4−	0.3+	1998 12 24	699	0.9+	0.6+	2000 03 03	704	0.6+	0.3+
1993 03 26	809	0.6+	0.4+	1999 01 06	699	0.1−	0.5+	2000 03 05	608	0.3+	0.2−
1994 08 12	809	1.3−	2.1+	1999 01 06	699	0.2−	0.8+	2000 03 05	608	0.2+	0.6−
1994 08 12	809	2.1−	1.4+	1999 01 06	699	0.6−	1.7+	2000 03 05	608	0.5+	0.4+
1994 08 12	809	2.0−	1.5+	2000 02 06	704	0.8−	0.8+	2000 03 11	704	0.2+	0.7+
1994 08 13	809	0.1−	2.4+	2000 02 06	704	0.1−	0.9+	2000 03 11	704	0.3+	0.3+
1994 08 13	809	0.7−	1.4+	2000 02 06	704	1.0+	2.3+	2000 03 11	704	0.3+	0.4+
1994 08 13	809	0.1+	2.3+	2000 02 29	704	0.2+	1.1+	2000 03 11	704	1.8+	0.6+
1998 11 16	704	2.0+	0.1−	2000 02 29	704	0.8+	0.8+	2000 03 11	704	0.4+	0.4+
1998 11 16	704	0.5+	1.8−	2000 02 29	704	0.4+	0.2+	2000 03 11	699	0.1−	1.1+
1998 11 16	704	1.8−	0.7−	2000 02 29	704	0.8−	0.7+	2000 03 11	699	0.2+	0.5+
1998 11 16	704	0.2−	0.1−	2000 03 03	704	0.5+	0.1+	2000 03 11	699	0.4+	1.1+
1998 11 16	704	2.2−	0.8+	2000 03 03	704	0.4+	0.6+	2000 03 11	699	0.4+	0.1+
1998 12 24	699	0.9+	0.4+	2000 03 03	704	0.1+	0.2+				

2000 DJ₆₄ = 1998 VQ₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	205.08467		(2000.0)	P		Q	
<i>n</i>	0.28234782	ω	141.35899	+0.79522338		+0.60631246	
<i>a</i>	2.3011579	Ω	181.32373	−0.57749618		+0.75629859	
<i>e</i>	0.0754479	<i>i</i>	5.53655	−0.18471041		+0.24575932	
<i>P</i>	3.49	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 10	704	0.7−	0.0	2000 02 29	704	0.1−	0.1+	2000 03 08	704	0.1−	0.8−
1998 11 10	704	1.0−	1.2+	2000 02 29	704	1.1+	0.4−	2000 03 11	704	0.3−	0.2+
1998 11 10	704	1.5+	0.5−	2000 02 29	704	0.2−	1.1−	2000 03 11	704	0.2−	0.3−
1998 11 10	704	0.8−	0.1−	2000 03 03	704	0.1+	0.0	2000 03 11	704	0.3+	0.2+

1998 11 11	704	0.6+	0.9+	2000 03 03	704	0.3−	0.4+	2000 03 11	704	0.7+	0.2−
1998 11 11	704	0.5−	0.0	2000 03 03	704	0.0	0.4+	2000 03 11	704	0.1−	0.3+
1998 11 11	704	0.2+	0.9−	2000 03 03	704	0.1−	0.5+	2000 03 11	699	0.0	0.0
1998 11 11	704	0.2+	0.4+	2000 03 03	704	0.7−	0.3+	2000 03 11	699	0.3+	0.2+
1998 11 11	704	0.5+	0.9−	2000 03 08	704	0.0	0.0	2000 03 11	699	0.1−	0.0
2000 02 29	704	0.3+	0.2+	2000 03 08	704	0.7−	0.0	2000 03 11	699	0.2+	0.2−

2000 DS₆₄ = 1998 XE₇₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	99.08854		(2000.0)	P		Q	
<i>n</i>	0.17108560	ω	121.70080	+0.59669406		−0.80221186	
<i>a</i>	3.2136143	Ω	291.65223	+0.72865934		+0.55223841	
<i>e</i>	0.1198771	<i>i</i>	1.25187	+0.33617223		+0.22691159	
<i>P</i>	5.76	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 14	704	1.2−	0.2+	2000 02 06	704	0.0	0.3−	2000 03 10	691	0.4−	0.3−
1998 12 14	704	1.4−	1.0−	2000 02 29	704	0.2+	0.1+	2000 03 10	691	0.3−	0.2−
1998 12 14	704	1.3+	1.3−	2000 02 29	704	0.2−	0.0	2000 03 11	704	0.2+	0.1+
1998 12 14	704	0.5+	0.4−	2000 02 29	704	0.1−	0.1−	2000 03 11	704	0.3+	0.1+
1998 12 16	704	0.5−	0.4−	2000 02 29	704	0.6−	0.1+	2000 03 11	704	0.6−	0.9−
1998 12 16	704	2.0+	0.1+	2000 03 03	704	0.3+	0.0	2000 03 11	704	1.5−	0.3+
1998 12 16	704	0.7−	0.8+	2000 03 03	704	0.3+	0.5+	2000 03 11	699	1.1+	0.1−
1998 12 16	704	0.2+	1.2+	2000 03 03	704	0.1+	0.5+	2000 03 11	699	0.5−	0.1−
1998 12 16	704	0.1−	0.7+	2000 03 03	704	0.1−	0.1−	2000 03 11	699	0.7+	0.1+
2000 02 06	704	0.1+	0.1+	2000 03 03	704	0.2+	0.3−	2000 03 11	699	0.6+	0.7+
2000 02 06	704	0.1+	0.2+	2000 03 10	691	0.1+	0.5−				

2000 DC₆₅ = 1998 SG₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	341.38791		(2000.0)	P		Q	
<i>n</i>	0.26687904	ω	300.73630	−0.99202815		+0.12576207	
<i>a</i>	2.3892398	Ω	246.48950	−0.11242872		−0.91196283	
<i>e</i>	0.1275146	<i>i</i>	0.50008	−0.05692043		−0.39052235	
<i>P</i>	3.69	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 26	691	0.1+	0.5−	2000 03 03	691	0.3−	0.5−	2000 03 08	691	0.5−	0.0
1998 09 26	691	0.4+	0.4−	2000 03 03	704	0.3+	0.2+	2000 03 09	691	0.3−	0.3−
1998 09 26	691	0.4−	0.3+	2000 03 03	691	0.2−	0.5−	2000 03 09	691	0.8−	0.2−
1998 10 01	691	0.2+	0.0	2000 03 03	704	0.0	0.6+	2000 03 09	691	0.3−	0.1−
1998 10 01	691	0.1+	0.1−	2000 03 03	704	0.3+	0.7+	2000 03 11	704	1.2+	0.4+
1998 10 01	691	0.5+	0.2−	2000 03 03	691	0.1−	0.3−	2000 03 11	704	1.1+	0.3+
1998 10 12	691	0.2−	0.5+	2000 03 03	704	0.1−	0.3+	2000 03 11	704	0.9+	0.1+
1998 10 12	691	0.5−	0.5+	2000 03 05	704	0.2+	0.9−	2000 03 11	704	1.3+	0.3+
1998 10 12	691	0.3−	0.1+	2000 03 05	704	0.7−	0.1−	2000 03 11	704	0.8+	0.3−
2000 02 25	691	0.2−	0.7−	2000 03 05	704	0.3−	0.4+	2000 03 11	699	0.4+	0.5+
2000 02 25	691	0.1−	0.6−	2000 03 05	704	0.7−	1.5+	2000 03 11	699	0.4−	0.5+
2000 02 25	691	0.1−	0.6−	2000 03 05	704	0.5−	0.0	2000 03 11	699	0.1−	0.2+
2000 02 29	704	0.8+	0.8−	2000 03 08	691	0.6−	0.3−	2000 03 11	699	0.4−	0.6+
2000 02 29	704	0.5+	0.1+	2000 03 08	691	0.6−	0.1−	2000 03 12	691	0.3+	0.3−
2000 02 29	704	0.7+	0.2+	2000 03 08	691	0.8−	0.4−	2000 03 12	691	0.4+	0.2−
2000 02 29	704	0.0	0.2+	2000 03 08	691	0.7−	0.1−	2000 03 12	691	0.3+	0.2−
2000 03 03	704	0.0	0.2+	2000 03 08	691	0.9−	0.1−				

2000 DA₆₆ = 1993 FN₇₆ = 1998 RC₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	95.11709		(2000.0)	

Residuals in seconds of arc

1993 03 21	809	0.4−	0.0	1998 09 18	704	0.6−	1.5−	2000 03 03	704	0.3−	0.0
1993 03 22	809	0.3−	0.5+	1998 09 18	704	0.6−	1.5−	2000 03 03	704	0.2+	0.1+
1993 03 26	809	0.7+	0.5−	1998 09 18	699	1.1+	0.9+	2000 03 03	704	0.2+	0.2+
1998 09 14	704	1.4−	0.8+	1998 09 18	704	(0.2+	2.6−)	2000 03 03	704	0.5+	0.1+
1998 09 14	704	0.2−	1.0−	1998 09 18	699	0.8+	0.2+	2000 03 03	704	0.6+	0.4+
1998 09 14	704	0.4+	0.6+	1998 09 18	704	0.9+	1.3+	2000 03 11	704	1.1−	0.5−
1998 09 14	704	1.7−	0.3+	1998 09 18	704	0.5−	0.8+	2000 03 11	704	0.4+	0.1−
1998 09 14	704	1.7−	0.2+	1998 09 18	699	1.1+	0.1+	2000 03 11	704	0.4−	0.3+
1998 09 14	699	1.2+	0.4−	2000 02 29	704	0.4+	0.1−	2000 03 11	704	0.3+	0.3−
1998 09 14	699	0.9+	0.6−	2000 02 29	704	0.1−	0.1−	2000 03 11	704	0.6−	0.2−
1998 09 14	699	0.4+	0.5−	2000 02 29	704	0.1−	0.2−				

2000 DN₆₆ = 1998 WT₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			Williams			<i>Q</i>		
81.25701			(2000.0)			<i>P</i>		
<i>n</i>	0.19412215	ω	78.77120	+0.30437677	−0.95254339			
<i>a</i>	2.9540600	Ω	353.50399	+0.85963694	+0.27648600			
<i>e</i>	0.0626563	<i>i</i>	2.01779	+0.41034023	+0.12734434			
<i>P</i>	5.08	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1998 11 21	704	0.2−	0.5+	2000 02 26	703	0.3+	0.2+	2000 03 04	049	0.3+	0.7−
1998 11 21	704	0.1−	1.0−	2000 02 26	703	0.6+	0.2−	2000 03 04	049	0.3+	0.8−
1998 11 21	704	1.1+	0.4−	2000 02 29	704	0.6−	0.3+	2000 03 05	608	0.5−	0.5−
1998 11 21	704	(3.0−	1.0−)	2000 02 29	704	0.4−	0.4+	2000 03 05	608	0.4−	0.5−
1998 11 24	704	0.9−	0.6+	2000 02 29	704	0.0	0.3+	2000 03 05	608	0.6−	0.6−
1998 11 24	704	0.4+	0.2+	2000 03 03	704	0.1+	0.3+	2000 03 07	049	0.5+	0.6−
1998 11 24	704	0.8+	0.3+	2000 03 03	704	0.1+	0.3+	2000 03 07	049	0.2−	0.8−
1998 11 24	704	1.4−	0.5−	2000 03 03	704	0.1+	0.5+	2000 03 07	049	0.1+	0.5−
1998 11 24	704	0.4+	0.4+	2000 03 03	704	0.1−	0.8+	2000 03 11	704	0.3−	0.5+
2000 02 06	704	0.8−	0.1+	2000 03 03	704	0.3+	0.5+	2000 03 11	704	0.8+	0.7+
2000 02 06	704	0.0	0.0	2000 03 03	608	1.0−	1.1−	2000 03 11	704	0.7+	0.5+
2000 02 06	704	0.3−	0.1+	2000 03 03	608	0.8−	1.2−	2000 03 11	704	1.1+	0.7+
2000 02 25	049	0.6+	0.3−	2000 03 03	608	1.0−	1.3−	2000 03 11	704	1.2+	0.6+
2000 02 25	049	0.6+	0.0	2000 03 04	691	(0.2+	2.3−)	2000 03 11	699	0.3−	1.3+
2000 02 25	049	1.3+	0.7−	2000 03 04	691	0.2+	0.8−	2000 03 11	699	0.9−	1.3+
2000 02 26	703	0.0	0.6+	2000 03 04	691	0.3+	0.9−	2000 03 11	699	0.5−	1.2+
2000 02 26	703	0.3−	0.4+	2000 03 04	049	0.3+	0.8−	2000 03 11	699	0.6−	0.8+

2000 DZ₆₇ = 1993 FV₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			Williams			<i>Q</i>		
301.07044			(2000.0)			<i>P</i>		
<i>n</i>	0.27588609	ω	231.61489	−0.51029431	+0.85998359			
<i>a</i>	2.3369505	Ω	7.70712	−0.77623642	−0.45793756			
<i>e</i>	0.1624332	<i>i</i>	2.25874	−0.37021174	−0.22521414			
<i>P</i>	3.57	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

1993 03 21	809	0.6−	0.1+	2000 02 29	704	0.3−	0.4−	2000 03 11	704	0.6+	0.6+
1993 03 22	809	0.0	0.6+	2000 03 03	704	0.4−	0.2−	2000 03 11	704	0.4+	0.5+
1993 03 26	809	0.4+	0.9−	2000 03 03	704	0.2−	1.0+	2000 03 11	704	0.4+	0.1+
2000 02 29	704	0.3−	0.8+	2000 03 03	704	0.3+	0.1−	2000 03 11	704	0.2−	0.5+
2000 02 29	704	0.2+	0.3−	2000 03 03	704	0.6−	0.7−	2000 03 11	704	0.3+	0.4+
2000 02 29	704	0.0	1.3−	2000 03 03	704	0.1−	0.5−				

2000 DP₆₈ = 1997 LQ₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			Williams			<i>Q</i>		
286.40446			(2000.0)			<i>P</i>		
<i>n</i>	0.28841248	ω	75.97146	−0.40455494	+0.91449598			
<i>a</i>	2.2687851	Ω	170.15954	−0.85137924	−0.37434620			
<i>e</i>	0.0725386	<i>i</i>	1.90865	−0.33389923	−0.15349926			
<i>P</i>	3.42	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1997 06 08	809	0.3−	0.1+	2000 03 03	691	0.5−	0.4−	2000 03 10	704	0.4−	0.3−
1997 06 08	809	0.1−	0.3−	2000 03 03	704	0.1+	0.0	2000 03 10	704	0.2−	0.6−
1997 06 08	809	1.0+	0.9−	2000 03 03	704	0.3+	0.5+	2000 03 11	704	0.2−	0.4+
1997 06 09	809	0.7+	1.1+	2000 03 03	691	0.5−	0.3−	2000 03 11	704	0.2−	0.1−
1997 06 09	809	0.4−	0.5+	2000 03 03	704	0.1−	0.8+	2000 03 11	704	0.2−	0.1−
1997 06 09	809	0.8−	0.5−	2000 03 03	691	0.4−	0.3−	2000 03 11	704	0.1−	0.3+
2000 02 29	704	1.0+	0.2+	2000 03 03	704	0.0	0.8+	2000 03 11	704	1.1−	0.3−
2000 02 29	704	0.3+	0.5−	2000 03 09	691	0.3−	0.2−	2000 03 11	704	0.7+	0.5+
2000 02 29	704	0.2−	0.1+	2000 03 09	691	0.2−	0.2−	2000 03 11	704	0.6+	0.2+
2000 02 29	704	0.3+	0.2−	2000 03 09	691	0.1−	0.3−	2000 03 11	704	0.1+	0.3+
2000 02 29	704	0.2−	0.4−	2000 03 10	704	0.1+	0.2−	2000 03 11	704	0.3+	0.2+
2000 03 03	704	0.0	0.3−	2000 03 10	704	0.3+	0.4+	2000 03 11	704	0.7+	0.0

2000 DV₆₈ = 1994 SU₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			Williams			<i>Q</i>		
316.02400			(2000.0)			<i>P</i>		
<i>n</i>	0.27570105	ω	243.58142	−0.75838608	+0.65126136			
<i>a</i>	2.3379960	Ω	337.02480	−0.57108233	−0.68360261			
<i>e</i>	0.1352879	<i>i</i>	3.91207	−0.31419027	−0.32946336			
<i>P</i>	3.57	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1994 09 28	691	0.2−	0.0	2000 02 29	704	0.4−	0.2−	2000 03 08	704	0.1−	0.1+
1994 09 28	691	0.9−	0.1+	2000 02 29	704	0.4+	0.0	2000 03 11	704	0.3−	0.2−
1994 09 28	691	0.4+	0.2+	2000 02 29	704	0.1+	0.6−	2000 03 11	704	0.1+	0.4+
1994 09 29	691	0.0	0.1−	2000 02 29	704	0.2−	0.8−	2000 03 11	704	0.1−	0.5+
1994 09 29	691	0.3+	0.3+	2000 02 29	704	0.2+	0.7−	2000 03 11	704	0.2+	0.5+
1994 09 29	691	0.0	0.2+	2000 03 03	704	0.5+	0.0	2000 03 11	704	0.0	0.3+
2000 02 06	704	0.0	0.7+	2000 03 03	704	0.1+	0.0	2000 03 12	704	0.0	0.4+
2000 02 06	704	0.2+	0.9−	2000 03 03	704	0.2+	0.2+	2000 03 12	704	0.2−	0.3+
2000 02 06	704	1.1−	0.3+	2000 03 03	704	0.2+	0.1+	2000 03 12	704	(1.1+	2.6+)
2000 02 16	703	0.2+	0.3−	2000 03 03	704	0.4+	0.2+	2000 03 12	704	0.7+	0.4+
2000 02 16	703	0.2−	0.1+	2000 03 08	704	0.6+	0.2−	2000 03 12	704	0.1−	0.5+
2000 02 16	703	0.6−	0.5−	2000 03 08	704	0.6−	1.1+				
2000 02 16	703	0.2−	1.0+	2000 03 08	704	0.1+	1.8−				

2000 DW₆₈ = 1993 FL₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			Williams			<i>Q</i>		
245.80027			(2000.0)			<i>P</i>		
<i>n</i>	0.27596206	ω	113.77674	+0.40485850	+0.91437933			
<i>a</i>	2.3365216	Ω	180.10599	−0.86954137	+0.38494656			
<i>e</i>	0.1512638	<i>i</i>	5.41763	−0.28282044	+0.12540566			
<i>P</i>	3.57	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1993 03 19	809	0.1+	0.4−	2000 02 27	703	0.1+	1.1−	2000 03 03	704	0.2+	0.5+
1993 03 20	809	0.4−	0.4+	2000 02 29	704	0.1−	0.1−	2000 03 11	704	0.1+	0.8−
1993 03 24	809	0.3+	0.0	2000 02 29	704	0.4+	0.3−	2000 03 11	704	0.5+	0.5−
2000 02 16	703	0.1−	0.5+	2000 02 29	704	0.4+	0.7+	2000 03 11	704	0.8+	0.7−
2000 02 16	703	0.2−	0.6−	2000 02 29	704	0.1+	0.2+	2000 03 11	704	0.6+	1.4−
2000 02 16	703	0.2−	0.8−	2000 02 29	704	0.1−	0.8+	2000 03 11	704	1.0+	1.0−
2000 02 16	703	0.2−	0.5+	2000 03 03	704	0.1+	0.2−	2000 03 11	699	0.9−	0.8+
2000 02 27	703	1.4−	0.7+	2000 03 03	704	0.0	0.3+	2000 03 11	699	0.5−	1.3+
2000 02 27	703	0.7+	0.3−	2000 03 03	704	0.1−	0.5+	2000 03 11	699	0.6−	0.4+
2000 02 27	703	0.5+	0.1−	2000 03 03	704	0.4+	0.3+	2000 03 11	699	1.7−	0.4+

2000 MAR. 20

M.P.C. 39461

Residuals in seconds of arc

1978 03 15	675	0.8−	1.1−	2000 02 29	704	0.5−	0.1+	2000 03 08	704	(2.1+	2.5+)
1978 03 16	675	0.1+	1.9−	2000 02 29	704	0.1+	0.5−	2000 03 11	704	0.4−	0.3+
1991 09 15	675	0.4−	0.8−	2000 03 03	704	0.1+	0.2+	2000 03 11	704	0.4−	0.0
1991 09 15	675	0.8+	0.9−	2000 03 03	704	0.1+	0.3+	2000 03 11	704	0.3−	0.0
2000 02 27	703	0.4+	0.0	2000 03 03	704	0.0	0.1−	2000 03 11	704	0.0	0.3−
2000 02 27	703	0.5−	1.2+	2000 03 03	704	0.3+	0.0	2000 03 11	704	1.0−	0.2−
2000 02 27	703	0.2+	1.0+	2000 03 03	704	0.6+	0.2−	2000 03 11	699	0.2−	0.1−
2000 02 27	703	0.1+	0.8+	2000 03 08	704	0.0	0.3−	2000 03 11	699	0.4−	0.0
2000 02 29	704	0.2−	0.1+	2000 03 08	704	0.0	0.7+	2000 03 11	699	0.2−	0.0
2000 02 29	704	1.3+	0.3−	2000 03 08	704	1.7+	1.4−	2000 03 11	699	0.4−	0.1+

2000 DA₆₉ = 1998 XF₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	185.76208		(2000.0)	P	Q
n	0.23372029	ω	109.21228	+0.95542880	+0.29379503
a	2.6101879	Ω	233.71271	−0.28257082	+0.88163225
e	0.1549023	i	2.06093	−0.08549585	+0.36933597
P	4.22	H	13.4	G 0.15	U 6

Residuals in seconds of arc

1998 12 15	704	0.5−	0.1+	2000 02 27	703	0.1+	0.1+	2000 03 08	704	0.6−	1.6−
1998 12 15	704	1.4−	0.5+	2000 02 29	704	0.4+	0.7+	2000 03 11	704	0.0	0.2+
1998 12 15	704	1.1+	1.7−	2000 02 29	704	0.4−	0.1−	2000 03 11	704	0.1−	0.0
1998 12 15	704	0.1−	0.8−	2000 02 29	704	0.0	0.3−	2000 03 11	704	0.4−	0.3−
1998 12 16	704	0.0	0.2−	2000 02 29	704	0.9+	0.2+	2000 03 11	704	0.2−	0.4−
1998 12 16	704	0.9+	0.6+	2000 03 03	704	0.3+	0.0	2000 03 11	704	0.5−	0.3−
1998 12 16	704	(2.0+	1.0+)	2000 03 03	704	0.0	0.5+	2000 03 11	699	0.8−	0.4−
1998 12 16	704	(1.4−	2.8+)	2000 03 03	704	0.2+	0.7+	2000 03 11	699	0.1−	0.6−
1998 12 16	704	0.1−	1.4+	2000 03 03	704	0.1+	0.7+	2000 03 11	699	0.0	0.0
2000 02 27	703	0.1−	0.4+	2000 03 03	704	0.6+	1.1+	2000 03 11	699	0.2−	0.2−
2000 02 27	703	0.2−	0.1+	2000 03 08	704	1.3+	1.5−				
2000 02 27	703	0.2−	0.8+	2000 03 08	704	(0.6+	2.1−)				

2000 DD₆₉ = 1998 SO₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	64.09997		(2000.0)	P	Q
n	0.23080303	ω	255.16312	+0.17706853	−0.98417630
a	2.6321363	Ω	184.65302	+0.93143513	+0.16974283
e	0.1933960	i	4.67668	+0.31792349	+0.05083680
P	4.27	H	14.8	G 0.15	U 4

Residuals in seconds of arc

1998 09 25	699	0.7+	0.2+	2000 02 16	703	1.2−	0.4+	2000 03 03	704	0.1−	0.1−
1998 09 25	699	0.4+	0.3+	2000 02 16	703	0.1−	0.2+	2000 03 11	704	0.3+	0.3−
1998 09 25	699	0.6+	0.3+	2000 02 16	703	0.3−	0.3−	2000 03 11	704	0.2−	0.3−
1998 09 26	704	1.2−	1.0+	2000 02 16	703	0.6+	0.7−	2000 03 11	704	0.1+	0.1−
1998 09 26	704	0.7−	0.6+	2000 02 27	703	0.7−	0.3−	2000 03 11	704	0.1−	0.2−
1998 09 26	704	1.3−	1.5−	2000 02 27	703	0.7−	0.5+	2000 03 11	704	0.2+	0.4−
1998 09 26	704	0.3−	0.7−	2000 02 27	703	0.2−	0.8+	2000 03 11	699	0.1+	0.6+
1998 09 26	704	0.1+	0.2−	2000 02 27	703	0.3+	0.4−	2000 03 11	699	0.0	0.3+
1998 09 27	704	0.7+	0.8−	2000 02 29	704	1.0+	0.8−	2000 03 11	699	0.2+	0.4+
1998 09 27	704	0.3+	0.5+	2000 02 29	704	0.4+	0.3−	2000 03 11	699	0.3+	0.7+
1998 09 27	704	0.2−	0.3+	2000 02 29	704	0.3+	0.1+	2000 03 12	704	0.4+	0.2−
1998 09 27	704	0.5+	0.4+	2000 02 29	704	1.0−	0.5+	2000 03 12	704	0.5+	0.3+
1998 09 27	704	0.4+	0.1+	2000 03 03	704	0.0	0.1+	2000 03 12	704	0.9−	0.3+
2000 02 02	704	0.4+	0.0	2000 03 03	704	0.3+	0.2−	2000 03 12	704	0.0	0.6+
2000 02 02	704	0.4−	0.2−	2000 03 03	704	0.1+	0.2+	2000 03 12	704	0.1+	0.1+
2000 02 02	704	0.7+	0.3−	2000 03 03	704	0.0	0.5−				

2000 DR₆₉ = 1978 WS₆ = 1998 YT₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	213.80898		(2000.0)	P	Q
n	0.19956512	ω	337.28600	+0.72249569	+0.69130287
a	2.9000999	Ω	338.97044	−0.62996038	+0.65227794
e	0.0496370	i	1.59944	−0.28486820	+0.31085983
P	4.94	H	13.5	G 0.15	U 4

Residuals in seconds of arc

1978 11 29	675	0.2−	0.2+	2000 02 26	703	0.1−	0.5+	2000 03 10	691	0.0	0.3−
1978 11 30	675	0.2+	0.2−	2000 02 26	703	0.4−	0.4+	2000 03 10	691	0.1+	0.4−
1998 12 16	704	0.6−	0.8−	2000 02 29	704	0.5−	0.3−	2000 03 11	704	0.4−	0.1−
1998 12 16	704	0.7−	0.3+	2000 02 29	704	0.2−	0.0	2000 03 11	699	0.1−	0.0
1998 12 16	704	(2.8−	1.2+)	2000 02 29	704	0.0	0.3−	2000 03 11	704	0.2+	0.2−
1998 12 16	704	0.3+	1.7+	2000 02 29	704	0.1−	0.5−	2000 03 11	704	0.0	0.2+
1998 12 16	704	(3.2−	2.8+)	2000 02 29	704	0.0	0.8−	2000 03 11	699	0.2−	0.2−
1998 12 17	704	0.5+	0.0	2000 03 03	704	0.3+	0.1+	2000 03 11	704	0.0	0.2+
1998 12 17	704	(0.8+	2.3−)	2000 03 03	704	0.2+	0.1+	2000 03 11	699	0.1−	0.1+
1998 12 17	704	(0.7+	2.1−)	2000 03 03	704	0.5+	0.3+	2000 03 11	704	0.5−	0.4+
1998 12 17	704	0.5+	1.1−	2000 03 03	704	0.5+	0.1−	2000 03 11	699	0.9+	0.2+
2000 02 26	703	0.0	0.5+	2000 03 03	704	0.6+	0.4+				
2000 02 26	703	0.7−	0.4+	2000 03 10	691	0.0	0.5−				

2000 DU₆₉ = 1995 EA₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	218.51330		(2000.0)	P	Q
n	0.19573711	ω	161.78229	+0.69567587	+0.71819277
a	2.9377891	Ω	152.29253	−0.66310421	+0.65021656
e	0.1063716	i	1.88626	−0.27627501	+0.24782568
P	5.04	H	13.1	G 0.15	U 6

Residuals in seconds of arc

1995 03 02	691	0.2−	0.2−	2000 02 26	703	0.6−	0.8−	2000 03 03	704	0.4+	0.8+
1995 03 02	691	0.1−	0.2−	2000 02 26	703	0.3+	0.8−	2000 03 03	704	0.3+	1.1+
1995 03 08	691	0.1−	0.4−	2000 02 29	704	0.4−	0.0	2000 03 04	704	0.3+	0.1−
1995 03 08	691	0.1+	0.2−	2000 02 29	704	0.1−	0.2−	2000 03 04	704	0.4+	0.3−
1995 03 08	691	0.1−	0.0	2000 02 29	704	0.0	0.4+	2000 03 04	704	0.7+	0.6−
2000 02 25	691	0.5−	0.3−	2000 02 29	704	0.2−	0.5+	2000 03 04	704	0.2+	0.7−
2000 02 25	691	0.4−	0.4−	2000 02 29	704	1.2−	0.7+	2000 03 11	699	0.0	0.2−
2000 02 25	691	0.4−	0.4−	2000 03 03	704	0.7+	0.1−	2000 03 11	699	0.4−	0.1+
2000 02 26	703	0.5−	0.1+	2000 03 03	704	0.4+	0.2+	2000 03 11	699	0.1−	0.4+
2000 02 26	703	0.7+	0.7+	2000 03 03	704	0.6+	0.6+	2000 03 11	699	0.1−	0.2+

2000 DW₆₉ = 1996 EZ

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	321.19958		(2000.0)	P	Q
n	0.24377193	ω	230.31589	−0.76578652	+0.64238237
a	2.5379336	Ω	349.53273	−0.52719089	−0.65402521
e	0.1933820	i	9.58925	−0.36829441	−0.39949458
P	4.04	H	15.5	G 0.15	U 5

Residuals in seconds of arc

1996 03 15	566	0.1−	0.1+	2000 02 29	704	0.4−	0.0	2000 03 11	704	0.2+	0.9−
1996 03 15	566	0.2−	0.1+	2000 02 29	704	0.1+	0.3−	2000 03 11	699	0.9−	0.2+
1996 03 15	566	0.3+	0.1+	2000 02 29	704	0.2+	0.7−	2000 03 11	704	0.7+	0.7−
1996 03 15	566	0.2+	0.1−	2000 03 03	704	0.3−	0.1+	2000 03 11	699	1.3−	0.0
1996 03 15	566	0.6+	0.0	2000 03 03	704	0.1−	0.4+	2000 03 11	704	0.8+	0.9−
1996 03 15	566	0.0	0.0	2000 03 03	704	0.2−	0.3+	2000 03 11	699	0.9−	0.2+
1996 03 17	566	0.3−	0.4−	2000 03 03	704	0.2−	0.5+	2000 03 15	704	0.2−	0.9+
1996 03 17	566	0.2−	0.4+	2000 03 03	704	0.3−	0.6+	2000 03 15	704	1.2+	0.0
1996 03 17	566	0.4−	0.0	2000 03 11	704	0.5+	0.1+	2000 03 15	704	0.0	0.1−
2000 02 29	704	0.4+	0.3+	2000 03 11	699	(2.4−	0.1−)	2000 03 15	704	0.5−	0.4+
2000 02 29	704	0.8+	0.3−	2000 03 11	704	0.6+	0.1−				

2000 DC₇₀ = 1986 GJ₂ = 1990 MM = 1993 FQ₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	246.04845		(2000.0)		P		Q
<i>n</i>	0.27682472	ω	145.04583	+0.49273883	+0.86839614		
<i>a</i>	2.3316649	Ω	154.33958	-0.82479488	+0.48646728		
<i>e</i>	0.2184578	<i>i</i>	7.38317	-0.27734790	+0.09611313		
<i>P</i>	3.56	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1986 04 03	413	1.5-	0.5-	2000 02 16	703	0.3+	0.7+	2000 03 04	704	0.2-	0.2+
1986 04 03	413	1.0+	1.1-	2000 02 26	703	0.7-	1.1+	2000 03 04	704	0.2-	1.1+
1990 06 27	675	1.3+	0.3-	2000 02 26	703	(2.1+	0.3-)	2000 03 04	704	0.2-	0.1-
1990 06 27	675	0.0	0.2+	2000 02 26	703	0.3+	0.2-	2000 03 04	704	0.4+	0.6+
1990 06 29	675	0.9-	0.9-	2000 02 26	703	0.5-	1.4-	2000 03 04	704	0.1-	0.2-
1990 06 29	675	0.3-	0.4-	2000 02 29	704	0.3-	0.1+	2000 03 04	704	0.1+	0.1+
1993 03 17	809	0.2-	1.0-	2000 02 29	704	0.2-	0.1-	2000 03 04	704	0.2-	0.6+
1993 03 18	809	(1.0+	2.2-)	2000 02 29	704	0.1-	0.0	2000 03 11	704	0.1-	0.1-
1997 08 03	566	0.6+	1.0+	2000 02 29	704	0.4-	0.1+	2000 03 11	699	0.1-	0.3-
1997 08 03	566	0.1-	1.6+	2000 02 29	704	0.4-	0.3-	2000 03 11	704	0.1-	0.4-
1997 08 03	566	0.0	0.8+	2000 03 03	704	0.4+	0.3+	2000 03 11	699	0.3-	0.4-
2000 02 11	704	0.2-	0.2+	2000 03 03	704	0.5+	0.5+	2000 03 11	704	0.2-	0.7-
2000 02 11	704	1.0+	0.9+	2000 03 03	704	0.2+	0.4+	2000 03 11	704	0.2-	0.7-
2000 02 11	704	0.7-	0.6+	2000 03 03	704	0.9+	0.5+	2000 03 11	699	0.5-	0.1+
2000 02 11	704	1.4+	0.0	2000 03 03	704	0.8+	0.6+	2000 03 11	704	0.2-	0.9-
2000 02 16	703	0.3+	0.6-	2000 03 04	704	0.1-	0.3+	2000 03 11	699	0.3-	0.5-
2000 02 16	703	0.1-	0.1+	2000 03 04	704	0.3-	0.5+				
2000 02 16	703	0.9+	0.1-	2000 03 04	704	0.4+	0.5+				

2000 DK₇₀ = 1994 PH₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	250.23915		(2000.0)		P		Q
<i>n</i>	0.28774785	ω	140.80948	+0.38192395	+0.92300116		
<i>a</i>	2.2722773	Ω	151.55265	-0.87077130	+0.37639909		
<i>e</i>	0.1717408	<i>i</i>	5.65463	-0.30966343	+0.07995366		
<i>P</i>	3.43	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 08 10	809	0.8+	0.7+	2000 02 29	704	0.3+	0.2+	2000 03 03	704	0.0	0.1+
1994 08 10	809	0.6+	0.6+	2000 02 29	704	0.2+	0.5+	2000 03 03	704	0.1-	0.5-
1994 08 10	809	0.0	0.2+	2000 02 29	704	0.3-	0.2-	2000 03 11	699	0.2-	0.0
1994 08 11	809	0.0	0.0	2000 02 29	704	0.5-	0.0	2000 03 11	699	0.5-	0.2-
1994 08 11	809	0.6-	0.9-	2000 03 03	704	0.0	0.4+	2000 03 11	699	0.4+	0.4-
1994 08 11	809	0.8-	0.6-	2000 03 03	704	0.1+	0.0	2000 03 11	699	0.0	0.2+
2000 02 29	704	(0.2-	2.4+)	2000 03 03	704	0.5+	0.0				

2000 DQ₇₀ = 1997 TF₈ = 1998 XU₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	272.33460		(2000.0)		P		Q
<i>n</i>	0.20846484	ω	282.01438	+0.03941167	+0.99891415		
<i>a</i>	2.8169610	Ω	350.14268	-0.85100989	+0.02052495		
<i>e</i>	0.1576404	<i>i</i>	8.34441	-0.52366869	+0.04182404		
<i>P</i>	4.73	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 10 03	691	0.9-	0.4+	1999 01 16	704	1.5+	1.0-	2000 03 03	704	0.1+	0.2+
1997 10 03	691	0.5-	0.2-	2000 02 11	704	1.2+	0.9-	2000 03 03	691	0.4-	0.5-
1997 10 03	691	0.5-	0.0	2000 02 11	704	1.6+	0.2-	2000 03 03	704	0.2+	0.8+
1997 10 05	691	0.6+	0.0	2000 02 11	704	0.8+	0.4-	2000 03 03	691	0.3-	0.5-
1997 10 05	691	0.7+	0.1+	2000 02 11	704	0.9+	0.1-	2000 03 03	704	0.2+	0.5+
1997 10 05	691	0.6+	0.1-	2000 02 26	703	0.6-	0.9+	2000 03 11	704	0.0	0.2+
1998 12 14	704	0.9-	0.4-	2000 02 26	703	0.1+	0.3-	2000 03 11	704	0.0	0.5+
1998 12 14	704	0.5-	1.2+	2000 02 26	703	0.3-	0.2-	2000 03 11	704	0.2+	0.6+
1998 12 14	704	(2.1+	0.6+)	2000 02 26	703	1.0-	0.0	2000 03 11	704	0.1-	0.8+
1998 12 14	704	0.3+	1.0-	2000 02 29	704	0.4+	0.2-	2000 03 12	691	0.5-	0.2-
1998 12 17	704	0.3-	0.7+	2000 02 29	704	0.0	0.3+	2000 03 12	691	0.5-	0.0

1998 12 17	704	0.4-	0.4-	2000 02 29	704	0.2-	0.0	2000 03 12	691	0.5-	0.1-
1998 12 17	704	0.8-	0.2+	2000 02 29	704	0.1+	0.0	2000 03 14	691	0.4-	0.3-
1998 12 17	704	1.1-	0.2+	2000 02 29	704	0.0	0.5-	2000 03 14	691	0.2-	0.1-
1999 01 16	704	0.8+	0.1+	2000 03 03	704	0.0	0.1+	2000 03 14	691	0.2-	0.3-
1999 01 16	704	0.8+	0.1-	2000 03 03	691	0.3-	0.5-				
1999 01 16	704	0.9+	0.4+	2000 03 03	704	0.3+	0.4+				

2000 DT₇₀ = 1997 GN₁₀ = 1998 RX₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	124.61802		(2000.0)		P		Q
<i>n</i>	0.30834154	ω	224.62238	+0.86091910	-0.50857850		
<i>a</i>	2.1699415	Ω	165.93061	+0.48032650	+0.80422149		
<i>e</i>	0.1335894	<i>i</i>	3.03998	+0.16764472	+0.30753163		
<i>P</i>	3.20	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 04 03	704	1.8+	0.3+	1998 09 14	704	0.0	0.4-	2000 03 10	691	0.0	0.2-
1997 04 03	704	(0.9+	2.4-)	1998 09 14	704	0.0	0.7+	2000 03 10	691	0.0	0.2-
1997 04 05	704	0.7-	0.2+	1998 09 14	704	0.8-	0.0	2000 03 11	704	0.4+	0.0
1997 04 05	704	1.3-	1.6+	1998 09 18	704	1.0-	0.6-	2000 03 11	699	0.3-	0.0
1997 04 07	704	0.0	1.1-	1998 09 18	704	1.9+	0.5-	2000 03 11	704	0.4+	0.4-
1997 04 07	704	0.4+	0.5-	1998 09 18	704	0.5+	0.5-	2000 03 11	704	0.1-	0.3-
1998 08 17	704	0.3-	1.2-	1998 09 18	704	0.8-	0.3-	2000 03 11	699	0.1+	0.1+
1998 08 17	704	2.0-	0.8+	2000 02 29	704	0.6-	1.0+	2000 03 11	704	0.1+	0.6-
1998 08 17	704	1.1+	0.0	2000 02 29	704	0.5+	0.3+	2000 03 11	699	0.0	0.1+
1998 08 17	704	0.6+	1.9-	2000 02 29	704	0.6+	0.6-	2000 03 11	704	0.1-	0.5-
1998 08 17	120	0.5-	0.8-	2000 02 29	704	0.9+	0.5-	2000 03 11	699	0.0	0.4-
1998 08 18	120	0.1+	0.0	2000 03 03	704	0.4-	0.4+	2000 03 12	691	0.4-	0.2-
1998 08 18	120	0.2+	0.6+	2000 03 03	704	0.1-	0.8+	2000 03 12	691	0.6-	0.0
1998 08 23	699	0.6+	0.6+	2000 03 03	704	0.1+	0.2+	2000 03 12	691	0.5-	0.1+
1998 08 23	699	0.3+	1.1+	2000 03 03	704	0.2-	0.1+	2000 03 14	691	0.2+	0.0
1998 08 23	699	0.7+	1.5+	2000 03 03	704	0.2-	0.8+	2000 03 14	691	0.1-	0.1-
1998 09 14	704	0.6-	0.3+	2000 03 10	691	0.1-	0.2-	2000 03 14	691	0.1-	0.4-

2000 DY₇₀ = 1997 RT₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	281.90766		(2000.0)		P		Q
<i>n</i>	0.23488913	ω	35.50231	-0.14242518	+0.98959122		
<i>a</i>	2.6015216	Ω	226.31935	-0.91458146	-0.13953016		
<i>e</i>	0.1411867	<i>i</i>	1.63211	-0.37849150	-0.03522143		
<i>P</i>	4.20	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 09 06	910	0.1+	0.1-	2000 02 29	704	0.0	0.6-	2000 03 11	704	0.4+	0.2+
1997 09 06	910	0.0	0.1-	2000 02 29	704	0.1+	0.3+	2000 03 11	699	0.3-	0.5-
1997 09 06	910	0.2-	0.0	2000 02 29	704	0.1+	0.3+	2000 03 11	704	0.2+	0.3+
1997 09 06	910	0.1-	0.0	2000 02 29	704	0.0	0.4-	2000 03 11	704	0.3-	0.5+
1997 09 06	910	0.1+	0.1+	2000 02 29	704	0.7-	0.9-	2000 03 11	699	0.1-	0.4-
1997 09 06	910	0.0	0.1+	2000 03 03	704	0.3+	0.4-	2000 03 11	704	0.0	0.4+
2000 02 27	703	0.3+	0.7+	2000 03 03	704	0.1+	0.4-	2000 03 11	699	0.3-	0.4-
2000 02 27	703	0.4-	0.8+	2000 03 03	704	0.5+	0.5-	2000 03 11	704	0.4+	0.7+
2000 02 27	703	0.5-	0.3+	2000 03 03	704	0.5+	0.1-	2000 03 11	699	0.5-	0.1-
2000 02 27	703	0.3-	0.3+	2000 03 03	704	0.4+	0.2+				

2000 DD₇₁ = 1993 FH₆₈ = 1998 SA₇₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	45.54788		(2000.0)		P		Q
n	0.27712355	ω	137.25201	-0.34358220		-0.93830787	
a	2.3299884	Ω	332.77392	+0.83690032		-0.28702317	
e	0.1261462	i	4.90402	+0.42608582		-0.19286277	
P	3.56	H	14.8	G	0.15	U	3

2000 MAR. 20

M.P.C. 39463

1998 09 26	704	0.8−	0.2+	2000 02 08	704	0.4+	0.5−	2000 03 08	704	0.3+	0.9+
1998 09 26	704	0.8−	0.0	2000 02 27	703	0.3+	0.7+	2000 03 08	704	(0.7−	2.3+)
1998 09 26	704	0.2−	0.0	2000 02 27	703	0.2+	0.3+	2000 03 08	704	0.6+	0.2−
1998 09 26	704	0.9−	0.1+	2000 02 27	703	0.6−	0.1+	2000 03 08	704	0.3−	0.0
1998 09 27	704	0.8+	0.2+	2000 02 27	703	0.0	0.6+	2000 03 11	704	0.1+	0.2+
1998 09 27	704	1.5+	0.5−	2000 02 29	704	1.1+	0.1+	2000 03 11	704	0.1+	0.2−
1998 09 27	704	0.8−	0.0	2000 02 29	704	0.2+	0.1+	2000 03 11	704	0.4+	0.0
1998 09 27	704	1.0+	0.3+	2000 02 29	704	0.1−	0.6+	2000 03 11	704	0.2−	0.2−
2000 02 08	704	0.0	0.0	2000 02 29	704	0.2−	0.4−	2000 03 11	704	0.1+	0.1−
2000 02 08	704	0.5+	0.3+	2000 03 03	704	0.9−	1.1−				

2000 DF₇₁ = 1125 T-1 = 1998 WH₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	166.42830		(2000.0)		P		Q
<i>n</i>	0.23716580	ω	132.87078		+0.99902742		−0.03787097
<i>a</i>	2.5848460	Ω	229.31271		+0.02646799		+0.92469530
<i>e</i>	0.0187107	<i>i</i>	1.70666		+0.03526561		+0.37881974
<i>P</i>	4.16	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1971 03 24	675	0.6−	2.2−	1998 11 24	704	0.2−	0.1−	2000 03 03	704	0.7+	0.5+
1971 03 25	675	0.6−	0.4+	1998 11 24	704	0.9−	1.3+	2000 03 03	704	0.5+	0.6+
1971 03 25	675	0.3+	0.8−	1999 01 17	557	0.2+	0.1−	2000 03 03	704	0.2+	0.4+
1971 03 26	675	0.7−	1.2−	1999 01 17	557	0.2−	0.3−	2000 03 03	704	0.1+	0.2+
1971 03 27	675	(3.1−	0.1+)	2000 02 27	703	0.6+	1.6+	2000 03 11	704	0.2+	0.6+
1971 04 02	675	0.3−	1.0−	2000 02 27	703	0.1+	0.1+	2000 03 11	704	0.1+	0.5+
1998 11 21	704	(0.2−	2.3−)	2000 02 27	703	0.0	0.4−	2000 03 11	704	0.1+	0.1+
1998 11 21	704	0.6+	0.6−	2000 02 27	703	0.4−	0.4−	2000 03 11	704	0.0	0.5+
1998 11 21	704	1.2+	0.0	2000 02 29	704	0.2−	0.3+	2000 03 11	704	0.0	0.4+
1998 11 21	704	(4.3−	1.9−)	2000 02 29	704	0.1+	0.7−	2000 03 14	608	0.1+	0.0
1998 11 24	704	0.3+	1.2−	2000 02 29	704	0.6+	0.2+	2000 03 14	608	0.3−	0.4−
1998 11 24	704	1.0+	0.9−	2000 02 29	704	0.6−	0.3−	2000 03 14	608	0.3−	0.4+
1998 11 24	704	1.8−	0.7+	2000 03 03	704	0.2+	0.0				

2000 DH₇₁ = 1998 RJ₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	93.25066		(2000.0)		P		Q
<i>n</i>	0.28377213	ω	90.72530		+0.46066403		−0.88671650
<i>a</i>	2.2934515	Ω	331.74072		+0.77803713		+0.42457832
<i>e</i>	0.1123514	<i>i</i>	4.72726		+0.42713801		+0.18294017
<i>P</i>	3.47	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 23	704	1.2−	0.4+	1998 09 25	699	0.2+	0.4−	2000 03 03	704	0.3+	0.2−
1998 08 23	704	1.1+	0.5+	2000 02 08	704	0.1+	0.2+	2000 03 03	704	0.1+	0.2+
1998 08 23	704	0.7+	0.5−	2000 02 08	704	0.4−	0.4−	2000 03 03	704	0.1+	0.2−
1998 08 23	704	(5.4−	0.7−)	2000 02 08	704	0.2+	0.3+	2000 03 03	704	0.2+	0.1+
1998 09 14	704	0.4+	0.6−	2000 02 08	704	0.8−	0.8+	2000 03 08	704	0.6−	1.2−
1998 09 14	704	0.3+	0.5−	2000 02 27	703	1.4−	0.0	2000 03 08	704	0.2+	0.9+
1998 09 14	704	0.1−	0.3−	2000 02 27	703	0.4−	0.7−	2000 03 08	704	0.5+	1.0−
1998 09 14	704	0.4+	0.7−	2000 02 27	703	0.0	0.2−	2000 03 08	704	1.0+	0.4+
1998 09 18	704	0.3+	0.2−	2000 02 27	703	0.2−	0.2+	2000 03 11	704	0.3+	0.5+
1998 09 18	704	0.7−	0.5+	2000 02 29	704	0.7+	0.6+	2000 03 11	704	0.2+	0.7+
1998 09 18	704	1.3−	0.5+	2000 02 29	704	0.5+	0.3−	2000 03 11	704	0.1+	0.3+
1998 09 18	704	0.4−	0.1−	2000 02 29	704	0.1+	0.6−	2000 03 11	704	0.1+	0.5+
1998 09 18	704	0.3−	1.4+	2000 02 29	704	0.1+	0.9−	2000 03 11	704	0.2+	0.7+
1998 09 25	699	0.1+	0.0	2000 02 29	704	1.1−	0.4−				
1998 09 25	699	0.2+	0.6+	2000 03 03	704	0.0	0.3+				

2000 DP₇₁ = 1193 T-1 = 1998 XS₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	67.76927		(2000.0)		P		Q
<i>n</i>	0.16907224	ω	256.42731		+0.11188902		−0.99371603
<i>a</i>	3.2390763	Ω	187.15057		+0.92093473		+0.10484633
<i>e</i>	0.1560927	<i>i</i>	1.40425		+0.37330961		+0.03918808
<i>P</i>	5.83	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1971 03 24	675	0.5+	2.5−	2000 02 02	704	0.9−	0.7+	2000 03 03	704	0.1−	0.1−
1971 03 25	675	1.6−	1.0−	2000 02 07	704	0.2−	0.3+	2000 03 03	704	0.8+	0.2+
1971 03 25	675	1.8−	0.5−	2000 02 07	704	0.9+	1.0+	2000 03 03	704	0.3+	0.3−
1971 03 26	675	2.2+	0.9−	2000 02 07	704	0.6+	0.4−	2000 03 03	704	0.5+	0.9−
1971 03 27	675	1.0−	0.3−	2000 02 07	704	0.7+	0.4−	2000 03 04	704	0.1+	0.2+
1971 04 02	675	0.2−	0.5+	2000 02 07	704	0.9+	1.1+	2000 03 04	704	0.1−	0.2−
1998 12 15	704	0.4−	0.2−	2000 02 16	703	0.1+	0.6+	2000 03 04	704	0.2+	0.1−
1998 12 15	704	0.2+	1.4+	2000 02 16	703	1.7−	0.2+	2000 03 04	704	0.0	0.0
1998 12 15	704	0.3+	0.4−	2000 02 16	703	0.3−	0.3+	2000 03 04	704	0.3−	0.2−
1998 12 15	704	0.7+	0.2+	2000 02 16	703	0.5+	0.5+	2000 03 08	704	0.2−	0.1+
1998 12 15	704	0.2−	0.1+	2000 02 27	703	0.3−	0.1−	2000 03 08	704	0.1−	0.4+
1998 12 22	704	0.6−	1.2−	2000 02 27	703	1.1−	0.8+	2000 03 08	704	0.6+	1.2+
1998 12 22	704	0.5−	0.6+	2000 02 27	703	0.1−	0.3−	2000 03 11	704	0.3+	0.2+
1998 12 22	704	0.8+	1.5−	2000 02 27	703	0.4+	0.8−	2000 03 11	704	0.2+	0.3+
1998 12 22	704	(0.7+	2.5−)	2000 02 29	704	0.7+	0.1−	2000 03 11	704	0.1−	0.0
2000 02 02	704	0.2+	0.3+	2000 02 29	704	0.4+	0.2+	2000 03 11	704	0.7+	0.9−
2000 02 02	704	0.0	0.0	2000 02 29	704	0.1+	0.1+	2000 03 11	704	0.3−	0.7+
2000 02 02	704	0.4−	0.5+	2000 02 29	704	0.1+	0.3+				
2000 02 02	704	0.5−	0.2−	2000 02 29	704	1.0−	0.5−				

2000 DU₇₁ = 1996 EO₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	278.30143		(2000.0)		P		Q
<i>n</i>	0.24417115	ω	275.30879		−0.14005739		+0.99012347
<i>a</i>	2.5351665	Ω	346.63513		−0.89733872		−0.12960851
<i>e</i>	0.1058609	<i>i</i>	1.55687		−0.41852975		−0.05345229
<i>P</i>	4.04	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 03 15	566	0.3−	0.2+	2000 02 29	704	0.9+	0.3−	2000 03 11	699	0.6−	0.4+
1996 03 15	566	0.3+	0.4−	2000 02 29	704	0.1+	0.3−	2000 03 11	704	0.5+	0.2+
1996 03 15	566	0.3+	0.2−	2000 02 29	704	0.2+	0.2−	2000 03 11	704	0.1+	0.1+
1996 03 18	566	0.2−	0.5−	2000 02 29	704	0.7−	0.7−	2000 03 11	699	0.8−	0.7+
1996 03 18	566	0.3−	0.2−	2000 03 03	704	0.4−	0.1−	2000 03 11	704	0.5+	0.0
1996 03 18	566	0.4−	0.4−	2000 03 03	704	0.3−	0.0	2000 03 11	699	0.1+	0.1+
1998 12 17	704	(2.5+	0.3−)	2000 03 03	704	0.4+	0.2+	2000 03 11	704	0.4+	0.7+
1998 12 17	704	0.1−	0.6+	2000 03 03	704	0.1+	0.1+	2000 03 11	699	0.2+	0.7+
1998 12 17	704	0.1+	0.7−	2000 03 03	704	0.1−	0.2−				
1998 12 17	704	(4.8−	1.1+)	2000 03 11	704	0.1+	0.2+				

2000 DW₇₁ = 1996 ED₁₀ = 1997 NG₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	252.25365		(2000.0)		P		Q
<i>n</i>	0.25425380	ω	134.02763		+0.38530823		+0.92253321
<i>a</i>	2.4676927	Ω	158.60646		−0.86273199		+0.36846993
<i>e</i>	0.1822185	<i>i</i>	3.40746		−0.32746157		+0.11472748
<i>P</i>	3.88	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 03 12	691	0.2−	0.2−	1997 07 12	691	0.3+	0.4−	2000 03 11	704	0.3−	0.0
1996 03 12	691	0.2−	0.2+	2000 02 29	704	0.5+	0.4−	2000 03 11	699	0.9−	0.1−
1996 03 12	691	0.1−	0.1+	2000 02 29	704	0.6+	0.7+	2000 03 11	704	0.2−	0.3−
1996 03 17	691	0.5+	0.6−	2000 02 29	704	0.5+	1.0+	2000 03 11	704	0.1+	0.4−
1996 03 17	691	0.3−	0.6−	2000 02 29	704	0.5+	0.4+	2000 03 11	699	1.8−	0.2−
1996 03 17	691	0.2−	0.7−	2000 02 29	704	0.9+	0.4−	2000 03 11	704	0.6+	0.2−
1997 07 07	691	0.0	0.1+	2000 03 03	704	0.1+	0.2+	2000 03 11	699	0.2−	1.1+

1997 07 07	691	0.3+	0.5+	2000 03 03	704	0.6+	0.2-	2000 03 11	704	0.1-	0.1-
1997 07 07	691	0.3+	0.5-	2000 03 03	704	0.3+	0.1+	2000 03 11	699	0.8-	0.8+
1997 07 12	691	0.1+	0.5-	2000 03 03	704	0.1+	0.3-				
1997 07 12	691	0.9-	0.7+	2000 03 03	704	0.1+	0.2-				

2000 DX₇₁ = 1991 RJ₁₀ = 1997 WG₅₆ = 1999 AC₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	194.09584		(2000.0)	P	Q		
<i>n</i>	0.17284319	ω	313.69629	+0.93098591	+0.36495887		
<i>a</i>	3.1917916	Ω	24.90221	-0.32894609	+0.84863406		
<i>e</i>	0.1999168	<i>i</i>	1.14063	-0.15830258	+0.38291677		
<i>P</i>	5.70	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 09 10	675	0.1-	0.5+	1997 11 29	704	0.4-	0.7-	2000 02 16	703	0.8+	0.6-
1991 09 10	675	0.3-	0.2-	1997 11 29	704	0.2-	1.2+	2000 02 29	704	0.1+	0.6-
1991 09 16	675	0.4+	0.0	1997 11 29	704	0.3-	0.2+	2000 02 29	704	0.4+	0.9+
1991 09 16	675	0.1-	0.1-	1997 11 29	704	0.8-	0.0	2000 02 29	704	0.4+	0.3+
1997 10 29	704	0.3+	0.9+	1998 12 21	704	1.6+	1.4-	2000 02 29	704	0.7-	0.5+
1997 10 29	704	0.1+	0.5+	1998 12 21	704	1.3+	0.2+	2000 03 03	704	0.2-	0.5+
1997 10 29	704	0.9+	0.2-	1998 12 21	704	0.3+	0.3+	2000 03 03	704	0.6+	0.3+
1997 10 29	704	0.6+	1.2-	1998 12 21	704	(0.9+ 3.4-)		2000 03 03	704	0.2+	0.0
1997 10 29	704	0.6+	0.2+	1998 12 21	704	(5.6- 1.1+)		2000 03 03	704	0.3+	0.3+
1997 10 30	704	0.5+	0.0	1999 01 10	691	0.5-	0.3-	2000 03 03	704	0.2-	0.2+
1997 10 30	704	0.4-	0.2-	1999 01 10	691	0.4-	0.4-	2000 03 11	704	0.2+	0.1+
1997 10 30	704	0.4+	0.2+	1999 01 10	691	0.1-	0.5-	2000 03 11	704	0.1-	0.3+
1997 10 30	704	0.4+	0.1+	1999 01 16	691	1.2-	0.2-	2000 03 11	704	0.1-	0.2+
1997 11 06	704	0.5-	0.6+	1999 01 16	691	0.7-	0.6-	2000 03 11	704	0.1-	0.4-
1997 11 06	704	0.7-	0.2+	1999 01 16	691	0.9-	0.2-	2000 03 11	704	0.4-	0.2+
1997 11 06	704	0.3-	0.2-	2000 02 16	703	0.2-	0.5+	2000 03 12	691	0.2+	0.2+
1997 11 06	704	0.5-	0.3+	2000 02 16	703	0.1-	0.2+	2000 03 12	691	0.3+	0.3+
1997 11 06	704	0.6-	0.0	2000 02 16	703	0.0	0.3-	2000 03 12	691	0.1+	0.2+

2000 DO₇₂ = 1997 UF₃ = 1999 AD₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	132.83637		(2000.0)	P	Q		
<i>n</i>	0.17011965	ω	33.95115	+0.87132863	-0.49050688		
<i>a</i>	3.2257675	Ω	355.35847	+0.40391039	+0.73286226		
<i>e</i>	0.0902418	<i>i</i>	9.79224	+0.27864459	+0.47150389		
<i>P</i>	5.79	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 10 22	595	1.6-	1.0-	1999 01 16	704	0.1-	0.4-	2000 03 03	704	0.9+	1.4+
1997 10 22	595	1.1-	0.3-	1999 01 16	704	0.8+	1.5-	2000 03 03	704	0.2-	0.0
1997 10 24	595	0.2+	0.3+	1999 01 16	704	0.0	0.9+	2000 03 11	704	0.2+	0.1+
1997 10 24	595	0.2-	1.6+	1999 01 16	704	0.9+	1.0-	2000 03 11	704	0.5+	0.3-
1997 10 30	704	1.5-	1.4-	1999 01 20	627	0.3+	1.4+	2000 03 11	704	0.1-	0.9+
1997 10 30	704	1.8+	0.1+	1999 01 20	627	0.5-	0.3+	2000 03 11	704	0.3+	0.3+
1997 10 30	704	0.9+	1.6+	2000 02 29	704	1.1-	0.4-	2000 03 11	704	0.3+	0.6+
1997 10 30	704	0.1-	1.4-	2000 02 29	704	1.0-	0.4-	2000 03 12	704	0.1+	0.1-
1997 11 03	595	0.4+	0.5+	2000 02 29	704	1.1-	1.2-	2000 03 12	704	1.4+	0.2+
1997 11 03	595	0.7+	1.1+	2000 02 29	704	0.4+	0.8+	2000 03 12	704	0.2-	0.1+
1999 01 15	627	0.7-	0.7-	2000 03 03	704	0.1+	0.5+	2000 03 12	704	0.4+	0.0
1999 01 15	627	0.8-	0.5+	2000 03 03	704	0.2-	1.5-				

2000 DP₇₂ = 1994 TN₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	14.20563		(2000.0)	P	Q		
<i>n</i>	0.24703254	ω	64.28930	-0.85705953	-0.51490427		
<i>a</i>	2.5155518	Ω	84.71494	+0.46600323	-0.78958915		
<i>e</i>	0.1056180	<i>i</i>	1.03348	+0.21974976	-0.33380020		
<i>P</i>	3.99	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 10 08	691	0.1+	0.1-	2000 02 29	704	1.1-	1.1-	2000 03 11	699	0.7-	0.3+
1994 10 08	691	0.5+	1.4+	2000 02 29	704	0.5+	0.1+	2000 03 11	704	0.3+	0.0
1994 10 08	691	0.4-	0.3-	2000 03 03	704	0.2-	0.7+	2000 03 11	704	0.6+	0.4-
1994 10 10	691	0.3-	0.6-	2000 03 03	704	0.0	0.8-	2000 03 11	699	0.3+	1.0+
1994 10 10	691	0.3-	0.1-	2000 03 03	704	0.7+	0.1-	2000 03 11	704	0.1-	0.8-
1994 10 10	691	0.3+	0.4-	2000 03 03	704	0.6-	0.1+	2000 03 11	699	0.3-	0.5-
2000 02 29	704	0.2+	1.0+	2000 03 03	704	0.8+	0.6-	2000 03 11	704	0.3+	0.4-
2000 02 29	704	0.2+	1.4+	2000 03 11	704	0.5-	0.2+	2000 03 11	699	0.3-	0.0

2000 DT₇₂ = 1991 RY₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	252.87704		(2000.0)	P	Q		
<i>n</i>	0.17894092	ω	284.13628	+0.18825181	+0.98208565		
<i>a</i>	3.1188628	Ω	356.68061	-0.83664314	+0.15593056		
<i>e</i>	0.0431066	<i>i</i>	8.24952	-0.51438265	+0.10579899		
<i>P</i>	5.51	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 09 08	691	0.4-	0.6+	2000 02 11	704	0.4+	0.4+	2000 03 03	704	0.2-	0.3+
1991 09 08	691	0.2-	0.5+	2000 02 11	704	0.2+	1.2+	2000 03 03	704	0.1+	0.2+
1991 09 08	691	0.3-	0.5+	2000 02 11	704	0.3+	1.3+	2000 03 03	704	0.9-	0.7+
1991 09 16	675	0.1+	0.2-	2000 02 26	703	0.3+	0.6-	2000 03 11	704	0.3-	0.2+
1991 09 16	675	(2.7- 0.9+)		2000 02 26	703	0.8-	0.1-	2000 03 11	704	0.1-	0.1-
1997 10 29	566	0.3-	0.4+	2000 02 26	703	(2.3- 0.3-)		2000 03 11	704	0.2-	0.5+
1997 10 29	566	0.6-	0.5+	2000 02 26	703	1.3-	0.4-	2000 03 11	704	0.1-	0.3+
1997 10 29	566	0.0	0.5+	2000 02 29	704	0.4+	0.4-	2000 03 11	704	0.3-	0.2+
1998 12 14	704	0.5+	0.6-	2000 02 29	704	0.3+	1.0-	2000 03 12	704	0.1+	0.1+
1998 12 14	704	0.5-	1.5+	2000 02 29	704	0.3+	0.4-	2000 03 12	704	0.4+	0.2-
1998 12 14	704	0.3+	0.9-	2000 03 02	703	0.2-	0.2+	2000 03 12	704	0.6+	0.4-
1998 12 14	704	0.9+	1.1-	2000 03 02	703	0.6+	0.3-	2000 03 12	704	0.3+	0.5-
1999 01 16	704	1.0-	1.1-	2000 03 02	703	(2.4+ 0.9-)		2000 03 12	704	0.9+	0.1+
1999 01 16	704	0.4-	0.6+	2000 03 02	703	1.4+	0.9+	2000 03 14	608	0.1-	0.2+
1999 01 16	704	0.1+	0.5+	2000 03 03	704	0.3-	0.2+	2000 03 14	608	0.3+	0.4+
1999 01 16	704	(3.3- 0.2+)		2000 03 03	704	0.1+	0.2+	2000 03 14	608	0.4-	0.1-

2000 DC₇₃ = 1991 VY₆ = 1998 UR₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	163.88107		(2000.0)	P	Q		
<i>n</i>	0.27965925	ω	192.18618	+0.99953942	+0.01382094		
<i>a</i>	2.3158829	Ω	166.93119	-0.00545218	+0.95757113		
<i>e</i>	0.2191412	<i>i</i>	6.86214	-0.02985327	+0.28786544		
<i>P</i>	3.52	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1991 11 09	809	0.9-	1.3-	2000 03 03	704	0.4-	0.0	2000 03 11	704	0.1-	0.6-
1991 11 09	809	(0.2+ 4.0-)		2000 03 03	704	0.2+	0.5+	2000 03 11	699	0.5-	0.3-
1991 11 12	809	1.0+	0.9-	2000 03 03	704	0.2-	0.3+	2000 03 11	704	0.2-	0.5-
1991 11 12	809	0.1+	0.6-	2000 03 03	704	0.4+	1.0+	2000 03 11	699	0.2+	0.7+
1991 11 12	809	0.6+	1.5-	2000 03 03	704	0.5+	0.6+	2000 03 12	704	0.5+	0.1-
1998 10 18	809	0.2+	1.1+	2000 03 05	704	0.3-	0.2+	2000 03 12	704	0.5+	0.4-
1998 10 18	809	0.2-	0.4+	2000 03 05	704	0.1+	0.1-	2000 03 12	704	1.2+	0.4+
1998 10 18	809	0.7-	1.1+	2000 03 05	704	0.1-	0.3+	2000 03 12	704	0.1-	0.0
1998 10 19	809	0.1-	0.7+	2000 03 05	704	0.4+	0.6+	2000 03 12	704	1.5-	0.8+
1998 10 19	809	0.1-	0.4+	2000 03 05	704	0.9+	1.1+	2000 03 14	691	0.4-	0.5-
1998 10 19	809	0.2-	1.4+	2000 03 11	699	1.3+	0.1-	2000 03 14	691	0.3-	0.4-
2000 02 29	704	0.3+	0.3-	2000 03 11	704	0.2-	0.1+	2000 03 14	691	0.4-	0.3-
2000 02 29	704	0.5-	0.4-	2000 03 11	704	0.2+	0.3-				
2000 02 29	704	0.9-	0.1-	2000 03 11	699	0.2-	0.1-				

2000 MAR. 20

M.P.C. 39465

2000 DU₇₃ = 1993 FR₅₀ = 1998 RT₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	65.57464		(2000.0)		P		Q				
<i>n</i>	0.27782135	ω	98.61588		+0.02509715		-0.99952816				
<i>a</i>	2.3260853	Ω	349.89524		+0.87291673		+0.03054450				
<i>e</i>	0.1234892	<i>i</i>	5.79280		+0.48722327		-0.00323772				
<i>P</i>	3.55	<i>H</i>	16.1		<i>G</i>	0.15	<i>U</i>	4			
Residuals in seconds of arc											
1993 03 19	809	0.6+	1.0+	2000 02 29	704	1.7+	0.2+	2000 03 11	699	2.0-	0.1+
1993 03 20	809	0.2-	0.6+	2000 02 29	704	0.9+	0.7+	2000 03 11	704	0.6+	0.4+
1993 03 24	809	0.5+	0.0	2000 02 29	704	0.7+	1.7+	2000 03 11	704	0.4-	0.2-
1998 09 13	691	0.3-	0.7+	2000 02 29	704	0.4+	0.1-	2000 03 11	699	0.9-	0.4-
1998 09 13	691	0.5-	0.7+	2000 03 03	704	0.0	0.1-	2000 03 11	704	0.0	0.1-
1998 09 13	691	0.4-	0.8+	2000 03 03	704	1.3+	0.2+	2000 03 11	699	1.0-	0.3-
1998 09 20	691	0.6-	1.2+	2000 03 03	704	0.4+	0.2-	2000 03 11	704	0.1-	0.0
1998 09 20	691	0.5-	0.7+	2000 03 11	704	0.3+	0.1+	2000 03 11	699	0.4-	0.5+

2000 DX₇₃ = 1998 XE₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	16.46647		(2000.0)		P		Q				
<i>n</i>	0.17908227	ω	251.43202		-0.84457295		-0.53537638				
<i>a</i>	3.1172215	Ω	256.19778		+0.49441851		-0.77383301				
<i>e</i>	0.1287778	<i>i</i>	0.48891		+0.20554042		-0.33845918				
<i>P</i>	5.50 <th><i>H</i></th> <td>13.4</td> <th><i>G</i></th> <td>0.15</td> <th><i>U</i></th> <td>5</td> <th></th> <th></th> <th></th>	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	5				
Residuals in seconds of arc											
1998 12 14	704	1.5+	0.3+	2000 02 29	704	0.7-	0.5+	2000 03 11	704	0.2-	0.0
1998 12 14	704	0.6-	1.1-	2000 02 29	704	0.6-	0.5+	2000 03 11	699	0.4-	0.1-
1998 12 14	704	0.9-	0.6+	2000 02 29	704	1.4+	0.1-	2000 03 11	704	0.1+	0.2-
1998 12 14	704	(3.3-	0.8-)	2000 03 03	704	0.4+	0.1-	2000 03 11	704	0.0	0.1-
1998 12 17	704	0.1-	1.4+	2000 03 03	704	0.6+	0.2+	2000 03 11	699	0.4-	0.2-
1998 12 17	704	0.1+	0.2+	2000 03 03	704	0.1+	0.1-	2000 03 11	704	0.1+	0.1-
1998 12 17	704	0.5-	1.6-	2000 03 03	704	0.3+	0.2-	2000 03 11	699	0.9-	0.2+
1998 12 17	704	1.5+	0.1+	2000 03 03	704	0.1+	0.2-	2000 03 11	704	0.3+	0.1-
1998 12 17	704	1.0-	0.1+	2000 03 08	704	0.1-	0.1-	2000 03 11	699	0.5-	0.1-
2000 02 27	703	0.1+	0.0	2000 03 08	704	0.3-	0.2-	2000 03 14	608	0.7+	0.3+
2000 02 27	703	0.1-	0.2+	2000 03 08	704	0.1+	0.3+	2000 03 14	608	0.1+	0.1-
2000 02 27	703	0.2-	0.4+	2000 03 08	704	0.5+	0.5+	2000 03 14	608	0.2+	0.7-
2000 02 27	703	0.1+	0.1-	2000 03 08	704	0.9-	0.2-				

2000 DY₇₃ = 1978 WE₁₇ = 1990 DJ₃ = 1998 XJ₉₂

Id. G. V. Williams, A. Lowe

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	226.60562		(2000.0)		P		Q				
<i>n</i>	0.20205827	ω	59.23294		+0.63788604		+0.76997290				
<i>a</i>	2.8761948	Ω	250.40968		−0.71211759		+0.58200450				
<i>e</i>	0.0810578	<i>i</i>	0.94833		−0.29324040		+0.26155783				
<i>P</i>	4.88	<i>H</i>	13.4		<i>G</i>	0.15	<i>U</i>	1			
Residuals in seconds of arc											
1978 11 30	675	0.5+	1.4+	1998 12 22	704	1.4−	0.1−	2000 03 03	704	0.5−	0.4−
1978 12 01	675	1.0−	0.8+	1998 12 22	704	0.7+	0.4−	2000 03 03	704	0.1+	0.1−
1990 02 24	809	0.4−	0.2+	1998 12 22	704	1.8−	0.7−	2000 03 11	704	0.3+	0.1+
1990 02 24	809	0.5−	0.3+	2000 02 08	704	0.8+	0.5+	2000 03 11	699	0.4−	0.0
1990 02 24	809	0.4−	0.1+	2000 02 08	704	1.9+	1.0−	2000 03 11	704	0.0	0.1−
1990 02 25	809	0.0	0.5−	2000 02 08	704	0.2−	0.2+	2000 03 11	704	0.1−	0.1−
1990 02 25	809	0.4+	0.6−	2000 02 08	704	0.5+	0.1−	2000 03 11	699	0.5−	0.2−
1990 02 25	809	0.4+	0.7−	2000 02 29	704	0.2+	0.1+	2000 03 11	704	0.1−	0.2−
1998 12 15	704	1.4+	0.3+	2000 02 29	704	0.6−	0.3+	2000 03 11	699	0.4−	0.4−
1998 12 15	704	0.0	0.0	2000 02 29	704	0.3+	0.4+	2000 03 11	704	0.1+	0.4−
1998 12 15	704	0.9+	0.2−	2000 02 29	704	0.3+	0.7+	2000 03 11	699	0.4−	0.3−
1998 12 15	704	0.7+	0.4−	2000 03 03	704	0.3+	0.6+	2000 03 14	608	0.4+	0.8+
1998 12 15	704	0.5−	0.5−	2000 03 03	704	0.1+	0.3+	2000 03 14	608	0.6−	0.7+
1998 12 22	704	0.1−	0.2+	2000 03 03	704	0.1+	0.2+	2000 03 14	608	0.1+	0.6+

2000 DK₇₄ = 1997 OE₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	309.52051		(2000.0)		P		Q				
n	0.26928819	ω	310.22431		-0.57547355		+0.81737232				
a	2.3749685	Ω	284.62263		-0.74158355		-0.53549637				
e	0.1634344	i	1.60301		-0.34479564		-0.21247618				
P	3.66	H	15.8	G	0.15	U	6				
Residuals in seconds of arc											
1997 07 30	816	0.1-	0.3+	2000 02 29	704	0.1-	0.1-	2000 03 08	704	0.6-	0.7+
1997 07 30	816	1.0-	0.3-	2000 02 29	704	1.3+	0.4+	2000 03 08	704	0.4+	0.0
1997 07 30	816	0.3-	0.3-	2000 02 29	704	0.3-	0.1+	2000 03 08	704	0.8+	0.7+
1997 07 30	816	0.2+	0.1+	2000 02 29	704	1.0+	0.2+	2000 03 11	704	0.3-	0.1-
1997 07 31	816	0.2+	0.3-	2000 02 29	704	0.8-	0.6+	2000 03 11	704	0.2+	0.3-
1997 07 31	816	0.1+	0.3-	2000 03 03	704	0.2-	0.0	2000 03 11	704	0.2+	0.1+
1997 07 31	816	0.2+	0.6+	2000 03 03	704	0.0	0.1+	2000 03 11	704	0.1-	0.3-
1997 07 31	816	0.4+	0.4-	2000 03 03	704	0.7-	0.3-	2000 03 11	704	0.4+	0.4-
1997 08 01	816	1.3+	0.4+	2000 03 03	704	0.3-	0.5-	2000 03 14	608	0.1-	0.3+
1997 08 01	816	0.4-	0.3+	2000 03 03	704	0.6-	0.5-	2000 03 14	608	0.4-	0.1+
1997 08 01	816	0.6-	0.1-	2000 03 08	704	0.2+	0.3+	2000 03 14	608	0.1+	0.9-

2000 DL₇₄ = 1984 SZ₂ = 1998 XJ₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	208.91269		(2000.0)		P		Q				
n	0.28982650	ω	359.03926		+0.87460155		+0.48308023				
a	2.2613997	Ω	331.95499		-0.44424627		+0.76433804				
e	0.2222859	i	5.03934		-0.19420963		+0.42710754				
P	3.40 <th>H</th> <td>14.6</td> <th>G</th> <td>0.15</td> <th>U</th> <td>4</td> <td></td>	H	14.6	G	0.15	U	4				
Residuals in seconds of arc											
1984 09 28	688	0.5-	0.6-	2000 02 08	704	0.1-	1.8-	2000 03 03	704	0.6-	0.6-
1984 09 28	688	0.2+	0.9-	2000 02 08	704	0.1-	0.8-	2000 03 08	704	0.1+	0.5+
1984 09 28	688	0.6-	0.4+	2000 02 08	704	0.6-	1.2+	2000 03 08	704	0.6+	0.7+
1984 09 28	688	1.4+	0.2+	2000 02 27	703	0.4-	0.3-	2000 03 08	704	0.8+	1.4+
1998 12 14	704	0.5-	0.0	2000 02 27	703	0.7-	0.2-	2000 03 08	704	0.6+	0.5+
1998 12 14	704	0.6+	0.9+	2000 02 27	703	1.1+	0.2-	2000 03 11	704	0.5+	0.0
1998 12 14	704	0.8+	1.5+	2000 02 27	703	0.3-	0.4-	2000 03 11	704	0.1+	0.1-
1998 12 14	704	0.9+	0.4+	2000 02 29	704	0.3-	0.1-	2000 03 11	704	0.2+	0.3-
1998 12 14	704	0.0	0.9+	2000 02 29	704	0.4-	0.5+	2000 03 11	704	0.2+	0.3-
1998 12 17	704	0.2-	0.4+	2000 02 29	704	1.2-	0.2-	2000 03 11	704	0.1+	0.4-
1998 12 17	704	0.4-	0.2-	2000 03 03	704	0.0	0.1+	2000 03 14	608	0.9+	0.2-
1998 12 17	704	0.1-	1.2-	2000 03 03	704	0.5-	0.2+	2000 03 14	608	0.0	0.2-
1998 12 17	704	0.2-	1.3-	2000 03 03	704	0.0	0.3-	2000 03 14	608	0.4-	0.4+
1998 12 17	704	0.8-	1.2-	2000 03 03	704	0.3-	0.4-				

2000 DM₇₄ = 1993 FP₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	348.55336		(2000.0)		P		Q				
n	0.27741245	ω	226.05526		-0.99901721		+0.03277090				
a	2.3283705	Ω	315.79729		-0.01696591		-0.90476779				
e	0.0971558	i	2.45337		-0.04094853		-0.42464258				
P	3.55	H	15.7	G	0.15	U	5				
Residuals in seconds of arc											
1993 03 21	809	1.2-	0.1-	2000 02 29	704	0.3-	0.3+	2000 03 11	704	0.0	0.3+
1993 03 22	809	0.7+	0.2+	2000 03 03	704	0.1-	0.2+	2000 03 11	704	0.2-	0.1-
1993 03 26	809	0.6+	0.1+	2000 03 03	704	0.0	0.4+	2000 03 11	704	0.3-	0.1-
2000 02 29	704	0.6+	0.5-	2000 03 03	704	0.3+	0.3+	2000 03 11	704	0.4-	0.7-
2000 02 29	704	0.3+	0.1+	2000 03 03	704	0.1-	0.2+	2000 03 11	704	0.3-	0.6-
2000 02 29	704	0.1+	0.3-	2000 03 03	704	0.1+	0.4+				

2000 DR₇₄ = 1996 FU₁₆ = 1998 XW₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	162.44964		(2000.0)	P	Q
n	0.22089363	ω	83.89926	+0.99519600	−0.09383528
a	2.7102785	Ω	281.48260	+0.07470865	+0.91222499
e	0.1045628	i	1.63294	+0.06327351	+0.39879882
P	4.46	H	13.8	G 0.15	U 4

Residuals in seconds of arc

1996 03 22	809	0.4+	0.5−	1998 12 17	704	0.6−	0.6−	2000 03 03	704	0.3+	0.9+
1996 03 22	809	0.6−	1.6−	1998 12 17	704	1.0+	1.1−	2000 03 03	704	0.0	0.3+
1996 03 22	809	0.4−	0.7−	2000 02 08	704	0.1−	0.7−	2000 03 05	608	0.1−	0.8−
1996 03 26	809	0.1−	0.2+	2000 02 08	704	0.2−	1.5−	2000 03 05	608	0.1+	0.5−
1996 03 26	809	0.6−	0.0	2000 02 08	704	0.9+	0.1+	2000 03 05	608	0.1−	0.8−
1996 03 26	809	0.1−	1.6−	2000 02 08	704	0.3+	0.2−	2000 03 08	704	0.9+	0.9+
1998 12 14	704	0.5+	0.6+	2000 02 08	704	0.2−	0.8−	2000 03 08	704	1.1−	0.3+
1998 12 14	704	0.0	0.2−	2000 02 27	703	0.2−	0.2−	2000 03 08	704	1.1+	1.3+
1998 12 14	704	(0.5+	2.4−)	2000 02 27	703	0.9−	0.8+	2000 03 08	704	0.8−	0.3−
1998 12 14	704	0.2−	0.4+	2000 02 27	703	0.1−	0.4−	2000 03 11	704	0.2+	0.8+
1998 12 14	704	0.1+	0.1−	2000 02 27	703	0.3+	0.6+	2000 03 11	704	0.3+	0.8+
1998 12 16	704	0.2−	0.1+	2000 02 29	704	0.6+	0.2+	2000 03 11	704	0.2+	0.5+
1998 12 16	704	0.6−	0.3+	2000 02 29	704	0.4−	0.2+	2000 03 11	704	0.6+	0.7+
1998 12 16	704	0.5+	0.7−	2000 02 29	704	0.2−	0.3+	2000 03 11	704	0.4+	0.5+
1998 12 16	704	0.4+	0.4−	2000 02 29	704	0.1−	0.1−	2000 03 15	691	0.4−	0.0
1998 12 16	704	0.6+	0.1+	2000 03 03	704	0.3+	0.1−	2000 03 15	691	0.2−	0.1+
1998 12 17	704	0.6−	0.3−	2000 03 03	704	0.2+	0.0	2000 03 15	691	0.1−	0.1−
1998 12 17	704	0.9−	0.0	2000 03 03	704	0.2−	0.4+				

2000 DU₇₄ = 1998 XH₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	165.46568		(2000.0)	P	Q
n	0.22977116	ω	135.13032	+0.99839615	−0.04484084
a	2.6400108	Ω	227.47269	+0.02898871	+0.92927238
e	0.1047288	i	2.68795	+0.04862909	+0.36666352
P	4.29	H	14.1	G 0.15	U 6

Residuals in seconds of arc

1998 12 15	704	(2.3+	0.1−)	2000 02 27	703	0.7−	0.0	2000 03 08	704	1.3+	0.6−
1998 12 15	704	1.0+	1.4+	2000 02 27	703	0.9−	0.5−	2000 03 08	704	0.7+	1.1−
1998 12 15	704	0.7−	0.2−	2000 02 27	703	0.8+	0.2+	2000 03 08	704	0.7−	0.4+
1998 12 16	704	0.0	0.2−	2000 02 27	703	0.9−	0.3+	2000 03 08	704	0.3−	0.5+
1998 12 16	704	0.0	0.8−	2000 02 29	704	0.0	0.4+	2000 03 08	704	0.9+	0.0
1998 12 16	704	0.7+	0.6+	2000 02 29	704	0.2−	0.2+	2000 03 11	704	0.2−	0.4−
1998 12 16	704	1.0+	1.8+	2000 02 29	704	0.6−	0.7−	2000 03 11	704	0.1−	0.0
1998 12 22	704	1.1−	0.3+	2000 02 29	704	0.1−	0.1−	2000 03 11	704	0.1−	0.1+
1998 12 22	704	0.2−	0.9−	2000 03 03	704	0.3+	0.0	2000 03 11	704	0.0	0.2+
1998 12 22	704	0.6−	2.0−	2000 03 03	704	0.9+	0.1+	2000 03 11	704	0.3−	0.3+
1998 12 22	704	(3.5−	1.4−)	2000 03 03	704	0.2+	0.7+				

2000 DV₇₄ = 1989 SA₆ = 1991 EH₈ = 1998 SH₁₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	59.86604		(2000.0)	P	Q
n	0.21961042	ω	272.51130	−0.02675219	−0.99963127
a	2.7208259	Ω	178.98601	+0.98941288	−0.02714237
e	0.1679399	i	15.24505	+0.14264104	+0.00079000
P	4.49	H	13.2	G 0.15	U 2

Residuals in seconds of arc

1989 09 26	809	0.7−	0.4−	1998 09 27	704	0.0	0.6+	2000 03 05	608	0.7−	1.0−
1989 09 26	809	1.5−	0.1+	1998 09 27	704	0.6−	1.2+	2000 03 05	608	0.6−	0.9−
1989 09 26	809	1.8−	1.2−	1998 09 27	704	0.4−	0.2−	2000 03 05	608	0.7−	0.9−
1989 10 03	809	1.9+	0.9−	2000 02 27	703	0.4+	0.1−	2000 03 08	704	0.2−	0.3+
1989 10 03	809	1.4+	1.1−	2000 02 27	703	0.1−	0.2−	2000 03 08	704	0.6−	0.3+
1989 10 03	809	1.8+	0.8−	2000 02 27	703	0.1+	0.1+	2000 03 08	704	0.3+	0.7+
1991 03 09	675	0.2−	1.0−	2000 02 27	703	0.1−	0.2+	2000 03 08	704	0.4−	0.5+

1991 03 09	675	0.4−	0.7+	2000 02 29	704	0.3+	0.0	2000 03 08	704	0.4−	0.5−
1998 09 26	704	0.7−	0.5+	2000 02 29	704	0.3+	0.1+	2000 03 11	704	0.1+	0.0
1998 09 26	704	0.1+	0.7+	2000 02 29	704	0.1−	0.3+	2000 03 11	704	0.0	0.1+
1998 09 26	704	0.4+	0.5−	2000 02 29	704	0.1+	0.3+	2000 03 11	704	0.1+	0.2+
1998 09 26	704	0.2−	0.2+	2000 02 29	704	0.6+	0.2+	2000 03 11	704	0.3+	0.2+
1998 09 26	704	0.4+	0.3+	2000 03 03	704	0.7+	0.3−	2000 03 11	704	0.2+	0.3+
1998 09 27	704	0.3+	0.6+	2000 03 03	704	0.4+	0.1−				
1998 09 27	704	0.4−	0.8+	2000 03 03	704	0.6+	0.2+				

2000 DX₇₄ = 1998 XG₂₉Id. G. V. Williams; 1990 SW₁₄ = 1998 XG₂₉ (*MPC* 38436) is invalid

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	171.52026		(2000.0)	P	Q
n	0.24505969	ω	29.19355	+0.99814226	+0.03909251
a	2.5290347	Ω	328.46134	−0.05640082	+0.88296079
e	0.0870282	i	5.12561	+0.02304287	+0.46781623
P	4.02	H	14.1	G 0.15	U 4

Residuals in seconds of arc

1998 12 14	704	0.1+	0.2+	2000 02 08	704	(1.1+	2.8+)	2000 03 03	704	0.3+	0.5+
1998 12 14	704	0.2−	1.6+	2000 02 27	703	0.6−	0.9−	2000 03 08	704	0.5+	0.2+
1998 12 14	704	0.3−	0.5+	2000 02 27	703	0.4+	0.8−	2000 03 08	704	0.3−	0.3−
1998 12 14	704	0.5+	1.2+	2000 02 27	703	0.3+	0.0	2000 03 08	704	0.9−	0.3−
1998 12 17	704	0.4+	0.1−	2000 02 27	703	0.1−	0.4−	2000 03 08	704	1.1−	1.9+
1998 12 17	704	0.2−	0.0	2000 02 29	704	0.1+	0.3−	2000 03 08	704	0.7+	0.0
1998 12 17	704	0.8−	1.4−	2000 02 29	704	1.0+	0.5−	2000 03 11	704	0.2+	0.4−
1998 12 17	704	0.8+	1.3−	2000 02 29	704	0.1+	0.7−	2000 03 11	704	0.1+	0.3+
1998 12 17	704	0.1−	0.6−	2000 02 29	704	0.3+	0.4−	2000 03 11	704	0.2−	0.5+
2000 02 08	704	0.6−	0.2−	2000 02 29	704	0.5−	0.2−	2000 03 11	704	0.2+	0.5+
2000 02 08	704	0.3−	0.1+	2000 03 03	704	0.6+	0.1−	2000 03 11	704	0.0	0.8+
2000 02 08	704	0.4−	1.0+	2000 03 03	704	0.3+	0.0				

2000 DY₇₄ = 1998 VY₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	334.37023		(2000.0)	P	Q
n	0.26126493	ω	306.66813	−0.95001686	+0.31031072
a	2.4233453	Ω	251.43215	−0.27365907	−0.88055617
e	0.0649457	i	2.07249	−0.15026204	−0.35822910
P	3.77	H	14.2	G 0.15	U 3

Residuals in seconds of arc

1998 10 18	699	0.4−	0.7+	1998 12 08	699	0.8−	0.0	2000 02 27	703	0.3−	0.2+
1998 10 18	699	0.9+	0.8+	1998 12 08	699	0.9+	0.0	2000 02 29	704	0.2+	0.1+
1998 10 18	699	0.0	0.0	1998 12 08	699	0.5+	0.4−	2000 02 29	704	0.1+	0.1+
1998 11 10	704	0.5+	0.4−	2000 01 01	461	0.8+	0.3+	2000 02 29	704	0.1+	0.2+
1998 11 10	704	1.1+	0.4−	2000 01 01	461	0.5+	0.3+	2000 02 29	704	0.0	0.3+
1998 11 10	704	1.4−	0.0	2000 01 01	461	0.1+	0.4+	2000 02 29	704	0.5−	0.2+
1998 11 10	704	0.0	0.2−	2000 01 01	461	0.5+	0.6+	2000 03 03	704	0.7+	0.1−
1998 11 10	704	0.3−	0.3+	2000 01 05	704	0.9−	0.4−	2000 03 03	704	0.8+	0.1+
1998 11 11	704	0.0	0.1+	2000 01 05	704	0.3−	0.7−	2000 03 03	704	0.5+	0.3+
1998 11 11	704	0.3−	0.1−	2000 01 05	704	1.0−	0.5−	2000 03 05	608	0.3−	0.9−
1998 11 11	704	0.0	1.8−	2000 01 05	704	0.1−	0.4−	2000 03 05	608	0.5−	1.4−
1998 11 11	704	0.4−	0.1−	2000 02 08	704	0.4+	0.1+	2000 03 05	608	0.3−	1.4−
1998 11 11	704	1.0−	0.8+	2000 02 08	704	0.2+	0.7−	2000 03 08	704	0.2−	0.1+
1998 11 11	699	0.4−	0.2+	2000 02 08	704	0.0	0.3+	2000 03 08	704	0.3+	1.1+
1998 11 11	699	0.6−	0.1−	2000 02 08	704	0.1+	0.4+	2000 03 08	704	0.1−	0.1+
1998 11 11	699	0.5+	0.1+	2000 02 08	704	0.8−	0.1−	2000 03 08	704	0.1+	0.6+
1998 11 24	699	0.1+	0.0	2000 02 27	703	0.3+	0.3−	2000 03 08	704	0.0	1.0+
1998 11 24	699	0.3+	0.5+	2000 02 27	703	0.2−	0.2+				
1998 11 24	699	1.0+	0.3+	2000 02 27	703	0.2−	0.0				

2000 MAR. 20

M.P.C. 39467

2000 DB₇₅ = 1998 WT₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21445872	ω	275.76950	-0.32228461	-0.94650800		
<i>a</i>	2.7642262	Ω	193.06569	+0.89409710	-0.29880755		
<i>e</i>	0.0703904	<i>i</i>	4.05244	+0.31100322	-0.12180581		
<i>P</i>	4.60	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 18	704	0.5+	0.6+	2000 02 29	704	0.3+	0.8-	2000 03 11	704	0.9+	0.9+
1998 11 18	704	1.4-	1.6-	2000 02 29	704	0.7+	0.9+	2000 03 11	704	0.8+	1.1+
1998 11 18	704	0.9+	0.7+	2000 02 29	704	0.0	1.0+	2000 03 11	704	0.6+	0.9+
1998 11 18	704	0.0	0.3+	2000 02 29	704	0.3-	0.4+	2000 03 14	691	0.3-	0.5-
1998 11 21	704	(1.7-	3.0-)	2000 03 03	704	0.2+	0.4-	2000 03 14	691	0.2-	0.6-
1998 11 21	704	(0.5-	2.6-)	2000 03 03	704	0.2+	0.9-	2000 03 14	691	0.1-	0.5-
1998 11 21	704	(3.0-	3.5-)	2000 03 03	704	0.2+	0.2-	2000 03 14	691	0.8-	0.4-
2000 02 27	703	1.9-	0.6-	2000 03 03	704	0.0	1.4-	2000 03 14	691	0.6-	0.0
2000 02 27	703	0.1+	0.2-	2000 03 03	704	0.6-	0.9-	2000 03 14	691	0.7-	0.0
2000 02 27	703	1.2+	1.1+	2000 03 11	704	0.7+	0.2+				
2000 02 27	703	0.5-	0.9+	2000 03 11	704	0.2+	0.0				

2000 DD₇₅ = 1998 WO₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23071659	ω	132.92810	+0.37069115	-0.92799528		
<i>a</i>	2.6327937	Ω	295.27835	+0.83955250	+0.35211970		
<i>e</i>	0.0470150	<i>i</i>	2.38236	+0.39716454	+0.12180508		
<i>P</i>	4.27	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 18	704	0.5-	0.4-	1998 12 11	699	0.4+	1.1+	2000 02 29	704	0.1-	0.1-
1998 11 18	704	(2.9-	1.2+)	1998 12 11	699	0.5+	1.0+	2000 03 03	704	0.3-	0.3+
1998 11 18	704	0.9-	1.8-	1998 12 14	704	0.6-	0.4+	2000 03 03	704	0.2+	0.4+
1998 11 18	704	0.6+	0.7+	1998 12 14	704	(2.4+	0.6+)	2000 03 03	704	0.7-	0.3+
1998 11 21	704	0.2-	0.2+	1998 12 14	704	0.4-	1.3+	2000 03 08	704	0.4+	0.2+
1998 11 21	704	0.4-	0.6-	1998 12 14	704	(3.5-	0.3+)	2000 03 08	704	0.4+	0.6-
1998 11 21	704	0.2-	0.8-	2000 02 08	704	0.9+	0.9-	2000 03 08	704	0.1+	0.1-
1998 11 21	704	1.7+	1.0-	2000 02 08	704	0.9+	0.3+	2000 03 08	704	0.3+	0.2+
1998 11 21	704	1.8+	0.5-	2000 02 08	704	1.0+	0.2+	2000 03 08	704	0.5-	0.8+
1998 11 24	704	0.9-	0.5+	2000 02 08	704	0.3+	0.6+	2000 03 10	608	0.4-	1.2-
1998 11 24	704	0.5+	0.2-	2000 02 27	703	0.1-	0.3+	2000 03 10	608	0.2-	1.8-
1998 11 24	704	0.2-	0.7-	2000 02 27	703	0.1-	0.2+	2000 03 10	608	0.8-	1.3-
1998 11 24	704	0.1-	0.2-	2000 02 27	703	0.7-	0.1-	2000 03 13	704	0.3-	0.5-
1998 11 25	699	0.4-	0.3+	2000 02 27	703	0.2-	0.7+	2000 03 13	704	0.2+	0.1-
1998 11 25	699	0.0	0.0	2000 02 29	704	0.2-	0.5+	2000 03 13	704	0.3+	0.1+
1998 11 25	699	0.4-	0.2-	2000 02 29	704	0.2-	0.8+				
1998 12 11	699	0.4-	0.8+	2000 02 29	704	0.0	0.2+				

2000 DG₇₅ = 1992 AV₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26210204	ω	311.71101	-0.25081809	+0.96774368		
<i>a</i>	2.4181827	Ω	303.74812	-0.87946961	-0.23803980		
<i>e</i>	0.1441430	<i>i</i>	1.63443	-0.40450401	-0.08251796		
<i>P</i>	3.76	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 01 09	691	0.6+	0.6+	1998 12 17	704	0.5+	0.7-	2000 02 29	704	0.8+	0.3-
1992 01 09	691	0.3+	0.5+	1998 12 17	704	1.3+	0.2-	2000 03 03	704	0.1-	0.1+
1992 01 09	691	0.5+	0.5+	1998 12 17	704	0.5-	1.9-	2000 03 03	704	0.2-	0.1+
1992 01 10	691	0.1-	0.8+	1998 12 17	704	0.3-	0.2+	2000 03 03	704	0.1-	0.4+
1992 01 10	691	0.0	0.8+	2000 02 08	704	1.1+	0.3-	2000 03 08	704	0.1+	0.4-
1992 01 10	691	0.5-	0.4+	2000 02 08	704	0.8+	0.1+	2000 03 08	704	(2.1-	0.0)
1992 01 13	691	0.1+	0.2+	2000 02 08	704	0.0	1.0-	2000 03 08	704	0.1-	0.3+
1992 01 13	691	0.1+	1.0+	2000 02 08	704	0.5+	0.6+	2000 03 08	704	0.5-	0.1+

1992 01 13	691	0.1-	0.3+	2000 02 27	703	0.5-	0.4-	2000 03 08	704	0.8-	0.0
1996 02 16	010	0.6-	0.1-	2000 02 27	703	0.8-	0.3-	2000 03 11	704	0.1+	0.1-
1996 02 16	010	0.0	0.2-	2000 02 27	703	0.4-	0.2-	2000 03 11	704	0.1+	0.1-
1996 02 16	010	1.3+	0.4-	2000 02 27	703	0.5-	0.1-	2000 03 11	704	0.0	0.3-
1997 09 01	566	0.3-	0.9+	2000 02 29	704	0.1+	0.3-	2000 03 11	704	0.0	0.0
1997 09 01	566	0.1-	0.5+	2000 02 29	704	0.4+	0.7+	2000 03 11	704	0.3-	0.1+
1997 09 01	566	0.2-	0.9+	2000 02 29	704	0.1+	0.6+				
1998 12 17	704	0.5-	0.1-	2000 02 29	704	0.2-	0.0				

2000 DQ₇₅ = 1993 SX₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23402483	ω	259.78679	+0.03924303	+0.99911871		
<i>a</i>	2.6079230	Ω	12.49121	-0.88770998	+0.04170157		
<i>e</i>	0.1411947	<i>i</i>	3.94820	-0.45872755	+0.00477309		
<i>P</i>	4.21	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 09 17	809	0.3-	0.9-	1993 09 22	675	0.6+	0.4+	2000 03 03	704	0.8+	0.0
1993 09 17	809	0.2-	1.3-	1993 09 22	675	0.7+	1.0+	2000 03 03	704	1.2+	0.3+
1993 09 17	809	(1.7-	2.5-)	1993 09 24	809	1.0+	1.2+	2000 03 11	704	0.8-	0.4-
1993 09 18	809	0.8-	1.2-	1993 09 24	809	1.4+	0.1-	2000 03 11	704	1.0-	0.4-
1993 09 18	809	0.1-	0.5-	1993 09 24	809	1.0-	1.3-	2000 03 11	704	0.7-	0.7-
1993 09 18	809	0.7-	0.2-	2000 02 29	704	0.1+	1.7+	2000 03 11	704	0.3-	0.2-
1993 09 18	675	1.3-	1.5-	2000 02 29	704	0.8+	0.3-	2000 03 11	704	0.2-	1.1-
1993 09 18	675	0.5+	0.3+	2000 02 29	704	0.3-	0.0	2000 03 11	699	0.1-	0.1+
1993 09 22	809	1.8+	1.8+	2000 03 03	704	0.5+	0.2+	2000 03 11	699	0.4-	0.0
1993 09 22	809	(1.2+	2.6+)	2000 03 03	704	0.4+	0.1-	2000 03 11	699	0.0	0.2+
1993 09 22	809	1.3-	1.9+	2000 03 03	704	0.7+	0.0	2000 03 11	699	0.7-	0.2+

2000 DA₇₆ = 1993 HD₃ = 1998 SP₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27006362	ω	256.17571	+0.55329587	-0.83190943		
<i>a</i>	2.3704201	Ω	160.05473	+0.80412808	+0.52018423		
<i>e</i>	0.0977537	<i>i</i>	7.12536	+0.21735161	+0.19322286		
<i>P</i>	3.65	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 04 19	691	0.0	0.4+	1998 09 27	704	0.2-	1.1+	2000 03 03	704	0.0	0.3+
1993 04 19	691	0.6-	0.2+	1998 09 27	704	0.0	1.4-	2000 03 03	704	0.0	0.0
1993 04 19	691	0.3-	0.4+	1998 09 27	704	0.3+	0.3-	2000 03 11	704	0.1+	0.1+
1993 04 24	691	0.1+	0.1+	1998 09 27	704	0.5+	0.7+	2000 03 11	704	0.7-	0.1-
1993 04 24	691	0.1+	0.2-	1998 09 27	704	(2.2-	0.1-)	2000 03 11	704	0.3+	0.2-
1993 04 24	691	0.8+	0.8-	2000 02 29	704	0.2+	0.0	2000 03 11	704	(0.4-	2.5-)
1998 09 26	704	0.9-	1.6+	2000 02 29	704	0.4-	0.3+	2000 03 11	699	0.6+	0.4+
1998 09 26	704	(2.1+	1.5-)	2000 02 29	704	0.3-	1.0+	2000 03 11	699	0.4-	0.5-
1998 09 26	704	0.3-	1.3-	2000 03 03	704	0.7+	0.7-	2000 03 11	699	0.8+	0.6-
1998 09 26	704	0.7+	0.6-	2000 03 03	704	0.4+	0.3+	2000 03 11	699	0.7-	0.3-
1998 09 26	704	0.2-	0.2+	2000 03 03	704	0.3-	0.0				

2000 DE₇₆ = 1993 RJ₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23327457	ω	285.82010	+0.03813268	+0.99883147		
<i>a</i>	2.6135117	Ω	346.26247	-0.86229689	+0.01787606		
<i>e</i>	0.1184877	<i>i</i>	7.18252	-0.50496532	+0.04490140		
<i>P</i>	4.23	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 09 15	809	1.3+	0.2+	2000 03 03	691	0.5-	0.2-	2000 03 11	704	0.1+	0.6-
1993 09 15	809	1.1-	0.4+	2000 03 03	704	0.6-	0.1-	2000 03 11	699	0.8-	0.1+
1993 09 15	809	1.0-	0.3-	2000 03 03	691	0.6-	0.3-	2000 03 11	704	0.0	0.7-
1993 09 17	809	0.9-	1.5-	2000 03 03	704	0.1-	0.2+	2000 03 11	699	0.0	0.6+
1993 09 17	809	0.3-	1.4-	2000 03 10	691	0.3+	0.0	2000 03 12	691	0.3-	0.1-

1993 09 17	809	0.9−	1.3−	2000 03 10	691	0.4+	0.1−	2000 03 12	691	0.3−	0.2−
1993 09 18	809	(2.9+	2.4+)	2000 03 10	691	0.5+	0.0	2000 03 12	691	0.4−	0.1−
1993 09 18	809	1.7+	2.0+	2000 03 11	704	0.3+	0.3+	2000 03 14	691	0.0	0.1−
1993 09 18	809	1.3+	2.0+	2000 03 11	704	0.4+	0.3+	2000 03 14	691	0.1−	0.2−
2000 02 29	704	0.9+	0.2+	2000 03 11	704	(0.6+	2.5+)	2000 03 14	691	0.1−	0.0
2000 02 29	704	0.6+	0.0	2000 03 11	704	0.0	0.5+	2000 03 15	704	0.3+	0.4−
2000 02 29	704	0.4+	0.1−	2000 03 11	704	0.4−	0.3−	2000 03 15	704	0.5+	0.1+
2000 03 03	704	0.5+	0.7−	2000 03 11	699	0.1+	0.7+	2000 03 15	704	0.9−	0.0
2000 03 03	691	0.5−	0.2−	2000 03 11	704	0.6+	0.5−	2000 03 15	704	0.4−	0.1−
2000 03 03	704	0.3−	0.7+	2000 03 11	704	0.2+	0.4−	2000 03 15	704	0.3+	1.0+
2000 03 03	704	0.1+	0.2+	2000 03 11	699	0.1+	0.5+				

2000 DH₇₆ = 1998 SQ₁₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	47.00818		(2000.0)	P	Q
<i>n</i>	0.26335188	ω	169.14974	−0.27292933	−0.96195983
<i>a</i>	2.4105257	Ω	296.68802	+0.88164425	−0.24513133
<i>e</i>	0.1247119	<i>i</i>	0.76654	+0.38498441	−0.12059819
<i>P</i>	3.74	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	327	0.5+	0.6+	2000 02 29	704	0.4+	0.6−	2000 03 10	691	0.6−	0.3−
1998 09 26	327	0.5−	0.2−	2000 02 29	704	0.0	0.2−	2000 03 11	704	0.1−	0.5+
1998 09 26	327	0.3+	0.7−	2000 02 29	704	1.0−	0.5+	2000 03 11	704	0.4+	0.5−
1998 09 29	327	0.5−	0.6−	2000 03 03	704	0.1+	0.2−	2000 03 11	704	0.9+	0.4−
1998 09 29	327	0.4−	1.3+	2000 03 03	704	0.3+	0.1+	2000 03 11	704	0.2+	0.1−
1998 09 29	327	0.4+	0.1+	2000 03 03	704	0.4+	0.8+	2000 03 11	704	0.1+	0.5−
2000 02 02	704	0.6+	0.8−	2000 03 03	704	0.3+	0.5+	2000 03 11	699	0.3−	0.0
2000 02 02	704	0.2−	0.4+	2000 03 03	704	0.4+	0.3+	2000 03 11	699	0.1+	1.3+
2000 02 02	704	0.9−	0.1−	2000 03 10	691	0.5−	0.4−	2000 03 11	699	0.3−	1.6+
2000 02 29	704	0.1+	0.8−	2000 03 10	691	0.5−	0.4−	2000 03 11	699	0.2+	0.2−

2000 DM₇₆ = 1998 VJ₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	48.93703		(2000.0)	P	Q
<i>n</i>	0.17226429	ω	247.40475	−0.13468657	−0.99073935
<i>a</i>	3.1989383	Ω	210.35133	+0.92115031	−0.11880024
<i>e</i>	0.1929977	<i>i</i>	1.94811	+0.36515974	−0.06574221
<i>P</i>	5.72	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 10 18	699	0.7−	0.0	2000 02 02	704	0.8+	1.0+	2000 03 08	704	0.3+	0.5+
1998 10 18	699	0.3+	0.3−	2000 02 02	704	0.2+	0.5−	2000 03 08	704	0.6+	0.3−
1998 10 18	699	0.2+	0.4−	2000 02 02	704	0.4+	0.4−	2000 03 08	704	0.1−	0.3+
1998 11 10	704	0.1−	0.1−	2000 02 16	703	0.1−	0.4−	2000 03 08	704	0.1−	0.7−
1998 11 10	704	1.4+	0.0	2000 02 16	703	0.4−	0.2+	2000 03 11	704	0.3+	0.5−
1998 11 10	704	0.9+	1.2−	2000 02 16	703	1.5−	0.1−	2000 03 11	704	0.1+	0.5−
1998 11 11	704	0.6−	0.5−	2000 02 16	703	0.1−	0.1−	2000 03 11	704	0.2+	0.2−
1998 11 11	704	1.5−	1.0−	2000 02 27	703	0.1+	0.4+	2000 03 11	704	0.5+	0.4−
1998 11 11	704	(0.1+	2.6−)	2000 02 27	703	0.3+	0.1−	2000 03 11	704	0.4−	0.2−
1998 11 18	704	0.9+	0.6+	2000 02 27	703	0.2+	0.0	2000 03 11	699	0.2−	0.1+
1998 11 18	704	0.5−	1.1−	2000 02 27	703	0.3−	0.5+	2000 03 11	699	0.5−	0.5+
1998 11 18	704	0.0	0.4+	2000 02 29	704	0.2−	0.1+	2000 03 11	699	0.8−	0.2+
1998 11 18	704	1.1+	1.7+	2000 02 29	704	0.2+	0.3−	2000 03 11	699	0.2−	0.2+
1998 11 18	704	(4.6−	1.1+)	2000 02 29	704	0.2+	1.6−	2000 03 12	704	0.2−	0.3+
1998 11 24	699	0.2−	0.2+	2000 02 29	704	(2.3−	0.6−)	2000 03 12	704	0.2+	0.0
1998 11 24	699	0.3+	1.2+	2000 03 03	704	0.1+	0.4+	2000 03 12	704	0.1+	0.4+
1998 11 24	699	(0.1−	2.2+)	2000 03 03	704	0.1+	0.3+	2000 03 12	704	0.2+	0.4−
1998 11 27	691	0.5−	0.2+	2000 03 03	704	0.0	0.1−	2000 03 12	704	0.1−	0.0
1998 11 27	691	0.5−	0.3+	2000 03 03	704	0.2+	0.3+				
1998 11 27	691	0.7−	0.1−	2000 03 03	704	0.2+	0.6+				

2000 DS₇₆ = 1993 BH₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	69.21757		(2000.0)	P	Q
<i>n</i>	0.15326462	ω	119.08532	+0.00916179	−0.99911137
<i>a</i>	3.4581310	Ω	330.30405	+0.88615619	+0.02717408
<i>e</i>	0.0774648	<i>i</i>	4.76364	+0.46329610	−0.03221876
<i>P</i>	6.43	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1993 01 21	691	0.1+	0.4+	2000 02 29	704	0.5+	0.9+	2000 03 11	704	0.4+	0.5−
1993 01 21	691	0.5+	0.2+	2000 03 03	704	0.3−	0.5+	2000 03 11	704	0.3−	0.3−
1993 01 21	691	0.2+	0.4+	2000 03 03	704	0.4−	0.5+	2000 03 11	704	0.3+	0.6−
1993 01 31	691	0.3−	0.4+	2000 03 03	704	0.3+	0.1−	2000 03 11	699	0.3+	0.2−
1993 01 31	691	0.4−	0.4−	2000 03 03	704	0.3−	0.3−	2000 03 11	699	0.2−	0.6+
1993 01 31	691	0.0	0.9−	2000 03 03	704	0.5−	0.0	2000 03 11	699	0.2−	0.4+
2000 02 29	704	0.2−	0.3+	2000 03 11	704	0.5+	0.4−	2000 03 11	699	0.0	0.3−
2000 02 29	704	0.6−	0.5−	2000 03 11	704	0.7+	0.2+				

2000 DU₇₆ = 1994 LK₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	255.41840		(2000.0)	P	Q
<i>n</i>	0.30506203	ω	50.64636	+0.15342302	+0.98803560
<i>a</i>	2.1854655	Ω	228.18642	−0.91298249	+0.13564758
<i>e</i>	0.0828310	<i>i</i>	1.20836	−0.37805336	+0.07338526
<i>P</i>	3.23	<i>H</i>	15.8	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1994 06 03	809	0.0	0.6−	2000 03 03	704	0.3+	0.2+	2000 03 11	699	0.1+	0.3+
1994 06 03	809	0.5−	1.1+	2000 03 03	704	0.4+	0.4−	2000 03 11	699	0.9−	0.5+
1994 06 03	809	1.1+	0.0	2000 03 03	704	0.2−	0.4−	2000 03 11	699	0.8−	0.2−
1994 06 04	809	0.5−	0.0	2000 03 03	704	0.2+	0.7−	2000 03 12	704	0.5+	0.3+
1994 06 04	809	0.2+	0.4−	2000 03 11	704	0.1+	0.1+	2000 03 12	704	0.3+	0.3−
1994 06 04	809	0.4−	0.2−	2000 03 11	704	0.2+	0.0	2000 03 12	704	0.1+	0.3−
2000 02 29	704	0.7−	0.0	2000 03 11	704	0.1−	0.3−	2000 03 12	704	0.4+	0.5+
2000 02 29	704	0.3+	0.5+	2000 03 11	704	0.7+	1.1−	2000 03 12	704	0.3−	0.1+
2000 02 29	704	0.0	0.1+	2000 03 11	704	0.0	0.1−				
2000 03 03	704	0.3+	0.5+	2000 03 11	699	0.7−	0.6+				

2000 DE₇₇ = 1998 YJ₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	216.66248		(2000.0)	P	Q
<i>n</i>	0.17168549	ω	304.59084	+0.76704465	+0.64157778
<i>a</i>	3.2061240	Ω	15.50121	−0.58297069	+0.69988539
<i>e</i>	0.1895073	<i>i</i>	0.96960	−0.26793222	+0.31390826
<i>P</i>	5.74	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 12 22	691	0.1−	0.5+	2000 02 29	704	0.4−	0.2−	2000 03 04	704	0.0	0.2+
1998 12 22	691	0.1+	0.1−	2000 02 29	704	0.7+	1.1+	2000 03 04	704	1.0+	0.5+
1998 12 22	691	0.1+	0.2+	2000 03 03	704	0.2+	0.1+	2000 03 11	704	0.3+	1.1+
1998 12 25	691	0.0	0.1−	2000 03 03	704	0.4+	0.3+	2000 03 11	704	0.4+	0.2−
1998 12 25	691	0.1−	0.2−	2000 03 03	704	0.1−	0.1+	2000 03 11	704	0.2+	0.0
1998 12 25	691	0.0	0.3−	2000 03 03	704	0.2+	0.4−	2000 03 11	704	1.2+	0.5−
2000 02 25	691	0.1+	0.3−	2000 03 03	704	0.1+	0.4−	2000 03 11	699	0.2−	0.2+
2000 02 25	691	0.0	0.3−	2000 03 04	704	0.1−	0.4+	2000 03 11	699	0.1−	0.4−
2000 02 25	691	0.2−	0.3−	2000 03 04	704	0.5−	0.3+	2000 03 11	699	1.1−	0.1−
2000 02 29	704	1.2−	0.5−	2000 03 04	704	0.1+	0.5−	2000 03 11	699	0.8−	0.3−

2000 MAR. 20

M.P.C. 39469

2000 DE₇₈ = 1976 SA₄ = 1993 FL₄₉ = 1997 GS₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	184.13615		(2000.0)		P		Q				
<i>n</i>	0.27265980	ω	158.22692		+0.96779282		+0.25144817				
<i>a</i>	2.3553492	Ω	187.24283		-0.24295728		+0.92010533				
<i>e</i>	0.2753266	<i>i</i>	5.59106		-0.06594557		+0.30029986				
<i>P</i>	3.61	<i>H</i>	14.3	<i>G</i>	0.15		<i>U</i>	2			
Residuals in seconds of arc											
1976 09 24	095	0.4-	0.4+	1997 04 08	809	0.4-	0.5+	2000 02 29	704	0.9+	0.7-
1976 09 29	095	0.0	0.7+	1997 04 08	809	0.1-	0.4+	2000 03 03	704	0.3+	0.2+
1993 03 19	809	0.2+	0.3+	1997 04 08	704	0.0	1.0+	2000 03 03	704	0.2-	0.3-
1993 03 20	809	0.4+	0.2-	1997 04 08	704	0.4+	0.4+	2000 03 03	704	0.2+	0.1-
1993 03 24	809	0.3+	0.7-	1998 12 15	704	0.1-	0.6-	2000 03 03	704	0.1+	0.4-
1997 04 02	704	(2.5+	0.6-)	1998 12 15	704	0.8-	0.2-	2000 03 03	704	0.2-	0.5-
1997 04 02	704	1.8+	0.4+	1998 12 15	704	1.1+	1.3+	2000 03 11	704	0.4-	0.2+
1997 04 07	809	(2.9-	1.1-)	1998 12 15	704	1.2-	1.0+	2000 03 11	704	0.4-	0.5+
1997 04 07	809	(3.0-	1.0-)	1998 12 15	704	1.1+	0.5+	2000 03 11	704	0.5-	0.2+
1997 04 07	809	(2.7-	0.9-)	2000 02 29	704	0.2-	0.2-	2000 03 11	704	0.9-	0.1-
1997 04 08	809	0.9-	1.3+	2000 02 29	704	0.6+	0.6+	2000 03 11	704	0.7-	0.1-

2000 DL₇₈ = 1998 TQ₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	339.77761		(2000.0)		P		Q				
<i>n</i>	0.27392775	ω	317.63053		-0.96670599		+0.25509181				
<i>a</i>	2.3480753	Ω	237.15912		-0.22786119		-0.89404204				
<i>e</i>	0.1626720	<i>i</i>	1.37710		-0.11644232		-0.36826212				
<i>P</i>	3.60	<i>H</i>	14.9	<i>G</i>	0.15		<i>U</i>	4			
Residuals in seconds of arc											
1998 10 13	691	0.9+	0.3+	2000 02 07	704	0.1+	0.1-	2000 03 08	704	1.2+	0.2-
1998 10 13	691	0.5+	0.5+	2000 02 07	704	1.9-	0.3+	2000 03 08	704	1.0+	0.9+
1998 10 13	691	0.9+	0.4+	2000 02 27	012	0.1-	1.2-	2000 03 08	704	0.0	0.9+
1998 10 19	691	0.9-	0.1+	2000 02 27	012	0.8+	1.8-	2000 03 08	704	0.1+	0.5+
1998 10 19	691	1.1-	0.2+	2000 02 29	704	1.8-	1.1-	2000 03 08	704	0.2+	1.2+
1998 10 19	691	0.9-	0.3+	2000 02 29	704	0.4-	0.1-	2000 03 11	704	0.3+	0.2+
2000 01 08	704	0.6+	0.6+	2000 02 29	704	0.2-	0.1+	2000 03 11	704	0.1+	0.2+
2000 01 08	704	0.0	0.6+	2000 02 29	704	0.3+	0.4+	2000 03 11	704	0.1-	0.4+
2000 01 08	704	0.6-	1.2-	2000 03 03	704	0.1+	0.0	2000 03 11	704	0.3+	0.5+
2000 01 08	704	0.2-	1.0-	2000 03 03	704	0.1+	0.3+	2000 03 11	704	0.2+	0.6+
2000 02 07	704	0.1-	1.1-	2000 03 03	704	0.3+	0.4+	2000 03 14	608	0.0	0.1+
2000 02 07	704	0.5-	0.4-	2000 03 03	704	0.2+	0.3+	2000 03 14	608	0.1-	0.2+
2000 02 07	704	0.1-	1.1-	2000 03 03	704	0.5+	0.4+	2000 03 14	608	0.3-	0.2+

2000 DN₇₈ = 1998 SS₁₀₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	62.31130		(2000.0)		P		Q				
<i>n</i>	0.20921734	ω	106.66184		+0.15137145		-0.98727524				
<i>a</i>	2.8102024	Ω	334.47822		+0.85834864		+0.15573167				
<i>e</i>	0.2299841	<i>i</i>	6.49365		+0.49022882		+0.03217521				
<i>P</i>	4.71	<i>H</i>	14.8	<i>G</i>	0.15		<i>U</i>	4			
Residuals in seconds of arc											
1998 09 26	704	0.6+	0.8-	1998 10 18	699	1.3+	0.3+	2000 03 03	704	0.8-	0.7+
1998 09 26	704	1.4+	0.7+	1998 10 18	699	0.9-	0.5-	2000 03 06	012	1.1-	0.0
1998 09 26	704	(0.5+	2.2-)	2000 02 29	704	0.2+	0.2-	2000 03 06	012	0.4+	0.9-
1998 09 27	704	0.9-	0.7-	2000 02 29	704	0.5-	1.3-	2000 03 11	704	0.0	0.1+
1998 09 27	704	0.4+	1.0+	2000 02 29	704	0.2+	0.8-	2000 03 11	704	0.4+	0.0
1998 09 27	704	0.7-	0.2+	2000 03 03	704	0.0	1.2+	2000 03 11	704	0.1+	0.2+
1998 09 27	704	0.8-	0.3+	2000 03 03	704	0.3-	0.5+	2000 03 11	704	0.5+	0.2-
1998 09 27	704	(0.6-	2.3+)	2000 03 03	704	0.4+	0.3+	2000 03 11	704	0.0	0.1-
1998 10 18	699	0.5-	0.5-	2000 03 03	704	0.5+	0.4+				

2000 DS₇₈ = 1998 XB₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	80.90651		(2000.0)		P		Q				
n	0.17710205	ω	278.33584		+0.18694953		-0.98221684				
a	3.1404146	Ω	160.86293		+0.92082175		+0.16906737				
e	0.0653654	i	3.02828		+0.34225309		+0.08164739				
P	5.57	H	13.8	G	0.15		U	5			
Residuals in seconds of arc											
1998 12 15	704	0.5+	1.2-	2000 02 26	703	0.4-	0.7-	2000 03 11	704	0.0	0.3-
1998 12 15	704	0.6-	1.2+	2000 02 29	704	0.2+	1.2+	2000 03 11	699	0.3+	0.6+
1998 12 15	704	(2.5-	0.6-)	2000 02 29	704	0.7-	0.9+	2000 03 11	704	0.8+	1.1-
1998 12 15	704	0.2+	0.0	2000 02 29	704	0.5-	1.1+	2000 03 11	699	0.1+	0.5-
1998 12 15	704	1.4+	0.5+	2000 02 29	704	(1.7-	3.0+)	2000 03 11	699	0.3-	0.3+
1998 12 22	704	0.5-	1.1-	2000 03 03	704	0.5+	0.0	2000 03 12	691	0.1-	0.1-
1998 12 22	704	1.2-	0.6-	2000 03 03	704	0.4+	0.0	2000 03 12	691	0.1-	0.1-
1998 12 22	704	0.1+	0.3+	2000 03 03	704	0.2+	0.2-	2000 03 12	691	0.1-	0.1-
1998 12 22	704	1.3+	0.2+	2000 03 03	704	0.0	0.2+	2000 03 14	691	0.3+	0.1+
1998 12 22	704	1.2-	0.7+	2000 03 03	704	0.1-	0.0	2000 03 14	691	0.2-	0.2+
2000 02 26	703	1.1+	0.9-	2000 03 11	704	0.5-	0.1-	2000 03 14	691	0.2+	0.2+
2000 02 26	703	1.0-	0.6-	2000 03 11	699	0.3+	0.6+				
2000 02 26	703	0.2-	0.2-	2000 03 11	704	0.1+	0.1-				

2000 DU₇₈ = 1994 RZ₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	295.04331		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$				
n	0.28209319	ω	240.71842		-0.47206632		+0.88156170				
a	2.3025425	Ω	1.11651		-0.77896287		-0.41630767				
e	0.0926531	i	4.52712		-0.41275930		-0.22256886				
P	3.49	H	15.0	G	0.15	U	4				
Residuals in seconds of arc											
1994 09 05	809	0.9-	0.8+	2000 02 26	703	0.2-	0.2-	2000 03 11	699	0.3-	0.4+
1994 09 05	809	0.3+	1.1+	2000 02 26	703	0.1-	0.9-	2000 03 11	704	1.2+	1.2+
1994 09 05	809	0.2-	1.2+	2000 02 26	703	0.2-	0.4-	2000 03 11	699	0.3-	0.6+
1994 09 06	809	0.4+	0.2-	2000 02 29	704	0.4+	0.1-	2000 03 11	704	(3.2+	1.2+)
1994 09 06	809	0.6-	0.1+	2000 02 29	704	0.4-	0.2-	2000 03 11	699	0.3-	0.6+
1994 09 06	809	0.5-	0.1-	2000 02 29	704	(0.3-	2.2+)	2000 03 12	704	0.3-	0.0
1998 11 10	704	0.2-	0.4+	2000 03 03	704	0.2-	0.1+	2000 03 12	704	0.1+	0.1+
1998 11 10	704	0.1+	0.3+	2000 03 03	704	0.1-	0.1+	2000 03 12	704	0.0	0.1+
1998 11 10	704	0.1+	0.0	2000 03 03	704	0.1-	0.4+	2000 03 12	704	0.2+	0.0
1998 11 10	704	0.3-	0.1+	2000 03 03	704	0.3-	0.3+	2000 03 12	704	0.6+	0.3-
2000 02 11	704	0.7-	0.2+	2000 03 03	704	0.2-	0.1+	2000 03 13	704	0.2-	0.7-
2000 02 11	704	0.2+	0.7+	2000 03 11	704	0.7+	0.4+	2000 03 13	704	0.6+	0.7+
2000 02 11	704	0.2-	0.7-	2000 03 11	699	0.1-	0.0	2000 03 13	704	0.1+	0.4+
2000 02 11	704	0.5+	1.0-	2000 03 11	704	0.7+	0.5+				
2000 02 26	703	0.5-	0.1+	2000 03 11	704	0.9+	0.6+				

2000 DX₇₈ = 1998 XO₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	212.28339		(2000.0)		P		Q				
<i>n</i>	0.26130624	ω	89.60977		+0.84890061		+0.52805326				
<i>a</i>	2.4230899	Ω	238.51607		-0.49502033		+0.77906311				
<i>e</i>	0.1934319	<i>i</i>	1.54329		-0.18526368		+0.33796512				
<i>P</i>	3.77	<i>H</i>	14.5	<i>G</i>	0.15		<i>U</i>	5			
Residuals in seconds of arc											
1998 12 15	704	0.8+	0.5-	1998 12 22	704	0.3-	0.6+	2000 03 03	704	0.1-	0.4-
1998 12 15	704	1.2-	0.3+	2000 02 29	704	0.7+	0.1+	2000 03 11	704	0.2-	0.2-
1998 12 15	704	0.4-	1.2+	2000 02 29	704	0.4-	0.4+	2000 03 11	704	0.1-	0.4-
1998 12 15	704	(0.3+	2.5-)	2000 02 29	704	0.0	0.1-	2000 03 11	704	0.3+	0.2-
1998 12 15	704	0.9+	1.6-	2000 03 03	704	0.1+	0.2-	2000 03 11	704	0.1-	0.1-
1998 12 22	704	0.6+	0.1+	2000 03 03	704	0.3+	0.3+	2000 03 11	704	0.0	0.6+
1998 12 22	704	0.1+	1.3+	2000 03 03	704	0.4-	0.1+				
1998 12 22	704	0.5-	1.5-	2000 03 03	704	0.2-	0.0				

2000 DZ₇₈ = 2282 T-2 = 1987 SR₁₈ = 1997 JQ₁₅ = 1998 XG₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	210.74141		(2000.0)		P		Q
<i>n</i>	0.28043539	ω	139.24553	+0.86890896	+0.49461566		
<i>a</i>	2.3116079	Ω	191.15566	-0.47559377	+0.82377970		
<i>e</i>	0.2026353	<i>i</i>	5.56927	-0.13714144	+0.27702409		
<i>P</i>	3.51	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1973 09 20	675	(0.8+ 3.2+)	1997 05 04	809	0.2+ 1.4+	2000 02 27	703	0.0 0.8+
1973 09 24	675	(3.1- 3.1+)	1997 05 04	809	0.7+ 1.5+	2000 02 27	703	0.6- 0.1-
1973 09 24	675	(3.4- 3.5+)	1997 05 04	809	0.3+ 0.8+	2000 02 27	703	0.8- 0.4+
1973 09 25	675	0.4- 0.2-	1997 06 10	599	(1.5- 2.3-)	2000 02 27	703	1.2- 0.3-
1973 09 25	675	0.1+ 0.0	1997 06 10	599	0.8- 1.5-	2000 02 29	704	1.9- 1.0+
1973 09 29	675	0.5- 1.7+	1998 12 15	704	0.7+ 1.2+	2000 02 29	704	1.0- 0.4+
1973 09 29	675	1.1- 2.5+	1998 12 15	704	(0.9+ 2.6+)	2000 02 29	704	0.4+ 0.7-
1973 09 30	675	0.9+ 0.6-	1998 12 15	704	0.6- 1.1+	2000 03 03	704	0.6+ 0.5-
1973 09 30	675	0.2+ 0.7-	1998 12 15	704	(0.9+ 2.5+)	2000 03 03	704	1.0+ 1.2-
1973 10 04	675	(2.7+ 1.5-)	1998 12 22	704	(2.0- 0.6-)	2000 03 03	704	0.1+ 0.2-
1973 10 04	675	(3.3+ 2.5-)	1998 12 22	704	0.2+ 0.4+	2000 03 11	704	0.6+ 0.6-
1973 10 05	675	0.2+ 1.8-	1998 12 22	704	0.1- 0.4-	2000 03 11	704	0.2+ 0.4-
1973 10 05	675	0.9+ 1.9-	1998 12 22	704	0.3- 1.1-	2000 03 11	704	0.2+ 0.0
1987 09 16	095	(1.8- 4.5+)	1998 12 22	704	0.1- 0.9+	2000 03 11	704	0.1+ 0.9-
1997 05 03	809	0.1- 0.2+	2000 02 08	704	1.0+ 0.7+	2000 03 11	704	0.5+ 0.0
1997 05 03	809	0.1+ 1.1-	2000 02 08	704	0.5+ 0.3-			
1997 05 03	809	0.2- 0.5+	2000 02 08	704	0.5- 0.9-			

2000 DC₈₃ = 1998 RR₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	66.66554		(2000.0)		P		Q
<i>n</i>	0.24534826	ω	342.00618	+0.38418446	-0.92092581		
<i>a</i>	2.5270513	Ω	85.35931	+0.85494829	+0.32805730		
<i>e</i>	0.1311970	<i>i</i>	3.77132	+0.34851933	+0.21041402		
<i>P</i>	4.02	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 23	704	0.7- 0.9-	2000 02 03	704	0.0 1.1-	2000 03 04	704	0.2+ 0.2+
1998 08 23	704	1.0- 1.8+	2000 02 03	704	1.2+ 0.6-	2000 03 04	704	0.1- 0.6+
1998 08 23	704	0.2- 0.2-	2000 02 03	704	1.0+ 0.2-	2000 03 04	704	0.4+ 0.4+
1998 08 23	704	0.6- 1.6-	2000 02 03	704	1.1+ 0.3-	2000 03 04	704	0.1- 1.2+
1998 09 14	704	0.8+ 0.1-	2000 02 06	703	0.1+ 0.2-	2000 03 04	704	0.4+ 0.6+
1998 09 14	704	0.1- 0.4+	2000 02 06	703	0.2+ 0.2-	2000 03 04	704	0.0 0.8-
1998 09 14	704	(1.2- 2.2+)	2000 02 06	703	0.1- 0.4-	2000 03 04	704	0.4- 0.5-
1998 09 14	704	0.5- 1.0+	2000 02 06	703	0.8- 0.4-	2000 03 04	704	0.3- 1.1-
1998 09 18	704	0.7+ 0.6-	2000 02 11	704	0.1+ 0.5-	2000 03 04	704	0.2- 1.0-
1998 09 18	704	1.5+ 1.2-	2000 02 11	704	0.3- 0.6+	2000 03 04	704	0.6- 0.5-
1998 09 18	704	0.7- 1.2+	2000 02 11	704	0.2+ 0.3-	2000 03 05	704	0.2- 0.0
1998 09 18	704	0.8+ 0.2+	2000 02 11	704	0.1- 0.5+	2000 03 05	704	0.1- 0.0
2000 01 07	704	0.4- 0.2-	2000 02 11	704	0.4+ 0.3+	2000 03 05	704	0.4- 0.1+
2000 01 07	704	0.2+ 0.6-	2000 02 25	703	0.0 0.1-	2000 03 05	704	0.0 0.4+
2000 01 07	704	0.7+ 0.5+	2000 02 25	703	0.1- 0.9-	2000 03 05	704	0.5- 0.1+
2000 01 07	704	1.2- 0.5-	2000 02 25	703	0.3- 0.2-	2000 03 12	704	0.5- 0.3-
2000 01 07	704	1.0- 0.8+	2000 02 25	703	0.8- 0.0	2000 03 12	704	1.3+ 0.6+
2000 01 29	703	1.0- 1.6+	2000 02 28	704	0.5- 0.4+	2000 03 12	704	0.7- 0.5-
2000 01 29	703	0.5+ 0.1-	2000 02 28	704	0.3+ 0.4+	2000 03 12	704	0.5+ 0.0
2000 01 29	703	0.6+ 1.1+	2000 02 28	704	0.3+ 0.3+	2000 03 12	704	0.6- 0.3+
2000 01 29	703	0.1+ 0.6-	2000 02 28	704	0.2+ 0.6+			
2000 02 03	704	0.8+ 0.2+	2000 02 28	704	0.4+ 0.6+			

2000 DX₈₃ = 1998 WY₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	160.71451		(2000.0)		P		Q
<i>n</i>	0.21666647	ω	246.06257	+0.95954563	+0.25926677		
<i>a</i>	2.7454165	Ω	98.76359	-0.20055461	+0.90307209		
<i>e</i>	0.1228846	<i>i</i>	6.37773	-0.19761080	+0.34240552		
<i>P</i>	4.55	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 11 18	704	0.6- 0.7+	1998 11 21	704	(0.3+ 2.0+)	2000 03 04	704	0.5- 0.1+
1998 11 18	704	0.2- 0.3+	1998 11 24	704	0.2+ 1.8-	2000 03 04	704	0.1+ 0.5-
1998 11 18	704	0.2+ 0.8-	1998 11 24	704	(0.9+ 3.8-)	2000 03 04	704	0.0 0.8+
1998 11 18	704	(4.6- 0.9-)	1998 11 24	704	(0.7+ 2.8-)	2000 03 04	704	0.7+ 0.5-
1998 11 21	704	1.0+ 0.8+	2000 02 28	704	0.5+ 0.3-	2000 03 09	704	0.6- 0.2-
1998 11 21	704	0.4+ 1.1-	2000 02 28	704	0.7+ 1.5+	2000 03 09	704	0.1+ 0.5-
1998 11 21	704	0.5- 1.1+	2000 02 28	704	0.2- 0.8+	2000 03 09	704	0.4- 0.4-
1998 11 21	704	0.6- 0.7+	2000 02 28	704	0.1- 0.1-	2000 03 09	704	0.1- 0.6-

2000 DC₈₅ = 1995 WK₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	124.21377		(2000.0)		P		Q
<i>n</i>	0.29184769	ω	305.95384	+0.98044299	-0.17507846		
<i>a</i>	2.2509467	Ω	64.28300	+0.19678472	+0.87841088		
<i>e</i>	0.1684960	<i>i</i>	5.72568	-0.00270617	+0.44468175		
<i>P</i>	3.38	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 11 21	399	1.1- 0.3+	2000 02 29	704	0.4- 0.3-	2000 03 09	704	0.5- 0.5-
1995 11 21	399	1.0+ 1.4-	2000 02 29	704	0.4- 0.6+	2000 03 09	704	1.5+ 1.0-
1995 11 25	399	0.6- 0.4+	2000 02 29	704	1.0- 0.6-	2000 03 09	704	(3.1+ 1.7-)
1995 11 25	399	0.7+ 0.9+	2000 02 29	704	0.6+ 0.3+	2000 03 12	703	0.2+ 0.3+
2000 02 03	704	0.6- 0.5-	2000 03 04	704	0.4+ 0.4-	2000 03 12	703	0.6- 0.2+
2000 02 03	704	0.2- 0.6-	2000 03 04	704	0.3+ 0.0	2000 03 12	703	0.5+ 0.3+
2000 02 03	704	0.0 0.1-	2000 03 04	704	0.4+ 0.0	2000 03 12	703	0.6- 1.2+
2000 02 03	704	0.6- 0.2+	2000 03 04	704	0.8+ 0.8+			
2000 02 03	704	0.2+ 0.3-	2000 03 04	704	0.1- 0.4+			

2000 DA₈₆ = 9531 P-L = 1998 VX₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	210.53319		(2000.0)		P		Q
<i>n</i>	0.26204541	ω	276.41169	+0.60188722	+0.79644445		
<i>a</i>	2.4185311	Ω	30.83168	-0.68026112	+0.54962968		
<i>e</i>	0.1380079	<i>i</i>	6.54045	-0.41830202	+0.25215760		
<i>P</i>	3.76	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 10 17	675	0.8- 0.0	2000 02 03	704	0.1+ 0.6+	2000 03 04	704	0.4- 0.1+
1960 10 22	675	1.5- 0.9+	2000 02 03	704	0.7+ 0.3+	2000 03 05	704	0.3+ 0.0
1960 10 24	675	1.7+ 0.4-	2000 02 06	703	(10.5- 1.0-)	2000 03 05	704	0.3- 0.1-
1960 10 26	675	0.5+ 0.1-	2000 02 06	703	(2.5- 2.2+)	2000 03 05	704	0.2+ 0.4-
1998 11 10	704	0.6- 1.0-	2000 02 06	703	0.7- 0.1-	2000 03 05	704	0.1+ 0.3-
1998 11 10	699	0.4+ 0.6+	2000 02 06	703	(1.8- 3.4+)	2000 03 05	704	0.4+ 0.2+
1998 11 10	704	1.0+ 0.1-	2000 02 29	704	0.1+ 0.2+	2000 03 06	704	0.1+ 0.4+
1998 11 10	704	1.1- 1.1-	2000 02 29	704	0.4+ 0.4-	2000 03 06	704	0.3+ 0.1+
1998 11 10	704	0.6- 0.4-	2000 02 29	704	0.6+ 0.4-	2000 03 06	704	0.3- 0.7+
1998 11 10	699	1.0+ 0.1+	2000 02 29	704	0.4- 0.4+	2000 03 06	704	0.1+ 0.4-
1998 11 10	699	0.4- 0.7+	2000 03 04	704	0.1- 0.2+	2000 03 06	704	0.1+ 0.3+
1998 11 11	704	(2.1+ 0.7+)	2000 03 04	704	0.1+ 0.2-	2000 03 06	704	0.1- 0.6-
1998 11 11	704	0.5- 0.1-	2000 03 04	704	0.6+ 0.3+	2000 03 12	704	0.1+ 0.2+
1998 11 11	704	0.1- 0.2-	2000 03 04	704	0.2- 0.4+	2000 03 12	704	0.4- 0.1-
1998 11 11	704	1.2+ 1.3+	2000 03 04	704	0.7+ 0.5-	2000 03 12	704	0.8- 0.8-
1998 11 11	704	0.2- 0.0	2000 03 04	704	0.3+ 0.2-	2000 03 12	704	0.0 0.1+
2000 02 03	704	0.3+ 0.4+	2000 03 04	704	0.1- 0.2+	2000 03 12	704	0.4+ 0.3+
2000 02 03	704	0.2- 0.1+	2000 03 04	704	0.4- 0.1+			
2000 02 03	704	0.6- 0.2-	2000 03 04	704	0.5- 0.2-			

2000 MAR. 20

M.P.C. 39471

2000 DD₈₆ = 1994 TQ₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	344.27020		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$		
n	0.25401547	ω	149.68279		−0.98499845		−0.16698810		
a	2.4692360	Ω	20.83842		+0.12328513		−0.85740015		
e	0.0853163	i	7.02531		+0.12074284		−0.48680588		
P	3.88	H	15.3		G	0.15	U	5	
Residuals in seconds of arc									
1994 10 04	691	0.1+	0.1+	2000 02 29	704	1.0−	0.4−	2000 03 09	608 0.4+ 0.7−
1994 10 04	691	0.2+	0.1+	2000 03 04	704	0.0	0.0	2000 03 09	608 0.0 0.8−
1994 10 11	691	0.3+	0.3−	2000 03 04	704	0.3−	0.3−	2000 03 09	608 0.1− 0.9−
1994 10 11	691	0.0	0.2−	2000 03 04	704	0.1+	0.1−	2000 03 11	699 0.2+ 0.9+
1994 10 11	691	0.4−	0.0	2000 03 04	704	0.7−	0.3+	2000 03 11	699 0.4− 1.1−
2000 02 03	704	0.0	0.5+	2000 03 04	704	0.2−	0.6−	2000 03 11	699 0.3− 0.8−
2000 02 03	704	0.4−	1.8+	2000 03 04	704	0.1+	1.2+	2000 03 11	699 0.6− 0.1−
2000 02 03	704	0.2+	0.1−	2000 03 04	704	1.6+	0.4−	2000 03 12	704 0.4− 0.7+
2000 02 03	704	0.9+	1.0−	2000 03 04	704	1.2+	0.2+	2000 03 12	704 1.0+ 0.4+
2000 02 29	704	0.4−	0.1−	2000 03 04	704	1.7+	1.0+	2000 03 12	704 0.6− 0.5+
2000 02 29	704	0.2−	0.1−	2000 03 06	704	0.1+	0.7−	2000 03 12	704 0.5− 1.2+
2000 02 29	704	0.4−	0.7−	2000 03 06	704	0.4−	0.6−	2000 03 12	704 (0.2+ 2.3+)
2000 02 29	704	0.2−	0.5−	2000 03 06	704	0.6−	1.1+		

2000 DV₈₆ = 1980 BD₁ = 1991 RK₂₄ = 1998 VX₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	247.49292		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$				
n	0.29750750	ω	248.74493		+0.21318254		+0.97568040				
a	2.2223072	Ω	33.69242		−0.85885560		+0.21202923				
e	0.1585551	i	5.27495		−0.46574699		+0.05560000				
P	3.31	H	13.4	G	0.15	U	1				
Residuals in seconds of arc											
1980 01 23	095	0.1−	1.1−	1999 01 06	699	0.7−	0.3−	2000 02 29	704	0.1−	0.2−
1991 09 12	675	0.2+	0.4+	1999 11 16	704	1.1+	0.6−	2000 02 29	704	0.0	0.1+
1991 09 12	675	0.5−	0.3−	1999 11 16	704	0.5−	0.0	2000 02 29	704	0.0	0.1+
1991 09 16	675	0.1−	0.4−	1999 11 16	704	0.6−	0.2−	2000 02 29	704	0.1+	0.1+
1991 09 16	675	0.3−	0.1−	1999 11 16	704	0.0	0.0	2000 03 04	704	0.1+	0.2+
1997 04 11	704	0.5+	0.5−	1999 11 16	704	0.8−	0.4+	2000 03 04	704	0.0	0.1−
1997 04 11	704	0.4+	0.2−	1999 12 15	704	0.4−	0.2+	2000 03 04	704	0.0	0.0
1998 08 28	704	0.9−	0.2+	1999 12 15	704	0.8+	0.6−	2000 03 04	704	0.0	0.3−
1998 08 28	704	1.3−	0.1−	1999 12 15	704	0.6−	0.4+	2000 03 04	704	0.2−	0.1−
1998 08 28	704	1.7−	0.2−	1999 12 15	704	0.6−	1.4−	2000 03 05	704	0.3+	0.0
1998 08 28	704	(2.4−	1.3+)	2000 02 03	704	0.2+	0.4−	2000 03 05	704	0.1+	0.0
1998 10 18	699	0.2−	0.2−	2000 02 03	704	0.6−	0.4+	2000 03 05	704	0.3+	0.3+
1998 10 18	699	0.7+	0.4+	2000 02 03	704	0.3+	0.2+	2000 03 05	704	0.0	0.0
1998 10 18	699	0.9+	0.3−	2000 02 03	704	0.3−	0.8+	2000 03 05	704	0.0	0.1+
1998 11 10	704	0.1−	0.4+	2000 02 03	704	0.1+	0.4+	2000 03 11	699	0.1−	0.1−
1998 11 10	704	0.2+	0.1−	2000 02 06	703	0.1−	0.0	2000 03 11	699	0.2−	0.2−
1998 11 10	704	0.4−	0.1+	2000 02 06	703	0.4+	0.5+	2000 03 11	699	0.1−	0.2−
1998 11 10	704	0.7+	0.6+	2000 02 06	703	0.0	0.4+	2000 03 11	699	0.2−	0.0
1998 11 10	704	0.9+	0.0	2000 02 06	703	0.1+	0.3+	2000 03 12	704	0.3+	0.1+
1998 11 11	704	0.2+	0.3+	2000 02 11	704	0.3+	0.1+	2000 03 12	704	0.2+	0.2+
1998 11 11	704	0.8+	0.0	2000 02 11	704	0.2+	0.0	2000 03 12	704	0.4−	0.0
1998 11 11	704	1.4+	0.4+	2000 02 11	704	0.1−	0.1+	2000 03 12	704	0.2−	0.3+
1998 11 11	704	0.8+	0.5+	2000 02 11	704	0.1−	0.1+	2000 03 12	704	0.0	0.1+
1999 01 06	699	1.3−	0.8−	2000 02 11	704	0.0	0.1+				
1999 01 06	699	1.3−	0.6−	2000 02 29	704	0.0	0.1−				

2000 DX₈₆ = 1998 SJ₁₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	350.33360		(2000.0)		P		Q				
n	0.27781468	ω	118.38150		−0.97300612		−0.22046937				
a	2.3261226	Ω	48.96816		+0.16711446		−0.87694055				
e	0.1218884	i	5.18779		+0.15915980		−0.42704629				
P	3.55	H	15.2		G	0.15	U	4			
Residuals in seconds of arc											
1998 09 26	704	0.1+	0.5−	2000 02 03	704	0.4−	0.1+	2000 03 04	704	0.4+	0.1−
1998 09 26	704	1.3+	1.2−	2000 02 06	703	0.2+	0.0	2000 03 04	704	0.6+	0.0
1998 09 26	704	1.1+	0.1−	2000 02 06	703	0.2+	0.6−	2000 03 04	704	0.5+	0.1−
1998 09 26	704	0.4+	1.2+	2000 02 06	703	0.4−	0.7+	2000 03 11	699	0.3−	0.2+
1998 09 27	704	0.2−	0.8+	2000 02 06	703	0.3+	0.9−	2000 03 11	699	0.4−	0.2+
1998 09 27	704	1.9−	1.7+	2000 02 29	704	0.1+	0.2+	2000 03 11	699	0.3−	0.2+
1998 09 27	704	0.1−	1.8−	2000 02 29	704	0.4+	0.1−	2000 03 11	699	0.7−	0.0
1998 09 27	704	0.6−	0.3−	2000 02 29	704	0.2+	0.2+	2000 03 12	704	0.4−	0.4+
2000 02 03	704	0.1+	0.5−	2000 02 29	704	0.2−	0.0	2000 03 12	704	0.6−	0.5−
2000 02 03	704	0.4−	0.3+	2000 02 29	704	0.5−	0.1−	2000 03 12	704	0.1+	0.2−
2000 02 03	704	0.1−	0.5+	2000 03 04	704	0.8+	0.0	2000 03 12	704	0.1−	0.1+
2000 02 03	704	0.1−	0.8+	2000 03 04	704	0.4+	0.0	2000 03 12	704	0.6+	0.8−

2000 DB₈₈ = 1998 UV₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	129.20056		(2000.0)			P		Q			
n	0.24728188	ω	9.77521			+0.91751486		−0.39755216			
a	2.5138606	Ω	13.66550			+0.36169804		+0.82274746			
e	0.0388391	i	2.64379			+0.16535115		+0.40624980			
P	3.99	H	14.6			G	0.15	U	4		
Residuals in seconds of arc											
1998 10 11	699	1.0−	0.2−	2000 02 04	704	0.7+	0.3−	2000 03 04	704	0.7− 0.1−	
1998 10 11	699	0.5+	0.5−	2000 02 04	704	0.6−	0.8+	2000 03 04	704	0.1− 0.7−	
1998 10 11	699	0.4−	0.4+	2000 02 04	704	0.4+	0.2+	2000 03 05	704	0.6− 0.4+	
1998 10 28	704	0.3+	0.0	2000 02 04	704	0.2+	0.3−	2000 03 05	704	0.9− 0.0	
1998 10 28	704	(0.8−	2.6+)	2000 02 04	704	0.2−	0.1−	2000 03 05	704	0.3− 0.8+	
1998 10 28	704	0.8−	1.2+	2000 02 11	704	0.3+	0.9+	2000 03 05	704	0.4+	1.9+
1998 10 28	704	0.7+	0.7+	2000 02 11	704	0.2−	1.2−	2000 03 05	704	0.4− 0.1−	
1998 10 29	704	0.8+	0.1+	2000 02 11	704	(0.5−	2.1−)	2000 03 06	704	0.6+	0.0
1998 10 29	704	1.0+	1.7−	2000 02 25	703	0.0	0.2+	2000 03 06	704	0.4+	0.6+
1998 10 29	704	0.1+	0.5+	2000 02 25	703	0.1−	0.1+	2000 03 06	704	0.7+	1.4−
1998 10 29	704	0.4+	1.1−	2000 02 25	703	0.4−	0.2+	2000 03 11	704	1.8+	0.1+
1998 10 29	704	0.2−	0.4−	2000 02 25	703	0.7+	0.5−	2000 03 11	704	0.8+	1.3−
1998 11 11	704	1.1−	0.1−	2000 02 29	704	0.2−	1.1+	2000 03 11	704	0.5+	0.6−
1998 11 11	704	1.1−	0.2+	2000 02 29	704	0.4+	0.1+	2000 03 11	699	1.2−	0.1+
1998 11 11	704	1.0+	0.4+	2000 02 29	704	1.2+	0.7+	2000 03 11	704	0.5+	0.5−
1998 11 11	704	0.3−	0.5+	2000 02 29	704	0.4+	0.2+	2000 03 11	704	0.1+	0.7−
2000 02 01	703	0.1+	0.8−	2000 02 29	704	0.3+	0.0	2000 03 11	699	1.3−	0.1+
2000 02 01	703	0.6−	0.2+	2000 03 04	704	0.0	0.6+	2000 03 11	699	1.0−	0.1+
2000 02 01	703	0.1+	0.3−	2000 03 04	704	0.2−	0.7−	2000 03 11	699	0.7−	0.1+
2000 02 01	703	0.6−	0.2−	2000 03 04	704	0.4−	0.2+				

2000 DK₈₈ = 1998 ST₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>

M.P.C. 39472

1998 09 23	910	0.3+	0.1+	2000 02 29	704	0.0	0.6+	2000 03 11	704	0.6+	0.2−
1998 09 23	910	0.0	0.0	2000 02 29	704	0.1−	0.4+	2000 03 11	704	0.1+	0.6−
1998 09 23	910	0.0	0.1−	2000 03 04	704	0.3−	0.2−	2000 03 11	699	(2.2+	0.1+)
1998 09 24	910	0.6−	0.1+	2000 03 04	704	0.1+	0.4+	2000 03 11	704	0.0	1.0−
1998 09 24	910	0.2+	0.4+	2000 03 04	704	0.3−	0.1−	2000 03 11	704	0.1+	0.8−
1998 09 24	910	0.6+	0.4−	2000 03 04	704	0.7+	0.7+	2000 03 11	699	0.1−	0.1+
1998 11 11	704	0.6−	0.7+	2000 03 04	704	0.3−	0.4−	2000 03 11	704	0.6−	0.5−
1998 11 11	704	0.2−	1.2+	2000 03 05	704	0.6−	0.7+				
1998 11 11	704	1.7+	1.2−	2000 03 05	704	0.3+	0.4+				

2000 DC₈₉ = 1996 EK₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	138.28869		(2000.0)		P		Q
<i>n</i>	0.23214456	<i>ω</i>	72.71763		+0.99781782		−0.06598133
<i>a</i>	2.6219860	<i>Ω</i>	291.06552		+0.05953209		+0.91517051
<i>e</i>	0.1012607	<i>i</i>	0.15124		+0.02855756		+0.39762972
<i>P</i>	4.25	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 03 11	691	0.2+	0.1+	2000 02 26	691	0.1+	0.3−	2000 03 10	691	0.1−	0.7−
1996 03 11	691	0.0	0.1+	2000 02 26	691	0.0	0.3−	2000 03 10	691	0.4−	0.3−
1996 03 11	691	0.0	0.2+	2000 03 04	691	0.3−	0.3+	2000 03 10	691	0.2−	0.4−
1996 03 18	691	0.1−	0.4+	2000 03 04	691	0.0	0.3+	2000 03 11	691	0.4−	0.0
1996 03 18	691	0.1+	0.1−	2000 03 04	691	0.3−	0.0	2000 03 11	691	0.0	0.3−
2000 02 05	695	0.3+	0.8+	2000 03 09	691	0.4+	0.2−	2000 03 11	691	0.3−	0.0
2000 02 05	695	0.2+	0.9+	2000 03 09	691	0.3+	0.0				
2000 02 26	691	0.1−	0.2+	2000 03 09	691	0.6+	0.4−				

2000 DM₉₂ = 1993 FN₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	337.12513		(2000.0)		P		Q
<i>n</i>	0.28225004	<i>ω</i>	81.91101		−0.89903116		+0.43754981
<i>a</i>	2.3016893	<i>Ω</i>	124.03506		−0.40944924		−0.82614661
<i>e</i>	0.1557934	<i>i</i>	1.18384		−0.15522337		−0.35500977
<i>P</i>	3.49	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 03 17	809	1.0−	1.3+	2000 02 27	703	1.1−	0.7−	2000 03 10	704	0.3+	0.5+
1993 03 18	809	1.6+	1.5+	2000 02 27	691	0.5−	0.1−	2000 03 10	704	0.5+	0.1+
1993 03 23	809	0.6+	1.2+	2000 02 27	703	0.4+	0.0	2000 03 10	704	0.2−	0.5+
1993 03 23	691	0.1+	0.8−	2000 02 27	691	0.7−	0.7−	2000 03 10	704	0.1−	0.1+
1993 03 23	691	0.3−	0.9−	2000 02 27	691	0.5−	0.7−	2000 03 11	704	0.2+	0.1+
1993 03 23	691	0.5−	1.2−	2000 03 03	691	0.7−	0.5−	2000 03 11	704	0.2−	0.6+
1993 04 16	413	0.3−	0.9−	2000 03 03	691	0.7−	0.4−	2000 03 11	704	0.1+	0.1+
2000 02 08	704	0.5−	1.0+	2000 03 03	691	0.3−	0.8−	2000 03 11	704	0.2−	0.0
2000 02 08	704	0.2+	0.0	2000 03 08	704	0.4+	0.1+	2000 03 11	704	0.1−	0.4−
2000 02 08	704	0.1+	0.5−	2000 03 08	704	0.1+	0.3+	2000 03 14	703	0.1+	0.1−
2000 02 08	704	0.9+	0.0	2000 03 08	704	0.1+	0.3−	2000 03 14	703	0.3+	0.6+
2000 02 08	704	0.5+	0.0	2000 03 08	704	0.1+	0.2−	2000 03 14	703	0.8+	0.8+
2000 02 27	703	1.1−	0.2+	2000 03 08	704	0.1+	0.2−	2000 03 14	703	0.6+	0.1+
2000 02 27	703	0.5+	0.4−	2000 03 10	704	0.5+	0.6+				

2000 DP₉₃ = 1998 SP₁₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	344.78935		(2000.0)		P		Q
<i>n</i>	0.27390357	<i>ω</i>	177.10560		−0.96875486		−0.24719470
<i>a</i>	2.3482136	<i>Ω</i>	348.52200		+0.22546455		−0.84375542
<i>e</i>	0.0448355	<i>i</i>	5.83163		+0.10334289		−0.47641534
<i>P</i>	3.60	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.9−	0.7+	2000 02 03	704	0.2+	1.1−	2000 02 28	704	0.2−	0.4+
1998 09 26	704	0.2−	0.1−	2000 02 06	703	0.1−	0.5+	2000 02 28	704	0.7−	0.1+
1998 09 26	704	1.0+	1.0−	2000 02 06	703	0.0	0.9+	2000 03 05	704	0.9+	0.0
1998 09 26	704	0.9−	1.8−	2000 02 06	703	0.2−	0.1−	2000 03 05	704	0.2−	0.2−

2000 MAR. 20

1998 09 26	704	0.2−	0.8−	2000 02 06	703	(2.9−	2.4+)	2000 03 05	704	0.5+	0.2+
1998 09 27	704	0.6+	1.4+	2000 02 11	704	0.1+	0.4−	2000 03 05	704	0.2−	0.1+
1998 09 27	704	0.8−	0.9+	2000 02 11	704	0.6−	0.6+	2000 03 05	704	0.8+	0.0
1998 09 27	704	1.2+	0.6+	2000 02 11	704	0.1−	0.1−	2000 03 09	704	0.1+	0.0
1998 09 27	704	0.1+	0.2+	2000 02 11	704	0.3+	0.5−	2000 03 09	704	0.1−	0.1−
2000 02 03	704	0.7−	0.5+	2000 02 11	704	0.4+	0.4−	2000 03 09	704	0.2−	0.2−
2000 02 03	704	0.4+	0.7+	2000 02 28	704	0.1+	0.2−	2000 03 09	704	0.4−	0.2−
2000 02 03	704	1.3+	0.8−	2000 02 28	704	0.5+	0.0	2000 03 09	704	0.3−	0.1−
2000 02 03	704	0.8−	0.0	2000 02 28	704	0.6−	0.3+				

2000 DG₉₄ = 1998 SB₆₄ = 1998 UJ₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	61.53826		(2000.0)		P		Q
<i>n</i>	0.24151944	<i>ω</i>	352.11893		+0.05490546		−0.99685381
<i>a</i>	2.5536889	<i>Ω</i>	94.72072		+0.91919821		+0.02810337
<i>e</i>	0.0173958	<i>i</i>	3.28829		+0.38994878		+0.07411269
<i>P</i>	4.08	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 20	809	0.6+	0.8+	1998 10 29	704	0.9−	1.0−	2000 03 05	704	0.1+	0.0
1998 09 20	809	0.2−	1.3−	1998 10 29	704	0.7−	0.7−	2000 03 05	704	0.8+	0.1+
1998 09 20	809	0.6+	0.5−	1998 10 29	704	0.2+	0.2−	2000 03 05	704	0.4−	0.1−
1998 09 21	809	(0.3+ 2.3+)		1998 10 29	704	1.0−	0.3+	2000 03 05	704	0.1+	0.1+
1998 09 21	809	0.5−	1.5+	2000 02 25	703	0.3+	0.6−	2000 03 09	704	0.7−	0.2−
1998 09 21	809	0.7−	1.8+	2000 02 25	703	0.5+	0.5−	2000 03 09	704	0.4+	0.3+
1998 09 23	809	0.3+	0.7−	2000 02 25	703	1.1−	0.6+	2000 03 09	704	0.2+	0.1−
1998 09 23	809	0.1−	1.1−	2000 02 25	703	0.2+	0.7+	2000 03 09	704	0.7+	0.8−
1998 09 23	809	0.1+	0.4−	2000 02 28	704	0.2−	0.5−	2000 03 09	704	0.3+	0.4−
1998 10 28	704	1.4+	0.2+	2000 02 28	704	0.2+	0.0	2000 03 11	699	0.7−	0.3+
1998 10 28	704	0.8+	1.2+	2000 02 28	704	0.1−	0.3+	2000 03 11	699	0.3+	0.1+
1998 10 28	704	0.4+	0.9+	2000 02 28	704	0.0	0.4+	2000 03 11	699	0.7−	0.4−
1998 10 28	704	0.2−	0.6+	2000 02 28	704	0.2−	0.5+	2000 03 11	699	0.3−	0.2+
1998 10 29	704	0.2+	1.4−	2000 03 05	704	0.3+	0.1−				

2000 DO₉₄ = 1998 UH₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	21.22130		(2000.0)		P		Q
<i>n</i>	0.23983789	<i>ω</i>	124.71242		−0.60609396		−0.79538341
<i>a</i>	2.5656112	<i>Ω</i>	2.60520		+0.69867496		−0.53474177
<i>e</i>	0.0428803	<i>i</i>	4.94454		+0.38013605		−0.28533572
<i>P</i>	4.11	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 28	704	0.4−	0.5+	2000 02 03	704	0.4+	0.2−	2000 03 05	704	0.9−	0.3−
1998 10 28	704	0.7−	1.3−	2000 02 03	704	0.3−	0.3+	2000 03 09	704	0.3−	0.1+
1998 10 28	704	(2.6+ 1.5−)		2000 02 03	704	0.4+	0.7+	2000 03 09	704	0.0	0.9−
1998 10 28	704	0.2−	0.1+	2000 02 11	704	0.4−	0.4−	2000 03 09	704	0.3−	0.5−
1998 10 29	704	0.2+	0.3+	2000 02 11	704	0.4+	0.3−	2000 03 09	704	0.8−	0.3−
1998 10 29	704	0.8−	0.7−	2000 02 11	704	0.3+	1.3−	2000 03 09	608	1.5+	0.4+
1998 10 29	704	1.5−	0.6+	2000 02 28	704	1.1−	0.2−	2000 03 09	608	1.0+	0.6+
1998 10 29	704	1.7+	1.5+	2000 02 28	704	0.1−	0.2+	2000 03 09	608	1.5+	0.5+
1998 11 12	910	0.5+	0.0	2000 02 28	704	0.3+	0.4+	2000 03 11	699	0.7+	0.1−
1998 11 12	910	0.5+	0.2−	2000 02 28	704	0.7+	0.1+	2000 03 11	699	0.9−	0.5+
1998 11 12	910	0.7+	0.9−	2000 02 28	704	0.1−	0.7+	2000 03 11	699	0.3−	0.5−
2000 02 03	704	0.0	0.1+	2000 03 05	704	0.5−	0.0	2000 03 11	699	0.6−	0.0
2000 02 03	704	0.1−	0.3+	2000 03 05	704	0.3−	0.1+				

2000 DX₉₄ = 1998 SY₈₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	45.11141		(2000.0)		P		Q
n	0.26270531	ω	108.49898		-0.21848485		-0.97574631
a	2.4144793	Ω	354.07141		+0.83854019		-0.18062583
e	0.0403864	i	7.53621		+0.49911393		-0.12366669
P	3.75	H	15.0	G	0.15	U	3

2000 MAR. 20

M.P.C. 39473

Residuals in seconds of arc

1998 09 26	704	(1.5+ 2.3+)	2000 02 03	704	0.2+ 1.1-	2000 02 28	704	0.1- 0.3+
1998 09 26	704	(3.2+ 0.4+)	2000 02 06	703	2.0- 0.6+	2000 03 05	704	0.1- 0.3-
1998 09 26	704	0.8+ 1.3-	2000 02 06	703	0.6- 0.1+	2000 03 05	704	0.4- 0.2+
1998 09 26	704	(2.5+ 1.1+)	2000 02 06	703	0.1+ 0.6+	2000 03 05	704	0.1- 0.5+
1998 09 26	704	0.2- 0.5-	2000 02 06	703	0.1- 0.4-	2000 03 05	704	0.4- 0.2-
1998 09 27	704	0.3- 0.8+	2000 02 11	704	0.8+ 0.1-	2000 03 05	704	0.2+ 0.4-
1998 09 27	704	0.5+ 1.8+	2000 02 11	704	0.9+ 0.5+	2000 03 09	608	0.2+ 0.6-
1998 09 27	704	0.7- 0.6+	2000 02 11	704	0.3- 0.1+	2000 03 09	608	0.1+ 0.7-
1998 09 27	704	0.5- 1.3-	2000 02 11	704	0.4+ 0.2+	2000 03 09	608	0.4+ 0.3-
1998 09 27	704	0.4+ 0.0	2000 02 11	704	0.5+ 0.2+	2000 03 11	699	0.3- 0.5+
2000 02 03	704	0.4- 0.2-	2000 02 28	704	0.0 0.1+	2000 03 11	699	0.4+ 0.5+
2000 02 03	704	0.2+ 0.1-	2000 02 28	704	0.0 0.0	2000 03 11	699	0.2+ 0.1-
2000 02 03	704	0.5+ 0.1-	2000 02 28	704	0.2+ 0.5+	2000 03 11	699	0.2- 0.3-
2000 02 03	704	0.2+ 0.4-	2000 02 28	704	0.4- 0.2+			

2000 DE₉₅ = 1982 UK₈ = 1998 XC₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>Q</i>	
<i>n</i>	0.19024745	<i>ω</i>	353.36056	+0.95579461		+0.29240473	
<i>a</i>	2.9940347	<i>Ω</i>	349.48042	-0.26138365		+0.79678184	
<i>e</i>	0.1035954	<i>i</i>	9.75098	-0.13466719		+0.52880826	
<i>P</i>	5.18	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1982 10 21	095	0.6- 1.1+	2000 02 03	704	0.3+ 0.6+	2000 02 28	704	0.0 0.3-
1998 11 16	704	1.0+ 0.9-	2000 02 03	704	0.2+ 0.4+	2000 02 28	704	0.0 0.6-
1998 11 16	704	0.6+ 1.5-	2000 02 03	704	0.2- 0.6+	2000 03 05	704	0.4- 0.1+
1998 11 16	704	1.4+ 0.5-	2000 02 03	704	0.3+ 0.4+	2000 03 05	704	0.7- 0.3-
1998 11 16	704	(0.3+ 2.7-)	2000 02 03	704	0.1+ 0.0	2000 03 05	704	0.3+ 0.3+
1998 11 16	704	(4.2- 3.3-)	2000 02 06	703	0.5- 0.3+	2000 03 05	704	0.5- 0.2+
1998 12 14	704	0.7- 1.8-	2000 02 06	703	0.1- 0.6-	2000 03 05	704	0.3+ 0.8-
1998 12 14	704	1.0- 0.6+	2000 02 06	703	0.4+ 0.6-	2000 03 11	699	0.3- 0.2+
1998 12 14	704	0.4+ 0.7+	2000 02 06	703	1.1- 0.7-	2000 03 11	699	0.3- 1.0-
1998 12 14	704	0.2- 0.3-	2000 02 11	704	0.5+ 0.1-	2000 03 11	699	0.1- 0.0
1998 12 14	704	(2.6- 1.0-)	2000 02 11	704	0.6+ 0.0	2000 03 11	699	0.3- 0.1+
1998 12 17	704	0.8+ 0.8+	2000 02 11	704	1.0+ 0.5+	2000 03 12	704	0.8- 0.7+
1998 12 17	704	0.4+ 0.8-	2000 02 11	704	0.5+ 0.3+	2000 03 12	704	0.3- 0.1+
1998 12 17	704	0.9- 0.8+	2000 02 11	704	0.3+ 0.1-	2000 03 12	704	0.1+ 0.7+
1998 12 17	704	0.5- 0.3+	2000 02 28	704	0.7+ 0.6-	2000 03 12	704	0.0 0.0
1998 12 17	704	1.4- 1.0+	2000 02 28	704	0.0 0.2+	2000 03 12	704	0.2+ 0.5+

2000 DR₉₅ = 1998 RM₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>Q</i>	
<i>n</i>	0.26682254	<i>ω</i>	136.10441	-0.65974739		-0.75141710	
<i>a</i>	2.3895771	<i>Ω</i>	355.14308	+0.65164266		-0.56522330	
<i>e</i>	0.1507776	<i>i</i>	6.97510	+0.37429297		-0.34043348	
<i>P</i>	3.69	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 13	691	0.4- 0.2-	2000 02 11	704	0.7+ 0.5+	2000 03 05	704	0.1+ 0.3-
1998 09 13	691	0.4- 0.0	2000 02 11	704	0.6+ 0.0	2000 03 05	704	0.3- 0.3-
1998 09 13	691	0.1+ 0.0	2000 02 11	704	1.4- 1.6+	2000 03 11	699	0.4+ 0.5+
1998 09 19	691	0.4- 0.1+	2000 02 25	703	0.3- 0.3+	2000 03 11	699	0.6- 0.7+
1998 09 19	691	0.8+ 0.2+	2000 02 25	703	0.5- 0.1+	2000 03 11	699	0.3- 0.2-
1998 09 19	691	0.5+ 0.2-	2000 02 25	703	0.2+ 0.1+	2000 03 11	699	0.6- 0.3+
2000 02 03	704	0.2+ 0.7-	2000 02 25	703	0.2+ 0.0	2000 03 12	704	0.1+ 0.6+
2000 02 03	704	(2.6+ 0.8+)	2000 02 28	704	0.4+ 0.3-	2000 03 12	704	0.3+ 0.5-
2000 02 03	704	0.6+ 0.8-	2000 02 28	704	0.1+ 0.5-	2000 03 12	704	0.5- 0.1-
2000 02 03	704	0.8+ 0.0	2000 02 28	704	0.2+ 0.1+	2000 03 12	704	0.6+ 0.8-
2000 02 06	703	0.2+ 0.5+	2000 02 28	704	0.0 0.8-	2000 03 12	704	0.0 0.2+
2000 02 06	703	0.0 0.4-	2000 03 05	704	0.3- 0.2-	2000 03 12	704	0.1+ 0.4+
2000 02 06	703	1.2- 0.3+	2000 03 05	704	0.1+ 0.3+	2000 03 12	704	0.4+ 0.4-
2000 02 06	703	(2.4+ 0.9-)	2000 03 05	704	0.6- 0.1-	2000 03 12	704	0.6+ 0.1-

2000 DH₉₆ = 1993 RM₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>Q</i>	
<i>n</i>	0.22446139	<i>ω</i>	328.56662	+0.42742996		+0.90359339	
<i>a</i>	2.6814824	<i>Ω</i>	326.71317	-0.81823055		+0.37316960	
<i>e</i>	0.1271933	<i>i</i>	2.99557	-0.38445076		+0.21038875	
<i>P</i>	4.39	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 14	809	0.6+ 0.4+	2000 02 11	704	0.6+ 0.0	2000 03 09	704	0.0 0.6-
1993 09 14	809	0.6- 0.1-	2000 02 11	704	0.5+ 0.3+	2000 03 09	608	0.0 1.3-
1993 09 14	809	0.9- 1.4-	2000 02 29	704	0.8- 0.9+	2000 03 09	608	0.6- 0.2-
1993 09 19	809	1.4+ 1.0+	2000 02 29	704	0.5- 0.5+	2000 03 09	608	0.2- 0.3-
1993 09 19	809	0.5- 0.3+	2000 02 29	704	0.4- 0.0	2000 03 11	691	0.2- 0.4-
1993 09 19	809	0.0 0.2-	2000 02 29	704	0.1- 0.6+	2000 03 11	691	0.1- 0.4-
2000 02 03	704	0.4- 1.0+	2000 02 29	704	0.7- 0.1+	2000 03 11	691	0.1- 0.4-
2000 02 03	704	0.2- 0.5-	2000 03 05	704	1.0- 1.2+	2000 03 11	704	0.5+ 0.1-
2000 02 03	704	0.0 0.4-	2000 03 05	704	0.2+ 1.0+	2000 03 11	704	0.1- 0.4+
2000 02 03	704	0.6- 0.1-	2000 03 05	704	0.8+ 0.5+	2000 03 11	704	0.2+ 0.2+
2000 02 03	704	0.1- 0.3+	2000 03 09	704	1.1+ 0.5-	2000 03 11	704	0.4+ 0.0
2000 02 11	704	0.7+ 1.3-	2000 03 09	704	0.2+ 0.2-	2000 03 11	704	0.4+ 0.4+
2000 02 11	704	0.5+ 0.6-	2000 03 09	704	0.1+ 0.0			
2000 02 11	704	0.3+ 0.4-	2000 03 09	704	0.1+ 0.2+			

2000 DW₉₇ = 1997 PG = 1998 XO₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>Q</i>	
<i>n</i>	0.18483835	<i>ω</i>	4.16353	+0.96813451		-0.24874310	
<i>a</i>	3.0521649	<i>Ω</i>	10.37852	+0.22486198		+0.81241198	
<i>e</i>	0.1451803	<i>i</i>	9.27156	+0.11023908		+0.52736481	
<i>P</i>	5.33	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 09 06	033	0.4- 0.6+	1998 11 16	704	0.0 0.2+	2000 02 11	704	0.7+ 0.2+
1992 09 07	033	0.4- 0.5+	1998 11 16	704	1.0- 0.1+	2000 02 11	704	0.4+ 0.5+
1997 08 01	566	0.0 1.2+	1998 11 16	704	0.5+ 0.2+	2000 02 11	704	0.5+ 0.2-
1997 08 01	566	0.0 1.2+	1998 11 16	704	0.1+ 1.2+	2000 02 29	704	0.2+ 0.9+
1997 08 01	566	0.3- 0.5+	1998 12 14	704	0.3- 0.2+	2000 02 29	704	0.1+ 0.6+
1997 08 02	566	0.9- 1.2+	1998 12 14	704	0.9- 0.1+	2000 02 29	704	0.0 0.3+
1997 08 02	566	0.7- 1.6+	1998 12 14	704	0.1+ 0.4-	2000 02 29	704	0.2+ 0.1+
1997 08 02	566	0.6- 0.7+	1998 12 14	704	0.3- 0.3-	2000 02 29	704	0.1- 0.6+
1998 08 31	704	1.2- 1.8-	1998 12 14	704	0.7- 1.7-	2000 03 05	704	0.4+ 0.2-
1998 08 31	704	0.3- 1.7-	1998 12 17	704	0.7- 0.8+	2000 03 05	704	0.1+ 0.3-
1998 08 31	704	1.7- 0.8-	1998 12 17	704	0.3- 0.3-	2000 03 05	704	0.4- 0.1-
1998 08 31	704	1.3- 0.0	1998 12 17	704	1.1+ 0.3+	2000 03 05	704	0.2- 0.0
1998 08 31	704	0.4- 1.1+	1998 12 17	704	1.1+ 0.3+	2000 03 05	704	0.3- 0.2+
1998 11 14	704	0.4- 1.8+	2000 02 03	704	0.7+ 0.5+	2000 03 11	699	0.3- 0.2-
1998 11 14	704	0.9+ 0.1-	2000 02 03	704	0.2+ 0.2+	2000 03 11	699	0.1+ 0.2-
1998 11 14	704	(1.1- 2.5-)	2000 02 03	704	0.4- 0.3+	2000 03 11	699	0.1- 0.3+
1998 11 14	704	1.5+ 0.2-	2000 02 03	704	0.1+ 0.2-	2000 03 11	699	0.5- 0.2+
1998 11 14	704	(3.6- 0.4-)	2000 02 03	704	0.2+ 0.2-	2000 03 12	704	0.2+ 0.7+
1998 11 16	704	0.1+ 0.9+	2000 02 06	703	0.5- 0.0	2000 03 12	704	0.6+ 0.3+
1998 11 16	704	0.3- 1.2+	2000 02 06	703	0.1- 0.3+	2000 03 12	704	0.7+ 0.5+
1998 11 16	704	1.0+ 0.9+	2000 02 06	703	0.2+ 0.1-	2000 03 12	704	0.1+ 0.6+
1998 11 16	704	0.4+ 0.5-	2000 02 06	703	0.0 0.7+	2000 03 12	704	0.3+ 0.7+
1998 11 16	704	1.3+ 0.0	2000 02 11	704	0.2+ 0.0			
1998 11 16	704	0.4+ 0.6-	2000 02 11	704	0.1- 0.5+			

2000 DF₉₈ = 1998 UN

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	39.21328		(2000.0)	P		Q	
<i>n</i>	0.24312303	ω	106.23151	−0.38049803	−0.92464635		
<i>a</i>	2.5424475	Ω	6.20235	+0.78266768	−0.33109279		
<i>e</i>	0.0402308	<i>i</i>	8.42184	+0.49259776	−0.18816669		
<i>P</i>	4.05	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 16	832	0.5+	0.1−	2000 02 11	704	0.6+	0.4+	2000 03 05	704	0.4+	1.0+
1998 10 16	832	0.4+	0.9−	2000 02 25	703	0.6−	1.1−	2000 03 05	704	0.5+	0.4+
1998 10 17	832	0.6+	0.9−	2000 02 25	703	0.1+	0.0	2000 03 05	704	0.7−	0.2+
1998 10 17	832	0.4+	0.4−	2000 02 25	703	0.4−	0.4+	2000 03 05	704	0.4−	0.1+
1998 11 11	704	0.2−	0.3−	2000 02 25	703	0.6−	0.3−	2000 03 09	704	0.0	0.4+
1998 11 11	704	1.3−	0.7+	2000 02 29	704	1.0−	0.3−	2000 03 09	704	0.2−	0.1−
1998 11 11	704	0.5−	1.6+	2000 02 29	704	0.0	1.2−	2000 03 09	704	0.5+	0.1−
1998 11 11	704	(6.3−	0.3+)	2000 02 29	704	0.4+	0.0	2000 03 09	704	0.6+	0.3−
2000 02 03	704	0.4−	1.0+	2000 02 29	704	0.3+	0.0	2000 03 09	704	0.4+	0.3+
2000 02 03	704	0.1−	0.1−	2000 02 29	704	0.3+	0.1+	2000 03 11	699	1.2−	0.4−
2000 02 03	704	0.2+	1.2+	2000 02 29	704	0.5+	0.1−	2000 03 11	699	0.1+	1.6+
2000 02 03	704	1.0+	0.5+	2000 02 29	704	0.1−	0.1−	2000 03 11	699	0.9−	1.0+
2000 02 06	703	0.3−	0.9−	2000 02 29	704	0.0	0.3−	2000 03 11	699	0.4−	0.2+
2000 02 06	703	(0.6−	2.4+)	2000 03 05	704	0.9+	0.2+	2000 03 12	704	0.3−	0.9−
2000 02 06	703	0.5−	0.5+	2000 03 05	704	1.1+	1.3−	2000 03 12	704	0.7−	0.8−
2000 02 06	703	1.2−	0.6−	2000 03 05	704	1.4+	0.3−	2000 03 12	704	0.3+	0.4+
2000 02 11	704	0.1−	0.3−	2000 03 05	704	0.1−	0.1−	2000 03 12	704	0.7−	1.1−
2000 02 11	704	0.2+	0.2+	2000 03 05	704	0.9+	0.4−	2000 03 12	704	0.1−	0.7−
2000 02 11	704	0.2+	0.7+	2000 03 05	704	0.2−	0.6+				

2000 DP₉₈ = 1998 WP₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	195.15892		(2000.0)	P		Q	
<i>n</i>	0.21967394	ω	249.58135	+0.77340536	+0.62580196		
<i>a</i>	2.7203014	Ω	71.53904	−0.53461738	+0.72959382		
<i>e</i>	0.0351419	<i>i</i>	6.11694	−0.34062942	+0.27579841		
<i>P</i>	4.49	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 18	704	1.1+	0.1+	2000 02 29	704	0.1+	0.0	2000 03 09	704	0.4+	0.0
1998 11 18	704	0.6−	0.2+	2000 02 29	704	0.3+	0.2−	2000 03 09	704	0.1+	0.3+
1998 11 18	704	0.3−	0.4−	2000 02 29	704	1.0+	0.5+	2000 03 09	704	0.4−	0.7+
1998 11 18	704	(0.2+	2.4−)	2000 02 29	704	0.1+	0.3+	2000 03 11	699	1.4+	0.2−
1998 11 21	704	0.1−	0.1−	2000 02 29	704	0.4−	0.6+	2000 03 11	699	0.2−	0.2−
1998 11 21	704	(0.1+	2.0+)	2000 03 05	704	0.7−	0.4−	2000 03 11	699	1.1−	0.0
1998 11 21	704	1.0+	0.7+	2000 03 05	704	0.2+	0.3+	2000 03 11	699	0.2−	0.1−
1998 11 21	704	1.1−	0.5+	2000 03 05	704	1.0−	0.4+	2000 03 12	704	0.7+	0.4−
1998 11 24	704	0.0	0.4+	2000 03 05	704	0.1−	0.3−	2000 03 12	704	0.7+	0.2+
1998 11 24	704	0.5−	0.9−	2000 03 05	704	0.2+	0.0	2000 03 12	704	0.1+	0.6−
1998 11 24	704	0.4+	0.1−	2000 03 09	704	0.5+	0.3−	2000 03 12	704	0.3−	0.4−
1998 11 24	704	0.0	0.4−	2000 03 09	704	0.3−	0.0	2000 03 12	704	1.1−	0.1−

2000 DG₉₉ = 1984 BP₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	226.01450		(2000.0)	P		Q	
<i>n</i>	0.25205437	ω	159.80773	+0.56201554	+0.82610063		
<i>a</i>	2.4820273	Ω	144.35274	−0.76824687	+0.53981137		
<i>e</i>	0.2046166	<i>i</i>	4.05247	−0.30648862	+0.16174499		
<i>P</i>	3.91	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1984 01 25	675	0.2−	0.5−	2000 02 25	703	0.5+	0.2+	2000 03 05	704	0.0	0.3−
1984 01 26	675	0.1+	0.2+	2000 02 25	703	0.4+	1.3+	2000 03 05	704	0.5−	0.3+
1998 12 16	704	1.5−	0.2+	2000 02 29	704	0.6−	0.2−	2000 03 05	704	0.3+	0.5−
1998 12 16	704	0.2−	1.0−	2000 02 29	704	0.3−	0.9−	2000 03 11	704	0.5+	0.2−
1998 12 16	704	0.7+	0.7+	2000 02 29	704	0.2−	0.1−	2000 03 11	704	0.5+	0.1−

1998 12 16	704	0.9+	0.3+	2000 02 29	704	0.3−	0.1+	2000 03 11	704	0.2+	0.1−
2000 02 11	704	1.1−	0.7+	2000 02 29	704	0.7−	0.5−	2000 03 11	699	0.1−	0.6−
2000 02 11	704	0.7+	0.4+	2000 03 03	704	0.4+	0.2+	2000 03 11	704	0.8+	0.2+
2000 02 11	704	0.4−	0.0	2000 03 03	704	0.5+	0.2+	2000 03 11	704	0.6+	0.6+
2000 02 11	704	0.8−	0.3−	2000 03 03	704	0.9+	0.5−	2000 03 11	699	0.1−	0.4+
2000 02 11	704	0.6−	1.8−	2000 03 03	704	(0.8−	2.8+)	2000 03 11	699	0.0	0.3+
2000 02 25	703	0.4+	0.4+	2000 03 05	704	0.6−	0.6+	2000 03 11	699	0.1−	0.2+
2000 02 25	703	0.1+	0.3−	2000 03 05	704	0.5−	0.5+				

2000 DN₉₉ = 1997 JF₁₈ = 1997 LD₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	121.26730		(2000.0)	P		Q	
<i>n</i>	0.25334779	ω	280.64513	+0.91505957	−0.38747139		
<i>a</i>	2.4735725	Ω	102.22599	+0.40011026	+0.83717049		
<i>e</i>	0.1305701	<i>i</i>	6.57732	+0.05077170	+0.38602006		
<i>P</i>	3.89	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 05 03	809	0.6−	1.5+	1998 12 08	704	1.2+	0.1+	2000 03 05	704	0.3+	0.0
1997 05 03	809	0.2−	0.4+	1998 12 08	704	(0.2−	3.6+)	2000 03 08	704	0.9−	0.1+
1997 05 03	809	0.2−	0.1+	1998 12 08	704	(5.6−	2.9+)	2000 03 08	704	0.0	0.3+
1997 05 04	809	0.6+	0.3−	2000 02 03	704	0.6+	0.8+	2000 03 08	704	0.5+	0.2+
1997 05 04	809	0.7+	0.3−	2000 02 03	704	0.1−	0.0	2000 03 08	704	0.3+	0.2+
1997 05 04	809	0.7+	0.8−	2000 02 03	704	0.4−	0.0	2000 03 08	704	0.0	0.7−
1997 06 08	809	0.3−	0.9+	2000 02 03	704	1.0−	0.7+	2000 03 09	704	0.2−	0.2−
1997 06 08	809	0.5−	0.9+	2000 02 03	704	0.2−	0.6−	2000 03 09	704	0.1+	0.2−
1997 06 08	809	0.5−	0.3+	2000 02 11	704	1.6−	1.5+	2000 03 09	704	0.3+	0.3−
1997 06 09	809	0.6+	0.9+	2000 02 11	704	1.0+	1.0+	2000 03 09	704	0.7+	0.5+
1997 06 09	809	0.6+	0.7+	2000 02 11	704	1.8+	0.5+	2000 03 09	704	0.2+	0.8+
1997 06 09	809	0.6+	0.3+	2000 02 29	704	0.1+	0.7−	2000 03 11	699	0.9−	0.3+
1998 10 18	699	1.9−	0.1−	2000 02 29	704	0.4+	0.2−	2000 03 11	699	0.0	0.3−
1998 10 18	699	0.8−	0.1−	2000 02 29	704	0.2+	0.8−	2000 03 11	699	0.5−	0.3−
1998 10 18	699	0.7−	0.1+	2000 02 29	704	0.1+	0.2−	2000 03 11	699	0.2−	0.2−
1998 11 15	699	0.3−	1.0+	2000 02 29	704	0.5+	0.3−	2000 03 12	704	0.1+	0.1+
1998 11 15	699	0.3+	1.9+	2000 03 05	704	0.3+	0.1+	2000 03 12	704	0.2+	0.0
1998 11 15	699	0.7−	1.4+	2000 03 05	704	0.2−	0.0	2000 03 12	704	0.2−	0.7+
1998 12 08	704	0.9+	0.7+	2000 03 05	704	0.5−	0.4−	2000 03 12	704	0.0	0.6+
1998 12 08	704	1.0+	0.9+	2000 03 05	704	0.2+	0.1−	2000 03 12	704	0.0	0.5+

2000 DU₉₉ = 1969 TY₇ = 1996 EM = 1998 ST₁₀₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	19.14422		(2000.0)	P		Q	
<i>n</i>	0.23865622	ω	131.14367	−0.66045172	−0.75086806		
<i>a</i>	2.5740731	Ω	0.19642	+0.59677136	−0.52557503		
<i>e</i>	0.1140153	<i>i</i>	13.88534	+0.45570546	−0.39996006		
<i>P</i>	4.13	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1969 10 08	033	0.5+	0.1+	1998 09 27	704	0.5−	0.6−	2000 03 05	704	0.1+	0.3+
1969 10 08	033	0.5−	0.1+	1998 09 27	704	0.2+	0.5−	2000 03 05	704	0.3+	0.2+
1996 03 10	399	(4.4−	0.2+)	1998 11 20	699	0.2+	0.2−	2000 03 05	704	0.1+	0.2+
1996 03 10	399	(3.1−	1.7+)	1998 11 20	699	0.5+	0.3+	2000 03 08	704	0.0	0.2+
1996 03 12	399	(3.5−	0.0)	1998 11 20	699	0.0	0.0	2000 03 08	704	0.1−	0.6−
1996 03 12	399	(4.3−	0.6−)	1999 12 17	699	0.4−	0.2+	2000 03 08	704	0.1+	0.3−
1996 03 17	566	0.3−	0.2+	1999 12 17	699	0.4−	1.0+	2000 03 08	704	0.1+	0.7−
1996 03 17	566	0.6−	0.2+	1999 12 17	699	0.3+	0.4+	2000 03 09	704	0.4+	0.1−
1996 03 17	566	0.8−	0.2+	2000 02 03	704	0.3+	0.3+	2000 03 09	704	0.3+	0.3−
1996 04 22	566	0.0	0.9−	2000 02 03	704	0.2−	0.2+	2000 03 09	704	0.2+	0.0
1996 04 22	566	0.5−	1.1−	2000 02 03	704	0.4+	0.3−	2000 03 09	704	0.2+	0.2−
1996 04 22	566	0.6−	1.1−	2000 02 03	704	0.2+	0.1+	2000 03 09	704	0.5+	0.1−
1998 09 17	699	1.1+	0.7+	2000 02 03	704	0.3+	0.2+	2000 03 11	699	0.3+	0.1+
1998 09 17	699	(2.3−	1.8+)	2000 02 06	703	0.4−	0.3−	2000 03 11	699	0.2−	0.3−
1998 09 17	699	0.2−	0.5+	2000 02 06	703	0.5−	0.3−	2000 03 11	699	0.5−	0.3+
1998 09 26	704	0.5−	0.3+	2000 02 06	703	0.4−	0.2−	2000 03 11	699	0.1−	0.0
1998 09 26	704	0.4−	1.4−	2000 02 06	703	0.5−	0.2−	2000 03 12	704	0.0	0.1+
1998 09 26	704	0.3+	1.2−	2000 02 29	704	0.3+	0.1+	2000 03 12	704	0.2−	0.2+

2000 MAR. 20

M.P.C. 39475

1998 09 26	704	0.3−	0.6−	2000 02 29	704	0.5+	0.3−	2000 03 12	704	0.2−	0.5+
1998 09 26	704	0.5+	0.0	2000 02 29	704	0.5+	0.2−	2000 03 12	704	0.3−	0.5+
1998 09 27	704	0.0	0.3+	2000 02 29	704	0.4−	0.2+	2000 03 12	704	0.5−	0.5+
1998 09 27	704	0.3+	0.3+	2000 03 05	704	0.4+	0.0				
1998 09 27	704	0.7+	0.3−	2000 03 05	704	0.7+	0.2+				

2000 DW₉₉ = 1996 FS₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	291.17408		(2000.0)		P		Q
<i>n</i>	0.23188618	ω	232.58581		−0.58714195		+0.80945708
<i>a</i>	2.6239334	Ω	1.50704		−0.64052701		−0.45959148
<i>e</i>	0.0860620	<i>i</i>	14.53471		−0.49496413		−0.36545165
<i>P</i>	4.25	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 03 17	566	0.6−	0.6−	2000 02 29	704	0.1−	0.6+	2000 03 09	704	0.2+	0.4+
1996 03 17	566	0.2−	0.3−	2000 02 29	704	0.0	0.1−	2000 03 09	704	0.9+	0.1−
1996 03 17	566	0.7−	0.4−	2000 02 29	704	0.2+	0.3−	2000 03 09	704	0.3+	0.7+
1996 03 24	566	0.5+	0.4+	2000 02 29	704	0.5+	0.2−	2000 03 09	704	1.5+	0.9−
1996 03 24	566	0.3+	0.4+	2000 02 29	704	0.2−	0.1+	2000 03 09	704	0.0	0.8+
1996 03 24	566	0.6+	0.4+	2000 03 05	704	0.0	0.1+	2000 03 11	699	0.9−	0.2−
2000 02 03	704	0.0	0.4−	2000 03 05	704	0.1+	0.1+	2000 03 11	699	1.3−	0.2−
2000 02 03	704	0.4−	0.1−	2000 03 05	704	0.4+	0.3+	2000 03 11	699	0.8−	0.1+
2000 02 03	704	0.1+	0.4+	2000 03 05	704	0.0	0.0	2000 03 11	699	0.5−	0.7+
2000 02 03	704	0.2+	0.0	2000 03 05	704	0.5+	0.2+	2000 03 12	704	0.5−	0.1+
2000 02 03	704	0.5+	0.0	2000 03 09	704	0.5+	0.2−	2000 03 12	704	0.4−	0.2−
2000 02 06	703	0.5+	0.7−	2000 03 09	704	0.0	0.4+	2000 03 12	704	0.7−	0.1−
2000 02 06	703	0.3+	0.1−	2000 03 09	704	0.6+	0.4−	2000 03 12	704	0.4−	0.1+
2000 02 06	703	0.2−	0.1−	2000 03 09	704	0.3−	0.2+	2000 03 12	704	1.0−	0.5−
2000 02 06	703	0.6−	0.5+	2000 03 09	704	0.8+	1.3−				

2000 DF₁₀₀ = 1990 JZ

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	259.69534		(2000.0)		P		Q
<i>n</i>	0.17115590	ω	275.30067		+0.07204374		+0.99739028
<i>a</i>	3.2127342	Ω	358.79983		−0.80224978		+0.05513244
<i>e</i>	0.1533514	<i>i</i>	13.03647		−0.59262550		+0.04661585
<i>P</i>	5.76	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1990 05 03	413	0.4+	0.0	2000 02 29	704	0.2+	0.1+	2000 03 11	699	0.6−	0.0
1990 05 04	413	0.4−	0.0	2000 02 29	704	0.3+	0.2+	2000 03 11	699	0.2+	0.2+
2000 02 25	703	0.8−	0.3+	2000 03 05	704	0.6−	0.3−	2000 03 12	704	0.1−	0.3+
2000 02 25	703	0.2−	0.2+	2000 03 05	704	0.7−	0.5−	2000 03 12	704	0.1+	0.5−
2000 02 25	703	0.5−	0.1+	2000 03 05	704	0.5−	0.2−	2000 03 12	704	0.2+	0.7−
2000 02 25	703	1.2+	0.6−	2000 03 05	704	0.4−	0.8−	2000 03 12	704	0.3+	0.0
2000 02 29	704	0.2+	0.3+	2000 03 05	704	0.2−	0.0	2000 03 12	704	0.1+	0.4+
2000 02 29	704	0.7+	0.1+	2000 03 11	699	0.5+	0.7+				
2000 02 29	704	0.4+	0.1−	2000 03 11	699	0.1+	0.8+				

2000 DT₁₀₀ = 4288 T-1 = 1998 UW₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	67.56281		(2000.0)		P		Q
<i>n</i>	0.23587663	ω	20.50179		+0.22895447		−0.97008400
<i>a</i>	2.5942557	Ω	56.34356		+0.87905576		+0.17042098
<i>e</i>	0.1227774	<i>i</i>	5.56553		+0.41813972		+0.17289801
<i>P</i>	4.18	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1971 03 24	675	1.4+	1.4−	1998 10 29	704	0.9−	0.4+	2000 03 02	703	0.5−	0.0
1971 03 26	675	0.9−	1.0+	1998 10 29	704	1.6−	1.0−	2000 03 02	703	0.0	0.1−
1971 03 26	675	0.3−	0.7+	1998 10 29	704	0.9+	1.3−	2000 03 02	703	0.2+	0.0
1971 03 27	675	0.2+	2.4−	2000 01 04	704	0.1−	0.3−	2000 03 02	703	0.5+	0.2+
1971 04 02	675	0.9−	1.0+	2000 01 04	704	0.7−	0.7−	2000 03 05	704	0.3−	0.0
1998 09 17	699	1.0+	0.0	2000 01 04	704	0.1−	1.1−	2000 03 05	704	0.4−	0.4−

1998 09 17	699	0.9+	0.4−	2000 01 04	704	0.5+	0.7+	2000 03 05	704	0.2−	0.1+
1998 09 17	699	0.9+	0.1+	2000 02 04	704	0.7+	0.8+	2000 03 05	704	0.8−	0.4+
1998 10 17	699	0.3+	1.4+	2000 02 04	704	0.4+	0.3+	2000 03 05	704	0.7−	0.1−
1998 10 17	699	1.3+	0.5+	2000 02 04	704	1.1+	0.1+	2000 03 09	608	0.0	0.3−
1998 10 17	699	0.6+	1.3+	2000 02 04	704	0.5+	0.0	2000 03 09	608	0.1−	1.3−
1998 10 28	704	1.0−	1.0−	2000 02 04	704	0.3+	0.2+	2000 03 09	608	0.2+	0.8−
1998 10 28	704	1.0−	1.3−	2000 02 29	704	0.3−	0.2+	2000 03 12	704	0.3−	0.1+
1998 10 28	704	0.3+	0.7−	2000 02 29	704	0.1−	0.0	2000 03 12	704	0.3−	0.2+
1998 10 28	704	1.6−	0.4−	2000 02 29	704	0.0	0.1+	2000 03 12	704	0.2−	0.4+
1998 10 29	704	0.6+	0.8+	2000 02 29	704	0.3+	0.2−	2000 03 12	704	0.0	0.2+
1998 10 29	704	0.3−	0.5+	2000 02 29	704	0.2+	0.7+	2000 03 12	704	0.3+	0.6+

2000 DA₁₀₁ = 1998 VP₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	196.99776		(2000.0)		P		Q
<i>n</i>	0.27959669	ω	309.32332		+0.82646649		+0.56179388
<i>a</i>	2.3162283	Ω	16.60008		−0.46901680		+0.72303768
<i>e</i>	0.1374390	<i>i</i>	7.36379		−0.31141031		+0.40200019
<i>P</i>	3.53	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 19	699	0.4+	0.1+	2000 02 11	704	0.0	0.6−	2000 03 02	703	0.3+	0.2−
1998 10 19	699	0.2+	0.3−	2000 02 11	704	0.1+	0.3+	2000 03 02	703	0.4−	0.2+
1998 10 19	699	0.5−	0.4+	2000 02 11	704	0.1+	0.1−	2000 03 05	704	0.2−	0.1+
1998 11 10	704	0.3−	0.9+	2000 02 11	704	0.1−	0.5+	2000 03 05	704	0.0	0.4−
1998 11 10	704	0.7+	1.1−	2000 02 11	704	0.1+	0.6+	2000 03 05	704	0.1+	0.3+
1998 11 10	704	0.7−	0.1+	2000 02 29	704	0.0	0.3−	2000 03 05	704	0.7+	0.4−
1998 11 10	704	0.3+	1.1−	2000 02 29	704	0.0	0.1−	2000 03 05	704	0.3+	0.2−
1998 11 11	704	0.5−	0.9+	2000 02 29	704	0.2+	0.2−	2000 03 12	704	0.3−	0.1+
1998 11 11	704	0.3+	0.6−	2000 02 29	704	1.1−	0.0	2000 03 12	704	0.6+	0.5+
1998 11 11	704	0.1+	0.0	2000 02 29	704	0.1−	0.3−	2000 03 12	704	0.5−	0.0
1998 11 11	704	0.3+	0.4+	2000 03 02	703	0.5−	0.5−	2000 03 12	704	0.5+	0.7+
1998 11 11	704	0.4−	0.1+	2000 03 02	703	0.0	0.0	2000 03 12	704	0.2−	0.2+

2000 DD₁₀₁ = 1997 TB₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	292.91826		(2000.0)		P		Q
<i>n</i>	0.22901346	ω	253.11429		−0.36276188		+0.93165897
<i>a</i>	2.6458306	Ω	355.45875		−0.72660227		−0.29647711
<i>e</i>	0.1981820	<i>i</i>	14.91630		−0.58348347		−0.21003066
<i>P</i>	4.30	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 10 04	691	0.0	0.0	2000 02 29	704	0.3−	0.0	2000 03 05	704	0.2+	0.2+
1997 10 04	691	0.6+	0.2−	2000 02 29	704	0.0	0.1−	2000 03 05	704	0.2−	0.3+
1997 10 04	691	0.1+	0.0	2000 02 29	704	0.4+	0.6−	2000 03 11	699	0.1+	0.5−
1997 10 09	691	0.2−	0.3+	2000 02 29	704	0.0	0.3+	2000 03 11	699	0.1−	0.0
1997 10 09	691	0.3−	0.1−	2000 03 05	704	0.0	0.0	2000 03 11	699	0.0	0.1+
1997 10 09	691	0.2−	0.1−	2000 03 05	704	0.4−	0.1+	2000 03 11	699	0.3+	0.2−
2000 02 29	704	0.2−	0.3+	2000 03 05	704	0.3+	0.1+				

2000 DN₁₀₁ = 1993 FL₂ = 1998 TS₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	8.81070		(2000.0)		P		Q
<i>n</i>	0.27549331	ω	29.44682		−0.85505670		−0.50713211
<i>a</i>	2.3391712	Ω	119.68821		+0.44807777		−0.82758916
<i>e</i>	0.0563529	<i>i</i>	7.15098		+0.26096809		−0.24065163
<i>P</i>	3.58	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 03 23	010	0.3−	0.2−	2000 02 04	704	0.8+	0.1−	2000 03 05	704	0.3−	0.3+
1993 03 23	010	0.8−	0.2−	2000 02 04	704	0.6−	1.8−	2000 03 05	704	0.5+	0.7+
1993 03 23	010	0.3+	1.7−	2000 02 04	704	0.7+	1.1−	2000 03 05	704	0.2−	0.2+
1993 03 25	010	(0.6−	3.6−)	2000 02 11	704	0.4+	0.2−	2000 03 09	704	0.1+	1.5+
1998 10 10	552	0.3−	0.2−	2000 02 11	704	0.6+	0.0	2000 03 09	704	0.4+	0.4+

M.P.C. 39476

1998 10 10	552	0.7−	0.0	2000 02 11	704	0.4+	1.2−	2000 03 09	704	0.3−	0.3+
1998 10 10	552	1.0−	0.4−	2000 02 11	704	0.1+	0.3−	2000 03 09	704	0.4−	0.8+
1998 10 13	552	0.2−	1.0−	2000 02 11	704	1.4+	0.2−	2000 03 09	704	0.2−	0.3+
1998 10 13	552	0.3+	0.6−	2000 02 29	704	0.1+	0.2+	2000 03 12	704	0.4+	0.1+
1998 10 13	552	0.3+	0.6+	2000 02 29	704	0.4+	0.7+	2000 03 12	704	0.2−	0.0
1998 10 15	552	1.2+	1.4+	2000 02 29	704	0.3+	0.3+	2000 03 12	704	0.3−	0.2+
1998 10 15	552	1.6+	0.0	2000 02 29	704	0.1−	0.9+	2000 03 12	704	0.5−	0.0
1998 10 15	552	1.0−	0.1−	2000 02 29	704	0.2−	0.4+	2000 03 12	704	0.1−	0.4+
2000 02 04	704	0.7−	0.8−	2000 03 05	704	0.3+	0.2−				
2000 02 04	704	0.3−	0.0	2000 03 05	704	0.6−	0.3−				

2000 DR₁₀₁ = 1989 SZ₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	143.14363		(2000.0)		P		Q
n	0.22502775	ω	358.61985		+0.99605683		−0.08494964
a	2.6769812	Ω	6.42366		+0.08343023		+0.79886485
e	0.1839233	i	13.21701		+0.03016917		+0.59548174
P	4.38	H	13.9	G	0.15	U	3

Residuals in seconds of arc

1989 09 27	675	1.0−	0.4+	1998 11 16	704	0.8+	1.5−	2000 03 02	703	0.5+	0.1+
1989 09 28	675	0.6+	0.1+	1998 11 16	704	0.2+	0.1+	2000 03 02	703	0.1−	0.7+
1989 09 28	675	1.1+	0.5−	1999 01 14	699	0.1−	0.2+	2000 03 05	704	0.9+	0.5+
1989 09 29	675	0.4+	0.6−	1999 01 14	699	0.6+	0.3+	2000 03 05	704	0.5+	0.7−
1989 09 29	675	0.6−	0.0	1999 01 14	699	(2.1+	2.6+)	2000 03 05	704	0.6−	0.2−
1998 08 31	704	0.7+	0.1+	2000 02 29	704	0.2−	0.1−	2000 03 05	704	0.5+	0.1−
1998 08 31	704	1.8−	1.0−	2000 02 29	704	0.4+	0.3+	2000 03 12	704	0.4+	0.7−
1998 08 31	704	0.3−	1.9+	2000 02 29	704	1.1−	0.2−	2000 03 12	704	0.3+	0.3+
1998 08 31	704	1.0+	0.1+	2000 02 29	704	0.5−	0.8+	2000 03 12	704	0.0	0.4−
1998 11 16	704	1.2−	0.9+	2000 02 29	704	0.0	0.1+	2000 03 12	704	0.1+	0.1+
1998 11 16	704	0.2+	0.8+	2000 03 02	703	0.7−	0.4−	2000 03 12	704	0.1+	0.1+
1998 11 16	704	0.3−	0.7−	2000 03 02	703	0.6−	0.4−				

2000 DV₁₀₁ = 1993 TL₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	275.63692		(2000.0)		P		Q	
n	0.22995915	ω	247.30217		−0.17695783		+0.98324955	
a	2.6385718	Ω	12.73958		−0.81466010		−0.12143547	
e	0.1530801	i	11.41938		−0.55228150		−0.13591815	
P	4.29	H	14.4		G	0.15	U	4

Residuals in seconds of arc

1993 10 10	809	1.1+	1.2+	2000 02 29	704	0.1−	0.1+	2000 03 05	704	0.1−	0.1−
1993 10 10	809	1.8+	1.7+	2000 02 29	704	1.5+	0.8−	2000 03 09	704	0.6−	0.3−
1993 10 10	809	0.5+	1.1+	2000 02 29	704	0.1−	0.1−	2000 03 09	704	0.2+	0.0
1993 10 22	809	0.9−	0.7−	2000 03 02	703	0.0	0.1−	2000 03 09	704	0.2+	0.3+
1993 10 22	809	1.8−	0.8−	2000 03 02	703	0.1−	0.2−	2000 03 09	704	0.2+	0.0
1993 10 22	809	1.3−	1.9−	2000 03 02	703	0.5+	0.3−	2000 03 09	704	0.1−	1.0+
1996 04 22	566	0.3+	0.0	2000 03 02	703	0.2+	0.1−	2000 03 12	704	0.7−	0.5+
1996 04 22	566	0.2+	0.4+	2000 03 05	704	0.2−	0.2−	2000 03 12	704	0.8−	0.4+
1996 04 22	566	0.0	0.2+	2000 03 05	704	0.2−	0.1−	2000 03 12	704	0.2−	0.7−
2000 02 29	704	0.6−	0.5+	2000 03 05	704	0.3+	0.0	2000 03 12	704	0.6+	0.3+
2000 02 29	704	0.3+	0.2+	2000 03 05	704	0.2+	0.4+	2000 03 12	704	0.4−	0.5−

2000 DL₁₀₂ = 1998 XM₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	193.77086		(2000.0)		P		Q
n	0.22623221	ω	289.67057		+0.85828019		+0.50810702
a	2.6674713	Ω	39.88234		−0.41868359		+0.77442822
e	0.1141902	i	6.44616		−0.29674765		+0.37694588
P	4.36	H	14.0	G	0.15	U	5

Residuals in seconds of arc

1998 12 14	704	0.7−	0.6−	2000 02 11	704	0.0	0.0	2000 03 05	704	0.1+	0.7−
1998 12 14	704	0.0	0.2+	2000 02 11	704	1.2+	0.3+	2000 03 05	704	0.1−	0.2+

2000 MAR. 20

1998 12 14	704	0.9+	1.0+	2000 02 11	704	0.1+	0.1+	2000 03 05	704	0.1−	0.4+
1998 12 14	704	1.2+	1.5+	2000 02 11	704	0.8+	0.2+	2000 03 05	704	0.4−	0.2−
1998 12 14	704	(2.5−	1.7−)	2000 02 29	704	0.1+	0.3−	2000 03 09	704	0.0	1.2−
1998 12 17	704	0.7−	0.1−	2000 02 29	704	0.7−	0.0	2000 03 09	704	0.7+	0.6−
1998 12 17	704	(0.5+	2.9−)	2000 02 29	704	0.0	0.3−	2000 03 09	704	0.2+	0.6+
1998 12 17	704	0.7+	1.8−	2000 02 29	704	0.6−	0.4+	2000 03 09	704	0.1+	0.4+
1998 12 17	704	1.3−	0.5−	2000 02 29	704	0.8−	0.4+	2000 03 12	704	0.1+	0.4−
2000 02 04	704	1.3+	0.5−	2000 03 02	703	1.1−	0.7−	2000 03 12	704	0.1+	0.0
2000 02 04	704	1.6+	0.3+	2000 03 02	703	0.2−	0.0	2000 03 12	704	0.5+	0.1−
2000 02 04	704	0.1−	0.2−	2000 03 02	703	0.4−	0.3+	2000 03 12	704	0.6+	0.2−
2000 02 04	704	1.9−	0.3+	2000 03 02	703	0.4−	0.2−	2000 03 12	704	0.1−	0.0
2000 02 11	704	0.7−	1.6+	2000 03 05	704	0.1+	0.1+				

2000 DM₁₀₂ = 1994 CU₈ = 1996 PQ₄ = 1998 XO₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	287.73216		(2000.0)		P		Q
n	0.17534570	ω	113.79868		−0.50531216		+0.85038552
a	3.1613504	Ω	125.04158		−0.84250814		−0.44941724
e	0.0494625	i	10.31785		−0.18665382		−0.27362129
P	5.62	H	12.6	G	0.15	U	1

Residuals in seconds of arc

1994 02 08	303	0.5+	0.2−	1999 12 05	704	0.3−	0.2−	2000 03 05	704	0.1−	0.2−
1994 02 08	303	1.4+	0.1−	2000 02 04	704	0.1−	0.3+	2000 03 05	704	0.2−	0.1−
1994 02 08	303	0.4−	0.3+	2000 02 04	704	0.1+	0.1−	2000 03 05	704	0.9−	0.5+
1994 02 09	303	0.2−	1.1+	2000 02 04	704	0.5−	0.5−	2000 03 09	704	0.2−	0.2−
1994 02 10	303	1.1−	0.5+	2000 02 04	704	0.2+	0.0	2000 03 09	704	0.4−	0.1−
1996 08 14	566	0.1+	0.4−	2000 02 04	704	0.3−	0.1+	2000 03 09	704	0.3−	0.0
1996 08 14	566	0.3−	0.8−	2000 02 11	704	1.2+	0.1+	2000 03 09	704	0.1−	0.2−
1996 08 14	566	0.2+	0.6−	2000 02 11	704	0.2+	0.5+	2000 03 09	704	0.0	0.1−
1996 08 17	566	0.1−	0.1−	2000 02 11	704	0.9+	0.1−	2000 03 09	704	0.2−	0.2−
1996 08 17	566	0.1+	0.3−	2000 02 11	704	0.8+	0.0	2000 03 09	704	0.0	0.2−
1996 08 17	566	0.1+	0.5−	2000 02 11	704	1.2+	0.3−	2000 03 09	704	0.1+	0.1+
1998 12 15	704	0.2+	1.6+	2000 02 29	704	0.3−	0.3−	2000 03 09	704	0.2+	0.1+
1998 12 15	704	1.9+	0.4+	2000 02 29	704	0.2−	0.1−	2000 03 09	704	0.1−	0.6+
1998 12 15	704	1.7+	0.8−	2000 02 29	704	0.6−	0.4−	2000 03 12	704	0.4−	0.1+
1998 12 22	704	0.1−	0.4−	2000 02 29	704	0.5+	0.3−	2000 03 12	704	0.1−	0.2−
1998 12 22	704	1.5−	1.4−	2000 02 29	704	1.0+	0.7+	2000 03 12	704	0.3+	0.0
1998 12 22	704	0.0	0.5−	2000 03 02	703	0.4−	0.4+	2000 03 12	704	0.2+	0.3+
1998 12 22	704	1.8−	1.1−	2000 03 02	703	0.3−	0.4−	2000 03 12	704	0.2+	0.3+
1999 12 05	704	0.0	0.2−	2000 03 02	703	1.1−	0.4−	2000 03 13	704	0.1−	1.0−
1999 12 05	704	0.2+	0.1−	2000 03 02	703	0.6−	0.4−	2000 03 13	704	0.4+	0.0
1999 12 05	704	0.3−	0.5+	2000 03 05	704	0.3−	0.0	2000 03 13	704	0.1+	0.1−
1999 12 05	704	0.2−	0.9−	2000 03 05	704	0.0	0.1−	2000 03 13	704	0.0	0.1−

2000 DO₁₀₂ = 1998 XB₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	102.83205		(2000.0)		P		Q
n	0.17183640	ω	345.07345		+0.73951273		−0.66842652
a	3.2042467	Ω	57.15382		+0.62689148		+0.64083161
e	0.1501878	i	5.43279		+0.24521011		+0.37754581
P	5.74	H	13.6	G	0.15	U	6

Residuals in seconds of arc

1998 12 14	704	0.2+	0.4+	2000 02 29	704	0.0	0.7+	2000 03 08	704	0.4+	0.5−
1998 12 14	704	0.9−	0.1+	2000 02 29	704	0.0	0.7−	2000 03 08	704	0.1−	0.2+
1998 12 14	704	0.2+	0.4−	2000 03 02	703	0.7−	0.0	2000 03 09	704	0.6+	0.1+
1998 12 14	704	0.0	0.6−	2000 03 02	703	0.0	0.2+	2000 03 09	704	0.2+	0.6+
1998 12 14	704	0.9−	0.9−	2000 03 02	703	0.3−	0.3−	2000 03 09	704	0.8+	0.7+
1998 12 17	704	0.2−	0.5+	2000 03 02	703	0.4+	0.5+	2000 03 09	704	0.3+	0.2+
1998 12 17	704	0.3+	0.3+	2000 03 05	704	0.2−	0.2−	2000 03 09	704	1.0+	1.2+
1998 12 17	704	0.3−	0.1+	2000 03 05	704	0.2+	0.0	2000 03 12	704	0.3−	0.6−
1998 12 17	704	1.1+	0.5+	2000 03 05	704	0.4−	0.5+	2000 03 12	704	0.2−	0.3−
1998 12 17	704	0.5+	0.0	2000 03 05	704	0.7+	0.3−	2000 03 12	704	1.5−	0.2+
2000 02 29	704	1.2−	0.4−	2000 03 05	704	0.2−	0.3−	2000 03 12	704	0.0	0.1−

2000 MAR. 20

M.P.C. 39477

2000 02 29 704 0.8+ 0.2- 2000 03 08 704 0.1+ 0.8- 2000 03 12 704 0.6- 0.4-
 2000 02 29 704 0.7+ 0.3+ 2000 03 08 704 0.3- 0.5-

2000 DB₁₀₃ = 1993 FZ₁₃ = 1998 UC₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	138.96922	(2000.0)	P	Q
<i>n</i>	0.27216424	ω	281.38110	+0.97184149 -0.21767118
<i>a</i>	2.3582075	Ω	91.23846	+0.23556694 +0.88824861
<i>e</i>	0.1503115	<i>i</i>	5.17866	+0.00568549 +0.40451658
<i>P</i>	3.62	<i>H</i>	14.9	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1993 03 17	809	0.8- 0.7-	1998 10 28	704	0.5+ 0.2+	2000 02 29	704	0.1- 0.2-
1993 03 18	809	0.1+ 0.9-	1998 10 28	704	0.2- 0.0	2000 03 05	704	0.1- 0.3-
1993 03 23	809	(1.6+ 3.2-)	1998 10 28	704	1.9- 0.1-	2000 03 05	704	1.1+ 0.5-
1997 04 11	704	0.5+ 0.3+	1998 10 29	704	0.7- 0.4-	2000 03 05	704	0.1- 0.2-
1997 04 11	704	0.6- 0.4-	1998 10 29	704	1.1- 0.6+	2000 03 05	704	0.4+ 0.1-
1998 09 21	699	0.0 1.1+	1998 10 29	704	0.8+ 0.7+	2000 03 05	704	0.4- 1.3+
1998 09 21	699	0.7+ 0.5-	1998 10 29	704	1.3+ 0.2+	2000 03 12	704	0.5- 0.4+
1998 09 21	699	0.8+ 0.1+	1998 10 29	704	0.4+ 1.2-	2000 03 12	704	0.9- 0.9+
1998 10 17	699	0.7+ 0.1+	2000 02 29	704	0.1- 0.2+	2000 03 12	704	0.6+ 0.4-
1998 10 17	699	0.7- 0.0	2000 02 29	704	0.1+ 0.3+	2000 03 12	704	0.4- 0.3-
1998 10 17	699	0.5+ 0.0	2000 02 29	704	0.4+ 0.1-			
1998 10 28	704	0.6- 1.9-	2000 02 29	704	0.4+ 0.0			

2000 DF₁₀₃ = 1998 SO₁₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	121.05223	(2000.0)	P	Q
<i>n</i>	0.24126220	ω	24.72028	+0.88725177 -0.46110176
<i>a</i>	2.5555038	Ω	2.84009	+0.36733911 +0.68920192
<i>e</i>	0.1376528	<i>i</i>	15.23160	+0.27900944 +0.55891491
<i>P</i>	4.09	<i>H</i>	14.6	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 08 28	704	1.2+ 1.2+	1998 09 27	704	0.7+ 1.2-	2000 03 05	704	0.5+ 0.3-
1998 08 28	704	0.6+ 1.2-	1998 09 27	704	0.4- 0.3-	2000 03 05	704	0.2- 0.3+
1998 08 28	704	0.9- 0.3-	2000 02 29	704	0.4- 0.4+	2000 03 05	704	0.6+ 0.1-
1998 08 28	704	(4.3- 3.2+)	2000 02 29	704	0.4- 0.1-	2000 03 09	704	0.6+ 0.7+
1998 09 26	704	1.3- 0.6+	2000 02 29	704	0.2- 0.0	2000 03 09	704	0.9- 0.2+
1998 09 26	704	0.3- 0.4+	2000 02 29	704	0.3+ 0.6-	2000 03 09	704	0.0 0.0
1998 09 26	704	0.5- 0.3+	2000 02 29	704	0.2+ 0.4+	2000 03 12	704	0.1+ 0.2-
1998 09 26	704	0.3- 0.6+	2000 03 02	703	0.1+ 0.5-	2000 03 12	704	0.3+ 0.3-
1998 09 26	704	0.7- 0.5+	2000 03 02	703	0.0 0.3+	2000 03 12	704	0.6+ 0.2+
1998 09 27	704	0.3- 0.3-	2000 03 02	703	1.7- 0.3-	2000 03 12	704	0.2+ 0.2-
1998 09 27	704	1.0+ 0.6-	2000 03 02	703	0.1+ 0.0	2000 03 12	704	0.2+ 0.1+
1998 09 27	704	1.3+ 0.1+	2000 03 05	704	0.2- 0.0			

2000 DH₁₀₃ = 1996 GK₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	344.98045	(2000.0)	P	Q
<i>n</i>	0.21452371	ω	82.98256	-0.98130373 -0.19079126
<i>a</i>	2.7636678	Ω	86.01618	+0.16503823 -0.90185801
<i>e</i>	0.0215193	<i>i</i>	1.45505	+0.09902204 -0.38762202
<i>P</i>	4.59	<i>H</i>	14.9	<i>G</i> 0.15 <i>U</i> 5

Residuals in seconds of arc

1996 04 15	809	0.1- 1.7+	2000 02 29	704	0.0 0.0	2000 03 11	704	0.9+ 0.7+
1996 04 15	809	0.4+ 0.3-	2000 02 29	704	0.4+ 0.5-	2000 03 11	704	0.5- 0.1+
1996 04 15	809	1.6+ 0.3-	2000 02 29	704	0.6+ 0.5+	2000 03 11	699	0.4+ 0.6+
1996 04 17	809	1.1- 0.6+	2000 03 05	704	0.2- 0.5-	2000 03 11	699	0.0 0.3-
1996 04 17	809	0.9- 0.0	2000 03 05	704	0.1- 1.0-	2000 03 11	699	0.9- 0.2-
1996 04 17	809	0.1+ 1.8-	2000 03 05	704	0.8- 0.2+	2000 03 11	699	0.6- 0.5+
2000 02 06	695	0.2- 0.1-	2000 03 11	704	1.5+ 0.1+			
2000 02 06	695	0.3- 0.1-	2000 03 11	704	0.2- 0.0			

2000 DP₁₀₃ = 1993 SB₉ = 1996 GM₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	191.86830	(2000.0)	P	Q
<i>n</i>	0.22497705	ω	323.14101	+0.88878325 +0.45649742
<i>a</i>	2.6773834	Ω	9.95063	-0.34329884 +0.72221445
<i>e</i>	0.1900842	<i>i</i>	13.69810	-0.30366140 +0.51963101
<i>P</i>	4.38	<i>H</i>	13.4	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1993 09 17	809	0.5- 0.1+	1996 04 07	327	0.5+ 0.5-	2000 03 05	704	0.2+ 0.1-
1993 09 17	809	1.8- 0.5+	1996 04 07	327	0.1- 0.4+	2000 03 05	704	0.6+ 0.4-
1993 09 17	809	1.6- 0.4+	1996 04 07	327	0.2+ 0.3-	2000 03 05	704	0.2+ 0.0
1993 09 18	809	1.5+ 0.5-	2000 02 29	704	0.2- 0.1-	2000 03 05	704	0.6+ 0.1+
1993 09 18	809	0.5+ 0.2+	2000 02 29	704	0.3+ 0.3+	2000 03 05	704	0.2+ 0.5-
1993 09 18	809	0.1+ 0.4-	2000 02 29	704	0.6- 0.1+	2000 03 12	704	0.1+ 0.4-
1993 09 18	691	0.7+ 0.1-	2000 02 29	704	0.4- 0.1+	2000 03 12	704	0.1- 0.0
1993 09 18	691	0.5+ 0.1-	2000 02 29	704	0.2- 0.5-	2000 03 12	704	0.1- 0.0
1993 09 18	691	0.6+ 0.1+	2000 03 02	703	0.4- 0.5+	2000 03 12	704	0.6+ 0.0
1996 04 06	327	0.2- 0.3+	2000 03 02	703	0.4+ 0.7+	2000 03 12	704	0.1- 0.1-
1996 04 06	327	0.6- 0.0	2000 03 02	703	0.7- 0.3+			
1996 04 06	327	0.2+ 0.1+	2000 03 02	703	0.3- 0.0			

2000 DB₁₀₄ = 1998 RJ₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	93.62955	(2000.0)	P	Q
<i>n</i>	0.29171563	ω	30.58881	+0.55836926 -0.82866653
<i>a</i>	2.2516260	Ω	25.53080	+0.74154785 +0.47737557
<i>e</i>	0.1127514	<i>i</i>	5.21652	+0.37192816 +0.29227443
<i>P</i>	3.38	<i>H</i>	15.5	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 08 17	704	0.4+ 0.5-	1998 09 18	704	1.7+ 0.9+	2000 03 05	704	0.3- 0.2-
1998 08 17	704	(2.3+ 0.1+)	2000 02 29	704	0.2+ 0.5-	2000 03 05	704	0.0 0.8+
1998 08 17	704	0.3- 0.2-	2000 02 29	704	0.3- 0.3-	2000 03 05	704	0.2- 0.2+
1998 08 17	704	(5.7- 0.9+)	2000 02 29	704	0.5+ 0.2+	2000 03 05	704	0.3- 0.5-
1998 09 14	704	0.4+ 0.3+	2000 02 29	704	0.7- 0.7+	2000 03 05	704	0.5+ 1.3-
1998 09 14	704	0.4- 0.6-	2000 02 29	704	1.1+ 0.3-	2000 03 12	704	0.6+ 0.6+
1998 09 14	704	0.9- 0.2+	2000 03 05	704	0.8- 0.7-	2000 03 12	704	0.7- 0.1+
1998 09 14	704	0.4+ 1.6+	2000 03 05	704	0.1- 0.7-	2000 03 12	704	0.0 0.1-
1998 09 18	704	0.6- 0.3+	2000 03 05	704	0.0 0.2-	2000 03 12	704	0.1+ 0.7+
1998 09 18	704	1.1- 1.6-	2000 03 05	704	1.0- 0.1+	2000 03 12	704	1.5+ 0.7+
1998 09 18	704	0.3+ 0.3-	2000 03 05	704	0.0 0.9+			

2000 DD₁₀₄ = 1982 JR₂ = 1996 KJ₅Id. G. V. Williams; 1982 JR₂ = 1998 VG₁₂ (*MPC* 34174) is invalid

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	226.88028	(2000.0)	P	Q
<i>n</i>	0.21079475	ω	191.52885	+0.52727080 +0.84500436
<i>a</i>	2.7961654	Ω	110.34970	-0.77182509 +0.52019557
<i>e</i>	0.0619936	<i>i</i>	5.45805	-0.35534707 +0.12395241
<i>P</i>	4.68	<i>H</i>	14.3	<i>G</i> 0.15 <i>U</i> 6

Residuals in seconds of arc

1982 05 15	675	0.8+ 1.4+	2000 02 26	703	0.6- 1.1-	2000 03 05	704	0.4+ 0.4-
1982 05 16	675	0.6- 0.2+	2000 02 26	703	0.8+ 0.3+	2000 03 05	704	0.2+ 0.6-
1982 05 17	675	0.3- 0.8+	2000 02 26	703	0.1+ 0.3+	2000 03 05	704	0.1- 0.1-
1982 05 18	675	0.7+ 0.4-	2000 02 29	704	0.1+ 1.1+	2000 03 05	704	0.3- 0.7-
1996 05 22	809	1.9- 1.4-	2000 02 29	704	0.0 0.0	2000 03 05	704	0.5+ 0.1+
1996 05 22	809	(2.8- 1.3-)	2000 02 29	704	0.2- 0.1+	2000 03 05	704	1.1+ 0.0
1996 05 22	809	1.6- 0.5-	2000 02 29	704	0.5- 0.0	2000 03 12	704	1.4- 0.1-
1996 05 24	809	(3.0+ 0.5+)	2000 02 29	704	0.2- 0.6-	2000 03 12	704	0.7- 0.0
1996 05 24	809	1.7+ 0.8-	2000 03 05	704	0.5+ 0.3-	2000 03 12	704	0.3+ 1.3+
1996 05 24	809	1.1+ 0.6+	2000 03 05	704	0.4- 0.1+	2000 03 12	704	0.2- 0.4-
2000 02 26	703	1.1- 0.0	2000 03 05	704	0.4+ 0.0	2000 03 12	704	1.2+ 1.1+

2000 DF₁₀₄ = 1998 XX₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	145.71713		(2000.0)		P		Q				
<i>n</i>	0.22110384	ω	3.96431	+0.97939995			-0.19980637				
<i>a</i>	2.7085604	Ω	7.74818	+0.17879884			+0.79086642				
<i>e</i>	0.1012551	<i>i</i>	12.51234	+0.09384403			+0.57845287				
<i>P</i>	4.46	<i>H</i>	13.7	<i>G</i>	0.15		<i>U</i>	4			
Residuals in seconds of arc											
1998 12 14	704	0.3+	1.2-	2000 02 11	704	0.1-	0.3-	2000 03 05	704	0.2+	0.1-
1998 12 14	704	0.6+	1.3-	2000 02 11	704	0.1-	0.2-	2000 03 05	608	0.3-	0.7-
1998 12 14	704	0.2-	1.2-	2000 02 29	704	0.3+	0.0	2000 03 05	608	0.1+	0.8-
1998 12 14	704	0.2+	0.9-	2000 02 29	704	0.3-	0.3+	2000 03 05	608	0.1+	0.7-
1998 12 14	704	0.3-	0.8+	2000 02 29	704	0.0	0.3+	2000 03 12	704	0.0	0.8+
1998 12 17	704	0.5-	0.1+	2000 02 29	704	0.2+	0.2+	2000 03 12	704	0.3-	0.5-
1998 12 17	704	0.1-	0.1-	2000 02 29	704	0.1+	0.9+	2000 03 12	704	0.6-	0.5+
1998 12 17	704	0.1+	0.3+	2000 03 05	704	0.3+	0.1+	2000 03 12	704	0.0	0.1+
1998 12 17	704	0.1-	1.8+	2000 03 05	704	0.1+	0.1-	2000 03 12	704	0.0	0.3+
1998 12 17	704	0.1-	1.7+	2000 03 05	704	0.4+	0.3-				
2000 02 11	704	0.0	0.2+	2000 03 05	704	0.1-	0.0				

2000 DK₁₀₄ = 1986 WH₆ = 1991 RO₁₀ = 1998 XZ₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	238.01683		(2000.0)		P		Q	
<i>n</i>	0.17207910	ω	280.65916		+0.39070728		+0.91915268	
<i>a</i>	3.2012331	Ω	12.69331		−0.73013033		+0.34256070	
<i>e</i>	0.1002759	<i>i</i>	13.16937		−0.56058677		+0.19444927	
<i>P</i>	5.73	<i>H</i>	13.0	<i>G</i>	0.15		<i>U</i>	3
Residuals in seconds of arc								
1986 11 27	010(22.1+	2.8+)	1999 01 16	704	1.8+	1.5+	2000 03 05	704 0.0 0.3+
1991 09 10	675 0.5+	0.1+	2000 02 04	704 0.4+	0.4−	2000 03 05	704 0.3−	0.4−
1991 09 10	675 0.2−	0.0	2000 02 04	704 0.0	1.1−	2000 03 05	704 0.0	0.6−
1991 09 16	675 0.7+	0.5−	2000 02 04	704 0.0	0.2−	2000 03 05	704 0.2−	0.1+
1991 09 16	675 1.1−	0.4+	2000 02 04	704 0.4+	0.1−	2000 03 09	704 0.5+	0.3−
1998 12 14	704 0.4−	0.6+	2000 02 04	704 0.5+	0.3+	2000 03 09	704 0.1+	0.5−
1998 12 14	704 0.9−	0.9−	2000 02 29	704 0.6+	0.3−	2000 03 09	704 0.4+	0.0
1998 12 14	704 1.6−	1.4−	2000 02 29	704 0.1+	0.3+	2000 03 09	704 0.2+	0.5+
1998 12 14	704 0.1+	1.7−	2000 02 29	704 0.3−	0.2+	2000 03 09	704 0.2+	0.5+
1998 12 17	704 0.2−	0.2+	2000 02 29	704 0.1−	0.1+	2000 03 12	704 0.1−	0.1−
1998 12 17	704 0.1+	0.2+	2000 02 29	704 1.1−	0.5+	2000 03 12	704 0.4+	0.2−
1998 12 17	704 0.1+	0.4+	2000 03 02	703 0.6−	0.3+	2000 03 12	704 0.1+	0.1+
1998 12 17	704 0.4+	1.1+	2000 03 02	703 0.3−	0.2−	2000 03 12	704 0.3−	0.4+
1999 01 16	704 (1.8−	2.4+)	2000 03 02	703 0.2−	0.2−	2000 03 12	704 0.0	0.1+
1999 01 16	704 (0.6−	3.0+)	2000 03 02	703 0.0	0.8+			
1999 01 16	704 0.5+	0.2+	2000 03 05	704 0.4−	0.2−			

2000 DM₁₀₄ = 1994 TF₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	47.39656		(2000.0)		P		Q				
<i>n</i>	0.24458795	ω	78.80504	-0.30233019			-0.95089197				
<i>a</i>	2.5322855	Ω	29.06115	+0.81257355			-0.29348507				
<i>e</i>	0.0733415	<i>i</i>	7.84960	+0.49831785			-0.09834115				
<i>P</i>	4.03	<i>H</i>	14.7	<i>G</i>	0.15		<i>U</i>	4			
Residuals in seconds of arc											
1994 10 08	691	0.3-	0.1+	2000 02 29	704	0.4+	0.0	2000 03 09	704	0.1+	0.1+
1994 10 08	691	0.0	0.2+	2000 02 29	704	0.3-	0.3+	2000 03 09	704	0.1+	0.2+
1994 10 08	691	0.0	0.1-	2000 02 29	704	0.4-	0.4-	2000 03 09	704	0.2-	0.3+
1994 10 10	691	0.1+	0.2+	2000 02 29	704	0.1+	0.5-	2000 03 09	704	0.2+	0.3+
1994 10 10	691	0.0	0.2-	2000 02 29	704	0.2+	0.2+	2000 03 09	704	0.0	0.1-
1994 10 10	691	0.1+	0.1-	2000 03 05	704	0.2+	0.2-	2000 03 12	704	0.0	0.0
2000 02 04	704	0.1+	0.0	2000 03 05	704	0.4+	0.7-	2000 03 12	704	0.1-	0.1-
2000 02 04	704	0.7+	0.4-	2000 03 05	704	0.4+	0.4-	2000 03 12	704	0.6-	0.8+

2000 02 04	704	0.8-	0.5+	2000 03 05	704	1.2-	0.4-	2000 03 12	704	1.0+	0.1+
2000 02 04	704	0.1+	0.4+	2000 03 05	704	0.5-	0.2-	2000 03 12	704	0.3+	0.2+

2000 DQ₁₀₄ = 1998 SK₉₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	89.27546		(2000.0)		P		Q				
n	0.28556320	ω	16.37612		+0.40760229		-0.90893684				
a	2.2838517	Ω	49.65914		+0.82437199		+0.32495186				
e	0.0610830	i	6.60838		+0.39277372		+0.26122809				
P	3.45	H	15.7		G	0.15	U	4			
Residuals in seconds of arc											
1998 09 17	699	0.7+	0.3-	1998 09 27	704	0.2-	0.7+	2000 03 05	704	0.1-	0.5-
1998 09 17	699	1.2-	1.1+	1998 09 27	704	1.0+	0.3-	2000 03 09	704	0.3-	0.6+
1998 09 17	699	0.7-	0.1-	2000 02 29	704	0.2+	0.3-	2000 03 09	704	0.2-	0.4-
1998 09 26	704	0.1-	0.1-	2000 02 29	704	(0.6-	2.4+)	2000 03 09	704	0.4+	0.3+
1998 09 26	704	0.2+	0.7-	2000 02 29	704	0.5+	0.1-	2000 03 09	704	0.7-	0.8-
1998 09 26	704	0.6+	1.2-	2000 02 29	704	1.1+	0.1+	2000 03 09	704	0.3-	0.0
1998 09 26	704	0.2+	1.8-	2000 02 29	704	0.4+	0.9+	2000 03 12	704	0.1+	0.3+
1998 09 26	704	0.3-	0.4-	2000 03 05	704	0.3-	0.8-	2000 03 12	704	0.5+	0.5-
1998 09 27	704	1.1-	1.7+	2000 03 05	704	0.2-	0.8+	2000 03 12	704	0.5-	0.5+
1998 09 27	704	0.8+	1.3+	2000 03 05	704	0.6-	0.1-	2000 03 12	704	(0.5-	2.4+)

2000 DX₁₀₄ = 1981 UN₂₃ = 1998 YN₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	220.48981		(2000.0)		P		Q				
<i>n</i>	0.29155514	ω	215.14257		+0.66145544		+0.74538736				
<i>a</i>	2.2524522	Ω	96.42095		-0.66758119		+0.63554994				
<i>e</i>	0.2048808	<i>i</i>	4.78606		-0.34177779		+0.20118140				
<i>P</i>	3.38	<i>H</i>	14.9		<i>G</i>	0.15	<i>U</i>	2			
Residuals in seconds of arc											
1981 10 24	675	0.4-	0.2+	1998 12 28	691	0.1+	0.2-	2000 03 02	703	1.6-	0.5-
1981 10 25	675	0.2+	0.3+	1998 12 28	691	0.2-	0.1-	2000 03 05	704	0.2+	0.5-
1996 01 08	608	0.1-	0.3+	2000 02 11	704	(0.2+	2.5-)	2000 03 05	704	0.3+	0.2-
1996 01 08	608	0.2+	0.0	2000 02 11	704	0.1-	0.7+	2000 03 05	704	0.9+	0.3-
1998 11 24	704	1.0+	0.2-	2000 02 11	704	1.2+	0.7-	2000 03 05	704	0.4+	0.3-
1998 11 24	704	0.1+	0.7-	2000 02 11	704	0.4-	0.2+	2000 03 05	704	0.1+	1.4-
1998 11 24	704	0.4+	0.0	2000 02 29	704	0.3-	0.7+	2000 03 12	704	0.0	0.6+
1998 11 24	704	0.8-	0.5-	2000 02 29	704	0.3+	0.3+	2000 03 12	704	0.1+	0.1-
1998 11 24	704	0.9+	1.6+	2000 02 29	704	0.7+	0.2+	2000 03 12	704	1.0-	0.9+
1998 12 25	691	0.5-	0.4-	2000 02 29	704	0.5-	0.3+	2000 03 12	704	0.2+	0.1+
1998 12 25	691	0.3-	0.1-	2000 03 02	703	(5.1+	0.8-)	2000 03 12	704	0.1-	0.0
1998 12 25	691	0.5-	0.1+	2000 03 02	703	0.1+	0.1+				
1998 12 28	691	0.2-	0.5-	2000 03 02	703	0.2-	0.0				

2000 DB₁₀₅ = 1997 LU₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	304.41304		(2000.0)		P		Q				
<i>n</i>	0.29639005	ω	149.27502		-0.64948649		+0.75478602				
<i>a</i>	2.2278894	Ω	80.05607		-0.71523718		-0.56537454				
<i>e</i>	0.1199521	<i>i</i>	5.35985		-0.25807571		-0.33264048				
<i>P</i>	3.33	<i>H</i>	16.3		<i>G</i>	0.15	<i>U</i>	6			
Residuals in seconds of arc											
1997 06 07	809	0.4+	0.2+	2000 02 29	704	1.5+	0.4+	2000 03 05	704	0.2-	0.7-
1997 06 07	809	1.3+	0.2-	2000 02 29	704	0.2-	0.4-	2000 03 09	704	0.8+	0.8+
1997 06 07	809	0.2-	0.3+	2000 02 29	704	0.8-	0.3+	2000 03 09	704	0.4-	0.4+
1997 06 08	809	0.2+	0.3+	2000 03 05	704	(2.3-	0.8-)	2000 03 09	704	0.0	0.9-
1997 06 08	809	0.6-	0.7-	2000 03 05	704	1.4-	0.4-	2000 03 09	704	0.6+	0.2+
1997 06 08	809	0.2+	0.4-	2000 03 05	704	0.2-	0.4-	2000 03 09	704	0.2+	0.7+

2000 MAR. 20

M.P.C. 39479

2000 DK₁₀₅ = 1993 OJ

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	285.10997		(2000.0)	P	Q
<i>n</i>	0.25924802	ω	124.02046	−0.04900379	+0.99120960
<i>a</i>	2.4358979	Ω	142.57363	−0.97005336	−0.01792607
<i>e</i>	0.2392835	<i>i</i>	11.66617	−0.23789727	−0.13108086
<i>P</i>	3.80	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1993 07 16	675	0.6−	0.0	2000 02 29	704	0.7+	0.2−	2000 03 10	608	0.2+	0.2−
1993 07 16	675	2.3+	0.1+	2000 03 05	704	0.1+	0.1−	2000 03 10	608	0.5−	0.4+
1993 07 20	675	0.6−	1.0−	2000 03 05	704	0.3−	0.3−	2000 03 12	704	0.0	1.0+
1993 07 20	675	1.5+	0.9+	2000 03 05	704	0.4+	0.1−	2000 03 12	704	1.2+	0.8−
2000 02 29	704	0.1−	0.4+	2000 03 05	704	0.3−	0.1+	2000 03 12	704	0.2+	0.2+
2000 02 29	704	0.3+	0.1−	2000 03 05	704	1.2−	0.1−	2000 03 12	704	0.0	0.1+
2000 02 29	704	0.5+	0.0	2000 03 10	608	0.9−	0.2+	2000 03 12	704	0.2−	0.6−

2000 DL₁₀₅ = 1998 XZ₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	178.90479		(2000.0)	P	Q
<i>n</i>	0.24630281	ω	268.51731	+0.96557953	+0.24776605
<i>a</i>	2.5205180	Ω	77.13240	−0.19442959	+0.88970864
<i>e</i>	0.1849586	<i>i</i>	4.65818	−0.17278108	+0.38344559
<i>P</i>	4.00	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 12 14	704	(0.2−	2.5−)	1998 12 17	704	0.5−	0.3+	2000 03 05	704	0.2−	0.8+
1998 12 14	704	0.3+	0.4+	2000 02 04	704	0.2+	0.4−	2000 03 05	704	0.3−	0.5+
1998 12 14	704	0.8−	0.4+	2000 02 04	704	0.4+	1.0+	2000 03 05	704	0.3−	1.2+
1998 12 14	704	0.4+	1.2+	2000 02 04	704	0.1−	0.2+	2000 03 12	704	0.1−	0.8−
1998 12 14	704	1.0−	0.3+	2000 02 29	704	1.4+	0.4−	2000 03 12	704	0.5−	0.7−
1998 12 17	704	0.2+	0.4−	2000 02 29	704	0.3−	0.2+	2000 03 12	704	0.3+	0.1−
1998 12 17	704	1.0+	0.9−	2000 02 29	704	0.6+	0.9−	2000 03 12	704	0.0	0.5+
1998 12 17	704	0.3−	0.2−	2000 02 29	704	0.4−	0.2−	2000 03 15	691	0.0	0.7−
1998 12 17	704	0.8+	1.2−	2000 03 05	704	0.5−	0.5+	2000 03 15	691	0.2−	0.6−

2000 DP₁₀₅ = 1993 BR₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	15.25165		(2000.0)	P	Q
<i>n</i>	0.29045012	ω	44.03724	−0.83600653	−0.54248861
<i>a</i>	2.2581616	Ω	102.93805	+0.47714660	−0.79291358
<i>e</i>	0.0507750	<i>i</i>	4.85332	+0.27096901	−0.27747823
<i>P</i>	3.39	<i>H</i>	15.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1993 01 22	691	0.2+	0.1+	2000 02 11	704	0.9+	0.7+	2000 03 05	704	0.0	0.9+
1993 01 22	691	0.2−	0.3−	2000 02 29	704	0.4−	1.0−	2000 03 05	704	0.0	1.8+
1993 01 22	691	0.4+	0.1−	2000 02 29	704	0.3+	0.4−	2000 03 12	704	0.2+	0.7+
1993 01 26	691	0.2−	0.2−	2000 02 29	704	0.1−	0.7−	2000 03 12	704	0.2+	0.8−
1993 01 26	691	0.2+	0.1−	2000 02 29	704	0.0	0.8−	2000 03 12	704	0.4+	0.5−
1993 01 26	691	0.4−	0.5+	2000 03 05	704	0.4−	0.2+	2000 03 12	704	0.1+	0.3+
2000 02 11	704	0.4−	0.1+	2000 03 05	704	0.2+	0.2−	2000 03 12	704	0.2+	0.4−
2000 02 11	704	0.3−	0.4−	2000 03 05	704	0.9−	0.3+				

2000 DG₁₀₆ = 1993 FG₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	156.36424		(2000.0)	P	Q
<i>n</i>	0.27266341	ω	265.35882	+0.99116086	−0.06422410
<i>a</i>	2.3553284	Ω	98.29175	+0.10401686	+0.91932227
<i>e</i>	0.1321820	<i>i</i>	6.73688	−0.08234467	+0.38822908
<i>P</i>	3.61	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1993 03 17	809	0.1+	0.8+	2000 03 05	704	0.4+	0.2+	2000 03 12	704	0.7+	0.6−
1993 03 18	809	0.1−	0.7−	2000 03 05	704	0.1−	0.8−	2000 03 12	704	0.1−	0.4−
2000 02 29	704	1.0−	0.4−	2000 03 05	704	0.1+	0.3+	2000 03 12	704	0.6−	0.2+
2000 02 29	704	0.1−	0.1−	2000 03 05	704	0.6+	0.7+	2000 03 12	704	0.4−	0.2+
2000 02 29	704	0.7+	0.0	2000 03 05	704	0.1−	0.6+				

2000 DH₁₀₆ = 1995 HX₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	34.33086		(2000.0)	P	Q
<i>n</i>	0.17740865	ω	44.43442	−0.52946823	−0.84226734
<i>a</i>	3.1367954	Ω	77.78405	+0.74663238	−0.51932143
<i>e</i>	0.1231521	<i>i</i>	5.94556	+0.40274493	−0.14453715
<i>P</i>	5.56	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1995 04 26	691	0.1−	0.2+	2000 02 01	703	0.9−	0.8−	2000 02 29	704	0.2−	0.9+
1995 04 26	691	0.2+	0.1−	2000 02 01	703	0.4−	0.1+	2000 03 05	704	0.0	0.5−
1995 04 26	691	0.0	0.1−	2000 02 01	703	1.0+	0.0	2000 03 05	704	0.3+	0.3−
1995 05 04	691	0.5−	0.1+	2000 02 01	703	0.5−	0.7+	2000 03 05	704	0.0	0.3+
1995 05 04	691	0.4+	0.0	2000 02 11	704	0.7−	0.9−	2000 03 05	704	0.2+	0.2+
1995 05 04	691	0.1−	0.3−	2000 02 11	704	1.0+	0.1+	2000 03 05	704	0.2+	0.4−
1998 11 24	704	0.7−	1.1+	2000 02 11	704	0.4+	0.1+	2000 03 12	704	0.4−	0.2−
1998 11 24	704	0.3−	0.1−	2000 02 11	704	0.8+	0.0	2000 03 12	704	0.2+	0.8−
1998 11 24	704	0.1−	0.4−	2000 02 11	704	0.2−	0.8+	2000 03 12	704	0.2−	0.2+
1998 11 24	704	1.2+	0.8−	2000 02 29	704	0.5+	0.0	2000 03 12	704	0.7−	0.1−
1998 11 24	704	(4.0−	1.2+)	2000 02 29	704	0.3+	0.7+	2000 03 12	704	0.5−	0.1−

2000 DJ₁₀₆ = 1996 HB₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	237.26744		(2000.0)	P	Q
<i>n</i>	0.24374241	ω	207.06231	+0.41720837	+0.90317880
<i>a</i>	2.5381385	Ω	87.74309	−0.81445286	+0.42089508
<i>e</i>	0.0711437	<i>i</i>	5.80248	−0.40324150	+0.08435281
<i>P</i>	4.04	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1996 04 18	327	0.7−	0.6−	1998 11 24	704	0.1+	1.6−	2000 03 05	704	0.6+	0.3+
1996 04 18	327	0.1+	0.4−	1998 11 24	704	0.2+	0.3−	2000 03 05	704	0.1−	0.1−
1996 04 18	327	0.1−	0.2−	2000 02 11	704	0.3+	0.1−	2000 03 05	704	0.4−	0.4+
1996 04 18	327	0.3−	0.5−	2000 02 11	704	1.0−	0.7−	2000 03 05	704	0.8+	1.6+
1996 04 20	327	0.4−	0.7−	2000 02 11	704	1.4−	0.1−	2000 03 12	704	0.4−	0.0
1996 04 20	327	0.4+	0.5−	2000 02 29	704	0.6+	1.0+	2000 03 12	704	0.1+	0.1−
1996 04 20	327	0.4−	0.5−	2000 02 29	704	0.4+	0.5+	2000 03 12	704	0.1+	0.8−
1998 11 24	704	0.7+	0.2+	2000 02 29	704	1.1+	1.3+	2000 03 12	704	0.3+	0.5+
1998 11 24	704	0.7−	1.0+	2000 03 05	704	0.0	0.6−	2000 03 12	704	0.3−	0.1−

2000 DM₁₀₆ = 1993 BG₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	313.38615		(2000.0)	P	Q
<i>n</i>	0.29167165	ω	104.99042	−0.79017541	+0.60401258
<i>a</i>	2.2518523	Ω	112.27625	−0.59657048	−0.71917425
<i>e</i>	0.0682377	<i>i</i>	6.44568	−0.14045101	−0.34344899
<i>P</i>	3.38	<i>H</i>	15.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1993 01 21	691	0.1+	0.1−	1993 01 29	691	0.5−	0.3−	2000 03 05	704	0.0	0.1+
1993 01 21	691	0.3+	0.2−	1993 01 29	691	0.4−	0.3−	2000 03 05	704	0.8+	0.4+
1993 01 21	691	0.3+	0.7−	1993 01 29	691	0.2−	0.4−	2000 03 12	704	0.4−	0.3+
1993 01 22	691	0.0	0.4+	2000 02 29	704	0.3−	0.7+	2000 03 12	704	0.5+	0.0
1993 01 22	691	0.3+	0.1+	2000 02 29	704	0.0	0.3+	2000 03 12	704	0.8−	1.1−
1993 01 22	691	0.6+	0.4+	2000 02 29	704	1.2−	0.3+	2000 03 12	704	0.8+	0.8−
1993 01 26	691	0.0	0.5+	2000 03 05	704	0.2+	0.0	2000 03 12	704	0.5+	0.4−
1993 01 26	691	0.2−	0.1+	2000 03 05	704	0.2−	0.4+				
1993 01 26	691	0.4−	0.3+	2000 03 05	704	0.0	0.1−				

2000 DT₁₀₆ = 1999 BG₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	113.50266		(2000.0)	P	Q
n	0.16190375	ω	266.60818	+0.70350930	-0.69483947
a	3.3339937	Ω	137.32789	+0.70750425	+0.66489442
e	0.1152379	i	12.71980	+0.06717445	+0.27406847
P	6.09	H	12.5	G 0.15	U 4

Residuals in seconds of arc

1998 12 15	704	0.1-	0.3-	2000 02 01	703	0.5-	0.4-	2000 02 26	703	0.9-	0.4+
1998 12 15	704	0.7-	0.2-	2000 02 01	703	0.0	0.4-	2000 02 29	704	0.1-	0.2-
1998 12 15	704	0.0	0.1-	2000 02 01	703	0.2+	0.7-	2000 02 29	704	0.2-	0.1-
1998 12 15	704	0.0	0.4+	2000 02 04	704	0.4+	1.9-	2000 02 29	704	0.2+	0.4+
1998 12 15	704	1.0+	1.3-	2000 02 04	704	0.5+	0.2-	2000 02 29	704	0.1-	0.1-
1999 01 18	704	0.3+	0.1+	2000 02 04	704	0.1+	1.3+	2000 02 29	704	0.1-	0.3-
1999 01 18	704	0.5+	1.3-	2000 02 04	704	0.4-	0.5+	2000 03 05	704	0.2+	0.0
1999 01 18	704	0.5+	0.2+	2000 02 04	704	0.8-	0.9+	2000 03 05	704	0.5+	0.5+
1999 01 18	704	1.0-	0.5-	2000 02 11	704	0.6-	0.3-	2000 03 05	704	0.3+	0.2+
1999 01 18	704	(1.1+	2.2-)	2000 02 11	704	0.6-	0.1-	2000 03 05	704	0.0	0.1+
1999 01 20	704	1.7+	1.2+	2000 02 11	704	0.1-	0.7-	2000 03 05	704	0.3+	0.5+
1999 01 20	704	1.5-	1.7+	2000 02 11	704	0.8-	0.3-	2000 03 12	704	0.0	0.3+
1999 01 20	704	0.4-	0.1+	2000 02 26	703	1.0+	1.4-	2000 03 12	704	0.1-	0.0
1999 01 20	704	0.2-	0.2+	2000 02 26	703	1.0+	1.8+	2000 03 12	704	0.8+	0.3-
2000 02 01	703	0.2-	0.1+	2000 02 26	703	0.4-	0.3+	2000 03 12	704	0.1+	0.2-

2000 DW₁₀₆ = 1983 AE₃ = 1987 WU₅ = 1998 XZ₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	101.39186		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.18251762	ω	23.42333	+0.66259114	-0.74432356
a	3.0779828	Ω	25.32801	+0.65266230	+0.51916598
e	0.1559276	i	11.24174	+0.36743013	+0.42005847
P	5.40	H	12.6	G 0.15	U 1

Residuals in seconds of arc

1983 01 06	095	0.3-	1.0-	1998 12 17	704	0.7-	1.5+	2000 02 29	704	0.1+	0.3+
1983 01 09	095	1.0-	2.4+	1998 12 17	704	1.2-	0.4+	2000 02 29	704	0.0	0.3+
1983 01 14	095	1.0+	0.1-	1998 12 17	704	0.3-	0.4-	2000 02 29	704	0.1+	0.5+
1987 11 16	327	0.5+	0.3-	1998 12 17	704	0.0	0.4+	2000 02 29	704	0.0	0.1-
1997 09 01	566	0.4-	0.8+	1999 11 16	703	0.5-	0.2-	2000 02 29	704	0.2+	0.3+
1997 09 01	566	0.4-	0.6+	1999 11 16	703	0.8+	0.0	2000 03 05	704	0.1+	0.2-
1997 09 01	566	0.3-	0.6+	1999 11 16	703	0.2-	0.6+	2000 03 05	704	0.1+	0.1-
1998 11 16	704	(3.9+	3.5+)	1999 11 16	703	0.2-	0.3-	2000 03 05	704	0.3-	0.3+
1998 11 16	704	0.2-	0.5-	2000 02 01	703	0.3+	0.0	2000 03 05	704	0.1-	0.4+
1998 11 16	704	0.0	1.0+	2000 02 01	703	0.4-	0.3+	2000 03 05	704	0.1-	0.4+
1998 11 16	704	0.4+	0.0	2000 02 01	703	0.2+	0.1+	2000 03 12	704	0.1-	0.2-
1998 11 16	704	0.3-	0.6-	2000 02 01	703	0.2-	0.3-	2000 03 12	704	0.3+	0.1-
1998 12 14	704	0.9+	0.3+	2000 02 04	704	0.4+	0.4-	2000 03 12	704	0.3+	0.5-
1998 12 14	704	0.4+	0.1+	2000 02 04	704	0.1-	0.4-	2000 03 12	704	0.2-	0.2-
1998 12 14	704	1.0+	0.2-	2000 02 04	704	0.7+	0.2+	2000 03 12	704	0.3-	0.4+
1998 12 14	704	1.5+	0.5-	2000 02 04	704	0.1+	0.0				
1998 12 14	704	1.5-	1.5-	2000 02 04	704	0.1-	0.1+				

2000 DY₁₀₆ = 1976 UY₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	232.59232		(2000.0)	P	Q
n	0.27288260	ω	250.56617	+0.57717281	+0.81066947
a	2.3540670	Ω	55.07897	-0.69697716	+0.55182448
e	0.1390583	i	6.89403	-0.42555186	+0.19571600
P	3.61	H	14.5	G 0.15	U 2

Residuals in seconds of arc

1976 10 22	381	0.3-	0.4+	1998 12 17	704	0.6+	0.6+	2000 03 05	704	0.0	0.5-
1976 10 22	381	1.2+	0.2+	2000 02 29	704	0.2+	0.1+	2000 03 05	704	0.0	0.1-
1976 10 24	381	0.9-	0.6-	2000 02 29	704	0.1-	0.0	2000 03 05	704	0.2+	0.5-
1998 12 17	704	1.1+	1.2+	2000 02 29	704	0.5+	0.4+	2000 03 12	704	0.2-	0.2+

1998 12 17	704	1.3-	1.4-	2000 03 05	704	0.4-	0.2+	2000 03 12	704	0.1-	0.3+
1998 12 17	704	0.4-	0.4-	2000 03 05	704	0.1+	0.2-	2000 03 12	704	0.2-	0.0

2000 DB₁₀₇ = 1996 GN₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	61.95978		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.22911078	ω	73.66648	-0.22994737	-0.96959093		
a	2.6450814	Ω	30.02680	+0.81674365	-0.23906992		
e	0.0171215	i	9.63710	+0.52920130	-0.05233555		
P	4.30	H	14.6	G	0.15	U	5

Residuals in seconds of arc

1996 04 13	691	0.3-	0.5+	2000 02 29	704	0.0	0.2-	2000 03 05	704	0.7+	0.3+
1996 04 13	691	0.4-	0.1+	2000 02 29	704	0.0	0.2+	2000 03 12	704	0.2+	0.4-
1996 04 13	691	0.7-	0.3+	2000 02 29	704	0.0	0.1+	2000 03 12	704	0.2-	0.2-
1996 04 19	691	0.5+	0.5-	2000 03 05	704	0.4-	0.3+	2000 03 12	704	0.2+	0.0
1996 04 19	691	0.5+	0.0	2000 03 05	704	0.5-	0.1-	2000 03 12	704	0.3+	0.1+
1996 04 19	691	0.3+	0.3-	2000 03 05	704	0.4-	0.1-	2000 03 12	704	0.0	0.0

2000 DG₁₀₇ = 1998 XB₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	239.23172		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.24211713	ω	165.09378	+0.46965642	+0.87236486
a	2.5494845	Ω	132.70757	-0.82771554	+0.48854668
e	0.0827732	i	10.63835	-0.30709906	+0.01736926
P	4.07	H	13.9	G 0.15	U 3

Residuals in seconds of arc

1997 07 08	910	0.1-	0.8+	2000 02 02	703	0.3+	0.6+	2000 02 29	704	0.1+	0.2-
1997 07 08	910	0.1-	0.7+	2000 02 02	703	0.1+	0.8+	2000 02 29	704	0.5-	0.3+
1997 07 08	910	0.0	0.6+	2000 02 02	703	0.0	0.9+	2000 02 29	704	0.8-	0.2-
1998 12 15	704	0.7+	0.3-	2000 02 02	703	(2.1-	0.4+)	2000 03 05	704	0.1-	0.5-
1998 12 15	704	1.1+	0.4+	2000 02 04	704	0.0	0.1-	2000 03 05	704	0.1+	0.3-
1998 12 15	704	0.6+	0.9+	2000 02 04	704	1.2+	0.8+	2000 03 05	704	0.3-	0.5-
1998 12 15	704	0.0	0.4-	2000 02 04	704	0.2-	0.6+	2000 03 05	704	0.3+	1.0-
1998 12 15	704	1.1-	0.2-	2000 02 04	704	0.1-	0.5+	2000 03 05	704	0.1+	0.6-
1998 12 22	704	1.7-	0.6-	2000 02 04	704	0.9-	1.5+	2000 03 12	704	0.1-	0.2-
1998 12 22	704	1.0+	1.8-	2000 02 26	703	0.5+	0.2-	2000 03 12	704	0.4+	0.1+
1998 12 22	704	0.6-	1.8+	2000 02 26	703	0.4-	0.2-	2000 03 12	704	0.1-	0.2-
1999 01 14	699	0.1+	0.4+	2000 02 26	703	0.3+	0.0	2000 03 12	704	0.0	0.2+
1999 01 14	699	0.4-	0.8+	2000 02 26	703	0.5+	0.2+	2000 03 12	704	0.2+	0.7-
1999 01 14	699	(0.8+	2.2+)	2000 02 29	704	0.1-	0.3+				

2000 DU₁₀₈ = 1998 XD₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	250.31212		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.17538298	ω	240.63513		+0.08111130		+0.99525610
a	3.1609024	Ω	34.14643		-0.87807079		+0.09685731
e	0.1316282	i	5.49227		-0.47160645		-0.00916243
P	5.62	H	13.0	G	0.15	U	4

Residuals in seconds of arc

1997 10 30	704	1.2-	0.7+	1999 12 07	704	(0.4-	2.1-)	2000 02 29	704	0.3-	0.2-
1997 10 30	704	1.5-	0.6+	1999 12 07	704	0.7+	1.3-	2000 02 29	704	0.4-	0.2+
1997 10 30	704	0.2+	0.7-	2000 02 03	704	0.5-	0.1+	2000 02 29	704	0.9+	0.1-
1997 10 30	704	0.1+	0.1+	2000 02 03	704	0.8-	0.4-	2000 02 29	704	(2.2-	0.7+)
1997 10 30	704	0.7-	0.3-	2000 02 03	704	0.3-	0.2+	2000 03 05	704	0.3-	0.4+
1997 11 03	704	0.6+	0.4-	2000 02 03	704	0.1-	0.5+	2000 03 05	704	0.9+	0.4+
1997 11 03	704	1.8+	0.6+	2000 02 03	704	0.7-	0.3-	2000 03 05	704	0.4+	0.3-
1997 11 03	704	0.6+	0.2+	2000 02 06	703	1.6-	0.2+	2000 03 05	704	0.2-	0.4+
1997 11 03	704	0.5-	0.5+	2000 02 06	703	(2.3-	1.4-)	2000 03 11	699	0.4-	0.1+
1998 12 14	704	1.7-	1.5-	2000 02 06	703	(2.3-	1.3+)	2000 03 11	699	0.8-	0.1-
1998 12 14	704	1.1+	1.1-	2000 02 06	703	(3.3-	1.7+)	2000 03 11	699	0.0	0.7-
1998 12 14	704	0.3+	0.9+	2000 02 11	704	0.2+	1.6+	2000 03 11	699	0.0	0.0
1998 12 17	704	0.6-	0.5+	2000 02 11	704	0.6+	0.1-	2000 03 12	704	0.4+	0.1+

2000 MAR. 20

M.P.C. 39481

1998 12 17	704	(2.4+	0.7+)	2000 02 11	704	1.5+	0.1+	2000 03 12	704	0.1-	0.8+
1998 12 17	704	1.0+	0.2-	2000 02 11	704	0.5+	0.1-	2000 03 12	704	0.1+	0.2+
1998 12 17	704	0.1-	0.2+	2000 02 11	704	0.9+	1.5-	2000 03 12	704	0.6+	0.4+
1999 12 07	704	0.4-	0.4+	2000 02 29	704	0.1-	0.4-	2000 03 12	704	0.2-	0.5+

2000 DK₁₀₉ = 1998 VG₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	170.75846	ω	271.05110	+0.95014013	+0.29385430		
<i>a</i>	2.3455429	Ω	71.86637	-0.22412501	+0.87617247		
<i>e</i>	0.1570992	<i>i</i>	6.30238	-0.21679876	+0.38206211		
<i>P</i>	3.59	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 12	699	0.3+	0.8+	1998 12 11	699	1.0+	0.4-	2000 03 05	704	0.7+	0.5+
1998 10 12	699	0.1+	0.7+	2000 02 03	704	0.1+	0.5-	2000 03 09	704	0.6-	0.2+
1998 10 12	699	0.5+	0.6+	2000 02 03	704	0.5-	0.8-	2000 03 09	704	0.1-	0.3+
1998 11 10	704	0.2-	0.5-	2000 02 03	704	0.0	0.8+	2000 03 09	704	0.4+	1.0+
1998 11 10	704	0.3-	0.9-	2000 02 03	704	0.3+	0.4-	2000 03 09	704	0.3+	0.1-
1998 11 10	704	0.1+	1.1-	2000 02 03	704	1.3-	1.0+	2000 03 09	704	0.2+	0.2+
1998 11 10	704	0.1-	1.2+	2000 02 29	704	0.1+	0.0	2000 03 11	699	0.0	0.2+
1998 11 10	704	(2.5-	0.5+)	2000 02 29	704	(0.1+	2.1+)	2000 03 11	699	0.4-	0.1-
1998 11 11	704	0.5+	0.4+	2000 02 29	704	0.1+	0.3-	2000 03 11	699	0.4-	0.6-
1998 11 11	704	0.8-	0.4-	2000 02 29	704	0.3+	0.0	2000 03 11	699	0.0	0.2-
1998 11 11	704	0.3-	0.7-	2000 02 29	704	0.8+	0.6-	2000 03 12	704	0.2+	0.1-
1998 11 11	704	0.4-	0.3-	2000 03 05	704	0.1-	0.5+	2000 03 12	704	0.2-	0.1-
1998 11 11	704	1.0-	0.2-	2000 03 05	704	0.1-	0.4-	2000 03 12	704	0.0	0.6-
1998 12 11	699	0.4+	0.6+	2000 03 05	704	0.3-	0.7+	2000 03 12	704	0.2+	0.7-
1998 12 11	699	0.4+	0.4+	2000 03 05	704	0.2+	0.3+				

2000 DP₁₀₉ = 1998 QK₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30656412	ω	172.72160	-0.90870647	-0.41629779		
<i>a</i>	2.1783208	Ω	342.57799	+0.37761877	-0.78833922		
<i>e</i>	0.0485854	<i>i</i>	5.90466	+0.17792307	-0.45300930		
<i>P</i>	3.22	<i>H</i>	16.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 08 30	691	0.1+	0.2+	2000 02 29	704	0.1+	0.5-	2000 03 11	704	1.9+	0.8-
1998 08 30	691	0.2+	0.2+	2000 02 29	704	0.0	0.7-	2000 03 11	704	0.2-	0.4-
1998 08 30	691	0.1-	0.0	2000 03 03	704	0.4+	0.3+	2000 03 11	699	0.4-	0.1-
1998 08 31	691	0.1+	0.0	2000 03 03	704	0.0	0.3+	2000 03 11	704	0.2+	0.9-
1998 08 31	691	0.2+	0.2-	2000 03 03	704	0.6-	0.5+	2000 03 11	704	0.8+	1.1-
1998 08 31	691	0.4-	0.1-	2000 03 03	704	0.4-	0.5+	2000 03 11	699	0.2-	0.3+
2000 02 29	704	0.7+	0.1-	2000 03 03	704	0.6-	0.4+	2000 03 11	699	0.1+	0.9+
2000 02 29	704	0.1+	0.0	2000 03 11	704	1.1-	0.8+	2000 03 11	699	0.7-	0.8+

2000 DR₁₀₉ = 1993 TE₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22767517	ω	243.68244	+0.30804478	+0.94799860		
<i>a</i>	2.6561887	Ω	44.50668	-0.82708749	+0.30843078		
<i>e</i>	0.1296166	<i>i</i>	6.55673	-0.47014327	+0.07854368		
<i>P</i>	4.33	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 10 09	809	0.3+	1.0-	1993 10 20	809	0.2+	1.0+	2000 03 05	704	0.9+	1.1-
1993 10 09	809	0.8-	0.3+	2000 02 29	704	0.3+	0.2-	2000 03 05	704	0.4-	0.4-
1993 10 09	809	0.3-	0.1+	2000 02 29	704	0.1-	0.5-	2000 03 05	704	1.2+	0.4-
1993 10 11	809	0.1-	0.8-	2000 02 29	704	0.1-	0.1+	2000 03 12	704	0.4-	0.5+
1993 10 11	809	0.5-	0.5-	2000 02 29	704	1.4-	0.2+	2000 03 12	704	0.2+	0.3-
1993 10 11	809	1.0-	0.4-	2000 02 29	704	1.2+	0.2-	2000 03 12	704	1.0-	0.8+
1993 10 20	809	1.2+	0.9+	2000 03 05	704	0.2+	0.1-	2000 03 12	704	0.5-	0.9+
1993 10 20	809	0.9+	0.5+	2000 03 05	704	0.9+	0.4-	2000 03 12	704	0.9-	0.9+

2000 DZ₁₀₉ = 1998 SO₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22881088	ω	299.12470	-0.29992300	-0.95376493		
<i>a</i>	2.6473921	Ω	168.27928	+0.90515640	-0.29096006		
<i>e</i>	0.1747462	<i>i</i>	5.49686	+0.30122764	-0.07533069		
<i>P</i>	4.31	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 18	691	0.8-	0.1+	2000 03 03	704	0.3-	0.8-	2000 03 11	704	0.3-	0.4-
1998 09 18	691	0.9-	0.1+	2000 03 08	691	0.2-	0.2-	2000 03 11	704	0.2+	0.1-
1998 09 18	691	0.2-	0.5-	2000 03 08	691	0.3-	0.3-	2000 03 11	704	0.2+	0.0
1998 09 24	691	0.3+	0.1-	2000 03 08	691	0.2-	0.2-	2000 03 11	704	0.1+	0.2+
1998 09 24	691	1.0+	0.1+	2000 03 09	691	0.2-	0.0	2000 03 11	704	0.2-	0.2+
1998 09 24	691	0.5+	0.4+	2000 03 09	691	0.2-	0.0	2000 03 11	704	0.5+	0.0
2000 02 29	704	1.7+	0.3-	2000 03 09	691	0.4-	0.0	2000 03 11	699	0.8-	0.4+
2000 02 29	704	0.4+	0.4+	2000 03 10	704	0.1+	0.2+	2000 03 11	704	0.4+	0.1+
2000 02 29	704	0.4-	0.6+	2000 03 10	704	0.1+	0.3+	2000 03 11	704	0.6+	0.1+
2000 02 29	704	0.1+	0.8+	2000 03 10	704	0.2+	0.2+	2000 03 11	699	0.4-	0.2+
2000 02 29	704	0.8-	0.7-	2000 03 10	704	0.1-	0.3+	2000 03 11	704	0.3+	0.0
2000 03 03	704	0.0	0.1-	2000 03 10	704	0.2-	0.2+	2000 03 11	699	0.6-	0.3+
2000 03 03	704	0.3-	0.4-	2000 03 10	120	1.0+	0.5-	2000 03 11	704	0.7+	0.3+
2000 03 03	704	0.1-	0.5-	2000 03 10	120	(2.8-	0.6-)	2000 03 11	699	0.7-	0.3+
2000 03 03	704	0.5+	0.4-	2000 03 10	120	0.2-	0.0				

2000 DF₁₁₀ = 1998 SB₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30833230	ω	316.72658	-0.99264880	+0.12068726		
<i>a</i>	2.1699848	Ω	230.20746	-0.10756079	-0.91417423		
<i>e</i>	0.0777313	<i>i</i>	0.67914	-0.05548909	-0.38693677		
<i>P</i>	3.20	<i>H</i>	16.6	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 09 20	691	0.3-	0.0	2000 02 27	703	1.4-	0.3+	2000 03 03	704	0.7+	0.9-
1998 09 20	691	1.6+	0.1+	2000 02 29	704	0.2+	0.0	2000 03 11	704	0.4+	0.6+
1998 09 20	691	0.2-	0.5-	2000 02 29	704	0.1-	0.3-	2000 03 11	699	0.8-	0.8+
1998 09 21	691	0.5-	0.4+	2000 02 29	704	0.0	0.6+	2000 03 11	704	0.4+	0.4+
1998 09 21	691	0.3-	0.3+	2000 02 29	704	(2.0-	2.5+)	2000 03 11	704	0.6+	0.4+
1998 09 21	691	0.7-	0.5+	2000 03 03	704	0.4-	0.3-	2000 03 11	699	0.3-	0.5+
2000 02 27	703	0.6-	0.4-	2000 03 03	704	1.1+	0.6-	2000 03 11	699	0.9-	1.0+
2000 02 27	703	0.0	0.2-	2000 03 03	704	0.7+	0.5-	2000 03 11	704	0.3+	0.2-
2000 02 27	703	1.2-	0.5-	2000 03 03	704	0.5+	0.4-	2000 03 11	699	1.0+	0.7+

2000 DN₁₁₀ = 1981 RZ₆ = 1989 NX₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24093629	ω	183.58811	+0.90095210	+0.41574325		
<i>a</i>	2.5578078	Ω	150.82882	-0.39149639	+0.90232575		
<i>e</i>	0.1802706	<i>i</i>	14.77080	-0.18712533	+0.11386743		
<i>P</i>	4.09	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 09 03	675	0.3-	0.3+	2000 02 26	012	0.1+	0.2-	2000 03 08	704	0.1+	0.3+
1981 09 04	675	0.3+	0.1-	2000 02 26	703	0.4-	0.4+	2000 03 08	704	0.5+	1.0+
1989 07 10	675	(1.8+	5.9+)	2000 02 26	703	0.0	0.6-	2000 03 08	704	0.2+	0.1+
1989 07 10	675	0.1-	1.2+	2000 02 26	703	0.6-	1.1+	2000 03 08	704	0.1+	1.3+
1998 12 19	704	1.0-	0.4+	2000 02 26	703	0.4+	0.1-	2000 03 09	704	0.2+	0.2+
1998 12 19	704	0.5+	0.1+	2000 03 01	012	0.3-	0.2-	2000 03 09	704	0.3+	0.6+
1998 12 19	704	1.0+	0.3+	2000 03 01	012	0.6-	0.4-	2000 03 09	704	0.0	0.7+
1998 12 19	704	(0.3-	2.4+)	2000 03 01	012	0.3-	0.3-	2000 03 09	704	0.1+	0.6+
1998 12 19	704	0.7-	0.3+	2000 03 01	012	0.2+	0.5-	2000 03 09	704	0.5+	0.6+
2000 02 11	704	0.8+	0.0	2000 03 01	012	0.1-	0.6-	2000 03 12	704	0.2+	0.5-
2000 02 11	704	0.4+	0.7-	2000 03 05	704	0.3+	0.5+	2000 03 12	704	0.2-	0.1-
2000 02 11	704	1.4-	1.1-	2000 03 05	704	0.2+	0.4+	2000 03 12	704	0.2-	0.2+

2000 02 26	012	0.0	0.3−	2000 03 05	704	0.4−	0.4−	2000 03 12	704	0.1−	0.0
2000 02 26	012	0.2+	0.5−	2000 03 05	704	0.3−	0.2−	2000 03 12	704	0.2+	0.1−
2000 02 26	012	0.4−	0.0	2000 03 05	704	0.2+	0.1+				
2000 02 26	012	0.0	0.2−	2000 03 08	704	0.1+	0.1+				

2000 EG = 1994 RD₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	298.03019	ω	276.64971	−0.47987940	+0.87687317		
<i>a</i>	2.2563604	Ω	324.62738	−0.78427689	−0.44328620		
<i>e</i>	0.1469893	<i>i</i>	2.81663	−0.39322451	−0.18598599		
<i>P</i>	3.39	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 08 10	809	0.7+	0.7+	2000 03 02	684	0.0	0.1−	2000 03 05	704	0.4−	0.1+
1994 08 10	809	0.2−	0.0	2000 03 03	704	0.3−	0.0	2000 03 05	608	0.2−	0.1+
1994 08 10	809	0.5−	0.2+	2000 03 03	704	0.2−	0.3−	2000 03 05	608	0.4−	0.5−
1994 09 03	809	1.8+	1.6−	2000 03 03	704	0.1−	0.2−	2000 03 05	608	0.4−	1.6−
1994 09 03	809	(1.9+	2.9−)	2000 03 03	704	0.3+	0.2−	2000 03 10	691	0.1−	0.2−
1994 09 03	809	0.4+	0.9−	2000 03 03	684	0.4+	0.2−	2000 03 10	691	0.1−	0.3−
1994 09 04	809	1.0+	0.7+	2000 03 03	684	0.4+	0.3−	2000 03 10	691	0.2−	0.1−
1994 09 04	809	1.5−	1.3−	2000 03 03	704	0.1+	1.1−	2000 03 11	704	0.8+	1.2+
1994 09 04	809	0.8−	0.0	2000 03 04	704	0.0	0.0	2000 03 11	704	0.4+	0.4+
2000 02 28	849	1.2−	1.6−	2000 03 04	704	0.6+	0.2−	2000 03 11	704	0.3+	0.5+
2000 02 28	849	0.8−	1.7−	2000 03 04	704	0.2−	0.1−	2000 03 11	704	0.4+	0.7+
2000 02 28	849	1.6+	0.4−	2000 03 04	704	0.2−	0.2+	2000 03 11	704	0.4−	0.1+
2000 02 29	704	0.8+	0.5−	2000 03 04	704	0.4−	0.3−	2000 03 11	699	1.0−	1.2+
2000 02 29	704	0.1+	0.1−	2000 03 05	704	0.2−	0.3+	2000 03 11	699	0.0	0.9+
2000 02 29	704	0.0	0.2−	2000 03 05	704	0.1+	0.0	2000 03 11	699	0.3−	0.9+
2000 02 29	704	0.1−	0.4−	2000 03 05	704	0.2+	0.5+	2000 03 11	699	0.2−	1.4+
2000 03 02	684	0.2+	0.1−	2000 03 05	704	0.2−	0.2+				

2000 EQ = 1998 SU₁₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25946145	ω	69.30742	−0.08477062	−0.99599147		
<i>a</i>	2.4345619	Ω	25.60619	+0.88784066	−0.08850819		
<i>e</i>	0.1496076	<i>i</i>	3.78730	+0.45227526	−0.01293381		
<i>P</i>	3.80	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 26	704	0.4−	1.1−	2000 03 02	703	0.7−	0.1−	2000 03 11	699	0.6+	0.2+
1998 09 26	704	0.6+	1.3+	2000 03 02	703	0.6−	1.3+	2000 03 11	699	0.3+	0.2+
1998 09 26	704	0.4−	0.7−	2000 03 02	703	0.7−	0.4−	2000 03 11	699	0.6+	0.2+
1998 09 26	704	1.4−	0.6−	2000 03 02	703	0.0	1.1−	2000 03 12	704	1.1−	0.9+
1998 09 26	704	(2.5−	0.5−)	2000 03 03	684	0.4+	0.0	2000 03 12	704	0.7−	1.2−
1998 09 27	704	0.8+	0.5−	2000 03 03	684	0.5+	0.0	2000 03 12	704	0.3+	0.9−
1998 09 27	704	1.9−	1.5+	2000 03 04	684	0.5+	0.0	2000 03 12	704	0.2−	0.2+
1998 09 27	704	1.4+	1.2−	2000 03 04	684	0.7+	0.1−				
1998 09 27	704	1.2+	1.3+	2000 03 11	699	0.1+	0.8+				

2000 EY = 1998 XM₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28983954	ω	348.28129	+0.99575965	+0.09179364		
<i>a</i>	2.2613318	Ω	6.46109	−0.07945754	+0.89137334		
<i>e</i>	0.1734651	<i>i</i>	3.08420	−0.04635976	+0.44387780		
<i>P</i>	3.40	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 12 14	704	0.4−	0.8+	1998 12 17	704	0.4−	0.7+	2000 03 06	120	1.5−	0.8+
1998 12 14	704	0.3−	0.0	1998 12 17	704	0.6−	0.3+	2000 03 07	120	1.3+	0.5−
1998 12 14	704	0.3−	0.7+	1998 12 17	704	0.7−	0.7+	2000 03 09	704	0.2−	0.8+
1998 12 14	704	0.7−	1.2+	1998 12 17	704	0.2−	0.3+	2000 03 09	704	0.2−	1.1+
1998 12 14	704	0.1−	0.2−	1998 12 17	704	1.2−	1.1+	2000 03 09	704	1.6+	0.5−

1998 12 16	704	0.0	0.5+	2000 03 03	120	0.8−	0.1+	2000 03 10	704	0.2+	0.3−
1998 12 16	704	1.3+	2.0−	2000 03 03	120	1.8−	0.4+	2000 03 10	704	0.9−	0.4+
1998 12 16	704	0.8+	1.2−	2000 03 05	120	0.6+	0.9−	2000 03 10	704	0.7−	0.1+
1998 12 16	704	1.8+	1.6−	2000 03 05	120	0.8+	0.2−	2000 03 10	704	0.5−	0.3+
1998 12 16	704	1.0+	1.3−	2000 03 06	120	1.9+	1.6−				

2000 EF₄ = 1993 VJ₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.36263123	ω	0.27718	+0.73403685	−0.62895472		
<i>a</i>	1.9475678	Ω	42.51750	+0.62233932	+0.47203382		
<i>e</i>	0.0856814	<i>i</i>	22.27197	+0.27181553	+0.61773783		
<i>P</i>	2.72	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1993 11 09	675	0.6−	0.3−	2000 03 03	704	0.8−	0.5+	2000 03 09	704	0.1+	0.3−
1993 11 09	675	1.9+	0.3+	2000 03 05	704	0.6+	0.2+	2000 03 09	704	0.2+	0.1+
1993 11 10	675	0.2+	0.9+	2000 03 05	704	0.5+	0.2−	2000 03 12	704	1.2+	0.1−
1993 11 10	675	1.5−	0.8−	2000 03 05	704	0.3−	0.9+	2000 03 12	704	0.2−	0.5−
2000 03 03	704	0.0	0.4+	2000 03 05	704	0.6+	0.1+	2000 03 12	704	0.7−	0.4−
2000 03 03	704	0.1−	1.2−	2000 03 05	704	0.4+	0.4−	2000 03 12	704	0.1−	0.1+
2000 03 03	704	0.3−	0.3−	2000 03 09	704	0.3−	0.5+				
2000 03 03	704	0.6−	0.1−	2000 03 09	704	0.1−	0.5+				

2000 ER₄ = 1995 GZ₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17076549	ω	145.60206	−0.99330814	−0.11531286		
<i>a</i>	3.2176290	Ω	27.77840	+0.10259877	−0.90674342		
<i>e</i>	0.1610035	<i>i</i>	0.79564	+0.05303235	−0.40560981		
<i>P</i>	5.77	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1995 04 06	809	0.2+	0.4+	2000 03 02	691	1.1+	0.7−	2000 03 04	691	0.6−	0.2−
1995 04 06	809	0.2+	0.1+	2000 03 02	691	0.6+	0.8−	2000 03 04	691	0.8−	0.3+
1995 04 06	809	0.1−	0.1−	2000 03 02	691	0.6+	0.7−	2000 03 04	691	0.6−	0.1−
1995 04 06	809	0.3−	0.1−	2000 03 03	704	0.5−	0.3+	2000 03 12	691	0.2+	0.3+
1995 04 06	809	0.0	0.3−	2000 03 03	704	0.1−	0.1+	2000 03 12	691	0.3+	0.3+
1995 04 07	809	(0.5−	5.6−)	2000 03 03	704	0.2+	0.8+	2000 03 12	691	0.3+	0.3+
1995 04 07	809	(1.3−	6.1−)	2000 03 03	704	0.8−	0.2+				

2000 ED₆ = 1996 DE₅ = 1998 XB₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26096661	ω	116.49800	−0.71812392	+0.69583330		
<i>a</i>	2.4251918	Ω	107.59779	−0.64241195	−0.65693430		
<i>e</i>	0.2056801	<i>i</i>	0.64195	−0.26759094	−0.29026426		
<i>P</i>	3.78	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 02 16	010	0.3+	0.4−	2000 02 27	703	0.3−	0.1−	2000 03 10	704	0.1+	0.3+
1996 02 16	010	0.1+	0.5+	2000 02 27	703	0.1+	0.1+	2000 03 10	704	0.0	0.0
1996 02 16	010	1.7+	0.5+	2000 02 27	703	0.1−	0.7+	2000 03 10	704	0.2+	0.1+
1996 02 17	010	0.8+	1.1+	2000 02 27	703	0.3+	0.0	2000 03 10	704	0.4+	0.3+
1996 02 17	010	0.5+	1.0+	2000 03 02	691	0.1−	1.0−	2000 03 10	704	0.4+	0.8+
1996 02 17	010	1.1+	1.8+	2000 03 02	691	0.1−	1.0−	2000 03 11	704	0.4−	0.2+
1996 03 15	566	1.1−	0.2+	2000 03 02	691	0.0	1.0−	2000 03 11	704	0.8−	0.1−
1996 03 15	566	1.6−	0.0	2000 03 03	691	0.1+	1.0−	2000 03 11	704	1.0−	1.1−
1996 03 15	566	0.8−	0.1−	2000 03 03	691	0.0	1.0−	2000 03 11	704	1.2−	0.6−
1998 12 11	691	0.1+	0.3−	2000 03 03	691	0.1−	1.0−	2000 03 11	704	1.0−	1.2−
1998 12 11	691	1.1−	0.5−	2000 03 08	704	0.7+	0.2−	2000 03 14	703	0.3+	0.7+
1998 12 11	691	0.2−	0.4−	2000 03 08	704	0.3−	0.3+	2000 03 14	703	0.1+	0.2−
1998 12 14	691	0.5+	0.7−	2000 03 08	704	0.0	0.5+	2000 03 14	703	0.3+	0.1−
1998 12 14	691	0.7+	0.9−	2000 03 08	704	0.4+	0.3+	2000 03 14	703	0.6+	0.1+
1998 12 14	691	0.7+	0.6−	2000 03 08	704	0.6−	0.6+				

2000 MAR. 20

M.P.C. 39483

2000 EL₉ = 1993 QV₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	285.59092	(2000.0)	P		Q	
<i>n</i>	0.23769518	ω	261.30228	−0.38733391	+0.92017980	
<i>a</i>	2.5810067	Ω	345.50531	−0.73087474	−0.34411815	
<i>e</i>	0.1331977	<i>i</i>	13.14848	−0.56195601	−0.18668646	
<i>P</i>	4.15	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1993 08 15	809	0.5−	0.6+	2000 02 11	704	0.2+	0.3−	2000 03 09	704	0.2+	0.0
1993 08 15	809	1.8−	0.1−	2000 02 11	704	0.6+	0.4−	2000 03 09	704	0.2+	0.1+
1993 08 15	809	1.6−	0.1+	2000 02 11	704	0.4+	0.8−	2000 03 09	704	0.6+	0.1−
1993 08 18	010	(1.6−	2.1−)	2000 02 11	704	0.3+	1.1−	2000 03 09	704	0.6+	0.1+
1993 08 19	010	0.7+	1.9−	2000 02 25	703	0.3+	1.3+	2000 03 11	704	0.6−	0.1−
1993 08 19	010	(0.9−	2.8−)	2000 02 25	703	0.1−	1.1+	2000 03 11	704	0.2−	0.0
1993 08 19	010	1.5−	1.8−	2000 02 25	703	1.8−	1.0+	2000 03 11	704	0.7−	0.1−
1993 08 20	809	(1.1+	2.2+)	2000 02 25	703	0.3−	0.2+	2000 03 11	699	1.1−	0.5+
1993 08 20	809	(1.4+	3.1+)	2000 03 03	704	0.2−	0.2+	2000 03 11	699	0.4−	0.5−
1993 08 20	809	(0.9+	2.3+)	2000 03 03	704	0.1+	0.4−	2000 03 11	704	0.3−	0.2+
1993 08 24	809	2.0+	1.2+	2000 03 03	704	0.3+	0.2−	2000 03 11	704	0.5−	0.2+
1993 08 24	809	1.3+	1.1+	2000 03 03	704	0.0	0.2−	2000 03 11	699	1.1−	0.2+
1993 08 24	809	1.4+	0.5+	2000 03 03	704	0.1+	0.4−	2000 03 11	699	1.4+	0.8−
2000 02 04	704	0.7+	0.1+	2000 03 05	704	0.6+	0.1+	2000 03 11	699	0.9−	0.5+
2000 02 04	704	0.1+	0.6−	2000 03 05	704	0.4+	0.1+	2000 03 11	699	0.8+	0.7−
2000 02 04	704	0.7+	0.8+	2000 03 05	704	0.7+	0.1+	2000 03 11	699	1.1−	0.2+
2000 02 04	704	0.8−	0.2−	2000 03 05	704	0.5+	0.1+	2000 03 11	699	0.2+	0.5−
2000 02 04	704	0.3−	0.8+	2000 03 05	704	0.3+	0.0				
2000 02 11	704	0.2+	0.8−	2000 03 09	704	0.1+	0.2+				

2000 EN₉ = 1995 FU₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	149.29073	(2000.0)	P		Q	
<i>n</i>	0.19016640	ω	212.23448	+0.99416058	−0.07698471	
<i>a</i>	2.9948853	Ω	151.88402	+0.09434484	+0.96023320	
<i>e</i>	0.0969600	<i>i</i>	9.23361	−0.05238132	+0.26837576	
<i>P</i>	5.18	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1995 03 29	691	0.1−	0.2−	1998 12 22	704	(1.2−	2.5+)	2000 03 05	704	0.4+	0.3−
1995 03 29	691	0.0	0.0	2000 02 29	704	1.3−	0.9−	2000 03 08	704	1.1−	0.3−
1995 03 29	691	0.1+	0.1+	2000 02 29	704	0.1+	0.4−	2000 03 08	704	0.1+	1.1+
1995 04 04	691	0.0	0.2+	2000 02 29	704	0.4−	0.8−	2000 03 08	704	0.6+	1.3+
1995 04 04	691	0.2−	0.2+	2000 02 29	704	0.5+	0.3+	2000 03 08	704	0.5−	0.8+
1995 04 04	691	0.1+	0.4−	2000 02 29	704	0.3−	1.3+	2000 03 09	704	0.3−	0.7−
1998 12 15	704	1.6+	0.1−	2000 03 03	704	(0.6+	2.0−)	2000 03 09	704	0.6−	0.1+
1998 12 15	704	0.1−	0.1−	2000 03 03	704	0.6+	0.5−	2000 03 09	704	0.2−	0.5−
1998 12 15	704	1.2−	0.0	2000 03 03	704	0.2−	1.0+	2000 03 11	704	1.4+	0.3−
1998 12 15	704	(3.9−	3.1+)	2000 03 03	704	0.4+	0.6−	2000 03 11	704	0.3−	0.2−
1998 12 22	704	(2.6+	0.2−)	2000 03 03	704	0.1−	0.0	2000 03 11	704	0.9+	0.0
1998 12 22	704	0.4−	0.5+	2000 03 05	704	0.0	0.6+	2000 03 11	704	0.2+	0.5−
1998 12 22	704	(0.7+	3.1−)	2000 03 05	704	(1.3−	2.3+)	2000 03 11	704	0.6+	0.2+
1998 12 22	704	0.2+	0.3−	2000 03 05	704	0.3−	0.5−				

2000 EP₁₀ = 1998 WZ

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	358.73633	(2000.0)	P		Q	
<i>n</i>	0.21019327	ω	14.46561	−0.98504310	−0.17173028	
<i>a</i>	2.8014971	Ω	155.63238	+0.15449981	−0.91650465	
<i>e</i>	0.0105939	<i>i</i>	1.95841	+0.07628830	−0.36128651	
<i>P</i>	4.69	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1998 11 17	684	0.1−	0.4+	2000 03 03	704	0.1−	0.3+	2000 03 11	704	0.2+	0.5−
1998 11 17	684	0.0	0.3+	2000 03 03	704	0.4−	0.1−	2000 03 11	699	0.2−	0.7+
1998 11 19	684	0.1+	0.4−	2000 03 03	704	0.0	0.3−	2000 03 11	704	1.2+	0.8−

1998 11 19	684	0.1+	0.3−	2000 03 03	704	0.5−	0.1+	2000 03 11	704	0.6−	0.2+
2000 02 29	704	1.5+	0.3+	2000 03 05	704	0.4+	0.4+	2000 03 11	699	0.2−	0.1+
2000 02 29	704	0.0	1.0−	2000 03 05	704	0.2−	0.9+	2000 03 11	704	0.0	0.0
2000 02 29	704	0.2−	2.8−	2000 03 05	704	0.5+	0.2−	2000 03 11	699	0.7−	0.1+
2000 03 02	703	0.6−	1.3+	2000 03 05	704	0.3+	0.1−	2000 03 11	704	0.2−	0.1−
2000 03 02	703	0.5+	0.3+	2000 03 05	704	0.0	0.1+	2000 03 11	699	0.2−	0.4+
2000 03 02	703	1.0+	0.8−	2000 03 08	704	0.4−	0.4+	2000 03 14	608	0.2+	0.2−
2000 03 02	703	1.8−	0.3+	2000 03 08	704	0.6−	0.9+	2000 03 14	608	0.1+	0.4−
2000 03 03	704	0.3+	0.1−	2000 03 08	704	0.2−	1.5+	2000 03 14	608	1.1+	0.9−

2000 EL₁₁ = 1990 OC₂ = 1997 HG₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	84.18595	(2000.0)	P		Q	
<i>n</i>	0.24210526	ω	349.19348	+0.85298646	−0.51436674	
<i>a</i>	2.5495678	Ω	42.14754	+0.48816735	+0.72620736	
<i>e</i>	0.2846824	<i>i</i>	7.58273	+0.18468009	+0.45612468	
<i>P</i>	4.07	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1990 07 29	675	0.3+	0.4+	1997 05 01	704	0.8+	0.6−	2000 03 06	704	0.5+	0.7+
1990 07 29	675	0.1+	0.2+	1999 12 08	704	1.0−	0.0	2000 03 06	704	0.1−	0.4+
1990 07 30	675	0.1−	0.2+	1999 12 08	704	0.4−	0.2+	2000 03 09	704	0.7−	0.0
1990 07 30	675	0.7−	0.3+	1999 12 08	704	0.3+	0.0	2000 03 09	704	0.3−	0.8+
1997 04 30	704	1.5−	1.8+	1999 12 08	704	0.8+	0.5−	2000 03 09	704	1.1−	1.7+
1997 04 30	704	1.9+	0.0	2000 03 04	704	0.4+	0.1+	2000 03 09	704	0.8−	1.0+
1997 04 30	704	0.3+	0.0	2000 03 04	704	1.4+	0.3+	2000 03 09	704	0.1−	0.9+
1997 04 30	704	0.1+	1.2−	2000 03 04	704	1.9+	0.7−	2000 03 11	699	0.2−	0.1−
1997 05 01	704	0.7−	0.0	2000 03 04	704	1.9+	0.5−	2000 03 11	699	0.9−	0.6−
1997 05 01	704	0.8−	0.1+	2000 03 06	704	0.2−	0.2−	2000 03 11	699	0.3−	1.4−
1997 05 01	704	0.6−	0.2−	2000 03 06	704	0.1+	0.2−	2000 03 11	699	0.9−	0.2−
1997 05 01	704	0.2+	0.2−	2000 03 06	704	0.1+	0.3−				

2000 ET₁₁ = 1998 SX₁₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	178.29288	(2000.0)	P		Q	
<i>n</i>	0.24786974	ω	324.22032	+0.86004245	+0.50978200	
<i>a</i>	2.5098844	Ω	5.26438	−0.39769043	+0.69580310	
<i>e</i>	0.0431839	<i>i</i>	13.35720	−0.31963932	+0.50594501	
<i>P</i>	3.98	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.3+	0.1+	1998 10 11	699	0.4+	0.5−	2000 03 04	704	0.2−	0.5+
1998 09 26	704	0.3+	0.4−	1998 10 11	699	0.1−	0.3−	2000 03 06	704	0.3+	0.1−
1998 09 26	704	0.5+	0.1+	1998 10 11	699	0.3−	1.0−	2000 03 06	704	0.4+	0.3−
1998 09 26	704	0.7−	1.3−	1998 11 14	704	1.3+	1.5+	2000 03 06	704	0.2−	0.1+
1998 09 26	704	0.2−	0.0	1998 11 14	704	1.3−	0.9−	2000 03 06	704	0.4+	0.0
1998 09 27	704	0.0	1.2−	1998 11 14	704	0.5−	0.2−	2000 03 06	704	0.3−	0.3+
1998 09 27	704	0.6−	1.4+	1998 11 14	704	0.6+	0.4−	2000 03 12	703	0.3+	0.5−
1998 09 27	704	0.0	0.9+	1998 11 14	704	0.3−	0.8+	2000 03 12	703	0.5−	0.3−
1998 09 27	704	0.4−	0.4+	2000 03 04	704	0.3+	0.6+	2000 03 12	703	0.1−	0.4−
1998 09 27	704	0.8+	1.0+	2000 03 04	704	0.6−	0.7+	2000 03 12	703	0.1+	0.8−

2000 EG₁₂ = 1999 AJ₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	120.27686	(2000.0)	P		Q	
<i>n</i>	0.18938687	ω	273.96795	+0.92992921	−0.31356926	
<i>a</i>	3.0030978	Ω	104.38687	+0.36309983	+0.86565904	
<i>e</i>	0.1263598	<i>i</i>	11.43925	−0.05822528	+0.39026753	
<i>P</i>	5.20	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1998 11 13	704	0.1−	0.3+	2

1998 11 13	704	(5.2– 0.2+)	2000 02 06	703	0.2– 0.1+	2000 03 11	699	0.3+ 0.0
1998 11 16	699	0.5– 0.3–	2000 02 06	703	0.2+ 0.5–	2000 03 11	699	0.3– 0.2–
1998 11 16	699	0.1+ 0.0	2000 03 04	704	0.0 0.8+	2000 03 12	703	0.5– 0.5+
1998 11 16	699	0.5+ 0.8–	2000 03 04	704	0.2+ 0.2+	2000 03 12	703	0.7– 0.5–
1999 01 10	699	0.0 0.8–	2000 03 04	704	0.6+ 0.4+	2000 03 12	704	0.4– 0.9–
1999 01 10	699	0.1+ 0.0	2000 03 04	704	0.7+ 0.6+	2000 03 12	703	0.4– 0.1–
1999 01 10	699	0.5+ 0.2+	2000 03 04	704	0.7+ 0.7+	2000 03 12	704	0.0 0.0
1999 01 15	699	0.6+ 0.3–	2000 03 06	704	0.0 0.1+	2000 03 12	703	0.7+ 0.5–
1999 01 15	699	1.2– 0.2+	2000 03 06	704	0.3– 0.2–	2000 03 12	704	0.1– 0.3–
1999 01 15	699	0.5+ 0.3+	2000 03 06	704	0.2– 0.8+	2000 03 12	704	0.1+ 0.0
2000 02 03	704	0.5+ 0.2–	2000 03 09	704	0.0 0.4+	2000 03 12	704	0.3– 0.5–
2000 02 03	704	0.0 0.1–	2000 03 09	704	0.4– 0.1+			
2000 02 03	704	0.4+ 0.0	2000 03 09	704	0.1– 0.1–			

2000 EQ₁₂ = 1998 SJ₁₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.24218472	ω	116.48390	–0.75555672	–0.65147127				
<i>a</i>	2.5490101	Ω	23.06757	+0.52110372	–0.66126181				
<i>e</i>	0.0698329	<i>i</i>	10.09777	+0.39696971	–0.37191127				
<i>P</i>	4.07	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1998 09 26	704	0.6+ 0.2+	2000 02 03	704	0.2– 0.1+	2000 03 06	704	0.3+ 0.5–
1998 09 26	704	0.6+ 1.1–	2000 02 03	704	0.4– 0.6–	2000 03 06	704	0.4– 0.2–
1998 09 26	704	1.8+ 0.3–	2000 02 03	704	0.0 0.2+	2000 03 06	704	0.4+ 0.1–
1998 09 26	704	0.2+ 0.4+	2000 02 03	704	0.5+ 0.1–	2000 03 06	704	0.2– 0.8–
1998 09 26	704	1.6– 1.1+	2000 02 03	704	0.4– 0.1–	2000 03 11	699	0.0 0.1–
1998 09 27	704	0.1+ 1.5+	2000 02 06	703	1.2– 1.4+	2000 03 11	699	0.6– 0.3+
1998 09 27	704	(2.3+ 0.6–)	2000 02 06	703	1.1– 0.5+	2000 03 11	699	0.2+ 0.1+
1998 09 27	704	1.4– 1.2–	2000 02 06	703	0.7+ 0.0	2000 03 11	699	0.1+ 0.2+
1998 09 27	704	1.7+ 0.5–	2000 02 06	703	1.2– 0.2–	2000 03 12	704	0.2+ 0.2–
1998 09 27	704	0.5+ 0.1+	2000 03 04	704	0.1+ 0.1–	2000 03 12	704	0.0 0.2–
1998 11 11	704	1.8– 1.0–	2000 03 04	704	0.2+ 0.4–	2000 03 12	704	0.5+ 0.2–
1998 11 11	704	0.9– 0.0	2000 03 04	704	0.4+ 0.1–	2000 03 12	704	0.7+ 0.1+
1998 11 11	704	0.2– 1.1+	2000 03 04	704	0.4+ 0.1+	2000 03 12	704	0.5+ 0.6+
1998 11 11	704	0.4+ 0.3–	2000 03 04	704	0.5+ 0.2+			

2000 EV₁₃ = 1993 SX₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.22192019	ω	229.62616	–0.64696374	+0.76252076				
<i>a</i>	2.7019139	Ω	0.06129	–0.65427268	–0.55502654				
<i>e</i>	0.0224078	<i>i</i>	7.47035	–0.39161867	–0.33242689				
<i>P</i>	4.44	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1993 09 16	809	0.3– 1.7+	2000 02 25	703	1.2– 0.4+	2000 03 05	704	0.4+ 0.3–
1993 09 16	809	1.1+ 0.2+	2000 02 25	703	0.8– 0.5–	2000 03 05	704	0.3– 0.8+
1993 09 16	809	0.2– 1.1+	2000 02 25	703	0.8– 1.2–	2000 03 06	704	0.8+ 0.0
1993 09 23	809	0.5+ 1.9+	2000 02 25	703	0.5– 0.4–	2000 03 06	704	0.2+ 0.1–
1993 09 23	809	0.6+ 0.7–	2000 02 27	695	0.1– 0.2–	2000 03 06	704	0.4– 0.4–
1993 09 23	809	0.0 0.1+	2000 02 27	695	0.3– 0.2–	2000 03 12	704	0.1– 0.5+
1993 09 23	675	0.1– 0.8–	2000 02 27	695	0.3– 0.3–	2000 03 12	704	0.2+ 0.3+
1993 10 14	691	0.2– 1.1–	2000 03 05	704	0.6+ 0.2–	2000 03 12	704	1.1+ 0.4+
1993 10 14	691	0.5– 1.0–	2000 03 05	704	0.0 0.1+	2000 03 12	704	0.7+ 0.5+
1993 10 14	691	1.4– 0.5–	2000 03 05	704	0.1+ 0.4+	2000 03 12	704	1.4+ 1.6+

2000 EQ₁₄ = 1997 LU₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.28183117	ω	283.14807	+0.06344361	–0.99794616				
<i>a</i>	2.3039694	Ω	163.20685	+0.92709370	+0.05565083				
<i>e</i>	0.1501819	<i>i</i>	1.75596	+0.36942140	+0.03172468				
<i>P</i>	3.50	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1997 06 07	809	0.8– 0.8+	2000 03 05	120	0.1+ 0.2+	2000 03 10	120	0.5– 1.3–
1997 06 07	809	0.7– 0.1+	2000 03 05	120	0.9– 0.4–	2000 03 11	704	0.2+ 0.2+
1997 06 07	809	0.0 1.5–	2000 03 05	120	0.2– 0.3–	2000 03 11	704	0.1+ 0.0
1997 06 08	809	0.1+ 0.5+	2000 03 06	120	1.0+ 0.7+	2000 03 11	704	0.5+ 0.7+
1997 06 08	809	0.9+ 0.0	2000 03 06	120	0.1+ 0.5–	2000 03 11	704	0.2+ 1.1+
1997 06 08	809	0.4+ 0.1+	2000 03 06	120	0.2– 0.2+	2000 03 11	704	0.6+ 1.0+
2000 02 27	703	0.7– 0.3–	2000 03 08	704	0.5+ 0.1+	2000 03 13	120	0.1– 1.2–
2000 02 27	703	0.2+ 0.2+	2000 03 08	704	0.0 0.6+	2000 03 13	120	1.2– 1.5–
2000 02 27	703	1.0– 0.9–	2000 03 08	704	0.0 0.6+	2000 03 14	120	0.0 0.7–
2000 02 27	703	1.3+ 0.2+	2000 03 10	120	0.1– 1.4+			

2000 EL₁₆ = 1998 XZ₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.18212234	ω	67.02544	+0.72969229	–0.68101418				
<i>a</i>	3.0824348	Ω	335.75672	+0.55975380	+0.64649465				
<i>e</i>	0.1127457	<i>i</i>	8.59858	+0.39271471	+0.34389583				
<i>P</i>	5.41	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1998 11 16	704	1.1+ 0.5–	2000 02 27	703	1.5– 0.2–	2000 03 08	704	0.6– 0.2–
1998 11 16	704	0.3– 0.7+	2000 02 29	704	0.3– 0.1–	2000 03 08	704	0.5– 0.1+
1998 11 16	704	0.6+ 1.8–	2000 02 29	704	0.2– 1.1–	2000 03 09	704	0.2– 0.2–
1998 11 16	704	1.1– 0.3+	2000 02 29	704	0.2+ 0.2–	2000 03 09	704	0.2– 0.4–
1998 11 16	704	(0.6– 2.4+)	2000 02 29	704	0.1+ 0.0	2000 03 09	704	0.1+ 0.5–
1998 12 14	704	0.7– 0.2–	2000 02 29	704	(0.9+ 2.4+)	2000 03 09	704	0.2– 0.0
1998 12 14	704	0.6+ 1.3–	2000 03 03	704	0.4+ 0.0	2000 03 09	704	0.2+ 0.1+
1998 12 14	704	0.4– 0.3+	2000 03 03	704	0.6+ 0.4+	2000 03 11	704	0.3+ 0.0
1998 12 14	704	1.5– 1.1+	2000 03 03	704	0.3+ 0.1+	2000 03 11	704	0.2– 0.1+
1998 12 14	704	0.5+ 1.0+	2000 03 03	704	0.5+ 0.3+	2000 03 11	704	0.1+ 0.0
1998 12 17	704	0.9– 1.6+	2000 03 03	704	0.5+ 0.2+	2000 03 11	704	0.1+ 0.1+
1998 12 17	704	0.7+ 0.1+	2000 03 06	106	0.7– 0.4–	2000 03 11	704	0.2– 0.1+
1998 12 17	704	1.3+ 1.3–	2000 03 06	106	0.4– 1.1–	2000 03 11	699	0.4+ 0.5+
1998 12 17	704	(2.4+ 2.4–)	2000 03 06	106	0.2+ 0.0	2000 03 11	699	0.3+ 0.3+
2000 02 27	703	0.1+ 0.4+	2000 03 08	704	(2.1+ 0.1+)	2000 03 11	699	0.2– 0.2–
2000 02 27	703	0.1– 0.0	2000 03 08	704	1.0+ 1.0+	2000 03 11	699	0.1– 0.2+
2000 02 27	703	0.3– 0.2+	2000 03 08	704	0.0 0.2+			

2000 EX₁₆ = 1998 XX₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.17997233	ω	197.96780	–0.99692676	+0.07015513				
<i>a</i>	3.1069354	Ω	345.91795	–0.04176159	–0.85242597				
<i>e</i>	0.0792243	<i>i</i>	8.23756	–0.06627977	–0.51811989				
<i>P</i>	5.48	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1998 12 14	704	0.1– 0.6–	2000 02 08	704	0.1– 0.7+	2000 03 11	704	0.0 0.1+
1998 12 14	704	1.2– 0.2–	2000 03 03	704	0.2+ 0.2–	2000 03 11	704	0.3– 0.1+
1998 12 14	704	0.7+ 1.0+	2000 03 03	704	0.1– 0.4–	2000 03 11	704	0.1– 0.0
1998 12 14	704	0.7– 1.6+	2000 03 03	704	0.5– 0.5–	2000 03 11	704	0.3– 0.2+
1998 12 17	704	0.9+ 1.1–	2000 03 03	704	0.7– 0.5–	2000 03 15	691	0.1+ 0.1+
1998 12 17	704	0.6+ 0.2+	2000 03 03	704	0.7– 0.7–	2000 03 15	691	0.1+ 0.2+
1998 12 17	704	(0.1– 2.8–)	2000 03 08	704	0.8+ 0.5+	2000 03 15	691	0.1+ 0.2+
1998 12 17	704	0.2– 0.8–	2000 03 08	704	0.9+ 0.5–	2000 03 15	691	0.2– 0.4+
2000 02 08	704	0.0 0.9–	2000 03 08	704	0.3+ 0.3+	2000 03 15	691	0.3– 0.2+
2000 02 08	704	0.8+ 0.3+	2000 03 08	704	0.2– 0.8–	2000 03 15	691	0.2– 0.3+
2000 02 08	704	0.1– 0.2–	2000 03 08	704	1.0+ 0.4–			
2000 02 08	704	0.3– 0.8+	2000 03 11	704	0.2– 0.5+			

2000 MAR. 20

M.P.C. 39485

2000 EH₁₇ = 1998 SF₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25369868	ω	287.95038	−0.51311474	−0.85815602		
<i>a</i>	2.4712911	Ω	192.96106	+0.81308927	−0.47972054		
<i>e</i>	0.1473166	<i>i</i>	4.29003	+0.27495291	−0.18285634		
<i>P</i>	3.88	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 20	691	0.1+	0.5−	1998 09 27	691	0.2+	0.1−	2000 03 08	704	0.9+	0.5−
1998 09 20	691	0.4−	0.2+	2000 03 03	704	0.1+	0.0	2000 03 08	704	0.3−	0.4−
1998 09 20	691	0.1−	0.7+	2000 03 03	704	0.3+	0.4+	2000 03 11	704	0.3−	0.1−
1998 09 21	691	0.5+	0.5−	2000 03 03	704	0.4−	0.9+	2000 03 11	704	0.3−	0.4+
1998 09 21	691	0.2−	0.1+	2000 03 05	608	0.7−	1.0−	2000 03 11	704	0.5−	0.1+
1998 09 21	691	0.1−	0.1−	2000 03 05	608	0.4−	0.6−	2000 03 11	704	0.1+	0.4+
1998 09 27	691	0.1+	0.2+	2000 03 05	608	0.1−	0.8−	2000 03 11	704	0.1−	0.2+
1998 09 27	691	0.1−	0.1+	2000 03 08	704	1.7+	0.9+				

2000 EJ₁₇ = 1989 GZ = 1997 OD₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26498869	ω	340.39618	−0.38455973	+0.92254472		
<i>a</i>	2.4005890	Ω	266.97672	−0.84259143	−0.36497514		
<i>e</i>	0.1756305	<i>i</i>	1.83727	−0.37703249	−0.12531711		
<i>P</i>	3.72	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1989 04 03	809	1.0−	0.6−	1997 07 31	910	0.2+	0.1−	2000 03 03	704	1.5+	0.1+
1989 04 03	809	0.5+	0.5−	1997 07 31	910	0.6+	0.1−	2000 03 03	704	0.5+	0.0
1989 04 03	809	0.3−	0.6−	1997 08 01	910	0.3−	0.1+	2000 03 08	704	0.9−	0.3−
1989 04 05	809	(4.6+	1.1−)	1997 08 02	910	0.5−	0.3+	2000 03 08	704	1.2−	0.4−
1989 04 05	809	(4.8+	1.7−)	1997 08 02	910	0.5−	0.3+	2000 03 08	704	0.8+	0.1+
1989 04 05	809	(5.3+	1.0−)	2000 02 27	703	0.0	1.2+	2000 03 08	704	0.4−	0.6−
1989 04 08	809	0.2+	0.2+	2000 02 27	703	0.5−	0.5+	2000 03 11	704	0.3+	0.4−
1989 04 08	809	0.2−	0.3+	2000 02 27	703	0.2−	0.0	2000 03 11	704	0.0	0.2+
1989 04 08	809	0.5+	0.5+	2000 02 27	703	0.8−	0.4+	2000 03 11	704	0.2+	0.2−
1997 07 30	910	0.3+	0.1+	2000 03 03	704	0.7+	0.3+	2000 03 11	704	0.4+	0.4+

2000 EM₁₇ = 1994 TK₁₀ = 1998 SG₈₂

Id. G. V. Williams, A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24405354	ω	203.51326	+0.23489695	−0.97132291		
<i>a</i>	2.5359809	Ω	232.92118	+0.89897407	+0.23149315		
<i>e</i>	0.1576418	<i>i</i>	2.64476	+0.36968777	+0.05424697		
<i>P</i>	4.04	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 10 09	691	0.2−	0.4+	1998 09 26	704	0.1−	1.6−	2000 03 08	704	0.3−	0.7+
1994 10 09	691	0.1−	0.2+	1998 09 26	704	0.8−	0.3+	2000 03 08	704	0.1+	1.3+
1994 10 09	691	0.1−	0.0	1998 09 27	704	0.2+	0.6−	2000 03 08	704	0.9−	0.0
1994 10 10	691	0.1+	0.2−	1998 09 27	704	0.3−	0.6+	2000 03 08	704	0.6−	0.9+
1994 10 10	691	0.4+	0.1+	1998 09 27	704	0.0	1.1+	2000 03 11	704	0.4+	0.2−
1994 10 10	691	0.3−	0.5−	2000 02 27	703	0.3+	0.3−	2000 03 11	704	0.1+	0.1+
1994 10 10	691	0.1+	0.1−	2000 02 27	703	0.3−	0.0	2000 03 11	704	0.3+	0.0
1994 10 10	691	0.0	0.3−	2000 02 27	703	0.1+	0.0	2000 03 11	704	0.7+	0.3−
1994 10 11	691	0.0	0.3−	2000 02 27	703	0.2+	0.3−	2000 03 11	704	0.3−	0.5+
1994 10 11	691	0.1−	0.6+	2000 03 04	704	0.3+	0.3−	2000 03 11	699	0.3−	0.2−
1994 10 11	691	0.2+	0.1+	2000 03 04	704	0.6+	0.5−	2000 03 11	699	0.3−	0.2−
1998 09 26	704	0.5+	1.1+	2000 03 04	704	0.8+	0.9−	2000 03 11	699	0.5−	0.4−
1998 09 26	704	0.5+	1.1−	2000 03 04	704	0.5−	0.2+	2000 03 11	699	0.1+	0.0
1998 09 26	704	(0.3+	2.5−)	2000 03 04	704	0.1+	0.1−				

2000 EO₁₇ = 1982 BV₅ = 1997 GF₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27552964	ω	41.65567	+0.33131797	−0.94151806		
<i>a</i>	2.3389656	Ω	29.15236	+0.82890734	+0.25935943		
<i>e</i>	0.1589736	<i>i</i>	7.24314	+0.45071168	+0.21511959		
<i>P</i>	3.58	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1982 01 26	381	0.0	0.2−	2000 02 03	704	0.2+	1.0−	2000 03 08	704	0.5+	0.6+
1982 01 26	381	0.1+	0.5+	2000 02 06	703	(2.4−	1.4+)	2000 03 08	704	0.0	0.1−
1997 04 06	704	1.0+	0.5+	2000 02 06	703	(0.5+	2.7+)	2000 03 09	704	0.2+	0.2+
1997 04 06	704	0.9+	0.8−	2000 02 06	703	0.1+	0.2−	2000 03 09	704	0.4−	0.4−
1997 04 08	704	0.4−	1.0+	2000 02 06	703	0.1+	0.0	2000 03 09	704	0.4−	0.7+
1997 04 08	704	0.3−	1.1+	2000 03 04	704	0.1−	0.4+	2000 03 09	704	0.9−	0.2+
1997 04 30	704	0.2+	0.8−	2000 03 04	704	0.4+	0.1−	2000 03 09	704	0.2−	0.8−
1997 04 30	704	0.4+	0.6+	2000 03 04	704	0.7+	0.1+	2000 03 12	703	0.6−	0.1−
1997 04 30	704	0.9−	0.0	2000 03 04	704	0.7+	0.3−	2000 03 12	703	0.8−	0.5−
1997 04 30	704	0.4−	0.6−	2000 03 08	704	0.1+	0.1+	2000 03 12	704	0.1+	0.1−
1997 04 30	704	0.8−	1.3−	2000 03 08	704	0.2−	0.5−	2000 03 12	703	0.2−	0.4−
1999 12 08	704	0.4−	1.1−	2000 03 08	704	0.6+	1.5+	2000 03 12	704	0.3−	0.6+
1999 12 08	704	0.1−	0.8−	2000 03 08	704	0.3−	0.3+	2000 03 12	703	0.9−	0.5−
1999 12 08	704	0.7−	0.5+	2000 03 08	704	0.4−	1.0+	2000 03 12	704	0.7+	0.2−
2000 02 03	704	0.6+	0.6+	2000 03 08	704	0.3−	0.8−	2000 03 12	704	0.1+	0.1−
2000 02 03	704	0.4+	0.2−	2000 03 08	704	0.1−	0.6+	2000 03 12	704	0.3+	0.4−
2000 02 03	704	0.9+	0.0	2000 03 08	704	0.1−	0.2+				

2000 EP₁₇ = 1998 SC₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26710492	ω	114.13738	−0.67579648	−0.73575286		
<i>a</i>	2.3878926	Ω	18.59883	+0.61569287	−0.59655253		
<i>e</i>	0.0763767	<i>i</i>	7.99298	+0.40524241	−0.32061317		
<i>P</i>	3.69	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 17	699	0.2−	1.8+	1999 12 08	704	1.0+	0.1−	2000 03 08	704	0.1+	0.4+
1998 09 17	699	0.1+	1.0+	2000 02 03	704	0.2+	0.1−	2000 03 08	704	0.5+	0.4+
1998 09 17	699	1.7+	0.0	2000 02 03	704	0.4+	0.1−	2000 03 08	704	0.2−	0.5+
1998 09 26	704	0.5+	0.2+	2000 02 03	704	0.6−	0.6+	2000 03 08	704	0.3−	0.7+
1998 09 26	704	0.8−	1.0−	2000 02 03	704	0.3+	0.1+	2000 03 08	704	0.4−	0.2−
1998 09 26	704	0.3+	0.3−	2000 02 03	704	0.3+	0.3+	2000 03 08	704	0.2+	0.0
1998 09 26	704	0.5+	0.4−	2000 02 06	703	0.4−	0.4−	2000 03 08	704	0.4+	0.4−
1998 09 26	704	0.4+	0.2−	2000 02 06	703	0.1−	0.3+	2000 03 08	704	0.1−	0.1−
1998 09 27	704	0.5−	0.6+	2000 02 06	703	0.6−	0.6+	2000 03 09	608	0.5+	0.1−
1998 09 27	704	0.8−	0.4−	2000 02 06	703	0.5−	0.3−	2000 03 09	608	0.4+	0.1−
1998 09 27	704	0.4−	0.5+	2000 03 04	704	0.2+	0.1+	2000 03 09	608	0.7+	0.7−
1998 09 27	704	0.1+	1.0−	2000 03 04	704	0.2+	0.2+	2000 03 12	704	0.5−	0.1+
1998 09 27	704	0.9−	1.1−	2000 03 04	704	1.2+	0.0	2000 03 12	704	0.3−	0.1−
1999 12 08	704	0.1−	0.4−	2000 03 04	704	0.4−	0.2−	2000 03 12	704	0.6−	0.6−
1999 12 08	704	0.6−	0.5−	2000 03 04	704	0.1−	0.5−	2000 03 12	704	0.3−	0.3−
1999 12 08	704	0.0	1.2+	2000 03 08	704	0.1+	0.1+	2000 03 12	704	0.9−	0.6−

2000 EY₁₇ = 1993 TA₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22490717	ω	265.17340	+0.14894587	+0.98691680		
<i>a</i>	2.6779380	Ω	13.85981	−0.77398883	+0.15520682		
<i>e</i>	0.1078925	<i>i</i>	14.93283	−0.61543190	+0.04365850		
<i>P</i>	4.38	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 10

M.P.C. 39486

1993 10 22	809	0.4+	0.6−	2000 03 04	704	0.3+	0.1−	2000 03 12	704	0.6+	0.7+
1993 10 22	809	1.1−	0.7−	2000 03 04	704	0.3+	0.2−	2000 03 12	704	0.1−	0.1+
1993 10 22	809	0.6−	1.1−	2000 03 04	704	0.3+	0.3−	2000 03 12	704	0.3−	0.5+
2000 02 03	704	0.3−	0.3+	2000 03 04	704	0.5+	0.1−	2000 03 12	704	0.2+	0.4+
2000 02 03	704	0.0	0.0	2000 03 08	704	0.8+	0.1+	2000 03 12	704	0.2+	0.2+
2000 02 03	704	0.5−	0.7−	2000 03 08	704	0.2+	0.0				

2000 EE₁₈ = 1998 VA₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	17.58461		(2000.0)	P	Q		
<i>n</i>	0.23200731	<i>ω</i>	100.62680	−0.78079802	−0.60657891		
<i>a</i>	2.6230200	<i>Ω</i>	42.25467	+0.44986494	−0.71211315		
<i>e</i>	0.1065721	<i>i</i>	12.86520	+0.43356197	−0.35349242		
<i>P</i>	4.25	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	0.3−	1.2−	2000 02 03	704	1.5+	0.5−	2000 03 09	704	0.1−	0.4−
1998 11 10	704	1.2+	1.1−	2000 02 03	704	0.2−	1.1+	2000 03 09	704	0.3−	0.2−
1998 11 10	704	0.3−	0.8−	2000 03 04	704	0.4+	0.0	2000 03 09	704	0.3−	0.2−
1998 11 10	704	0.6−	0.3−	2000 03 04	704	0.3+	0.8−	2000 03 09	704	0.4−	0.3−
1998 11 11	704	0.6+	0.7+	2000 03 04	704	0.6+	0.2+	2000 03 09	704	0.2+	0.0
1998 11 11	704	0.6+	1.1+	2000 03 04	704	0.5+	0.3−	2000 03 12	704	0.1−	0.5−
1998 11 11	704	0.9−	1.3+	2000 03 04	704	0.3+	0.1−	2000 03 12	704	0.8−	0.4+
1998 11 11	704	(0.5+ 2.4−)		2000 03 08	704	0.5+	0.2−	2000 03 12	704	0.6−	0.0
2000 02 03	704	0.7−	0.0	2000 03 08	704	0.1−	0.1−	2000 03 12	704	0.1+	1.0+
2000 02 03	704	0.3−	0.5+	2000 03 08	704	0.2−	0.1−	2000 03 12	704	0.3−	0.1+
2000 02 03	704	0.0	0.1+	2000 03 08	704	0.0	0.2+				

2000 EL₁₈ = 4047 T-1 = 1998 XN₁₉ = 1999 CE₁₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	331.44602		(2000.0)	P	Q		
<i>n</i>	0.20171006	<i>ω</i>	102.91200	−0.99765211	+0.04168066		
<i>a</i>	2.8795039	<i>Ω</i>	79.49608	−0.06022686	−0.91170226		
<i>e</i>	0.0128693	<i>i</i>	3.16822	+0.03260371	−0.40873183		
<i>P</i>	4.89	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1971 03 24	675	2.1+	2.0−	1999 02 14	691	0.3−	0.0	2000 03 08	704	0.5+	0.3+
1971 03 26	675	1.8−	1.9−	1999 02 14	691	0.0	0.3−	2000 03 09	704	0.2+	0.5−
1971 03 26	675	0.4+	0.6+	2000 02 25	703	0.4−	0.3−	2000 03 09	704	0.3−	0.5+
1971 03 27	675	(3.7+ 2.3−)		2000 02 25	703	0.1+	0.1−	2000 03 09	704	0.1−	0.1+
1971 03 27	675	2.1−	2.4−	2000 02 25	703	0.5+	1.6+	2000 03 09	704	0.8+	0.6+
1971 04 02	675	1.3−	0.5−	2000 02 25	703	0.6+	0.8+	2000 03 09	704	0.1+	0.2−
1998 12 10	691	0.4+	0.2−	2000 03 05	704	0.0	0.7+	2000 03 11	699	0.9−	0.5+
1998 12 10	691	0.1+	0.4−	2000 03 05	704	0.2+	0.2−	2000 03 11	699	0.3+	0.2−
1998 12 10	691	0.5+	0.3+	2000 03 05	704	0.7−	0.7+	2000 03 11	699	0.6−	0.9−
1998 12 15	691	0.2−	0.7−	2000 03 05	704	0.4−	0.8+	2000 03 11	699	0.4+	0.0
1998 12 15	691	0.1−	0.5−	2000 03 05	704	0.1−	0.5+	2000 03 12	704	0.8+	0.1−
1999 02 09	691	0.4−	0.9−	2000 03 08	704	0.7+	0.5+	2000 03 12	704	1.4−	0.3+
1999 02 09	691	0.2+	0.5−	2000 03 08	704	0.2+	0.2+	2000 03 12	704	0.8+	0.2+
1999 02 09	691	1.3+	0.6−	2000 03 08	704	0.4+	0.7−	2000 03 12	704	0.2+	0.4+
1999 02 14	691	0.4−	0.1−	2000 03 08	704	0.1+	0.2+	2000 03 12	704	0.2+	0.1+

2000 EO₁₈ = 1992 DW₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	331.89285		(2000.0)	P	Q		
<i>n</i>	0.24356432	<i>ω</i>	116.01941	−0.99676764	+0.06833171		
<i>a</i>	2.5393756	<i>Ω</i>	67.92304	−0.07970078	−0.90719795		
<i>e</i>	0.0393381	<i>i</i>	2.61317	+0.01010207	−0.41511765		
<i>P</i>	4.05	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1992 02 29	809	0.3+	1.2−	2000 02 25	703	0.3+	0.4+	2000 03 08	704	0.1−	0.1−
1992 03 03	809	0.5−	0.7+	2000 02 25	703	0.4+	0.8+	2000 03 09	704	0.1−	0.4+
2000 02 02	703	1.1−	0.2−	2000 02 25	703	0.1+	0.8+	2000 03 09	704	0.4+	0.2−

2000 MAR. 20

2000 02 02	703	0.7+	0.3+	2000 03 05	704	0.6+	0.1−	2000 03 09	704	0.5+	0.7−
2000 02 02	703	0.7+	0.1+	2000 03 05	704	1.0+	0.1−	2000 03 09	704	0.2+	0.2−
2000 02 02	703	0.3−	0.2−	2000 03 05	704	0.7−	0.5−	2000 03 09	704	0.9+	0.4−
2000 02 11	704	0.1−	1.0−	2000 03 05	704	0.7+	0.3+	2000 03 12	704	0.6−	0.3+
2000 02 11	704	0.7+	0.4−	2000 03 05	704	1.6−	0.2+	2000 03 12	704	0.6−	0.6+
2000 02 11	704	0.4+	0.0	2000 03 08	704	0.3+	0.6+	2000 03 12	704	0.4−	0.3−
2000 02 11	704	0.2+	0.4+	2000 03 08	704	0.5+	0.3−	2000 03 12	704	0.3+	0.3−
2000 02 11	704	1.3−	0.9−	2000 03 08	704	0.8−	0.1+				
2000 02 25	703	0.7−	0.9+	2000 03 08	704	0.4−	0.3+				

2000 EG₁₉ = 2253 T-1 = 1978 NC₆ = 1997 GO

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	257.14943		(2000.0)	P	Q		
<i>n</i>	0.30448882	<i>ω</i>	184.80018	+0.19061622	+0.98051171		
<i>a</i>	2.1882074	<i>Ω</i>	96.19413	−0.89905970	+0.19382527		
<i>e</i>	0.1636620	<i>i</i>	2.74221	−0.39415365	+0.03207113		
<i>P</i>	3.24	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1971 03 25	675	0.1−	0.7−	1997 04 06	566	0.2+	0.6+	2000 03 09	704	0.2−	0.1+
1971 03 25	675	0.3−	0.2−	1997 04 06	566	0.1−	0.5+	2000 03 09	704	0.0	0.1−
1971 03 26	675	0.1+	1.2−	1997 04 06	566	0.2+	0.8+	2000 03 09	704	0.4+	0.2−
1971 03 27	675	1.3−	1.7−	2000 03 05	704	0.3+	0.6−	2000 03 09	704	1.5+	0.5+
1971 04 02	675	(4.9+ 1.6−)		2000 03 05	704	0.1−	0.4+	2000 03 09	704	0.4−	0.1−
1978 07 10	675	(3.1− 4.2−)Y		2000 03 05	704	0.1+	0.3−	2000 03 12	704	0.5−	0.0
1978 07 11	675	(11.0+ 3.6+)Y		2000 03 05	704	0.4+	0.1−	2000 03 12	704	0.1+	0.3+
1978 07 13	675	0.2+	0.8−	Y 2000 03 05	704	0.7−	0.2+	2000 03 12	704	0.2+	0.3+
1997 04 05	566	0.6+	0.5+	2000 03 08	704	0.1+	0.3−	2000 03 12	704	0.6+	0.4−
1997 04 05	566	0.4+	0.5+	2000 03 08	704	0.7−	1.5+	2000 03 12	704	0.1−	0.1+
1997 04 05	566	0.2+	0.4+	2000 03 08	704	0.9−	0.9−				

2000 EH₁₉ = 1981 UE₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	116.09818		(2000.0)	P	Q		
<i>n</i>	0.28619154	<i>ω</i>	22.75646	+0.85921562	−0.51138456		
<i>a</i>	2.2805076	<i>Ω</i>	8.05125	+0.45097316	+0.74290526		
<i>e</i>	0.1503429	<i>i</i>	6.27499	+0.24160241	+0.43194630		
<i>P</i>	3.44	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1981 10 24	675	0.0	0.0	2000 03 08	704	0.7−	0.1+	2000 03 09	704	0.3−	0.0
1981 10 25	675	0.4+	0.1−	2000 03 08	704	0.9+	0.3−	2000 03 09	704	0.1+	0.6−
1981 10 26	675	0.4−	0.1+	2000 03 08	704	0.3+	0.9−	2000 03 12	704	0.2+	0.3−
2000 03 05	704	0.5+	0.4+	2000 03 08	704	0.4+	0.3−	2000 03 12	704	0.7+	0.1−
2000 03 05	704	0.2+	0.3+	2000 03 08	704	0.2−	0.6+	2000 03 12	704	0.6−	0.7+
2000 03 05	704	0.4+	0.6+	2000 03 09	704	0.0	0.0	2000 03 12	704	0.1−	0.1+
2000 03 05	704	0.3+	0.1+	2000 03 09	704	0.9−	0.2−	2000 03 12	704	0.3−	0.6+
2000 03 05	704	1.1−	0.6−	2000 03 09	704	0.2+	0.1−				

2000 EN₁₉ = 1997 MJ₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	128.77964		(2000.0)	P	Q		
<i>n</i>	0.22355716	<i>ω</i>	281.08783	+0.91952822	−0.38388241		
<i>a</i>	2.6887081	<i>Ω</i>	101.52989	+0.38575311	+0.84047090		
<i>e</i>	0.1213708	<i>i</i>	4.93410	+0.07524882	+0.38241725		
<i>P</i>	4.41	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 06 28	704	0.0	0.6+	1998 11 18	704	0.4+	0.6+	2000 03 05	704

2000 MAR. 20

M.P.C. 39487

1997 06 29	704	0.0	1.0+	2000 02 04	704	0.3+	0.4+	2000 03 08	704	0.7-	0.3+
1997 07 02	704	0.3-	0.4+	2000 02 04	704	0.3-	1.0+	2000 03 09	704	0.1+	0.2+
1997 07 02	704	0.0	0.2+	2000 02 04	704	0.7+	0.9+	2000 03 09	704	0.5-	0.3+
1997 07 02	704	0.0	0.1-	2000 02 04	704	0.0	0.4-	2000 03 09	704	0.5+	0.2+
1997 07 02	704	0.3+	0.4+	2000 02 04	704	0.5-	0.2+	2000 03 09	704	0.3+	0.1+
1998 11 11	699	0.2-	0.4+	2000 03 03	608	1.0-	0.7-	2000 03 09	704	0.4+	0.4-
1998 11 11	699	0.5-	0.3-	2000 03 03	608	1.1-	0.4+	2000 03 12	704	0.4+	0.6-
1998 11 11	699	0.3-	0.5-	2000 03 03	608	0.3-	1.6-	2000 03 12	704	0.4-	0.3-
1998 11 18	704	1.3+	0.5-	2000 03 05	704	0.2-	0.1+	2000 03 12	704	0.8+	0.3+
1998 11 18	704	0.7+	0.3-	2000 03 05	704	0.3+	0.1-	2000 03 12	704	0.2+	0.3+

2000 EU₁₉ = 1993 SF₁₅ = 1998 XL₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	133.89771		(2000.0)	P	Q
n	0.21637717	ω	333.83990	+0.87509071	-0.46341976
a	2.7478631	Ω	54.46935	+0.46863723	+0.73947087
e	0.1625334	i	9.86974	+0.12081142	+0.48828778
P	4.56	H	13.7	G 0.15	U 3

Residuals in seconds of arc

1993 09 18	675	0.3-	0.6+	1998 12 17	704	0.7-	0.9-	2000 03 08	704	0.5-	0.2-
1993 09 18	675	0.1+	0.7-	1998 12 17	704	0.5-	0.0	2000 03 08	704	0.2+	0.2-
1993 09 23	675	0.1-	0.3-	1999 01 11	704	0.6+	1.1+	2000 03 08	704	0.0	0.0
1993 09 23	675	0.0	1.0+	1999 01 11	704	0.6+	0.8-	2000 03 09	704	0.2-	0.2-
1998 12 14	704	0.1+	0.0	1999 01 11	704	0.1-	0.7+	2000 03 09	704	1.1+	1.1+
1998 12 14	704	0.2+	0.1-	1999 01 11	704	0.1+	1.6+	2000 03 09	704	0.1+	0.1-
1998 12 14	704	0.2-	1.2+	1999 01 11	704	(3.9-	1.1+)	2000 03 09	704	0.1-	0.4+
1998 12 14	704	0.1+	1.3-	2000 03 05	704	0.7-	0.6-	2000 03 09	704	0.2+	0.1+
1998 12 14	704	0.3-	0.6-	2000 03 05	704	1.3-	0.6-	2000 03 12	704	0.1-	0.4-
1998 12 17	704	0.1+	0.2+	2000 03 05	704	0.2-	0.7+	2000 03 12	704	0.7+	0.0
1998 12 17	704	0.1-	0.4-	2000 03 08	704	0.2+	0.1-	2000 03 12	704	0.3-	0.7+
1998 12 17	704	0.1+	0.5-	2000 03 08	704	1.0+	0.3-				

2000 EC₂₀ = 1994 WE₆ = 1996 CH₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	303.33448		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.27373205	ω	67.50092	-0.19483231	+0.98081172
a	2.3491944	Ω	191.27089	-0.91251720	-0.18386673
e	0.1839888	i	2.04698	-0.35965641	-0.06481814
P	3.60	H	15.3	G 0.15	U 3

Residuals in seconds of arc

1994 11 28	691	0.3-	0.5+	2000 03 03	120	0.4+	0.5-	2000 03 09	704	0.7+	0.2-
1994 11 28	691	0.5-	0.2-	2000 03 03	120	1.0-	0.0	2000 03 09	704	0.2+	0.4-
1994 11 28	691	0.3-	0.1+	2000 03 03	120	1.1-	1.2+	2000 03 09	704	0.7+	0.8+
1994 12 03	691	0.3+	0.6+	2000 03 04	703	0.2-	0.9+	2000 03 09	704	0.7+	0.0
1994 12 03	691	0.1+	0.6+	2000 03 04	703	1.0+	0.9+	2000 03 09	704	0.5+	0.3+
1994 12 03	691	0.1+	0.5+	2000 03 04	703	0.6+	0.7+	2000 03 10	704	0.2+	0.2+
1996 02 10	691	0.1+	0.4+	2000 03 04	703	0.4-	1.0-	2000 03 10	704	0.4+	0.0
1996 02 10	691	0.1-	0.4+	2000 03 06	120	(2.1+	0.5-)	2000 03 10	704	0.1+	0.4+
1996 02 10	691	0.2-	0.2+	2000 03 06	120	0.9+	0.4-	2000 03 10	704	0.2-	0.2+
1996 02 16	691	0.4-	1.2-	2000 03 07	120	0.9+	0.8+	2000 03 17	120	2.0-	0.5-
1996 02 16	691	0.2-	1.2-	2000 03 09	120	0.1+	0.1+	2000 03 17	120	(2.9-	1.3-)
1996 02 16	691	0.3+	0.8-	2000 03 09	120	1.3-	0.9-	2000 03 18	120	(0.4+	2.4+)

2000 EK₂₀ = 1998 VX₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	122.17800		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.22051481	ω	147.42597	+0.95901575	-0.23770831
a	2.7133816	Ω	227.14231	+0.19324204	+0.94673502
e	0.2069198	i	12.14471	+0.20723488	+0.21722698
P	4.47	H	14.1	G 0.15	U 3

Residuals in seconds of arc

1998 08 31	704	1.1+	1.4+	1998 11 11	704	0.3-	0.5+	2000 03 03	703	0.3-	0.7-
1998 08 31	704	0.5+	0.1-	1998 11 11	704	0.6+	0.1+	2000 03 04	703	0.3-	0.3-
1998 08 31	704	0.4-	0.1+	1998 11 11	704	0.7+	0.5-	2000 03 04	703	0.4+	1.5-
1998 08 31	704	1.3-	0.7-	1998 11 11	704	1.0+	0.1-	2000 03 04	703	0.3+	0.4-
1998 08 31	704	(2.8+	1.3-)	1998 12 08	704	1.4+	1.1-	2000 03 04	703	0.0	0.8+
1998 10 19	699	0.2-	0.0	1998 12 08	704	0.3-	0.1+	2000 03 08	704	0.1+	0.4+
1998 10 19	699	0.1+	0.3-	1998 12 08	704	(2.3-	0.3-)	2000 03 08	704	0.7-	0.6-
1998 10 19	699	0.0	0.6-	1998 12 08	704	(0.6-	3.1-)	2000 03 08	704	1.6+	0.3-
1998 11 10	704	0.7-	0.8+	1998 12 08	699	0.1+	0.5+	2000 03 08	704	0.5+	0.9+
1998 11 10	704	0.4-	0.3+	1998 12 08	699	0.7-	0.7+	2000 03 08	704	1.1-	0.5+
1998 11 10	704	0.4-	0.6-	1998 12 08	699	0.6-	0.5+	2000 03 13	704	0.1+	0.3+
1998 11 10	704	0.1-	0.5-	2000 03 03	703	0.1+	0.1+	2000 03 13	704	0.2-	0.8+
1998 11 10	704	0.0	1.0-	2000 03 03	703	0.5-	0.5+	2000 03 13	704	0.2+	0.3-
1998 11 11	704	0.2-	0.8+	2000 03 03	703	0.2+	0.0				

2000 EL₂₀ = 1976 UM₉ = 1998 SR₁₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	15.75517		(2000.0)	P	Q
n	0.22357647	ω	285.12880	-0.67640287	-0.73077386
a	2.6885533	Ω	208.11779	+0.72819517	-0.64479524
e	0.1340735	i	11.24673	+0.11050314	-0.22407290
P	4.41	H	14.5	G 0.15	U 2

Residuals in seconds of arc

1976 10 22	381	0.7+	1.2+	1998 11 10	704	0.4-	0.9+	2000 03 03	703	0.4-	0.3-
1976 10 22	381	0.8-	0.1+	1998 11 10	704	1.3+	1.7+	2000 03 03	703	1.6-	0.7+
1996 03 26	809	0.2+	1.4+	1998 11 10	704	(1.1-	3.0-)	2000 03 03	703	0.0	0.9-
1996 03 26	809	(1.0-	2.6+)	1998 11 10	704	1.0+	0.3+	2000 03 03	703	0.2+	0.6-
1996 03 26	809	0.0	1.9+	1999 12 14	704	0.7-	0.3-	2000 03 04	703	0.2+	0.1+
1998 09 26	704	1.0-	1.5+	1999 12 14	704	1.4-	0.1+	2000 03 04	703	0.3-	0.4-
1998 09 26	704	0.8+	0.5-	1999 12 14	704	1.0-	0.7-	2000 03 04	703	0.4-	0.4-
1998 09 26	704	0.3+	0.5-	1999 12 14	704	0.4+	0.1-	2000 03 04	703	0.7+	0.1-
1998 09 26	704	0.6-	0.1-	1999 12 14	704	1.9-	0.8-	2000 03 08	704	0.2+	0.0
1998 09 26	704	(4.1-	0.7+)	2000 02 07	703	1.0-	0.4-	2000 03 08	704	0.1-	0.4-
1998 09 27	704	0.7-	0.3-	2000 02 07	703	0.4+	0.4-	2000 03 08	704	0.6-	0.6-
1998 09 27	704	(3.8+	1.5+)	2000 02 07	703	0.1+	1.6+	2000 03 08	704	0.4-	0.1+
1998 09 27	704	0.2+	0.1+	2000 02 07	703	1.0+	1.3+	2000 03 08	704	0.3+	0.0
1998 09 27	704	0.4+	0.0	2000 02 08	704	0.3+	0.0	2000 03 13	704	0.8-	1.0+
1998 09 27	704	0.5+	0.6-	2000 02 08	704	0.4+	0.5+	2000 03 13	704	0.0	1.1-
1998 10 17	699	0.7-	0.8+	2000 02 08	704	0.9+	0.5+	2000 03 13	704	1.6+	0.3+
1998 10 17	699	0.7-	0.4-	2000 02 08	704	0.9+	0.3+	2000 03 13	704	0.3+	0.3+
1998 10 17	699	0.6-	0.6-	2000 02 08	704	1.4+	0.5+				

2000 EO₂₀ = 1997 TV₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	290.83780		(2000.0)	P	Q
n	0.17317653	ω	25.36628	-0.62028593	+0.77528913
a	3.1876945	Ω	206.79576	-0.75712663	-0.63145795
e	0.0821852	i	15.31183	-0.20495031	-0.01369750
P	5.69	H	12.9	G 0.15	U 3

Residuals in seconds of arc

1997 10 03	910	0.1+	0.9+	2000 02 07	703	0.6+	0.3-	2000 03 04	703	0.3+	0.0
1997 10 03	910	0.2+	1.1+	2000 02 07	703	0.5+	0.4-	2000 03 09	704	0.2+	0.4+
1997 10 03	910	0.0	0.7+	2000 02 10	704	0.0	0.2+	2000 03 09	704	0.2-	0.3+
1997 10 04	910	0.2-	0.6+	2000 02 10	704	0.6+	0.3+	2000 03 09	704	0.3+	0.5+
1997 10 04	910	0.1-	0.6+	2000 02 10	704	0.1-	0.4-	2000 03 09	704	0.4+	0.1+
1997 10 04	910	0.2-	0.6+	2000 02 10	704	0.4+	0.7+	2000 03 09	704	0.0	0.2+
1998 12 22	704	1.0+	1.7-	2000 03 03	703	0.2-	0.3-	2000 03 13	704	0.2+	0.4-
1998 12 22	704	0.0	0.2+	2000 03 03	703	0.6-	0.3+	2000 03 13	704	0.4-	0.5+
1998 12 22	704	0.2-	0.1-	2000 03 03	703	0.1+	0.1-	2000 03 13	704	0.0	1.3+
1998 12 22	704	0.5+	0.0	2000 03 03	703	0.3-	0.3-	2000 03 13	704	0.4-	0.4+
1998 12 22	704	1.9-	1.4-	2000 03 04	703	0.2-	0.2+	2000 03 13	704	0.1-	1.2+
2000 02 07	703	0.6+	0.5-	2000 03 04	703	0.1+	0.1-				
2000 02 07	703	0.3-	0.1-	2000 03 04	703	0.4-	0.5+				

2000 EF₂₁ = 1987 SB₂₀ = 1991 LB₃ = 1998 YL₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	135.03055		(2000.0)		P		Q
<i>n</i>	0.19084067	ω	135.76489	+0.94271554			-0.29923352
<i>a</i>	2.9878269	Ω	242.18014	+0.24059298			+0.91607510
<i>e</i>	0.1203859	<i>i</i>	9.59830	+0.23108964			+0.26695637
<i>P</i>	5.16	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1987 09 17	095	(0.4- 3.7+)	2000 02 07	703	0.1+	0.1+	2000 03 09	704	0.2-	0.2+
1987 09 26	095	0.8- 2.4+	2000 02 07	703	0.2-	0.1-	2000 03 09	704	0.5-	0.1+
1991 06 06	809	0.0 1.6+	2000 02 07	703	0.0	0.1-	2000 03 09	704	0.1+	0.1+
1991 06 06	809	0.3- 1.5+	2000 02 08	704	0.2+	0.2-	2000 03 12	704	0.0	0.5+
1991 06 06	809	0.9- 1.1+	2000 02 08	704	0.5+	0.6-	2000 03 12	704	0.2+	0.4+
1991 06 08	809	0.7+ 1.0+	2000 02 08	704	1.0+	0.1-	2000 03 12	704	0.1-	0.1+
1991 06 08	809	0.2+ 1.1+	2000 02 08	704	1.0+	0.8-	2000 03 12	704	0.3+	0.0
1991 06 08	809	0.2+ 1.3+	2000 02 08	704	0.2-	0.7-	2000 03 12	704	0.3+	0.5+
1998 12 16	704	0.8- 0.7+	2000 03 03	703	0.0	0.4+	2000 03 13	704	0.1+	0.1-
1998 12 16	704	(0.1- 3.3+)	2000 03 03	703	0.3-	0.6-	2000 03 13	704	0.3-	0.3-
1998 12 16	704	0.3+ 1.8+	2000 03 03	703	0.2+	0.0	2000 03 13	704	0.3-	0.0
1998 12 16	704	0.5+ 1.3+	2000 03 03	703	0.3-	0.2+	2000 03 13	704	0.0	0.1+
1998 12 16	704	1.0+ 1.7+	2000 03 04	703	0.2-	0.2+	2000 03 14	703	0.3+	0.4+
1998 12 22	704	0.5- 0.2+	2000 03 04	703	0.4+	0.5+	2000 03 14	703	0.2+	0.1-
1998 12 22	704	0.1+ 0.3+	2000 03 04	703	0.7-	0.3+	2000 03 14	703	0.4-	0.3+
1998 12 22	704	0.1- 0.3+	2000 03 04	703	0.2-	0.3-	2000 03 14	703	0.1-	0.5+
1998 12 22	704	0.2- 0.3+	2000 03 09	704	0.3+	0.4+				
2000 02 07	703	0.1- 0.4-	2000 03 09	704	0.1-	0.5+				

2000 ET₂₁ = 1996 FB = 1998 SK₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	55.24788		(2000.0)		P		Q
<i>n</i>	0.23761852	ω	83.70645	+0.10370795			-0.99460332
<i>a</i>	2.5815618	Ω	0.38122	+0.63872269			+0.06430149
<i>e</i>	0.2086296	<i>i</i>	26.62405	+0.76241589			+0.08142203
<i>P</i>	4.15	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 03 16	566	0.4+ 0.8-	1998 09 25	704	0.3-	0.1-	2000 03 05	608	0.5-	0.8-
1996 03 16	566	0.5+ 0.4-	1998 09 25	704	0.3-	0.3-	2000 03 05	608	0.1-	0.7-
1996 03 16	566	0.8+ 0.5-	1998 09 25	704	0.5-	0.3+	2000 03 05	608	0.4-	0.5-
1996 03 17	566	0.3- 0.3+	1998 09 25	704	0.1-	0.6+	2000 03 09	704	0.5-	0.2+
1996 03 17	566	0.7- 0.2+	1998 09 27	704	0.1+	0.2+	2000 03 09	704	0.0	0.4+
1996 03 17	566	0.2+ 0.0	1998 09 27	704	(2.2- 1.4+)		2000 03 09	704	0.0	0.6+
1996 03 18	566	0.2- 0.4+	1998 09 27	704	0.7+	0.1+	2000 03 09	704	0.2+	0.5+
1996 03 18	566	0.1- 0.6+	1998 09 27	704	0.5-	0.4+	2000 03 09	704	0.2+	0.4+
1996 03 18	566	0.4+ 1.0+	2000 03 05	704	0.3-	0.2-	2000 03 12	704	0.3+	0.5+
1996 03 21	566	(1.4+ 2.3+)	2000 03 05	704	0.4+	0.1+	2000 03 12	704	0.8+	0.1+
1996 03 21	566	(0.9+ 2.7+)	2000 03 05	704	0.3-	0.4-	2000 03 12	704	0.3+	0.0
1996 03 21	566	(1.0+ 2.5+)	2000 03 05	704	0.0	0.5-	2000 03 12	704	0.1+	0.9+
1998 09 25	704	1.5- 1.0+	2000 03 05	704	0.9+	0.2-	2000 03 12	704	0.3+	1.0+

2000 EY₂₃ = 1996 HR₁₇ = 1998 SX₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	24.28717		(2000.0)		P		Q
<i>n</i>	0.23288659	ω	308.82651	-0.69606290			-0.71796120
<i>a</i>	2.6164136	Ω	185.29496	+0.67526958			-0.65212666
<i>e</i>	0.2489487	<i>i</i>	3.29630	+0.24394143			-0.24343898
<i>P</i>	4.23	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 18	809	0.3+ 1.5+	1998 09 27	691	0.9-	1.1+	2000 03 10	704	0.7+	0.3+
1996 04 18	809	0.0 0.7+	1998 09 27	691	0.7-	1.1+	2000 03 10	704	1.3+	0.1+
1996 04 18	809	0.3+ 0.4+	2000 03 05	608	0.9-	0.3-	2000 03 10	704	0.6+	0.2-
1996 04 18	691	(2.9- 3.5-)	2000 03 05	608	0.6-	0.5+	2000 03 11	704	(2.3+ 0.1+)	
1996 04 18	691	(2.8- 3.2-)	2000 03 05	608	0.7-	0.0	2000 03 11	704	0.6+	0.2+

1996 04 18	691	(2.7- 3.5-)	2000 03 08	691	0.5-	0.1+	2000 03 11	691	0.1-	0.1+
1996 04 20	809	0.8- 0.6-	2000 03 08	691	0.6-	0.2+	2000 03 11	704	0.2+	0.2+
1996 04 20	809	0.6+ 1.0-	2000 03 08	691	0.6-	0.2+	2000 03 11	704	0.4+	0.2+
1996 04 20	809	0.1- 0.6+	2000 03 09	691	0.4-	0.1+	2000 03 11	691	0.1-	0.2+
1998 09 21	691	0.2+ 0.4+	2000 03 09	691	0.5-	0.1+	2000 03 11	704	0.1+	0.0
1998 09 21	691	0.1+ 1.0+	2000 03 09	691	0.3-	0.1+	2000 03 11	691	0.1-	0.0
1998 09 21	691	0.2- 0.9+	2000 03 10	704	1.4+	0.4+				
1998 09 27	691	0.5- 0.9+	2000 03 10	704	1.2+	0.9+				

2000 EP₂₅ = 1998 SJ₉₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	62.85530		(2000.0)		P		Q
<i>n</i>	0.26486228	ω	87.34369	-0.13909332			-0.99025888
<i>a</i>	2.4013528	Ω	10.65801	+0.89436197			-0.12837397
<i>e</i>	0.1552676	<i>i</i>	1.96943	+0.42517022			-0.05392099
<i>P</i>	3.72	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 09 26	704	0.5+ 0.3+	2000 03 04	688	0.2+	0.7+	2000 03 10	704	1.0-	0.3-
1998 09 26	704	0.2+ 1.6+	2000 03 08	691	0.2-	0.2-	2000 03 11	704	1.4+	0.0
1998 09 26	704	1.6+ 1.1-	2000 03 08	691	0.6+	0.5-	2000 03 11	704	0.6+	0.9+
1998 09 26	704	0.8- 0.6-	2000 03 08	691	0.5-	0.4-	2000 03 11	704	1.2+	0.3+
1998 09 26	704	0.2- 1.6-	2000 03 09	691	0.0	0.3-	2000 03 11	704	0.7+	0.4+
1998 09 27	704	0.3- 0.3+	2000 03 09	691	0.3-	0.3-	2000 03 11	704	0.6-	0.1-
1998 09 27	704	(0.5- 2.3+)	2000 03 09	691	0.1-	0.2-	2000 03 11	704	0.3+	1.0+
1998 09 27	704	0.8+ 0.7+	2000 03 10	704	0.6+	0.3-	2000 03 11	704	2.0-	1.2-
1998 09 27	704	1.6- 0.0	2000 03 10	704	0.2+	0.4+	2000 03 11	704	0.5-	1.9-
2000 03 04	688	0.1- 0.6+	2000 03 10	704	0.5-	0.9+				

2000 EV₂₆ = 1992 FR₃ = 1993 SS₃ = 1998 VA₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	80.72676		(2000.0)		P		Q
<i>n</i>	0.37130752	ω	265.63299	+0.00358593			-0.99952070
<i>a</i>	1.9171094	Ω	184.51853	+0.99994983			+0.00387167
<i>e</i>	0.0738562	<i>i</i>	22.97375	+0.00935272			-0.03071449
<i>P</i>	2.65	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 03 30	033	0.3+ 0.4-	1998 11 14	703	0.2-	0.8-	2000 03 09	704	0.3-	0.1+
1992 03 31	033	0.3- 0.8-	1998 11 14	703	0.1-	0.7+	2000 03 09	704	0.1-	0.3+
1992 04 02	033	(0.2- 2.3-)	1998 11 17	703	0.7-	0.2+	2000 03 09	704	0.3-	0.5+
1993 09 18	675	0.1- 0.6-	1998 11 17	703	1.0+	0.6+	2000 03 09	704	0.3+	0.4+
1993 09 22	675	(0.8+ 2.3-)	1998 11 17	703	0.8+	0.3+	2000 03 10	704	0.3+	0.1-
1998 11 11	703	1.7- 0.3+	2000 03 05	608	0.3-	0.5+	2000 03 10	704	0.3+	0.2+
1998 11 11	703	0.1+ 1.0-	2000 03 05	608	0.3-	0.5-	2000 03 10	704	0.1+	0.3+
1998 11 11	703	1.8+ 0.3-	2000 03 05	608	0.1-	0.5-	2000 03 10	704	0.0	0.2-
1998 11 14	703	0.9- 0.1-	2000 03 09	704	0.4+	0.2+	2000 03 10	704	0.1-	0.3-

2000 ED₂₈ = 1998 VK₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	179.73969		(2000.0)		P		Q
<i>n</i>	0.27822690	ω	267.63200	+0.91460459			+0.38552483
<i>a</i>	2.3238244	Ω	69.67124	-0.29962777			+0.84868122
<i>e</i>	0.1435987	<i>i</i>	7.47180	-0.27151732			+0.36209225
<i>P</i>	3.54	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 11 10	704	1.5-	1.0+	1998 11 11	704	0.3+	0.7-	2000 03 09	704	1.3-	0.3+
1998 11 10	704	0.7+	0.3+	2000 03 04	704	0.2+	0.9+	2000 03 09	704	1.0+	0.9-
1998 11 10	704	0.1-	0.2-	2000 03 04	704	0.2+	0.4-	2000 03 12	704	0.3+	0.0
1998 11 10	704	0.2+	0.7-	2000 03 04	704	0.8+	0.4-	2000 03 12	704	0.1+	0.3-
1998 11 11	704	0.5+	1.7-	2000 03 04	704	0.6-	0.1+	2000 03 12	704	0.3-	0.1+
1998 11 11	704	1.4-	1.8+	2000 03 04	704	0.4-	0.6+	2000 03 12	704	0.8-	0.2-
1998 11 11	704	0.1-	0.0	2000 03 09	704	0.3+	0.1-				
1998 11 11	704	1.3+	0.2+	2000 03 09	704	0.5+	0.2+				

2000 MAR. 20

M.P.C. 39489

2000 EE₃₀ = 1997 GO₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	45.59746		(2000.0)	P		Q	
<i>n</i>	0.29324293	ω	32.60871	−0.26308548	−0.96115060		
<i>a</i>	2.2438011	Ω	72.76164	+0.86535938	−0.27336435		
<i>e</i>	0.0923515	<i>i</i>	5.01681	+0.42654328	−0.03822909		
<i>P</i>	3.36	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 04 02	704	0.0	0.2+	2000 02 04	704	1.4−	0.4−	2000 03 05	704	0.7+	0.0
1997 04 02	704	0.1−	1.0+	2000 02 04	704	0.3−	1.4+	2000 03 09	704	0.0	0.0
1997 04 06	704	0.1+	0.2−	2000 02 11	704	0.3+	0.1+	2000 03 09	704	0.1−	0.3−
1997 04 06	704	0.5+	0.6−	2000 02 11	704	1.4+	0.9+	2000 03 09	704	0.1−	0.4−
1997 04 07	704	1.2−	0.4−	2000 02 11	704	0.2+	0.1+	2000 03 09	704	0.2−	0.7−
1997 04 07	704	0.7+	0.0	2000 02 11	704	0.1−	0.9+	2000 03 09	704	0.3−	0.2−
2000 01 04	704	0.0	0.6−	2000 02 11	704	0.6+	0.8+	2000 03 12	704	0.1+	0.2−
2000 01 04	704	0.3+	0.4+	2000 03 05	704	0.1−	0.2+	2000 03 12	704	0.0	0.0
2000 01 04	704	0.2−	1.1−	2000 03 05	704	0.0	0.0	2000 03 12	704	0.4−	0.1+
2000 02 04	704	0.6−	0.5−	2000 03 05	704	0.6+	0.0	2000 03 12	704	0.1−	0.1+
2000 02 04	704	0.2−	0.7−	2000 03 05	704	0.2−	0.4−	2000 03 12	704	0.3+	0.1+

2000 EG₃₀ = 1992 LA₁ = 1998 XO₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	169.63851		(2000.0)	P		Q	
<i>n</i>	0.21601454	ω	250.84551	+0.96844176	+0.20184272		
<i>a</i>	2.7509375	Ω	97.30166	−0.13426092	+0.91674207		
<i>e</i>	0.1846924	<i>i</i>	8.47714	−0.20998707	+0.34473685		
<i>P</i>	4.56	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 06 01	809	0.4+	0.3−	1998 12 22	704	0.3−	1.6−	2000 03 05	704	0.3−	0.0
1992 06 01	809	0.5−	0.3+	1998 12 22	704	0.3−	1.5−	2000 03 05	704	0.3+	0.3+
1992 06 01	809	0.1−	1.0+	1998 12 22	704	0.8+	0.8−	2000 03 05	704	0.2+	0.3+
1992 06 03	809	0.2−	0.6−	1998 12 22	704	(2.7−	1.8−)	2000 03 05	704	0.1+	0.1+
1992 06 03	809	0.4−	0.6−	2000 02 04	704	0.5+	0.0	2000 03 09	704	0.1+	0.2+
1992 06 03	809	0.2+	1.6−	2000 02 04	704	0.5+	1.1+	2000 03 09	704	0.0	0.4+
1998 12 15	704	0.5−	0.6−	2000 02 04	704	0.4+	0.6−	2000 03 09	704	0.1+	0.6+
1998 12 15	704	0.4+	0.6+	2000 02 04	704	(2.1+	0.1+)	2000 03 09	704	0.2−	0.4+
1998 12 15	704	0.7−	0.4−	2000 02 04	704	1.5+	0.4−	2000 03 09	704	0.3−	0.5+
1998 12 15	704	0.1+	0.4+	2000 03 02	703	0.3+	0.2+	2000 03 12	704	0.4−	0.3−
1998 12 15	704	0.6−	0.0	2000 03 02	703	0.2−	0.2+	2000 03 12	704	(2.0−	0.1−)
1998 12 16	704	0.1−	0.1−	2000 03 02	703	0.1−	0.0	2000 03 12	704	1.5−	0.4−
1998 12 16	704	1.0+	0.4−	2000 03 02	703	0.1+	0.3+	2000 03 12	704	1.3−	0.7+
1998 12 16	704	0.9−	0.8+	2000 03 03	608	0.2+	1.4−	2000 03 12	704	1.1−	0.3−
1998 12 16	704	0.5+	1.5+	2000 03 03	608	0.1−	0.5−	2000 03 13	704	1.2+	0.5−
1998 12 16	704	0.6+	1.5+	2000 03 03	608	0.3+	0.6−	2000 03 13	704	0.1−	0.5−
1998 12 22	704	0.5+	1.3−	2000 03 05	704	0.7−	0.6+	2000 03 13	704	0.7+	0.6+

2000 ER₃₀ = 1998 WE₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	286.17977		(2000.0)	P		Q	
<i>n</i>	0.27306805	ω	201.03916	−0.41407173	+0.90552320		
<i>a</i>	2.3530010	Ω	44.63835	−0.81518652	−0.32365045		
<i>e</i>	0.0949423	<i>i</i>	7.57200	−0.40498831	−0.27436858		
<i>P</i>	3.61	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 24	691	0.5−	0.2−	2000 02 03	704	0.2−	0.6+	2000 03 09	704	0.3−	1.3+
1998 11 24	691	0.4−	0.1−	2000 02 03	704	0.3−	0.6+	2000 03 09	704	0.1+	0.4+
1998 11 24	691	0.8−	0.3+	2000 02 03	704	0.1−	0.0	2000 03 09	704	0.0	0.6+
1998 11 27	691	0.5+	0.3+	2000 02 03	704	0.7−	0.2−	2000 03 12	704	0.5−	0.7−
1998 11 27	691	0.6+	0.1+	2000 03 05	704	0.4+	0.1+	2000 03 12	704	0.2−	0.4+
1998 11 27	691	0.4+	0.0	2000 03 05	704	1.2+	0.3−	2000 03 12	704	0.2−	0.1−
2000 01 07	704	0.5−	1.3−	2000 03 05	704	0.2+	0.3−	2000 03 12	704	0.0	0.4−
2000 01 07	704	0.4−	1.0−	2000 03 05	704	0.2+	0.2+	2000 03 12	704	0.1−	0.3−

2000 01 07	704	0.2+	0.2+	2000 03 05	704	0.2−	0.2−	2000 03 13	704	0.1+	0.1+
2000 01 07	704	0.5+	0.1−	2000 03 09	704	0.0	0.4−	2000 03 13	704	0.2−	0.3+
2000 02 03	704	0.0	0.0	2000 03 09	704	0.3+	0.2+	2000 03 13	704	0.7+	0.0

2000 ES₃₀ = 1998 XF₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	180.29633		(2000.0)	P		Q	
<i>n</i>	0.24431011	ω	322.17256	+0.93603225	+0.34360192		
<i>a</i>	2.5342050	Ω	18.18353	−0.23288235	+0.76678160		
<i>e</i>	0.1975943	<i>i</i>	14.10231	−0.26383601	+0.54220264		
<i>P</i>	4.03	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 16	704	1.3+	0.8−	1998 12 17	704	0.6−	0.3+	2000 03 09	704	0.5−	0.1+
1998 11 16	704	0.8+	1.5+	1998 12 17	704	1.1+	0.1+	2000 03 09	704	0.3−	0.1−
1998 11 16	704	0.0	0.2+	2000 02 03	704	0.1+	0.4−	2000 03 09	704	0.8−	0.8−
1998 11 16	704	0.4−	0.3−	2000 02 03	704	0.2−	0.3+	2000 03 09	704	0.4+	0.6+
1998 11 16	704	1.6−	0.1−	2000 02 03	704	0.0	0.1−	2000 03 09	704	0.2+	0.8+
1998 12 14	704	0.7+	1.4+	2000 02 03	704	0.1−	0.7−	2000 03 12	704	1.0+	1.3−
1998 12 14	704	1.1+	0.6−	2000 03 05	704	0.1−	0.5+	2000 03 12	704	0.1+	0.0
1998 12 14	704	(0.9−	3.1+)	2000 03 05	704	0.2−	0.2+	2000 03 12	704	0.6+	0.1−
1998 12 17	704	0.9−	0.0	2000 03 05	704	0.2+	1.0+	2000 03 12	704	0.1−	0.7−
1998 12 17	704	0.4−	1.0−	2000 03 05	704	0.5−	0.1+				
1998 12 17	704	0.9−	0.5−	2000 03 05	704	0.3+	0.5+				

2000 EV₃₁ = 1997 RA₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	166.18254		(2000.0)	P		Q	
<i>n</i>	0.18645843	ω	10.07783	+0.96601220	+0.25133065		
<i>a</i>	3.0344596	Ω	335.11147	−0.24603907	+0.82225715		
<i>e</i>	0.0536730	<i>i</i>	8.25734	−0.07927933	+0.51061343		
<i>P</i>	5.29	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 09 05	122	0.1+	0.2−	2000 02 25	703	0.2−	0.1+	2000 03 11	704	0.1+	0.1−
1997 09 05	122	0.1−	0.2−	2000 03 05	704	0.2−	0.5−	2000 03 11	704	0.5+	0.1−
1997 09 05	122	0.0	0.1−	2000 03 05	704	0.5+	0.2+	2000 03 11	704	0.1−	0.3−
1997 09 07	122	0.2−	0.1+	2000 03 05	704	0.2−	0.1−	2000 03 11	704	0.5+	0.4−
1997 09 07	122	0.1+	0.1+	2000 03 05	704	0.3+	0.5+	2000 03 11	704	0.7+	0.1−
1997 09 19	122	0.0	0.1−	2000 03 09	704	0.2−	1.3−	2000 03 11	699	0.4+	0.8+
1997 09 19	122	0.1+	0.3+	2000 03 09	704	0.3−	0.5−	2000 03 11	699	0.2+	0.3+
2000 02 25	703	0.8−	0.2+	2000 03 09	704	0.3−	0.1+	2000 03 11	699	0.9−	0.0
2000 02 25	703	0.1−	0.5−	2000 03 09	704	0.6+	0.0	2000 03 11	699	1.4−	0.5+
2000 02 25	703	1.0+	0.4+	2000 03 09	704	0.1−	0.9+				

2000 EY₃₁ = 1998 WP₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	234.56148		(2000.0)	P		Q	
<i>n</i>	0.28703162	ω	250.23120	+0.42594505	+0.90410879		
<i>a</i>	2.2760557	Ω	45.02811	−0.81104455	+0.39822971		
<i>e</i>	0.1856951	<i>i</i>	2.75719	−0.40097076	+0.15492060		
<i>P</i>	3.43	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 10	699	0.7+	0.5+	2000 02 25	703	0.0	0.7−	2000 03 09	704	0.1+	0.1−
1998 11 10	699	1.2−	0.3+	2000 02 25	703	0.0	0.7+	2000 03 09	704	0.2−	0.4+
1998 11 10	699	0.1−	1.5+	2000 02 25	703	1.7−	0.8+	2000 03 11	699	1.1+	0.1+
1998 11 18	704	1.3+	0.9+	2000 02 25	703	0.4−	0.5+	2000 03 11	699	0.1−	1.1+
1998 11 18	704	0.0	0.5−	2000 03 05	704	0.7+	0.1−	2000 03 11	699	0.5+	0.2+
1998 11 18	704	0.9+	1.0−	2000 03 05	704	0.3+	1.1−	2000 03 11	699	0.6+	1.3+
1998 11 18	704	1.3−	1.7−	2000 03 05	704	0.8+	0.4−	2000 03 11	699	0.3−	0.5+
1998 11 18	704	(2.1−	2.3−)	2000 03 05	704	0.2+	0.6−	2000 03 11	699	0.6−	0.2+
1998 11 21	704	0.8+	0.4+	2000 03 05	704	0.2+	1.0−	2000 03 11	699	0.4−	0.0
1998 11 21	704	1.5−	0.2−	2000 03 05	106	0.7+	0.4−	2000 03 11	699	0.1+	1.7+
1998 11 21	704	(0.6−	2.6+)	2000 03 05	106	0.2+	0.5−	2000 03 12	704	0.7+	0.3−

M.P.C. 39490

1998 11 24	704	0.7+	0.4+	2000 03 05	106	0.5-	0.8-	2000 03 12	704	0.2+	0.6-
1998 11 24	704	0.1+	0.1+	2000 03 08	704	0.1-	1.1-	2000 03 12	704	0.1-	0.7-
1998 11 24	704	1.2-	0.2-	2000 03 08	704	0.1+	0.1-	2000 03 12	704	0.4+	0.3+
1998 11 24	704	0.7+	0.2-	2000 03 08	704	1.4-	0.6-	2000 03 12	704	0.0	1.2+
2000 02 11	704	0.5-	0.8-	2000 03 08	704	0.6-	0.4+	2000 03 12	704	0.0	0.2+
2000 02 11	704	0.2-	0.2-	2000 03 08	704	1.4-	1.6+	2000 03 12	704	0.6+	0.8+
2000 02 11	704	0.1+	0.2-	2000 03 09	704	0.2-	0.2+	2000 03 12	704	0.4+	0.2+
2000 02 11	704	0.1-	0.5-	2000 03 09	704	0.0	0.0	2000 03 12	704	0.1-	0.6-
2000 02 11	704	0.5+	0.8-	2000 03 09	704	0.3+	0.2+				

2000 ED₃₂ = 1981 UD₁₁ = 1992 UA₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18519508	ω	301.52169	+0.70567497	+0.70818456		
<i>a</i>	3.0482442	Ω	13.43642	-0.61317247	+0.62616718		
<i>e</i>	0.1539170	<i>i</i>	5.50807	-0.35502444	+0.32617372		
<i>P</i>	5.32	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 10 22	095	0.3+	0.0	2000 02 01	703	1.1+	0.6+	2000 03 09	704	0.7+	0.2-
1981 10 24	095	0.7-	0.7+	2000 02 11	704	0.1-	0.3-	2000 03 09	704	0.8+	0.4-
1992 10 31	033	0.1+	1.0+	2000 02 11	704	0.4-	0.6+	2000 03 09	704	1.7+	1.6-
1992 10 31	033	0.5-	0.4+	2000 02 11	704	0.5-	0.1+	2000 03 11	699	1.2-	0.5+
1992 11 01	033	0.4-	0.6+	2000 02 11	704	0.5-	0.5-	2000 03 11	699	0.6-	0.5-
1998 12 14	704	0.7+	0.4-	2000 02 11	704	0.1-	0.2-	2000 03 11	699	0.2-	0.4-
1998 12 14	704	1.0+	1.9-	2000 02 25	703	0.2-	1.1+	2000 03 11	699	0.0	1.0+
1998 12 14	704	(2.1-	2.8-)	2000 02 25	703	1.1-	0.5+	2000 03 12	704	0.1-	0.4+
1998 12 14	704	0.3-	0.6-	2000 02 25	703	0.0	1.4+	2000 03 12	704	0.1-	0.7-
1999 01 16	704	0.1-	1.5+	2000 02 25	703	1.8-	0.1+	2000 03 12	704	0.1+	0.2+
1999 01 16	704	(0.3-	2.9+)	2000 03 05	704	0.1+	0.5+	2000 03 12	704	0.3+	0.0
1999 01 16	704	0.2-	0.1-	2000 03 05	704	0.2+	0.2-	2000 03 12	704	0.0	0.1-
1999 01 16	704	0.1+	0.4-	2000 03 05	704	0.7+	0.4-	2000 03 14	739	0.3+	0.0
1999 01 16	704	1.4-	1.3-	2000 03 05	704	0.6+	0.3+	2000 03 14	739	0.2-	0.4+
2000 02 01	703	0.4-	0.2+	2000 03 05	704	0.9+	0.3+	2000 03 14	739	0.9-	0.3-
2000 02 01	703	0.2+	0.5+	2000 03 09	704	1.2+	0.1-				
2000 02 01	703	(1.1+	2.2+)	2000 03 09	704	1.1+	0.1-				

2000 EJ₃₂ = 1998 TX₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21756764	ω	65.54742	-0.18347452	-0.98217414		
<i>a</i>	2.7378302	Ω	35.10198	+0.87420969	-0.18204101		
<i>e</i>	0.0421231	<i>i</i>	4.07655	+0.44954925	-0.04685119		
<i>P</i>	4.53	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 14	691	0.8-	0.0	2000 02 11	704	0.4+	0.1-	2000 03 09	704	0.4-	0.1-
1998 10 14	691	0.5-	0.1-	2000 03 05	704	0.7-	0.4+	2000 03 09	704	0.2-	0.6-
1998 10 14	691	0.5-	0.2-	2000 03 05	704	0.3+	0.5+	2000 03 09	704	1.0-	0.0
1998 10 19	691	0.9+	0.1-	2000 03 05	704	0.6-	0.1-	2000 03 12	704	0.5+	1.3+
1998 10 19	691	0.9+	0.2+	2000 03 05	704	0.5+	0.1+	2000 03 12	704	0.5-	0.3-
2000 02 11	704	0.6+	0.4+	2000 03 09	704	0.9+	0.5-	2000 03 12	704	0.4+	0.6-
2000 02 11	704	0.3-	0.0	2000 03 09	704	0.3+	0.5-				

2000 EB₃₄ = 1998 VF₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27087372	ω	320.21424	+0.52714244	-0.83854910		
<i>a</i>	2.3656917	Ω	97.55770	+0.81073244	+0.44772948		
<i>e</i>	0.1098823	<i>i</i>	7.98352	+0.25462476	+0.31044117		
<i>P</i>	3.64	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 21	699	0.7-	0.2+	2000 02 04	704	1.5+	0.3-	2000 03 09	704	0.0	0.5+
1998 09 21	699	0.4+	0.5+	2000 02 04	704	0.4+	1.1+	2000 03 09	704	0.0	0.0

2000 MAR. 20

1998 09 21	699	0.7+	0.9+	2000 02 04	704	1.7+	0.5-	2000 03 09	704	0.1+	0.6+
1998 10 18	699	0.1+	0.0	2000 02 04	704	0.3+	0.1+	2000 03 09	704	0.0	0.1+
1998 10 18	699	0.6+	0.1-	2000 03 05	704	0.1+	0.2+	2000 03 09	704	0.3-	0.4+
1998 10 18	699	0.1+	0.6-	2000 03 05	704	0.8+	0.3+	2000 03 12	704	0.2-	0.5+
1998 11 14	683	0.1+	0.3+	2000 03 05	704	0.3-	0.1+	2000 03 12	704	0.2+	0.0
1998 11 14	683	0.4-	0.1-	2000 03 05	704	0.2+	0.2-	2000 03 12	704	0.5-	0.2+
1998 11 14	683	0.6-	0.2+	2000 03 05	704	0.1-	0.9+	2000 03 12	704	0.3-	0.1-
1998 11 15	683	0.2+	0.4-	2000 03 05	608	0.9-	1.4-	2000 03 12	704	0.2-	0.2+
1998 11 15	683	0.2-	0.1-	2000 03 05	608	1.1-	1.2-				
1998 11 15	683	0.5-	0.8-	2000 03 05	608	0.8-	1.4-				

2000 EH₃₄ = 1996 LT₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22580328	ω	31.65155	+0.04215718	-0.97383199		
<i>a</i>	2.6708483	Ω	56.84494	+0.85194431	-0.08173008		
<i>e</i>	0.1853835	<i>i</i>	15.47122	+0.52193262	+0.21206471		
<i>P</i>	4.36	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 06 08	809	0.8+	1.4+	1998 12 08	704	0.2-	1.0-	2000 03 05	704	1.1-	0.1-
1996 06 08	809	0.7+	0.7+	1998 12 08	704	0.7-	1.9+	2000 03 05	704	0.7-	0.1+
1996 06 08	809	0.7+	1.1+	1998 12 08	704	0.5-	0.8+	2000 03 09	704	0.3+	0.0
1996 06 10	809	1.1+	1.9+	1998 12 08	704	0.7-	0.5-	2000 03 09	704	0.1+	0.1-
1996 06 10	809	(0.9+	2.6+)	1998 12 08	704	(0.4-	2.5+)	2000 03 09	704	0.1+	0.1-
1996 06 10	809	(0.2-	2.4+)	2000 02 04	704	0.4+	1.8-	2000 03 09	704	0.1-	0.3+
1998 10 17	699	0.2-	0.4+	2000 02 04	704	1.4+	0.2+	2000 03 09	704	0.0	0.4-
1998 10 17	699	0.3-	0.6+	2000 02 04	704	0.7+	0.5+	2000 03 15	704	0.1+	0.1-
1998 10 17	699	0.3-	0.2+	2000 02 04	704	1.1+	0.2-	2000 03 15	704	0.1-	0.1+
1998 11 13	704	0.0	0.8+	2000 02 04	704	0.5+	1.9+	2000 03 15	704	0.1+	0.1+
1998 11 13	704	(3.0+	2.6+)	2000 03 05	704	0.4-	0.2+	2000 03 15	704	0.3-	0.0
1998 11 13	704	0.8-	1.8+	2000 03 05	704	0.2-	0.1+	2000 03 15	704	0.2-	0.6+
1998 11 13	704	(2.5-	0.5+)	2000 03 05	704	0.3-	0.0				

2000 EX₃₅ = 1998 WR₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22335821	ω	322.53883	-0.99921411	+0.03876876		
<i>a</i>	2.6903045	Ω	219.68545	-0.03251661	-0.92082589		
<i>e</i>	0.2586799	<i>i</i>	0.74074	-0.02266804	-0.38804208		
<i>P</i>	4.41	<i>H</i>	16.7	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 11 18	691	0.2+	1.0+	2000 03 03	704	0.7+	0.1-	2000 03 10	704	(3.3+	0.7-)
1998 11 18	691	0.6-	0.7+	2000 03 03	704	1.3+	0.7-	2000 03 11	704	(2.2-	0.4-)
1998 11 18	691	0.4-	0.4+	2000 03 03	704	0.1-	1.0+	2000 03 11	704	1.6-	0.5-
1998 11 21	691	0.2+	0.5-	2000 03 03	704	1.2+	1.0+	2000 03 11	704	0.8-	0.4-
1998 11 21	691	0.1+	1.0-	2000 03 10	691	(0.2+	2.3+)	2000 03 11	704	1.3-	1.0-
1998 11 21	691	0.1+	0.8-	2000 03 10	691	0.6+	0.6+	2000 03 11	704	0.5-	1.7-
2000 03 03	691	1.3-	0.6-	2000 03 10	691	1.2+	0.7+	2000 03 11	704	0.4-	1.3-
2000 03 03	691	1.0-	0.5-	2000 03 10	704	1.3+	1.0+	2000 03 11	704	0.6-	0.0
2000 03 03	704	0.2-	0.0	2000 03 10	704	1.5+	1.6+	2000 03 11	704	1.1+	1.1+
2000 03 03	691	0.8-	0.2-	2000 03 10	704	(2.6+	1.3+)				

2000 EP₃₆ = 1998 XT₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	325.24802		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17531659	ω	165.94509	-0.77514616	+0.63135383
a	3.1617004	Ω	53.22919	-0.58241690	-0.69983136
e	0.1310956	i	1.66356	-0.24482441	-0.33410837
P	5.62	H	12.7	G 0.15	U 5

2000 MAR. 20

1998 12 14	704	0.6−	0.7−	2000 02 27	703	0.2−	0.2+	2000 03 10	704	0.0	0.9+
1998 12 14	704	(0.7+	2.6+)	2000 02 27	703	0.1−	0.2+	2000 03 10	120	0.6−	1.2−
1998 12 14	704	(3.7−	2.0+)	2000 02 27	703	0.1−	0.2+	2000 03 10	120	0.9−	1.3−
1998 12 17	704	1.0+	0.3+	2000 02 27	703	0.1+	0.4+	2000 03 11	120	1.4−	1.3−
1998 12 17	704	0.5−	1.2−	2000 02 29	704	1.0+	0.2−	2000 03 11	704	0.8+	0.1+
1998 12 17	704	0.7−	1.2−	2000 02 29	704	0.3+	0.3+	2000 03 11	704	0.3+	0.2+
1998 12 17	704	0.3+	0.6−	2000 02 29	704	0.1−	0.4+	2000 03 11	704	0.9+	0.0
1998 12 17	704	0.6+	0.2−	2000 02 29	704	0.2−	0.6+	2000 03 11	704	0.2+	0.8+
1999 01 16	704	1.4+	1.2+	2000 03 08	704	0.5−	0.8+	2000 03 11	704	0.8+	0.7+
1999 01 16	704	(2.6−	0.7+)	2000 03 08	704	0.0	1.0+	2000 03 13	120	0.6−	1.5−
1999 01 16	704	0.0	0.6+	2000 03 08	704	0.8−	0.8+	2000 03 14	120	0.4−	1.6−
1999 01 16	704	(4.7−	0.7+)	2000 03 08	704	1.6−	1.2+	2000 03 14	703	0.4+	0.2−
1999 01 16	704	(6.4−	1.6+)	2000 03 08	704	(0.7−	2.1+)	2000 03 14	703	0.4+	0.2−
1999 01 19	704	0.3−	1.0+	2000 03 10	704	0.6+	0.3−	2000 03 14	703	0.3+	0.2−
1999 01 19	704	0.5−	0.8+	2000 03 10	704	0.2+	0.1−	2000 03 14	703	0.4+	0.2−

2000 EQ₃₆ = 1992 EA₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	203.96474			(2000.0)			P			Q	
<i>n</i>	0.25169132	ω	161.95924		+0.90767803	+0.41905551					
<i>a</i>	2.4844135	Ω	173.13575		−0.40459995	+0.88814699					
<i>e</i>	0.0952331	<i>i</i>	10.92493		−0.11144270	+0.18864624					
<i>P</i>	3.92	<i>H</i>	13.9		<i>G</i>	0.15		<i>U</i>	5		
Residuals in seconds of arc											
1992 03 01	809	0.1+	0.0	2000 03 08	704	0.2+	0.1−	2000 03 11	704	0.1+	0.4+
1992 03 05	809	0.4−	0.5+	2000 03 08	704	0.6+	0.8−	2000 03 11	704	0.1−	0.6+
1992 03 09	809	0.3+	0.5−	2000 03 08	704	0.6+	0.0	2000 03 11	704	0.2+	0.5+
2000 02 27	703	0.3−	0.1+	2000 03 08	704	0.9+	0.1−	2000 03 11	704	0.4+	0.6+
2000 02 27	703	0.3−	0.6−	2000 03 10	704	0.0	0.3+	2000 03 13	120	1.0−	1.4−
2000 02 27	703	0.4−	0.2−	2000 03 10	704	0.0	0.0	2000 03 14	120	1.8−	1.1−
2000 02 27	703	0.1+	0.5−	2000 03 10	704	0.4+	0.2+	2000 03 14	703	0.0	0.2+
2000 02 29	704	0.9+	0.4+	2000 03 10	704	0.4−	0.1−	2000 03 14	703	0.4+	0.0
2000 02 29	704	0.7−	0.6+	2000 03 10	704	0.1−	0.1+	2000 03 14	703	0.1−	0.2+
2000 02 29	704	0.3+	0.2−	2000 03 11	704	0.3+	0.6+	2000 03 14	703	0.0	0.4+

2000 ET₃₆ = 1998 SZ₁₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	15.38472			(2000.0)			P			Q	
<i>n</i>	0.28432628	ω	354.11435		−0.89040693	−0.45468206					
<i>a</i>	2.2904705	Ω	158.80222		+0.41993590	−0.83838970					
<i>e</i>	0.1132287	<i>i</i>	3.32461		+0.17558286	−0.30061093					
<i>P</i>	3.47	<i>H</i>	14.8		<i>G</i>	0.15		<i>U</i>	4		
Residuals in seconds of arc											
1998 09 21	120	1.0−	0.2−	1998 10 10	699	1.0+	1.4+	2000 03 10	704	0.3−	0.3+
1998 09 21	120	(0.4+	2.3−)	2000 02 15	120	0.4+	1.3−	2000 03 10	704	0.1+	0.4+
1998 09 22	120	(6.6+	7.1−)	2000 02 15	120	0.2+	1.0−	2000 03 10	704	0.2+	0.8+
1998 09 26	704	1.4−	1.5+	2000 02 15	120	0.1−	1.0−	2000 03 10	704	0.1−	0.6+
1998 09 26	704	0.8−	0.6−	2000 02 29	704	0.4−	0.0	2000 03 11	704	0.1−	0.3+
1998 09 26	704	1.1+	0.2−	2000 02 29	704	0.2+	1.0−	2000 03 11	704	0.1+	0.0
1998 09 26	704	0.9+	0.3−	2000 02 29	704	0.7−	0.0	2000 03 11	704	0.0	0.2+
1998 09 26	704	0.0	0.3−	2000 02 29	704	0.7+	0.1−	2000 03 11	704	0.0	0.6+
1998 09 27	704	0.9−	0.5+	2000 03 08	704	0.3−	0.4−	2000 03 11	704	0.4+	0.4+
1998 09 27	704	(2.3−	0.4−)	2000 03 08	704	0.1+	1.2+	2000 03 14	703	0.4−	0.2−
1998 09 27	704	1.4+	0.6+	2000 03 08	704	0.4+	0.3−	2000 03 14	703	0.0	0.1+
1998 09 27	704	(2.4−	1.0−)	2000 03 08	704	0.1+	0.1−	2000 03 14	703	0.1+	0.3+
1998 10 10	699	0.1+	0.8+	2000 03 08	704	0.7+	0.9+	2000 03 14	703	0.4−	0.1+
1998 10 10	699	1.1−	1.4−	2000 03 10	704	0.1−	0.3+				

M.P.C. 39491

2000 EW₃₆ = 1998 RL₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	38.33663			(2000.0)			P			Q	
<i>n</i>	0.28484764	ω	344.70890		−0.49979419	−0.86570692					
<i>a</i>	2.2876748	Ω	135.26810		+0.79871726	−0.47294407					
<i>e</i>	0.1774591	<i>i</i>	2.24090		+0.33504701	−0.16393730					
<i>P</i>	3.46	<i>H</i>	14.9		<i>G</i>	0.15		<i>U</i>	5		
Residuals in seconds of arc											
1998 09 14	704	0.2+	0.5−	2000 02 27	703	0.3−	0.3+	2000 03 10	704	0.5+	0.3+
1998 09 14	704	1.6+	1.4+	2000 03 05	608	1.4+	1.9−	2000 03 10	704	0.1−	1.0+
1998 09 14	704	0.2−	1.0−	2000 03 05	608	1.7+	1.3−	2000 03 11	704	0.6−	0.1+
1998 09 14	704	0.5−	0.5−	2000 03 05	608	(2.0+	2.3−)	2000 03 11	704	0.8−	0.1−
1998 09 18	704	0.7+	0.2−	2000 03 08	704	0.4+	0.6+	2000 03 11	704	1.1−	0.3−
1998 09 18	704	1.6−	0.8+	2000 03 08	704	0.4+	0.7+	2000 03 11	704	1.2−	0.4−
1998 09 18	704	(0.6+	2.8−)	2000 03 08	704	0.3+	0.5+	2000 03 11	704	1.6−	0.9−
1998 09 18	704	1.4−	1.7+	2000 03 08	704	0.1+	0.6+	2000 03 14	703	0.7−	0.2+
1998 09 18	704	0.8+	1.0−	2000 03 08	704	0.5+	1.1+	2000 03 14	703	0.0	0.4−
2000 02 27	703	0.0	0.1−	2000 03 10	704	0.4+	0.3+	2000 03 14	703	0.1−	0.0
2000 02 27	703	0.1−	0.5+	2000 03 10	704	0.1+	0.2−	2000 03 14	703	0.8+	0.2−
2000 02 27	703	0.0	0.1+	2000 03 10	704	0.4+	0.4+				

2000 EF₃₇ = 1998 SA₁₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	19.74204			(2000.0)			P			Q	
<i>n</i>	0.29635163	ω	325.46637		−0.85414169	−0.51999119					
<i>a</i>	2.2280820	Ω	183.22717		+0.50117561	−0.81940927					
<i>e</i>	0.0886461	<i>i</i>	7.29792		+0.13879835	−0.24120034					
<i>P</i>	3.33	<i>H</i>	15.4		<i>G</i>	0.15		<i>U</i>	5		
Residuals in seconds of arc											
1998 09 26	704	1.3+	1.1−	2000 02 29	704	0.8+	0.8+	2000 03 10	704	0.1+	0.1+
1998 09 26	704	0.6−	0.1−	2000 03 08	704	0.5−	0.7+	2000 03 11	704	0.1+	0.8−
1998 09 26	704	1.4−	1.6+	2000 03 08	704	0.9+	0.8−	2000 03 11	704	0.1+	0.1−
1998 09 27	704	0.6−	0.9+	2000 03 08	704	0.2+	0.4+	2000 03 11	704	0.1+	0.1−
1998 09 27	704	0.7+	0.2+	2000 03 08	704	0.2+	0.2−	2000 03 11	704	0.1+	0.2+
1998 09 27	704	1.8+	0.6−	2000 03 08	704	0.3+	0.7−	2000 03 11	704	0.5+	0.2+
1998 09 27	704	0.9−	0.9−	2000 03 10	704	0.3+	0.4−	2000 03 14	703	0.5−	0.2+
1998 09 27	704	0.2−	0.3−	2000 03 10	704	0.4+	0.2−	2000 03 14	703	0.7−	0.1+
2000 02 29	704	1.7−	0.1+	2000 03 10	704	0.0	0.0	2000 03 14	703	0.7−	0.3+
2000 02 29	704	0.2−	0.3+	2000 03 10	704	0.4+	0.1−	2000 03 14	703	0.2−	0.1−

2000 EU₃₇ = 1998 XL₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	72.94011		(2000.0)			P		Q			
<i>n</i>	0.18069667	ω	294.19137		−0.01250104		−0.99914512				
<i>a</i>	3.0986269	Ω	156.42321		+0.94944457		−0.02422348				
<i>e</i>	0.1354854	<i>i</i>	5.65384		+0.31368572		+0.03350007				
<i>P</i>	5.45	<i>H</i>	13.5		<i>G</i>	0.15		<i>U</i>	5		
Residuals in seconds of arc											
1998 12 15	704	0.3−	0.1−	2000 03 05	608	0.0	0.3−	2000 03 10	704	0.9+	0.4−
1998 12 15	704	1.2+	0.6−	2000 03 08	704	0.7−	0.2+	2000 03 11	704	0.3+	0.1+
1998 12 15	704	0.4−	0.2−	2000 03 08	704	0.2−	0.6+	2000 03 11	704	0.2+	0.0
1998 12 15	704	0.4+	0.1−	2000 03 08	704	0.1−	0.2+	2000 03 11	704	0.3−	0.1+
1998 12 15	704	0.0	0.0	2000 03 09	159	1.0+	0.4+	2000 03 11	704	0.3−	0.2−
1998 12 16	704	1.2+	0.5−	2000 03 09	159	1.4−	0.0	2000 03 11	704	0.0	0.7−
1998 12 16	704	0.5−	0.3−	2000 03 09	159	1.0−	0.5+	2000 03 13	159	0.3+	0.2+
1998 12 16	704	0.0	0.5+	2000 03 10	704	0.3+	0.1+	2000 03 13	159	0.4+	0.2−
1998 12 16	704	1.6−	1.2+	2000 03 10	704	0.2−	0.1−	2000 03 13	159	0.0	0.1+
2000 03 05	608	0.3+	0.2−	2000 03 10	704	0.1+	0.2−				
2000 03 05	608	0.3+	0.4−	2000 03 10	704	0.2+	0.3+				

2000 EF₃₈ = 1998 SG₁₀₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25760538	ω	142.01431	−0.08792023	−0.99584143		
<i>a</i>	2.4462421	Ω	313.01586	+0.90575001	−0.06994608		
<i>e</i>	0.1393118	<i>i</i>	1.87100	+0.41459251	−0.05837283		
<i>P</i>	3.83	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 09 26	704	0.1+	0.0	2000 03 08	704	0.9+	0.9+	2000 03 10	704	0.4+	0.6+
1998 09 26	704	1.0+	0.0	2000 03 08	704	0.9−	0.7−	2000 03 11	704	0.3+	1.3+
1998 09 26	704	0.2−	0.0	2000 03 08	704	0.6+	0.9+	2000 03 11	704	0.5+	0.1−
1998 09 26	704	0.3+	0.3+	2000 03 08	704	0.1−	1.4−	2000 03 11	704	0.0	0.2−
1998 09 26	704	0.2−	0.1+	2000 03 08	704	0.8−	0.2−	2000 03 11	704	0.4+	0.4−
1998 09 27	704	0.5−	0.9−	2000 03 10	704	1.0−	0.3+	2000 03 11	704	0.3+	0.9−
1998 09 27	704	0.4−	0.5+	2000 03 10	704	0.4+	0.5+				
1998 09 27	704	(2.8−	1.1+)	2000 03 10	704	0.9−	0.4−				

2000 EZ₃₈ = 1998 SJ₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27674713	ω	255.26327	−0.25721131	−0.96628507		
<i>a</i>	2.3321007	Ω	209.64924	+0.89541988	−0.23378346		
<i>e</i>	0.1680587	<i>i</i>	1.34836	+0.36340827	−0.10788168		
<i>P</i>	3.56	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 16	691	0.2−	0.3+	2000 03 05	608	0.1+	1.0−	2000 03 10	704	0.3+	0.4+
1998 09 16	691	0.2−	0.1+	2000 03 08	704	0.1+	0.8+	2000 03 10	704	0.1+	0.5−
1998 09 16	691	0.2−	0.3−	2000 03 08	704	0.2+	0.8+	2000 03 10	704	0.8−	0.4−
1998 09 21	691	0.5+	0.4−	2000 03 08	704	0.6+	0.1+	2000 03 11	704	0.0	0.2−
1998 09 21	691	0.2+	0.0	2000 03 08	704	0.4+	0.2−	2000 03 11	704	0.4−	0.6+
1998 09 21	691	0.0	0.0	2000 03 08	704	0.6+	0.2−	2000 03 11	704	0.8−	0.4+
2000 03 05	608	0.4−	0.5−	2000 03 10	704	0.8+	0.4+	2000 03 11	704	0.7−	0.2−
2000 03 05	608	0.2+	0.6−	2000 03 10	704	0.2+	0.2+	2000 03 11	704	0.6−	0.3−

2000 EK₄₁ = 1996 TF₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19123811	ω	274.20059	+0.32867229	+0.94285845		
<i>a</i>	2.9836858	Ω	15.33405	−0.76352115	+0.29935564		
<i>e</i>	0.2515879	<i>i</i>	11.93843	−0.55588666	+0.14630156		
<i>P</i>	5.15	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1996 10 06	809	0.3+	0.3+	2000 03 08	704	0.0	1.2−	2000 03 10	704	0.3+	1.0+
1996 10 06	809	0.5+	0.9+	2000 03 08	704	0.8−	0.1+	2000 03 10	704	0.2−	0.7+
1996 10 06	809	1.0+	0.5+	2000 03 08	704	0.9+	0.1+	2000 03 11	704	0.4+	0.4+
1996 10 07	809	0.0	1.3−	2000 03 08	704	0.0	0.2+	2000 03 11	704	0.1+	0.1−
1996 10 07	809	0.7−	0.5−	2000 03 10	704	0.7−	0.3+	2000 03 11	704	0.7+	1.2−
1996 10 07	809	1.0−	0.1+	2000 03 10	704	0.0	0.4+	2000 03 11	704	1.5−	0.7−
2000 03 08	704	1.2+	0.9−	2000 03 10	704	0.4−	0.9+				

2000 EY₄₁ = 1999 BB₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18382905	ω	23.84270	+0.90090923	−0.43400688		
<i>a</i>	3.0633264	Ω	1.87994	+0.39433688	+0.81782111		
<i>e</i>	0.2499720	<i>i</i>	1.34089	+0.18127599	+0.37789770		
<i>P</i>	5.36	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

1999 01 22	691	0.2+	0.3+	2000 03 08	704	0.2−	1.1+	2000 03 11	704	0.9+	0.3−
1999 01 22	691	0.5+	0.2+	2000 03 08	704	0.6−	0.1−	2000 03 11	704	0.6+	0.4+

1999 01 22	691	0.4+	0.2+	2000 03 10	704	0.2+	0.3−	2000 03 11	704	0.3−	0.2−
1999 01 23	691	0.2−	0.3−	2000 03 10	704	0.2+	0.5−	2000 03 11	704	0.3+	0.5+
1999 01 23	691	0.5−	0.3−	2000 03 10	704	0.4+	0.2+	2000 03 14	703	1.3−	0.2+
1999 01 23	691	0.4−	0.2−	2000 03 10	704	0.2−	0.3+	2000 03 14	703	0.7−	1.2+
2000 03 08	704	0.2+	0.7+	2000 03 10	704	0.2−	0.3+	2000 03 14	703	0.9−	1.0−
2000 03 08	704	0.2−	0.5+	2000 03 11	704	0.1+	1.4−	2000 03 14	703	1.5+	1.5−

2000 EQ₄₉ = 1962 CA = 1988 SJ₄ = 1995 UF₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28724572	ω	159.97388	+0.31742552	−0.93991015		
<i>a</i>	2.2749246	Ω	271.35448	+0.85200242	+0.34089286		
<i>e</i>	0.1985155	<i>i</i>	7.22538	+0.41633270	+0.01899905		
<i>P</i>	3.43	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1962 02 04	760	0.1−	1.7−	1999 11 05	703	1.5+	0.3+	2000 03 09	704	0.0	0.7+
1962 02 04	760	0.6−	0.0	1999 11 05	703	0.1+	0.1−	2000 03 09	704	0.2−	0.7+
1988 09 16	095	0.4−	0.9+	1999 11 05	703	0.8−	0.4+	2000 03 09	704	0.9+	0.9+
1988 09 16	095	0.6+	0.5−	2000 01 10	704	0.2+	0.6+	2000 03 10	704	0.1+	0.1+
1988 09 16	095	0.6+	0.5−	2000 01 10	704	0.3+	0.3+	2000 03 10	704	0.1−	0.0
1995 10 24	327	0.3−	0.1+	2000 01 10	704	0.2+	0.1+	2000 03 10	704	0.1+	0.1−
1995 10 24	327	0.0	0.4+	2000 01 10	704	0.2+	0.9+	2000 03 10	704	0.2−	0.4−
1995 10 25	327	0.2+	0.1+	2000 01 10	704	0.4−	1.3+	2000 03 10	704	0.6−	0.1−
1995 10 25	327	0.2−	0.4−	2000 02 10	704	1.0+	0.1−	2000 03 13	704	0.0	0.5−
1995 10 25	327	0.3+	0.3+	2000 02 10	704	0.0	0.4+	2000 03 13	704	0.2−	0.4−
1998 11 17	699	0.2−	1.2+	2000 02 10	704	0.6+	0.4+	2000 03 13	704	0.2+	0.3+
1998 11 17	699	0.6−	1.4+	2000 02 10	704	0.0	0.1+	2000 03 13	704	0.1−	0.6−
1998 11 17	699	0.6−	0.8+	2000 03 09	704	0.1−	0.2+	2000 03 13	704	0.4+	0.2−
1999 11 05	703	0.1+	0.3−	2000 03 09	704	0.5−	0.5+				

2000 EP₅₆ = 1997 PB₆ = 1998 XR₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17773787	ω	335.61178	−0.36793832	−0.92939770		
<i>a</i>	3.1329207	Ω	135.96135	+0.85982778	−0.35194075		
<i>e</i>	0.1250708	<i>i</i>	2.39139	+0.35400222	−0.11116484		
<i>P</i>	5.55	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 08 10	327	0.1+	0.3+	1998 12 22	704	0.9+	0.5−	2000 03 08	704	1.0−	1.2−
1997 08 10	327	0.1+	0.3+	1998 12 22	704	1.0+	0.8+	2000 03 08	704	0.2+	0.1−
1997 08 10	327	0.3−	0.4+	1998 12 22	704	0.4+	0.8−	2000 03 11	704	0.4+	0.5+
1997 08 11	691	0.4−	0.9+	1998 12 22	704	0.4+	0.4−	2000 03 11	704	0.2−	0.7+
1997 08 11	691	0.5−	0.9+	2000 02 27	703	0.5−	0.5+	2000 03 11	704	0.6−	0.3+
1997 08 11	691	0.5−	0.8+	2000 02 27	703	0.4+	1.2+	2000 03 11	704	0.3+	0.5+
1998 12 15	704	1.0+	1.5+	2000 02 27	703	0.1−	0.4+	2000 03 11	704	0.6+	0.3−
1998 12 15	704	1.3−	0.1+	2000 02 27	703	0.1+	0.5−	2000 03 14	703	0.8+	0.7+
1998 12 15	704	0.6−	0.5−	2000 03 08	704	0.6+	0.2+	2000 03 14	703	0.5−	0.2−
1998 12 15	704	1.6−	0.5+	2000 03 08	704	1.2+	1.2+	2000 03 14	703	0.1+	1.2−
1998 12 22	704	0.2−	0.1+	2000 03 08	704	0.4−	0.3+	2000 03 14	703	0.1−	0.4+

2000 EQ₅₆ = 1981 SD₈ = 1981 UE₂₅ = 1991 PP₁₅Id. G. V. Williams, S. Nakano (d, *MPC* 20606)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18500826	ω	212.48307	+0.84109458	+0.53973930		
<i>a</i>	3.0502959	Ω	114.81175	−0.48759417	+0.78480617		
<i>e</i>	0.1397326	<i>i</i>	2.22458	−0.23411926	+0.30456653		
<i>P</i>	5.33	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 09 24	033	1.4−	2.0−	1997 10 30	704	(2.2+	0.3−)	2000 02 27	703	0.8−	0.3−
1981 09 24	033	0.6+	0.9−	1997 10 30	704	1.4+	0.6−	2000 02 27	703	0.3+	0.2+
1981 10 25	675	0.1+	0.6+	1997 10 30	704	1.7+	0.3−	2000 03 08	704	0.5−	0.1+

2000 MAR. 20

M.P.C. 39493

1981 10 26	675	0.9+	1.3+	1997 10 30	704	0.7+	0.1-	2000 03 08	704	1.4+	0.1+
1991 08 06	809	0.5-	0.9-	1997 10 31	704	0.0	0.1-	2000 03 08	704	0.2+	0.5+
1991 08 06	809	0.4-	0.6-	1997 10 31	704	0.2-	0.4+	2000 03 08	704	0.5-	1.0+
1991 08 06	809	0.9-	0.2-	1997 10 31	704	0.2+	1.0+	2000 03 08	704	0.5+	0.1+
1991 08 06	675	0.0	0.7+	1997 10 31	704	1.2-	0.5+	2000 03 11	704	0.4-	1.1-
1991 08 06	675	0.4+	1.0+	1997 10 31	704	1.6-	0.1-	2000 03 11	704	0.5-	0.2-
1991 08 10	675	0.4+	0.1+	1997 11 06	704	(6.6-	0.5-)	2000 03 11	704	0.3-	0.0
1991 08 10	675	0.8+	0.4+	1997 11 06	704	(5.7-	0.7+)	2000 03 11	704	0.0	0.4-
1997 10 29	704	0.5+	1.2-	1997 11 06	704	(6.1-	0.4+)	2000 03 11	704	0.8+	0.4+
1997 10 29	704	0.2-	0.1-	1997 11 06	704	(5.4-	0.6+)	2000 03 14	703	0.3-	1.1-
1997 10 29	704	0.3-	0.3+	1997 11 06	704	(6.6-	1.3+)	2000 03 14	703	1.1-	0.9-
1997 10 29	704	0.8-	0.5+	2000 02 27	703	0.3+	1.1+	2000 03 14	703	1.0+	0.3-
1997 10 29	704	0.5-	0.4+	2000 02 27	703	0.2-	1.6+	2000 03 14	703	0.2+	0.6-

2000 ER₅₆ = 1992 AJ₂ = 1996 DX₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	326.95675	(2000.0)	
<i>n</i>	0.26064825	ω	70.03703
<i>a</i>	2.4271662	Ω	143.70261
<i>e</i>	0.1301151	<i>i</i>	2.46530
<i>P</i>	3.78	<i>H</i>	14.6
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	3

1992 01 02	691	0.4+	0.1-	2000 01 08	704	0.8-	0.3-	2000 03 08	704	0.3+	0.3+
1992 01 02	691	0.3-	0.5-	2000 01 08	704	0.3+	1.4-	2000 03 11	704	0.2-	0.1+
1992 01 02	691	0.2-	0.3-	2000 01 08	704	0.4-	1.2-	2000 03 11	704	0.3+	0.1+
1992 01 09	691	0.7+	0.3+	2000 02 27	703	0.2+	0.2+	2000 03 11	704	0.2+	0.1+
1992 01 09	691	0.6-	0.2+	2000 02 27	703	0.4-	0.1-	2000 03 11	704	0.1-	0.0
1996 02 16	010	0.0	0.2-	2000 02 27	703	0.2-	0.5-	2000 03 11	704	0.1+	0.2-
1996 02 16	010	0.5-	0.3-	2000 02 27	703	0.1-	0.0	2000 03 14	703	0.4-	0.1+
1996 02 16	010	0.7+	0.1-	2000 03 08	704	0.9+	0.3+	2000 03 14	703	0.6-	0.9-
1996 02 17	010	0.0	0.8+	2000 03 08	704	0.8+	0.5+	2000 03 14	703	1.0-	0.2+
1996 02 17	010	0.3+	0.6+	2000 03 08	704	0.0	0.5+	2000 03 14	703	0.0	0.0
1996 02 17	010	0.1+	1.2+	2000 03 08	704	0.2+	0.2-				

2000 EM₆₂ = 1998 XR₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden			
<i>M</i>	44.02187	(2000.0)	
<i>n</i>	0.19696575	ω	91.23221
<i>a</i>	2.9255593	Ω	34.67803
<i>e</i>	0.0561667	<i>i</i>	2.28852
<i>P</i>	5.00	<i>H</i>	14.0
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	5

1998 12 14	704	0.4+	0.8+	2000 02 29	809	0.0	0.0	2000 03 11	704	0.2-	0.3+
1998 12 14	704	0.9-	0.4-	2000 02 29	809	0.1-	0.1+	2000 03 11	704	0.3+	0.1+
1998 12 14	704	0.1+	0.6+	2000 03 01	809	0.0	0.4-	2000 03 11	704	0.1-	0.1-
1998 12 14	704	0.2-	0.6+	2000 03 10	704	0.0	0.4-	2000 03 11	704	0.3+	0.5+
1998 12 17	704	0.0	0.2+	2000 03 10	704	0.2-	0.5-	2000 03 14	703	0.0	0.1+
1998 12 17	704	0.2-	0.8-	2000 03 10	704	0.1-	0.0	2000 03 14	703	0.5-	0.1+
1998 12 17	704	1.3-	0.6+	2000 03 10	704	0.1+	0.1+	2000 03 14	703	0.4-	0.0
1998 12 17	704	0.7+	1.3-	2000 03 10	704	0.1-	0.1+	2000 03 14	703	0.4+	0.0
1998 12 17	704	1.6+	0.4-	2000 03 11	704	0.6+	0.0				

2000 EW₇₅ = 6796 P-L = 1998 SX₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	303.76892	(2000.0)	
<i>n</i>	0.28713004	ω	208.04607
<i>a</i>	2.2755356	Ω	13.89531
<i>e</i>	0.1151763	<i>i</i>	5.99077
<i>P</i>	3.43	<i>H</i>	15.6
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1960 09 24	675	0.9-	0.2-	1998 09 30	691	0.0	0.1+	2000 03 11	699	0.3-	0.2+
1960 09 24	675	0.0	0.0	1998 09 30	691	0.3-	0.2-	2000 03 11	699	0.7-	0.3+

1960 09 26	675	0.3-	0.0	2000 03 05	704	0.4-	1.2-	2000 03 12	704	0.0	0.1-
1960 09 26	675	0.0	0.5-	2000 03 05	704	1.2+	0.7-	2000 03 12	704	0.5-	0.1-
1960 09 28	675	0.4-	1.5+	2000 03 05	704	0.1-	1.1-	2000 03 12	704	0.2-	0.6+
1960 09 28	675	0.8+	0.4+	2000 03 05	704	0.1+	0.3+	2000 03 12	704	0.6+	1.2+
1998 09 25	691	0.0	0.0	2000 03 05	704	0.6+	0.5-	2000 03 12	704	0.3+	0.3+
1998 09 25	691	0.5+	0.5-	2000 03 11	699	0.3-	1.0+				
1998 09 30	691	0.1+	0.0	2000 03 11	699	0.1-	0.4+				

2000 EX₇₉ = 1992 WO₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	101.26838	(2000.0)	
<i>n</i>	0.30447691	ω	321.95326
<i>a</i>	2.1882645	Ω	83.07022
<i>e</i>	0.1120489	<i>i</i>	4.27708
<i>P</i>	3.24	<i>H</i>	15.2
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	5

1992 11 25	675	0.5+	0.1-	2000 03 05	704	0.3-	0.3-	2000 03 11	699	0.3-	0.1+
1992 11 25	675	0.6-	0.5-	2000 03 05	704	0.2+	0.3-	2000 03 12	704	0.1+	0.3+
1992 11 28	675	0.5+	0.1-	2000 03 05	704	0.6-	0.1-	2000 03 12	704	0.1-	0.3+
1992 11 28	675	0.4-	0.6+	2000 03 11	699	0.5+	0.2+	2000 03 12	704	0.2-	0.0
2000 03 05	704	0.2+	0.2-	2000 03 11	699	0.0	0.5+	2000 03 12	704	0.3+	0.0
2000 03 05	704	0.3-	0.4-	2000 03 11	699	0.2-	0.4-	2000 03 12	704	0.5+	0.2+

2000 EK₈₄ = 1998 XH₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	342.05766	(2000.0)	
<i>n</i>	0.19467413	ω	110.34087
<i>a</i>	2.9484734	Ω	72.50333
<i>e</i>	0.0652970	<i>i</i>	2.97801
<i>P</i>	5.06	<i>H</i>	13.6
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	5

1998 12 14	704	0.6-	1.1+	2000 02 11	704	0.1+	0.6-	2000 03 12	704	0.0	0.1+
1998 12 14	704	0.5-	1.0-	2000 02 11	704	0.3-	0.5-	2000 03 12	704	0.2-	0.0
1998 12 14	704	0.6+	0.1-	2000 02 11	704	0.2+	0.3-	2000 03 12	704	0.1-	0.3-
1998 12 14	704	0.9-	1.7+	2000 02 11	704	0.7-	0.7-	2000 03 12	704	0.1-	0.6-
1998 12 17	704	0.4+	0.1-	2000 02 11	704	0.1+	0.6-	2000 03 12	704	0.3-	0.4-
1998 12 17	704	0.6+	0.2-	2000 02 26	703	0.6-	0.2+	2000 03 15	704	0.9+	0.1-
1998 12 17	704	0.8-	1.4-	2000 02 26	703	0.1+	0.6+	2000 03 15	704	0.1+	0.7+
1998 12 17	704	0.3+	0.2+	2000 02 26	703	0.9+	0.1+	2000 03 15	704	0.1-	0.3+
1998 12 17	704	0.9+	0.5-	2000 02 26	703	0.5-	0.6+	2000 03 15	704	0.6+	1.4+
1999 01 05	699	0.2-	0.7-	2000 03 06	704	0.3-	0.5+	2000 03 15	704	0.3+	0.8+
1999 01 05	699	0.1-	0.9+	2000 03 06	704	0.1-	0.1-				
1999 01 05	699	0.3+	0.2+	2000 03 06	704	0.2-	1.1-				

2000 ES₈₄ = 1997 LY₁₆ = 1998 SN₁₀₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	334.75811	(2000.0)	
<i>n</i>	0.29055417	ω	342.27417
<i>a</i>	2.2576224	Ω	206.01694
<i>e</i>	0.1299200	<i>i</i>	6.53384
<i>P</i>	3.39	<i>H</i>	14.7
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1997 06 08	809	0.8+	0.5+	1998 09 27	704	0.5+	0.2-	2000 03 08	704	0.7-	0.6-
1997 06 08	809	0.9+	0.0	1998 09 27	704	0.3-	0.2+	2000 03 11	699	0.3+	0.1-
1997 06 08	809	0.3+	0.1+	1998 09 27	704	0.3+	1.6-	2000 03 11	699	0.4-	0.1+
1997 06 09	809	0.7-	0.6-	1998 09 27	704	0.8+	0.0	2000 03 11	699	0.5-	0.2+
1997 06 09	809	1.0-	0.1-	1998 09 27	704	(2.5-	0.4-)	2000 03 11	699	0.5-	0.3+
1997 06 09	809	0.3-	0.1+	2000 03 08	704	0.0	0.4-	2000 03 13	704	0.1-	0.3-
1998 09 26	704	1.4-	0.4-	2000 03 08	704	0.1+	0.1-	2000 03 13	704	1.4+	0.5-
1998 09 26	704	0.3+	1.6+	2000 03 08	704	0.6+	0.5+	2000 03 13	704	0.5+	0.3+
1998 09 26	704	0.1-	0.3+	2000 03 08	704	(1.0+	2.3-)	2000 03 13	704	0.5-	0.6+

2000 EP₈₅ = 1998 XK₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	258.96910		(2000.0)	P		Q	
<i>n</i>	0.18511006	ω	24.99765	−0.03718824	+0.98986357		
<i>a</i>	3.0491775	Ω	243.12778	−0.94073881	−0.08094496		
<i>e</i>	0.0546393	<i>i</i>	8.83902	−0.33708683	+0.11669627		
<i>P</i>	5.32	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 15	704	1.7+	1.1+	2000 03 04	703	0.3−	0.3+	2000 03 13	704	0.4+	0.3−
1998 12 15	704	1.3−	1.0−	2000 03 04	703	0.3−	0.6+	2000 03 13	704	0.0	0.7+
1998 12 15	704	0.0	0.8−	2000 03 04	703	0.3+	0.9−	2000 03 14	703	1.0−	0.1+
1998 12 22	704	0.9−	0.5+	2000 03 08	704	0.1+	0.6−	2000 03 14	703	0.8−	0.7−
1998 12 22	704	1.1−	0.8−	2000 03 08	704	0.6+	0.5+	2000 03 14	703	0.2+	0.5−
1998 12 22	704	1.0+	0.0	2000 03 08	704	0.7+	0.3+	2000 03 14	703	0.5+	0.2+
1998 12 22	704	0.6+	0.8+	2000 03 08	704	1.0−	1.2+				
2000 03 04	703	0.1−	0.3−	2000 03 13	704	0.7+	0.5−				

2000 EP₈₇ = 1998 SS₁₀₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	42.73831		(2000.0)	P		Q	
<i>n</i>	0.26324668	ω	48.11463	−0.48559116	−0.87253682		
<i>a</i>	2.4111679	Ω	71.01099	+0.78430319	−0.46195810		
<i>e</i>	0.1512418	<i>i</i>	3.25393	+0.38609551	−0.15897868		
<i>P</i>	3.74	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 09 26	704	1.1+	1.1+	1998 09 27	704	0.8+	1.0+	2000 03 12	704	0.0	0.8+
1998 09 26	704	1.6−	1.0−	2000 03 05	608	0.6+	0.3−	2000 03 12	704	0.6+	0.3+
1998 09 26	704	1.1−	0.4−	2000 03 05	608	0.6+	0.5+	2000 03 12	704	0.1+	0.2+
1998 09 26	704	1.4−	1.0+	2000 03 05	608	0.3+	0.1−	2000 03 14	703	0.7−	0.0
1998 09 27	704	0.4+	0.3+	2000 03 08	704	0.2+	1.8−	2000 03 14	703	0.1+	0.3+
1998 09 27	704	1.9+	1.2−	2000 03 08	704	0.2−	0.2−	2000 03 14	703	0.2−	0.2−
1998 09 27	704	0.5+	1.0−	2000 03 08	704	1.0−	0.5+	2000 03 14	703	0.2+	0.0
1998 09 27	704	0.5−	0.4+	2000 03 12	704	0.4−	0.2+				

2046 P-L = 2000 DX₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	121.95016		(2000.0)	P		Q	
<i>n</i>	0.23419529	ω	94.40982	+0.91397065	−0.40293881		
<i>a</i>	2.6066573	Ω	289.35807	+0.34923236	+0.84125065		
<i>e</i>	0.1612127	<i>i</i>	2.91243	+0.20662627	+0.36046867		
<i>P</i>	4.21	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	1.1−	0.3−	1960 10 26	675	0.7−	0.5−	1998 11 11	704	1.4−	0.1+
1960 09 26	675	0.2+	1.1+	1998 10 19	699	1.2+	1.2−	2000 02 29	704	0.3−	0.2−
1960 09 28	675	0.1+	0.6+	1998 10 19	699	0.5−	1.4−	2000 02 29	704	0.1−	0.1−
1960 09 29	675	0.0	0.9+	1998 10 19	699	0.8+	1.6−	2000 02 29	704	0.2−	0.7+
1960 10 17	675	(2.1−	3.3+)	1998 11 11	704	0.0	0.1+	2000 03 03	704	0.0	0.3+
1960 10 22	675	0.1−	0.5−	1998 11 11	704	0.6+	0.9+	2000 03 03	704	0.3+	0.1+
1960 10 25	675	1.0+	0.3+	1998 11 11	704	0.3−	1.8+	2000 03 03	704	0.5+	0.3−

2092 P-L = 1990 RR₁₂ = 1999 XA₁₂₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	83.57255		(2000.0)	P		Q	
<i>n</i>	0.22893446	ω	11.25954	+0.90694852	+0.41792375		
<i>a</i>	2.6464393	Ω	323.89041	−0.39310235	+0.79468464		
<i>e</i>	0.1241624	<i>i</i>	5.13675	−0.15137676	+0.44024545		
<i>P</i>	4.31	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1960 09 26	675	0.1+	1.6+	1999 11 13	703	0.2−	0.0	1999 12 08	704	0.1+	0.9+
1960 09 28	675	0.1+	0.4−	1999 11 13	703	0.4−	0.2+	1999 12 13	703	0.2−	0.2−
1960 09 29	675	0.3−	2.3−	1999 11 13	703	0.1−	0.2+	1999 12 13	703	0.2+	0.3−
1960 10 22	675	0.1+	0.8+	1999 11 13	703	0.0	0.2+	1999 12 13	703	0.1−	0.4+
1960 10 25	675	0.0	1.2+	1999 11 14	703	0.4−	0.2−	1999 12 13	703	0.2−	0.4−
1960 10 26	675	0.4+	1.7−	1999 11 14	703	0.3−	0.1−	1999 12 15	704	0.2+	0.2+
1990 09 15	675	0.3+	0.4+	1999 11 14	703	0.2−	0.3+	1999 12 15	704	0.4+	0.3−
1990 09 15	675	0.5−	0.0	1999 11 14	703	0.5−	0.2+	1999 12 15	704	0.4−	0.4−
1997 02 08	566	1.0−	0.3−	1999 12 07	703	0.4−	0.6−	1999 12 15	704	0.0	1.6−
1997 02 08	566	0.3−	0.2−	1999 12 07	703	0.6−	0.4+	2000 01 04	704	0.2−	0.5−
1997 02 08	566	1.1+	0.1+	1999 12 07	703	0.6−	0.5−	2000 01 04	704	0.1+	0.3−
1999 11 03	704	0.2−	0.3+	1999 12 07	703	0.8−	0.3+	2000 01 04	704	0.6+	0.7+
1999 11 03	704	0.0	0.4−	1999 12 07	699	0.7−	1.6+	2000 01 04	704	0.8+	0.9+
1999 11 03	704	0.7+	0.6−	1999 12 07	699	0.5+	1.4+	2000 01 06	704	0.1−	0.6−
1999 11 03	704	0.5−	0.8−	1999 12 07	699	0.3+	0.9+	2000 01 06	704	0.0	1.2−
1999 11 03	704	1.0+	1.2−	1999 12 08	704	0.2+	0.8+	2000 01 06	704	0.6+	0.1−
1999 11 09	699	0.1−	0.3−	1999 12 08	704	0.4+	0.5+	2000 01 06	704	0.3−	0.7−
1999 11 09	699	0.4+	0.1−	1999 12 08	704	0.0	0.7+	2000 01 06	704	0.2+	0.4−
1999 11 09	699	0.4+	0.1−	1999 12 08	704	0.3+	0.8+				

2107 P-L = 2000 EQ₉₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	290.40573		(2000.0)	P		Q	
<i>n</i>	0.28855709	ω	12.66874	−0.23444020	+0.96904955		
<i>a</i>	2.2680270	Ω	243.81578	−0.89926185	−0.24639890		
<i>e</i>	0.1491377	<i>i</i>	4.94383	−0.36927757	−0.01518380		
<i>P</i>	3.42	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1960 09 24	675	1.0+	1.7+	2000 03 01	703	0.2+	0.1−	2000 03 09	704	0.5+	0.1−
1960 09 26	675	1.6+	0.8−	2000 03 01	703	0.1−	0.1+	2000 03 09	704	0.1−	0.1−
1960 09 28	675	1.4+	0.5−	2000 03 01	703	0.8−	0.3−	2000 03 09	704	0.4+	0.1+
1960 09 29	675	2.2+	1.3+	2000 03 01	703	0.1+	0.2−	2000 03 13	704	0.1−	0.2+
1960 10 17	675	0.5+	1.4+	2000 03 09	704	0.6−	0.1−	2000 03 13	704	0.9+	0.4+
1960 10 26	675	1.0+	0.2−	2000 03 09	704	0.2−	0.1+	2000 03 13	704	0.0	0.0

2137 P-L = 1998 UD₁₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	128.97219		(2000.0)	P		Q	
<i>n</i>	0.28610415	ω	192.62841	+0.70051802	−0.71077680		
<i>a</i>	2.2809720	Ω	212.96885	+0.66452079	+0.68228878		
<i>e</i>	0.0802837	<i>i</i>	6.73317	+0.26016652	+0.17110919		
<i>P</i>	3.44	<i>H</i>	18.3	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1960 09 24	675	0.1+	1.4+	1960 09 28	675	0.5−	1.4−	1998 10 23	691	0.1−	0.3−
1960 09 24	675	0.1−	0.5−	1960 09 28	675	1.6−	0.0	1998 10 23	691	0.0	0.3−
1960 09 26	675	1.3+	0.1−	1998 10 18	691	0.1−	0.4+	1998 10 23	691	0.3+	0.3−
1960 09 26	675	0.8+	0.5+	1998 10 18	691	0.1−	0.6+				

2781 P-L = 1999 VY₇₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	65.19456		(2000.0)	P		Q	
<i>n</i>	0.27884380	ω	319.82220	+0.97813162	+0.19929372		
<i>a</i>	2.3203957	Ω	28.84664	−0.14465811	+0.85742852		
<i>e</i>	0.2313077	<i>i</i>	7.08431	−0.14944084	+0.47444530		
<i>P</i>	3.53	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1960 09 26	675	0.4+	1.7−	1999 10 29	703	1.2−	0.4+	1999 11 12	699	0.4−	0.3+
1960 09 28	675	0.8−	1.1+	1999 10 29	703	0.3−	0.1−	1999 11 14	704	0.1−	0.0
1960 09 29	675	0.6+	0.1−	1999 11 04	704	0.1+	0.3−	1999 11 14	704	0.5−	0.1−

2000 MAR. 20

M.P.C. 39495

1960 10 22	675	0.0	0.0	1999 11 04	704	0.4−	0.0	1999 11 14	704	0.4−	0.4−
1960 10 25	675	0.7+	0.3+	1999 11 04	704	0.1+	0.2+	1999 11 14	704	0.5+	0.7−
1960 10 26	675	0.3−	0.7−	1999 11 04	704	0.5+	0.1−	1999 11 14	704	0.1−	0.6−
1999 09 18	703	1.4−	0.3+	1999 11 04	704	0.1+	0.5+	1999 11 16	704	0.2−	0.1−
1999 09 18	703	0.2−	0.3+	1999 11 05	704	0.1+	0.1−	1999 11 16	704	0.3−	0.6−
1999 09 18	703	0.6+	0.0	1999 11 05	704	0.4+	0.5−	1999 11 16	704	0.3−	0.6−
1999 09 18	703	0.1+	0.4+	1999 11 05	704	0.3+	0.1+	1999 11 16	704	0.2−	0.2+
1999 10 02	703	0.3−	0.0	1999 11 05	704	0.3+	0.0	1999 11 16	704	0.3+	0.0
1999 10 02	703	0.1−	0.2+	1999 11 05	704	0.7+	0.3−	1999 12 04	703	0.7−	0.2+
1999 10 02	703	0.3−	0.2+	1999 11 07	704	0.0	0.4−	1999 12 04	703	0.8−	0.9+
1999 10 02	703	0.5−	0.7+	1999 11 07	704	0.1+	0.2−	1999 12 04	703	0.3+	0.4+
1999 10 03	704	0.1+	0.1+	1999 11 07	704	0.1+	0.3−	1999 12 04	703	0.1+	0.6+
1999 10 03	704	0.5+	0.8−	1999 11 07	704	0.3+	0.4−	2000 01 04	704	0.1−	0.1+
1999 10 03	704	0.8+	0.5+	1999 11 07	704	0.2+	0.5−	2000 01 04	704	0.3+	1.0−
1999 10 03	704	0.5−	0.8+	1999 11 11	703	0.3−	0.5+	2000 01 04	704	1.0+	0.4+
1999 10 16	691	0.6+	0.2−	1999 11 11	703	0.1−	0.2+	2000 01 06	704	0.3+	0.1+
1999 10 16	691	0.4+	0.3−	1999 11 11	703	0.3+	0.2+	2000 01 06	704	0.5+	0.6+
1999 10 16	691	0.3+	0.2−	1999 11 11	703	0.1−	0.5+	2000 01 06	704	0.4−	0.3+
1999 10 29	703	0.6−	0.3+	1999 11 12	699	0.2−	0.9+	2000 01 06	704	0.4−	1.2−
1999 10 29	703	0.6−	0.4+	1999 11 12	699	1.1+	0.2−				

3031 P-L = 2000 AU₃₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	65.12682	(2000.0)	P	Q	
<i>n</i>	0.18131956	ω	98.51683	+0.69245590	−0.70389664
<i>a</i>	3.0915264	Ω	306.41159	+0.56009239	+0.66272410
<i>e</i>	0.1567271	<i>i</i>	11.33849	+0.45475417	+0.25559009
<i>P</i>	5.44	<i>H</i>	14.1	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1960 09 24	675	0.3+	0.2+	2000 01 03	704	0.4−	0.6−	2000 02 03	704	0.7+	0.7+
1960 09 24	675	1.4+	0.9−	2000 01 03	704	0.6+	0.1+	2000 02 11	704	0.4+	1.2−
1960 09 25	675	1.3−	0.7−	2000 01 03	704	1.3−	0.3+	2000 02 11	704	1.0+	0.2+
1960 09 25	675	0.7−	0.8+	2000 01 04	704	0.3−	0.0	2000 02 11	704	0.2−	0.1+
1960 09 26	675	0.9+	0.0	2000 01 04	704	0.0	0.3+	2000 02 11	704	0.3+	0.2+
1960 09 26	675	0.2+	0.2−	2000 01 04	704	0.2−	0.2+	2000 02 12	691	0.0	1.0+
1960 09 28	675	0.2−	0.2+	2000 01 04	704	1.4−	0.3+	2000 02 12	691	0.1+	0.5−
1960 09 28	675	0.1+	0.8−	2000 01 04	704	0.4−	0.7−	2000 02 12	691	0.1+	0.5−
1998 09 25	699	0.1−	0.7+	2000 02 03	704	0.4−	0.1−	2000 02 14	691	0.0	0.5−
1998 09 25	699	0.5−	0.4+	2000 02 03	704	0.5+	0.1−	2000 02 14	691	0.3+	0.4−
1998 09 25	699	0.2−	0.3+	2000 02 03	704	0.4+	0.5+	2000 02 14	691	0.0	0.4−
2000 01 03	704	0.1+	0.7+	2000 02 03	704	0.4+	0.5+				

3038 P-L = 2000 CV₄₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	217.44183	(2000.0)	P	Q	
<i>n</i>	0.28666841	ω	22.17973	+0.45332348	+0.88252995
<i>a</i>	2.2779778	Ω	274.96877	−0.83548732	+0.37182659
<i>e</i>	0.1764290	<i>i</i>	7.21116	−0.31057811	+0.28789908
<i>P</i>	3.44	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1960 09 24	675	0.9+	0.3+	1960 09 27	675	2.0−	0.1+	2000 02 02	704	0.1−	0.4+
1960 09 24	675	0.2−	0.2−	1960 09 28	675	1.0+	0.7+	2000 02 02	704	0.1+	0.1+
1960 09 24	675	0.7+	1.1−	1960 09 28	675	0.1+	0.5+	2000 02 02	704	1.7−	0.1+
1960 09 25	675	0.7+	1.7+	1960 09 28	675	0.3−	0.4−	2000 02 06	704	0.3+	0.3+
1960 09 25	675	0.4−	0.8−	1960 09 29	675	1.3−	1.3−	2000 02 06	704	0.2+	0.1+
1960 09 26	675	0.4+	0.6+	1960 09 29	675	1.0−	0.5+	2000 02 06	704	0.8+	0.4−
1960 09 26	675	1.0+	0.8−	1960 10 17	675	0.2−	1.0−	2000 02 06	704	0.8−	0.5−
1960 09 26	675	0.0	0.2+	1960 10 17	675	0.6+	1.3+	2000 02 06	704	1.2+	0.1−

3048 P-L = 1999 RT₁₉₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	23.38212	(2000.0)	P	Q	
<i>n</i>	0.17662995	ω	130.58017	+0.95258822	+0.26226018
<i>a</i>	3.1460079	Ω	215.02964	−0.28821479	+0.94025697
<i>e</i>	0.2314376	<i>i</i>	15.58934	+0.09750854	+0.21710926
<i>P</i>	5.58	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.7−	1.0+	1960 09 28	675	0.8−	0.5+	1999 09 08	704	0.2+	0.8+
1960 09 24	675	0.4+	0.2+	1960 09 28	675	0.8−	0.5+	1999 09 08	704	0.2+	0.7−
1960 09 25	675	0.4+	0.3+	1960 09 29	675	0.2−	0.6+	1999 09 08	704	0.3+	0.9+
1960 09 25	675	1.0+	0.6−	1960 09 29	675	0.6−	0.0	1999 09 16	704	0.6−	0.8−
1960 09 26	675	0.5+	0.9+	1999 07 12	704	0.4−	1.1−	1999 09 16	704	0.6+	0.5−
1960 09 26	675	1.3+	0.6−	1999 07 12	704	0.9−	0.2−	1999 09 16	704	0.3+	0.0
1960 09 26	675	0.7+	0.3−	1999 07 12	704	0.3+	0.5+	1999 09 16	704	0.5+	0.6+
1960 09 27	675	0.3−	1.2−	1999 07 12	704	0.2+	0.2+	1999 10 04	704	1.0+	0.1+
1960 09 27	675	1.0−	1.3−	1999 07 12	704	0.1−	0.3+	1999 10 04	704	0.3−	0.4+
1960 09 28	675	0.1+	0.3−	1999 09 08	704	0.1+	0.7−	1999 10 04	704	1.6−	0.3+

3064 P-L = 2000 CL₃₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	123.66114	(2000.0)	P	Q	
<i>n</i>	0.28362282	ω	38.76040	+0.99513050	−0.07351299
<i>a</i>	2.2942563	Ω	325.28527	+0.03286889	+0.87551264
<i>e</i>	0.1288847	<i>i</i>	6.62061	+0.09292429	+0.47757036
<i>P</i>	3.48	<i>H</i>	15.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1960 09 25	675	0.1−	0.5−	1998 08 27	699	0.5+	0.4+	2000 02 03	704	0.3+	0.6+
1960 09 27	675	0.2−	0.2+	1998 08 27	699	0.3+	0.5+	2000 02 05	704	0.5+	1.2+
1960 09 28	675	0.9+	0.4−	1998 08 27	699	0.5−	1.3+	2000 02 05	704	0.3−	0.7+
1960 09 29	675	0.2−	0.1+	2000 01 06	704	0.3−	0.2−	2000 02 05	704	0.9−	0.7−
1998 08 17	704	0.0	0.2−	2000 01 06	704	0.7−	0.1+	2000 02 05	704	0.6+	0.4+
1998 08 17	704	1.3−	0.1−	2000 01 06	704	0.7+	0.1−	2000 02 08	049	(2.1+	0.8−)
1998 08 17	704	0.5−	0.1−	2000 01 30	703	0.6−	0.9+	2000 02 08	049	1.8+	0.5−
1998 08 17	704	0.1+	0.3+	2000 01 30	703	0.8−	0.5+	2000 02 08	049	(2.4+	1.1−)
1998 08 17	704	0.9−	0.1−	2000 01 30	703	0.0	0.2−	2000 02 11	704	0.5+	0.1−
1998 08 23	704	0.9−	1.5+	2000 01 30	703	0.2−	0.3+	2000 02 11	704	0.4+	0.0
1998 08 23	704	1.7+	1.9−	2000 02 03	704	0.0	0.5+	2000 02 11	704	1.1−	0.6+
1998 08 23	704	1.1−	1.6+	2000 02 03	704	0.3−	0.0	2000 02 11	704	1.5+	0.1−
1998 08 23	704	0.6+	1.0+	2000 02 03	704	0.1−	0.5+	2000 02 11	704	0.5+	0.6−
1998 08 23	704	(4.2−	0.3+)	2000 02 03	704	0.2+	0.6+				

3075 P-L = 2000 AF₂₁₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	99.09851	(2000.0)	P	Q	
<i>n</i>	0.18258276	ω	57.78986	+0.98200272	−0.15923188
<i>a</i>	3.0772506	Ω	311.15961	+0.09265268	+0.87476695
<i>e</i>	0.2580477	<i>i</i>	7.75312	+0.16457867	+0.45763304
<i>P</i>	5.40	<i>H</i>	15.1	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.3−	0.7+	1960 09 29	675	0.6−	0.1+	2000 01 11	691	0.1−	0.1−
1960 09 25	675	0.3−	0.7−	1960 10 17	675	0.8+	0.6−	2000 03 04	691	0.0	0.0
1960 09 26	675	0.4+	0.9+	1960 10 17	675	0.2−	0.6+	2000 03 04	691	0.2−	0.3+
1960 09 26	675	1.5+	1.3−	1960 10 22	675	1.0−	0.5+	2000 03 04	691	0.2−	0.1+
1960 09 27	675	0.6+	1.0−	2000 01 05	691	0.0	0.0	2000 03 10	691	0.2−	0.2−
1960 09 27	675	1.1−	0.5+	2000 01 05	691	0.0	0.1+	2000 03 10	691	0.2+	0.1+
1960 09 28	675	0.6+	0.7−	2000 01 05	691	0.4−	0.1−	2000 03 10	691	0.2+	0.1−
1960 09 28	675	0.5−	0.8+	2000 01 11	691	0.1+	0.1−				
1960 09 28	675	0.1+	0.2+	2000 01 11	691	0.3+	0.2−				

3103 P-L = 1999 XC₆₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	60.91794		(2000.0)		P		Q
<i>n</i>	0.18048392	ω	139.90624		+0.92844754		-0.34190005
<i>a</i>	3.1010614	Ω	240.65567		+0.28360418		+0.90492073
<i>e</i>	0.0956238	<i>i</i>	9.59011		+0.23990380		+0.25342224
<i>P</i>	5.46	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1960 09 24	675	0.3-	0.6-	1999 11 12	704	0.4-	0.2-	1999 12 07	704	0.2-	0.0
1960 09 26	675	0.3-	0.7+	1999 11 12	704	0.5-	0.8-	1999 12 07	704	0.4+	0.2+
1960 09 29	675	0.2+	0.9+	1999 11 12	704	0.6-	0.2-	1999 12 07	704	0.3+	0.5+
1998 08 27	704	0.3-	1.0-	1999 11 15	704	0.6+	0.1-	1999 12 08	704	0.1+	0.2-
1998 08 27	704	0.4+	1.8+	1999 11 15	704	0.1-	0.5-	1999 12 08	704	0.1+	0.4-
1998 08 27	704	0.3+	1.7-	1999 11 15	704	0.4+	0.3-	1999 12 08	704	0.1-	0.2+
1998 08 27	704	(5.6-	0.4-)	1999 12 07	704	0.4-	0.4+	1999 12 08	704	0.4+	0.7+
1999 11 12	704	0.4-	0.0	1999 12 07	704	0.1-	0.2-	1999 12 08	704	0.3+	0.2+

3118 P-L = 2000 AD₃₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	310.26947		(2000.0)		P		Q
<i>n</i>	0.25807363	ω	241.59173		-0.98874923		-0.08565048
<i>a</i>	2.4432822	Ω	293.26986		+0.13173104		-0.88698902
<i>e</i>	0.0494557	<i>i</i>	7.67145		-0.07086534		-0.45377800
<i>P</i>	3.82	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.7-	0.3-	2000 01 03	704	0.2+	0.2+	2000 01 06	120	1.4+	0.5+
1960 09 26	675	(3.3+	1.2-)	2000 01 03	704	0.1-	0.5+	2000 01 08	704	0.0	0.1-
1960 09 28	675	0.8-	0.6-	2000 01 04	704	1.0-	0.0	2000 01 08	704	0.3+	0.7+
1960 09 28	675	1.2+	1.2+	2000 01 04	704	1.0-	1.1-	2000 01 08	704	0.3-	0.1-
1960 09 28	675	0.2+	0.0	2000 01 04	704	0.1+	1.0+	2000 01 08	704	0.0	0.0
1998 08 17	704	0.3+	1.0+	2000 01 06	704	0.4+	0.7+	2000 01 08	704	0.1-	0.4-
1998 08 17	704	0.1+	0.1-	2000 01 06	704	1.0-	0.3+	2000 01 15	691	0.3+	0.1+
1998 08 17	704	0.6+	1.6-	2000 01 06	704	0.1-	0.1-	2000 01 15	691	0.4+	0.1+
1998 08 17	704	(3.5-	1.0-)	2000 01 06	704	0.6+	0.1-	2000 01 15	691	0.3+	0.0
1998 08 27	704	0.9-	0.3+	2000 01 06	704	0.2+	0.9-	2000 01 27	691	0.3-	0.3+
1998 08 27	704	0.3-	1.4+	2000 01 06	704	0.3-	0.9-	2000 01 27	691	0.0	0.7+
1998 08 27	704	0.3-	0.0	2000 01 06	704	1.1+	0.6-	2000 01 27	691	0.2-	0.3-
1998 08 27	704	0.8+	1.4-	2000 01 06	704	0.1+	0.7-	2000 02 02	704	0.1+	0.4-
1998 08 27	704	(4.8-	0.5-)	2000 01 06	704	1.0-	0.3+	2000 02 02	704	0.3+	0.1-
2000 01 03	704	1.0-	0.1+	2000 01 06	704	0.2+	0.0	2000 02 02	704	0.2+	0.2-
2000 01 03	704	0.7+	0.2+	2000 01 06	120	0.6-	0.3+				

3515 P-L = 2000 AX₁₄₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	60.52885		(2000.0)		P		Q
<i>n</i>	0.18104153	ω	141.35624		+0.47070335		-0.86517020
<i>a</i>	3.0946906	Ω	279.94126		+0.75958823		+0.49711202
<i>e</i>	0.1969020	<i>i</i>	10.11401		+0.44884749		+0.06603151
<i>P</i>	5.44	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1960 10 17	675	0.2+	1.2-	2000 01 05	704	0.4+	0.3-	2000 02 02	704	0.2+	0.5-
1960 10 17	675	0.4+	1.7+	2000 01 05	704	0.8-	1.0-	2000 02 06	704	0.5+	0.2-
1960 10 22	675	0.0	0.1-	2000 01 08	704	0.7-	0.9+	2000 02 06	704	0.3+	0.1+
1960 10 22	675	0.5+	1.0+	2000 01 08	704	0.2-	0.3-	2000 02 06	704	0.4+	0.0
1960 10 25	675	0.3+	0.4-	2000 01 08	704	0.3-	0.1+	2000 02 06	704	0.2+	0.3+
1960 10 25	675	1.7-	0.8-	2000 01 08	704	1.4-	1.2+	2000 02 06	704	0.7+	0.7+
1998 10 18	699	0.1+	0.1-	2000 02 02	704	1.1+	0.2+	2000 03 09	608	0.2+	0.4+
1998 10 18	699	0.6+	0.0	2000 02 02	704	1.1+	0.0	2000 03 09	608	0.9-	0.1-

1998 10 18	699	0.7-	0.1+	2000 02 02	704	0.7+	0.0	2000 03 09	608	1.4-	0.5-
2000 01 05	704	0.7-	0.9-	2000 02 02	704	0.2+	0.5-				

3552 P-L = 2000 AY₁₃₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	355.82913		(2000.0)		P		Q
<i>n</i>	0.17759747	ω	226.40887		+0.18187804		-0.96945009
<i>a</i>	3.1345717	Ω	214.15128		+0.96535736		+0.20788283
<i>e</i>	0.2157156	<i>i</i>	17.04797		+0.18709767		-0.13019695
<i>P</i>	5.55	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1960 10 22	675	1.0-	0.7+	1999 11 05	704	0.0	0.2+	2000 01 05	704	0.0	0.9-
1960 10 24	675	0.3+	1.2-	1999 11 05	704	0.2-	0.3+	2000 01 05	704	0.1+	0.0
1960 10 26	675	0.8+	0.2-	1999 11 05	704	0.3-	0.1+	2000 01 05	704	0.6+	0.2-
1999 10 03	704	0.3+	0.0	1999 11 15	704	0.6-	0.5+	2000 01 05	704	0.2+	0.4+
1999 10 03	704	0.1+	0.3+	1999 11 15	704	0.2+	0.1-	2000 01 06	699	0.1-	0.1+
1999 10 03	704	0.2-	0.4+	1999 11 15	704	0.0	0.2-	2000 01 06	699	0.7-	0.5-
1999 10 03	704	0.1+	0.3+	1999 11 15	704	0.1+	0.1-	2000 01 06	699	0.2+	0.4+
1999 10 03	704	0.2-	0.2-	1999 11 15	704	0.2-	0.2-	2000 01 08	704	0.1-	0.2-
1999 10 20	704	0.0	0.2-	1999 12 05	704	0.2+	0.5+	2000 01 08	704	0.4-	0.0
1999 10 20	704	0.3-	0.1-	1999 12 05	704	0.3+	0.3-	2000 01 08	704	0.3-	0.4-
1999 10 20	704	0.1-	0.2+	1999 12 05	704	0.7+	0.4+	2000 01 08	704	0.0	0.6-
1999 10 20	704	0.1+	0.0	1999 12 05	704	0.3+	0.2-	2000 01 08	704	0.1+	0.2-
1999 10 20	704	0.1-	0.3+	1999 12 05	704	0.1+	0.3-	2000 02 06	704	0.5+	0.1+
1999 10 30	703	0.3-	0.2+	1999 12 14	704	0.1-	1.2+	2000 02 06	704	0.7-	0.1-
1999 10 30	703	0.2+	0.5+	1999 12 14	704	0.9+	0.6-	2000 02 06	704	0.3-	1.2+
1999 10 30	703	0.1-	0.2+	1999 12 14	704	0.0	0.4-	2000 02 06	704	0.2-	0.0
1999 10 30	703	0.1-	0.4+	1999 12 14	704	0.1-	0.5-	2000 02 06	704	0.2-	0.5+
1999 11 05	704	0.1-	0.4+	1999 12 14	704	0.2+	0.8-				
1999 11 05	704	0.6+	1.2-	2000 01 05	704	0.6-	0.3+				

4051 P-L = 1999 VW₁₀₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	71.46850		(2000.0)		P		Q
<i>n</i>	0.22948081	ω	92.23100		+0.98726910		+0.15623553
<i>a</i>	2.6422372	Ω	258.78156		-0.15533459		+0.90668558
<i>e</i>	0.2145428	<i>i</i>	1.74304		-0.03421817		+0.39180572
<i>P</i>	4.29	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.5-	0.4-	1999 11 09	704	0.1+	0.1-	1999 11 16	704	0.3-	0.0
1960 09 25	675	0.2+	0.1-	1999 11 09	704	0.2+	0.0	1999 11 16	704	0.8+	0.2+
1960 09 26	675	0.1+	0.5+	1999 11 09	704	0.2-	0.4+	1999 11 16	704	0.7+	0.8+
1960 09 28	675	0.2+	0.9+	1999 11 09	704	0.1-	0.5+	1999 11 16	704	0.6-	0.5-
1960 10 17	675	0.6-	0.8-	1999 11 12	704	0.2-	0.8+	1999 12 08	704	0.7-	0.8-
1960 10 17	675	0.8+	0.9+	1999 11 12	704	0.0	0.0	1999 12 08	704	1.0+	0.3-
1960 10 22	675	0.1+	1.3-	1999 11 12	704	0.5-	0.3+	1999 12 08	704	0.3-	0.3-
1960 10 24	675	0.3-	0.1+	1999 11 12	704	1.1+	0.0	1999 12 08	704	0.8-	0.4-
1960 10 26	675	0.1+	0.3-	1999 11 12	704	0.5-	0.5-				
1999 11 09	704	0.6-	0.0	1999 11 16	704	0.9+	0.3+				

4180 P-L = 1999 VQ₁₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	266.11224		(2000.0)		P		Q
<i>n</i>	0.28040349	ω	205.33387		-0.99889395		-0.04361894
<i>a</i>	2.3117832	Ω	332.14905		+0.04693529		-0.90256704
<i>e</i>	0.0722304	<i>i</i>	2.15383		+0.00282127		-0.42833412
<i>P</i>	3.51	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.8-	0.3+	1995 08 22	809	0.6-	0.2+	1999 11 14	703	1.2-	0.1+
1960 09 24	675	0.3+	0.4+	1995 08 26	809	0.1-	1.8-	1999 11 14	703	0.4-	0.4+

2000 MAR. 20

M.P.C. 39497

1960 09 25	675	1.2−	0.6+	1995 08 27	809	(1.3−	2.5−)	1999 11 16	704	0.4+	0.2−
1960 09 26	675	0.4+	0.5−	1999 11 03	704	0.3+	0.2−	1999 11 16	704	0.1+	0.5−
1960 09 26	675	0.4+	0.6+	1999 11 03	704	0.1+	0.4+	1999 11 16	704	0.7+	0.1−
1960 09 26	675	0.8+	0.9−	1999 11 03	704	0.3+	0.4+	1999 11 16	704	0.6+	0.3+
1960 09 27	675	(3.1+	1.2+)	1999 11 03	704	0.5+	0.2+	1999 11 16	704	0.4+	0.5−
1960 09 28	675	0.1−	0.5−	1999 11 14	704	0.0	0.5−	1999 12 08	704	0.1−	0.1+
1960 09 28	675	1.0+	0.5−	1999 11 14	704	0.4+	0.7−	1999 12 08	704	0.4+	0.3+
1960 10 17	675	0.4−	0.5+	1999 11 14	704	0.0	0.9−	1999 12 08	704	0.1−	0.3+
1960 10 24	675	1.2−	0.1−	1999 11 14	703	0.4−	0.4−	1999 12 08	704	0.4−	0.4+
1960 10 26	675	0.7+	0.3+	1999 11 14	704	0.3−	0.5−	1999 12 08	704	0.4+	0.8+
1995 08 19	809	0.0	0.5+	1999 11 14	703	(2.3−	0.5+)				
1995 08 20	809	0.6+	1.2+	1999 11 14	704	1.8−	0.6+				

4225 P-L = 2000 AY₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	58.76156		(2000.0)		P		Q
<i>n</i>	0.18118400	ω	67.82657		+0.59354148		−0.80451654
<i>a</i>	3.0930681	Ω	345.70294		+0.70263380		+0.53102514
<i>e</i>	0.1818625	<i>i</i>	4.99135		+0.39244649		+0.26601773
<i>P</i>	5.44	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1960 09 24	675	0.7−	0.2+	1960 10 17	675	0.0	0.2−	2000 01 03	704	0.4+	0.8−
1960 09 25	675	0.2+	0.2−	2000 01 03	704	1.1+	0.8+	2000 01 04	704	1.1−	0.3−
1960 09 26	675	0.1−	0.1−	2000 01 03	704	0.5+	0.0	2000 01 04	704	1.5−	0.1+
1960 09 28	675	0.7+	0.3+	2000 01 03	704	0.8+	0.8−	2000 01 04	704	0.2−	1.1+

4239 P-L = 1991 NF₈ = 2000 CK₇₅Id. M. E. Sansaturio; 1998 FC₃₀ = 1991 NF₈ (*MPC* 32685) is invalid

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	239.89252		(2000.0)		P		Q
<i>n</i>	0.18769026	ω	297.63583		+0.33219005		+0.94273130
<i>a</i>	3.0211681	Ω	351.59710		−0.77636085		+0.25514980
<i>e</i>	0.1456483	<i>i</i>	11.89638		−0.53564316		+0.21484012
<i>P</i>	5.25	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1960 09 24	675	0.1−	0.3−	2000 02 04	704	0.1+	0.4−	2000 03 05	704	0.0	0.7+
1960 09 25	675	0.1+	0.1−	2000 02 04	704	0.4−	0.1+	2000 03 05	704	0.2+	0.8+
1960 09 26	675	0.2+	0.0	2000 02 10	704	0.5+	0.5−	2000 03 05	704	0.5+	0.5+
1960 09 28	675	0.1−	0.4+	2000 02 10	704	0.2+	0.3+	2000 03 05	704	0.2+	0.3+
1991 07 13	675	0.1+	0.1+	2000 02 10	704	1.5+	0.1−	2000 03 11	699	0.1−	0.2+
1991 07 13	675	0.4−	0.4+	2000 02 11	704	0.5−	0.1+	2000 03 11	699	0.2−	0.3−
1995 03 05	033	0.7−	1.0−	2000 02 11	704	0.5−	0.2−	2000 03 11	699	0.2−	0.5+
1995 03 05	033	0.3−	0.2−	2000 02 11	704	0.3−	0.0	2000 03 11	699	0.5−	0.1+
2000 02 01	703	0.5+	0.4−	2000 02 11	704	0.1−	0.5−	2000 03 12	704	0.1−	0.2+
2000 02 01	703	0.4+	0.6−	2000 02 11	704	0.0	0.5−	2000 03 12	704	0.2+	0.0
2000 02 01	703	0.2−	0.2+	2000 02 25	703	0.7−	0.3+	2000 03 12	704	0.0	0.4+
2000 02 01	703	0.3+	0.3−	2000 02 25	703	0.9−	0.7−	2000 03 12	704	0.0	0.8+
2000 02 04	704	0.4+	0.2+	2000 02 25	703	0.6−	1.1−	2000 03 12	704	0.2−	0.7+
2000 02 04	704	0.5+	0.3−	2000 02 25	703	0.7−	0.4−				
2000 02 04	704	1.3+	1.4+	2000 03 05	704	0.5+	0.4+				

5567 P-L = 1998 HK₇₀ = 1999 VX₁₃₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	157.71055		(2000.0)		P		Q
<i>n</i>	0.27959372	ω	218.47408		−0.23689241		+0.96815736
<i>a</i>	2.3162447	Ω	38.01869		−0.85567633		−0.16845499
<i>e</i>	0.2033215	<i>i</i>	7.55246		−0.46010870		−0.18518706
<i>P</i>	3.53	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1960 10 17	675	1.3−	1.0+	1998 04 22	704	0.0	0.8+	1999 10 29	703	0.3+	0.3−
1960 10 22	675	0.7+	0.0	1998 04 22	704	0.6−	1.3+	1999 11 09	704	0.3+	0.1+

1960 10 25	675	0.1+	0.3−	1998 05 16	704	0.4+	0.8−	1999 11 09	704	0.1−	0.2+
1960 10 26	675	0.3+	0.4−	1998 05 16	704	1.0+	0.1−	1999 11 09	704	0.7+	0.4+
1998 03 25	699	0.2−	0.1−	1998 05 16	704	0.2−	1.0−	1999 11 09	704	0.1+	0.3+
1998 03 25	699	0.1+	0.3−	1998 05 16	704	0.4−	0.1−	1999 11 14	704	0.1−	0.2+
1998 03 25	699	0.6+	0.4−	1998 05 16	704	0.2−	1.5+	1999 11 14	704	0.0	0.2+
1998 04 21	704	0.1+	0.1−	1999 10 20	704	0.3−	0.4+	1999 11 14	704	0.1−	0.2+
1998 04 21	704	0.4+	0.0	1999 10 20	704	0.1+	0.0	1999 11 14	704	0.6−	0.2−
1998 04 21	704	0.6+	0.1−	1999 10 20	704	0.2−	0.5−	1999 11 14	704	0.6−	0.2+
1998 04 21	704	0.3+	0.1−	1999 10 20	704	0.7+	0.0	1999 12 07	704	0.2−	0.6−
1998 04 21	704	0.5−	0.5+	1999 10 20	704	0.8+	0.9+	1999 12 07	704	0.1−	1.2−
1998 04 22	704	0.1−	0.0	1999 10 29	703	(2.0−	0.1+)	1999 12 07	704	0.3−	1.0+
1998 04 22	704	0.1+	0.1+	1999 10 29	703	1.0−	0.1−	1999 12 07	704	0.2−	0.3+
1998 04 22	704	0.6−	0.2+	1999 10 29	703	(2.2+	1.6+)				

6061 P-L = 2000 EC₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	252.74531		(2000.0)		P		Q
<i>n</i>	0.26523645	ω	318.25491		+0.67743818		+0.73556956
<i>a</i>	2.3990939	Ω	354.38491		−0.66399315		+0.60924156
<i>e</i>	0.2202634	<i>i</i>	2.26279		−0.31652900		+0.29624677
<i>P</i>	3.72	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1960 09 24	675	0.3−	0.7+	1960 10 26	675	0.4−	0.0	2000 03 09	704	1.5−	1.2+
1960 09 25	675	0.2−	0.1+	2000 03 04	703	0.5−	1.5−	2000 03 10	704	0.2−	0.8−
1960 09 26	675	0.6−	0.8+	2000 03 04	703	0.4+	0.0	2000 03 10	704	1.5+	0.5+
1960 09 28	675	0.9+	0.1+	2000 03 04	703	0.2−	0.9+	2000 03 10	704	0.7+	0.4+
1960 10 17	675	0.1−	0.2−	2000 03 04	703	0.8+	0.5+	2000 03 10	704	0.6+	0.1+
1960 10 22	675	0.4−	1.2+	2000 03 09	704	0.1+	1.1+				
1960 10 24	675	0.1−	0.0	2000 03 09	704	0.1−	0.7+				

6069 P-L = 1992 OE₉ = 2000 DS₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	265.27584		(2000.0)		P		Q
<i>n</i>	0.21286931	ω	289.24854		−0.15134598		+0.98838905
<i>a</i>	2.7779687	Ω	332.03593		−0.89578312		−0.14290247
<i>e</i>	0.1590717	<i>i</i>	1.64627		−0.41793181		−0.05163303
<i>P</i>	4.63	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.1+	0.3−	2000 02 11	704	0.1−	0.1+	2000 03 05	704	0.3−	0.3+
1960 09 25	675	0.9+	0.4−	2000 02 11	704	0.1−	0.2−	2000 03 05	704	0.2−	0.1+
1960 09 26	675	0.2−	0.1−	2000 02 11	704	0.6−	1.4+	2000 03 08	704	0.7−	0.0
1960 09 28	675	0.2+	0.6+	2000 02 25	703	0.0	1.1+	2000 03 08	704	0.1+	0.7−
1960 10 17	675	1.6−	0.7+	2000 02 25	703	0.1+	0.3+	2000 03 08	704	0.2+	0.3+
1960 10 22	675	0.9−	0.6+	2000 02 25	703	0.5−	1.7+	2000 03 08	704	0.6+	0.3+
1960 10 24	675	0.9+	0.6+	2000 02 25	703	0.6−	0.2−	2000 03 08	704	1.0+	0.2−
1960 10 26	675	0.4−	0.7+	2000 02 26	691	0.0	1.4−	2000 03 09	704	0.2+	0.1−
1992 07 26	809	(0.9+	2.3+)	2000 02 26	691	0.1+	0.6−	2000 03 09	704	0.1−	0.4−
1992 07 26	809	(1.3+	2.1+)	2000 02 26	691	0.2+	0.6−	2000 03 09	704	0.3+	0.2−
1992 07 26	809	(1.6+	2.1+)	2000 02 29	704	0.2+	0.5+	2000 03 09	704	0.4+	0.5−
1992 07 27	809	0.5−	0.5+	2000 02 29	704	0.1+	0.1+	2000 03 09	704	0.4+	0.4−
1992 07 27	809	0.2−	0.4+	2000 02 29	704	0.3+	0.6+	2000 03 10	691	0.2−	0.5−
1992 07 27	809	0.3+	0.4+	2000 02 29	704	0.2−	0.0	2000 03 10	691	0.0	0.6−
1992 07 28	809	(6.7−	1.2−)	2000 02 29	704	0.3+	1.0+	2000 03 10	691	0.0	0.4−
1992 07 28	809	(6.0−	1.5−)	2000 03 03	704	0.2+	1.4+	2000 03 11	704	0.0	0.2−
1992 07 28	809	(5.8−	1.8−)	2000 03 03	704	0.3+	0.2+	2000 03 11	704	0.4−	0.7+
1996 05 20	566	0.4+	0.3+	2000 03 03	704	0.6−	0.0	2000 03 11	704	0.4−	0.7+
1996 05 20	566	0.0	0.1+	2000 03 03	704	0.1−	0.4+	2000 03 11	704	0.4−	0.4+
1996 05 20	566	0.0	0.6+	2000 03 03	704	0.0	0.2+	2000 03 11	704	0.3−	0.9+
2000 01 07	704	0.7+	0.0	2000 03 04	691	0.0	0.2−	2000 03 11	691	0.2−	0.5−
2000 01 07	704	0.3+	0.6−	2000 03 04	691	0.0	0.2−	2000 03 11	691	0.1−	0.6−
2000 01 07	704	0.9+	0.5+	2000 03 04	691	0.1+	0.3−	2000 03 11	691	0.1−	0.5−
2000 01 07	704	0.1−	0.6−	2000 03 05	704	0.1−	0.5+	2000 03 12	691	0.4−	0.2−
2000 02 11	704	1.7+	0.9−	2000 03 05	704	0.1−	0.6+	2000 03 12	691	0.3−	0.2−
2000 02 11	704	0.0	0.5+	2000 03 05	704	0.3+	0.6+	2000 03 12	691	0.4−	0.2−

6126 P-L = 1999 XQ₂₀₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28096055	ω	10.33009	+0.97113506	−0.23844393		
<i>a</i>	2.3087265	Ω	3.48435	+0.21062453	+0.84458301		
<i>e</i>	0.1966584	<i>i</i>	6.06153	+0.11195537	+0.47939966		
<i>P</i>	3.51	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.2−	0.2−	1960 10 24	675	0.2−	1.0−	1999 12 15	704	0.1+	0.1+
1960 09 25	675	0.1+	0.5+	1960 10 26	675	0.5−	0.3+	1999 12 15	704	0.1−	0.1+
1960 09 26	675	0.3+	1.1−	1999 12 12	704	0.1−	0.1+	1999 12 15	704	0.8−	0.2+
1960 09 28	675	0.0	0.3+	1999 12 12	704	1.0+	0.5−	2000 01 02	704	0.7+	0.4+
1960 10 17	675	0.3+	0.5+	1999 12 12	704	0.1+	0.4−	2000 01 02	704	0.0	0.2+
1960 10 22	675	0.1+	0.8+	1999 12 12	704	0.8−	0.7−	2000 01 02	704	0.3−	0.3+

6290 P-L = 1992 LD₁ = 1999 RP₇₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30230793	ω	40.03500	−0.39584018	+0.91787809		
<i>a</i>	2.1987188	Ω	206.68286	−0.85793120	−0.38068782		
<i>e</i>	0.1527386	<i>i</i>	3.63463	−0.32751277	−0.11214545		
<i>P</i>	3.26	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.5−	0.5+	1992 06 03	809	0.8+	0.1−	1999 09 07	704	0.1−	0.5−
1960 09 24	675	0.1−	0.2−	1992 06 03	809	0.1−	0.4+	1999 09 14	704	0.1+	0.0
1960 09 25	675	0.4−	0.6+	1992 06 03	809	0.7−	0.5−	1999 09 14	704	0.2−	1.2−
1960 09 25	675	1.9+	0.5+	1999 09 04	703	1.6+	0.1+	1999 09 14	704	0.0	0.7+
1960 09 26	675	0.7−	0.1+	1999 09 04	703	0.3+	0.8+	1999 09 14	704	0.1−	0.3+
1960 09 26	675	0.5+	1.5−	1999 09 04	703	1.6−	0.4+	1999 09 14	704	0.9−	0.6−
1960 09 28	675	0.9−	0.6+	1999 09 04	703	0.6+	1.3+	1999 10 06	704	0.2−	0.4−
1960 09 28	675	0.0	0.1−	1999 09 07	704	0.2+	0.0	1999 10 06	704	0.1−	0.7−
1992 06 01	809	(0.3−	2.9+)	1999 09 07	704	0.6+	1.0+	1999 10 06	704	0.0	0.4−
1992 06 01	809	(2.7−	2.4+)	1999 09 07	704	0.0	0.1−	1999 10 06	704	0.1+	0.6−
1992 06 01	809	(3.7−	1.4+)	1999 09 07	704	0.1+	0.0	1999 10 06	704	0.2−	0.7−

6595 P-L = 2000 DG₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26481926	ω	101.50468	+0.00544607	+0.99997525		
<i>a</i>	2.4016129	Ω	168.80449	−0.92617782	+0.00672337		
<i>e</i>	0.1575806	<i>i</i>	1.31441	−0.37704772	−0.00207163		
<i>P</i>	3.72	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1960 09 24	675	0.3+	1.3−	2000 02 27	703	0.4+	0.7+	2000 03 10	704	0.1−	0.3−
1960 09 26	675	0.4+	2.0−	2000 02 27	703	0.3−	0.5−	2000 03 10	704	0.1−	0.2−
1960 09 27	675	0.4+	0.3−	2000 02 27	703	0.5+	0.4+	2000 03 10	704	0.2−	0.3+
1960 09 28	675	0.4+	0.0	2000 02 27	691	0.1−	0.6−	2000 03 10	704	0.0	0.4+
1960 10 17	675	0.0	0.4+	2000 02 27	703	1.1−	0.1+	2000 03 10	704	0.1+	0.6+
1960 10 22	675	1.3−	0.9+	2000 02 27	691	0.2−	0.6−	2000 03 11	704	0.3+	0.1−
1960 10 24	675	0.3+	1.5+	2000 02 27	691	0.3−	0.6−	2000 03 11	704	0.1+	0.2+
1960 10 26	675	0.5−	1.4+	2000 03 03	691	0.4−	0.6−	2000 03 11	704	0.5+	0.7+
1996 02 12	327	0.8+	0.1−	2000 03 03	691	0.3−	1.0−	2000 03 11	704	0.0	0.4+
1996 02 12	327	0.5+	0.1+	2000 03 03	691	0.1−	0.5−	2000 03 11	704	0.5+	0.7+
1996 02 12	327	1.0−	0.4−	2000 03 08	704	0.0	0.4−	2000 03 14	703	0.4+	0.4+
1996 02 12	327	0.5−	0.5−	2000 03 08	704	0.4+	0.5+	2000 03 14	703	0.7+	0.5+
1997 08 14	910	0.0	0.1−	2000 03 08	704	0.1+	0.3−	2000 03 14	703	0.1+	0.3−
1997 08 14	910	0.0	0.1−	2000 03 08	704	0.4−	0.1+	2000 03 14	703	0.0	0.6+
1997 08 14	910	0.1+	0.0	2000 03 08	704	0.5−	0.1+				

6616 P-L = 2000 DH₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20982306	ω	224.08782	+0.80762562	−0.58967709		
<i>a</i>	2.8047914	Ω	172.04226	+0.54993940	+0.75029578		
<i>e</i>	0.1002401	<i>i</i>	1.93247	+0.21285561	+0.29889324		
<i>P</i>	4.70	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.3−	1.6−	2000 02 02	704	0.9+	0.7−	2000 03 03	704	0.5−	0.2+
1960 09 26	675	0.2−	1.3−	2000 02 02	704	0.0	0.1−	2000 03 03	704	0.4−	0.2−
1960 09 27	675	1.1+	0.3+	2000 02 02	704	0.0	0.1−	2000 03 03	704	0.6−	0.1−
1960 09 28	675	0.8−	1.1−	2000 02 02	704	0.1+	0.6−	2000 03 03	704	0.5+	0.3−
1960 10 22	675	1.1−	0.4+	2000 02 29	704	0.3+	0.1+	2000 03 11	704	0.2−	0.3−
1960 10 24	675	1.0+	0.5+	2000 02 29	704	0.3+	0.2−	2000 03 11	704	0.3+	0.4+
1960 10 26	675	0.7−	1.4+	2000 02 29	704	0.3−	1.0−	2000 03 11	704	0.2−	0.7+
1998 11 11	699	0.3+	0.1−	2000 02 29	704	0.0	0.3+	2000 03 11	704	0.0	0.1+
1998 11 11	699	0.2+	0.8+	2000 02 29	704	0.3−	0.5+	2000 03 11	704	0.1−	0.1+
1998 11 11	699	0.6−	0.5−	2000 03 03	704	0.1−	0.0				

6671 P-L = 1998 HZ₄₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22640328	ω	170.57508	+0.42909046	+0.90209857		
<i>a</i>	2.6661274	Ω	124.82148	−0.83231952	+0.41458722		
<i>e</i>	0.1025302	<i>i</i>	3.19965	−0.35089258	+0.11973139		
<i>P</i>	4.35	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

1960 09 24	675	0.3+	0.4+	1998 04 20	704	0.5−	0.5−	1998 04 21	704	0.3−	0.5−
1960 09 26	675	2.3+	1.2+	1998 04 20	704	0.6−	0.1−	1998 04 22	704	0.1+	0.4−
1960 09 27	675	0.6+	0.3+	1998 04 21	704	0.5−	0.1+	1998 04 22	704	0.1−	0.7+
1960 09 28	675	3.1−	2.0−	1998 04 21	704	0.2−	0.3−	1998 04 22	704	0.2+	0.1−
1998 04 20	704	1.0+	0.4−	1998 04 21	704	0.1−	0.2+	1998 04 22	704	1.1+	1.2+
1998 04 20	704	0.2+	0.7−	1998 04 21	704	0.1+	0.3+	1998 04 22	704	0.5−	0.4+

6756 P-L = 1993 TB₁₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26926633	ω	181.00067	+0.99173647	+0.12814784		
<i>a</i>	2.3750970	Ω	171.62943	−0.11741359	+0.92570755		
<i>e</i>	0.2512636	<i>i</i>	2.39148	−0.05169929	+0.35587030		
<i>P</i>	3.66	<i>H</i>	17.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1960 09 24	675	0.1+	0.5+	1960 09 28	675	0.0	0.2+	1993 10 11	809	0.4+	1.3+
1960 09 24	675	0.3−	0.7−	1960 09 28	675	0.8+	0.3+	1993 10 11	809	0.7−	1.2+
1960 09 26	675	0.7+	0.5+	1993 10 09	809	0.6−	0.3+	1993 10 20	809	0.0	1.5−
1960 09 26	675	0.4−	0.9−	1993 10 09	809	0.8+	0.5+	1993 10 20	809	0.5+	1.0−
1960 09 27	675	0.8−	0.3−	1993 10 09	809	0.9−	0.1+	1993 10 20	809	0.1−	0.7−
1960 09 27	675	0.3+	0.3−	1993 10 11	809	0.3+	0.6+				

7572 P-L = 2000 DD₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28681051	ω	149.48981	+0.29094200	+0.95578173		
<i>a</i>	2.2772253	Ω	137.38333	−0.89007100	+0.28681353		
<i>e</i>	0.1259029	<i>i</i>	3.62635	−0.35089367	+0.06495596		
<i>P</i>	3.44	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

2000 MAR. 20

M.P.C. 39499

Residuals in seconds of arc

1960 09 27	675	0.8+	0.1-	2000 02 29	704	0.5+	0.2-	2000 03 05	704	0.7+	1.1+
1960 09 28	675	0.6+	0.2-	2000 02 29	704	0.0	0.4-	2000 03 05	704	0.0	0.6+
1960 10 22	675	0.3-	0.3-	2000 03 03	704	0.0	0.5+	2000 03 05	704	0.1-	0.1+
1960 10 25	675	0.5-	0.1-	2000 03 03	704	0.3+	0.1+	2000 03 09	704	0.8-	0.7+
1960 10 26	675	0.6-	0.3+	2000 03 03	704	0.4-	0.4+	2000 03 09	704	0.8+	1.0+
2000 02 11	704	1.7+	0.2+	2000 03 03	704	0.1+	0.0	2000 03 09	704	0.7-	1.0+
2000 02 11	704	0.8-	1.4+	2000 03 03	704	0.5+	0.1+	2000 03 11	691	0.0	0.5-
2000 02 11	704	0.5-	0.5+	2000 03 04	704	0.5+	0.4-	2000 03 11	691	0.1+	0.5-
2000 02 11	704	0.6-	0.2-	2000 03 04	704	1.0+	0.9+	2000 03 11	691	0.2+	0.6-
2000 02 11	704	0.2-	0.5+	2000 03 04	704	0.0	0.9-	2000 03 11	691	0.5-	0.7-
2000 02 27	703	0.3-	0.1-	2000 03 04	704	0.2+	0.4-	2000 03 11	691	0.3-	0.6-
2000 02 27	703	0.5-	0.4-	2000 03 04	704	0.6+	0.0	2000 03 11	691	0.1-	0.5-
2000 02 27	703	0.2+	0.1+	2000 03 05	704	0.5+	0.7+	2000 03 12	691	0.2-	0.7-
2000 02 27	703	0.6-	0.8-	2000 03 05	704	0.4-	0.1-	2000 03 12	691	0.3-	0.7-
2000 02 29	704	0.1-	0.6-	2000 03 05	704	1.7-	0.7+	2000 03 12	691	0.1-	0.7-
2000 02 29	704	0.3+	1.4-	2000 03 05	704	0.2-	0.0				
2000 02 29	704	0.2+	0.2-	2000 03 05	704	0.8+	0.2+				

9514 P-L = 2000 AW₁₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	24.00851		(2000.0)		P		Q
<i>n</i>	0.20739774	ω	33.28005	+0.14095929	-0.98948464		
<i>a</i>	2.8266153	Ω	48.63882	+0.89863490	+0.11414129		
<i>e</i>	0.0380913	<i>i</i>	2.47512	+0.41543447	+0.08883639		
<i>P</i>	4.75	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 10 22	675	1.0-	0.5+	2000 01 04	704	0.4+	0.1-	2000 01 30	704	0.5-	0.4-
1960 10 24	675	0.2+	0.5-	2000 01 04	704	0.1-	0.6-	2000 01 30	704	0.5-	0.4+
1960 10 26	675	0.7+	0.1+	2000 01 04	704	0.4-	0.5-	2000 01 31	704	0.4-	0.1+
2000 01 03	704	0.5+	0.1-	2000 01 04	704	0.1+	0.8-	2000 01 31	704	0.1-	0.4+
2000 01 03	704	0.6-	0.2+	2000 01 30	704	0.7+	0.5+	2000 01 31	704	0.5+	0.6+
2000 01 03	704	0.1-	0.7+	2000 01 30	704	0.3+	0.3-	2000 01 31	704	0.2-	0.3+
2000 01 03	704	0.2+	0.1+	2000 01 30	704	0.1+	0.2-				

9520 P-L = 1999 YN₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	17.72645		(2000.0)		P		Q
<i>n</i>	0.25828520	ω	58.14414	-0.40241647	-0.91419494		
<i>a</i>	2.4419477	Ω	55.65959	+0.81902965	-0.38297963		
<i>e</i>	0.1232499	<i>i</i>	3.33595	+0.40896383	-0.13256779		
<i>P</i>	3.82	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 10 17	675	0.2+	0.0	2000 01 03	704	0.2-	1.1-	2000 01 30	704	1.3+	1.7+
1960 10 22	675	0.7-	1.0+	2000 01 04	704	0.0	0.4-	2000 02 07	703	0.7-	0.3+
1960 10 26	675	0.1-	0.5+	2000 01 04	704	0.3+	0.5-	2000 02 07	703	0.5-	0.0
1999 11 16	704	0.7+	0.3-	2000 01 04	704	0.2-	0.4-	2000 02 07	703	1.0-	0.4+
1999 11 16	704	0.7-	1.4-	2000 01 04	704	0.5+	0.1+	2000 02 07	703	0.4-	0.3+
1999 11 16	704	0.1+	0.5-	2000 01 04	704	0.4-	0.9-	2000 02 11	704	0.6-	0.3+
1999 11 16	704	1.3-	0.3-	2000 01 05	699	0.7+	0.8+	2000 02 11	704	0.3-	0.3+
1999 12 31	411	0.5-	1.3+	2000 01 05	699	0.9+	0.5+	2000 02 11	704	0.2-	0.5+
1999 12 31	411	0.1+	0.1+	2000 01 05	699	0.4+	0.4+	2000 02 11	704	0.3-	0.5+
2000 01 01	411	1.5+	0.2+	2000 01 10	411	0.6+	0.9-	2000 02 11	704	0.2-	0.1+
2000 01 01	411	0.7+	0.8-	2000 01 10	411	0.5+	0.4+	2000 02 24	703	0.3-	0.1-
2000 01 03	704	0.2+	0.3-	2000 01 28	411	1.0-	0.3-	2000 02 24	703	0.3+	0.3-
2000 01 03	704	0.3+	0.0	2000 01 28	411	0.1-	0.5-	2000 02 24	703	0.5-	0.1-
2000 01 03	704	0.1-	1.0-	2000 01 30	704	0.1-	0.5+	2000 02 24	703	0.0	0.5+
2000 01 03	704	0.4-	0.7-	2000 01 30	704	0.9+	0.8+				

1132 T-1 = 2000 EK₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	359.50761		(2000.0)		P		Q
<i>n</i>	0.27196540	ω	299.44208	-0.99460320	-0.10206004		
<i>a</i>	2.3593567	Ω	234.70615	+0.10134127	-0.91710325		
<i>e</i>	0.1433582	<i>i</i>	1.31007	+0.02223570	-0.38536396		
<i>P</i>	3.62	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1971 03 24	675	0.4+	0.2+	1971 05 13	675	0.6-	0.8+	2000 03 10	704	0.2-	0.2+
1971 03 25	675	1.3-	0.1+	1971 05 14	675	0.4+	1.0+	2000 03 10	704	0.0	0.4+
1971 03 25	675	1.4-	0.6-	2000 03 08	704	0.2-	0.2-	2000 03 10	704	0.1+	0.0
1971 03 26	675	1.1+	0.8-	2000 03 08	704	0.2+	0.6+	2000 03 11	704	0.4+	0.5+
1971 03 27	675	1.2-	0.4-	2000 03 08	704	0.0	0.2+	2000 03 11	704	0.4+	0.1-
1971 04 02	675	0.2-	0.1+	2000 03 08	704	0.4-	0.2-	2000 03 11	704	0.4-	0.4-
1971 04 16	675	0.6+	0.5-	2000 03 08	704	0.6+	0.0	2000 03 11	704	0.1+	0.4+
1971 04 16	675	1.3+	1.8-	2000 03 10	704	0.3+	0.3+	2000 03 11	704	0.1+	0.4+

1150 T-1 = 2000 ER₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	314.60847		(2000.0)		P		Q
<i>n</i>	0.23724743	ω	315.95179	-0.65919448	+0.75080159		
<i>a</i>	2.5842531	Ω	272.76304	-0.67778641	-0.61739628		
<i>e</i>	0.1715950	<i>i</i>	2.40693	-0.32568115	-0.23477396		
<i>P</i>	4.15	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1971 03 24	675	0.3+	1.4-	1971 05 14	675	2.0-	0.9+	2000 03 03	704	0.3-	0.0
1971 03 25	675	2.1-	0.3-	1993 09 23	809	1.2+	1.8-	2000 03 03	704	0.2-	0.2+
1971 03 25	675	0.0	1.4-	1993 09 23	809	0.3-	2.6-	2000 03 03	704	0.2-	0.6+
1971 03 26	675	0.9+	0.1-	1993 09 23	809	2.0+	2.5-	2000 03 03	704	0.2+	0.7+
1971 03 27	675	0.8+	0.6-	2000 02 27	703	0.6-	0.1-	2000 03 08	704	0.2-	0.5-
1971 04 02	675	0.5+	0.2-	2000 02 27	703	0.3+	0.1-	2000 03 08	704	0.1+	0.2-
1971 04 16	675	0.1+	1.9-	2000 02 27	703	0.3+	0.5-	2000 03 08	704	0.7-	0.3-
1971 04 16	675	0.2-	0.5-	2000 02 27	703	0.3+	0.3+	2000 03 08	704	0.0	1.1-
1971 05 13	675	1.1-	1.2+	2000 03 03	704	0.4+	0.4-	2000 03 08	704	0.1-	0.0

1273 T-1 = 1997 GW₁₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	106.04598		(2000.0)		P		Q
<i>n</i>	0.19008427	ω	120.01591	+0.50519713	+0.86300372		
<i>a</i>	2.9957479	Ω	180.33070	-0.82587307	+0.48323945		
<i>e</i>	0.0917414	<i>i</i>	6.54913	-0.25041871	+0.14732348		
<i>P</i>	5.19	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1971 03 25	675	0.9-	0.4-	1997 04 06	704	0.1+	0.2-	1999 11 15	704	0.1+	0.4+
1971 03 25	675	0.4-	0.6+	1997 04 07	704	0.1-	0.1-	1999 11 15	704	0.2+	0.3-
1971 03 26	675	2.2+	1.3-	1997 04 07	704	0.8+	0.9-	1999 11 15	704	0.3+	0.6-
1971 04 02	675	0.9-	1.2+	1999 11 05	704	0.6-	0.4+	1999 11 15	704	0.3-	0.7-
1997 04 03	704	0.5-	1.1+	1999 11 05	704	0.4+	0.2+	1999 11 15	704	0.0	0.3-
1997 04 03	704	0.3-	0.2+	1999 11 05	704	0.2-	0.5+				
1997 04 06	704	0.0	0.0	1999 11 05	704	0.0	0.6+				

2059 T-1 = 2000 CW₅₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	205.00226		(2000.0)		P		Q
<i>n</i>	0.27397851	ω	352.46983	+0.99553126	+0.09281574		
<i>a</i>	2.3477853	Ω	2.41868	-0.04956355	+0.67040273		
<i>e</i>	0.2054932	<i>i</i>	24.34985	-0.08038018	+0.73616942		
<i>P</i>	3.60	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1971 03 24	675	1.5+	0.4-	2000 02 02	704	1.5+	0.1-	2000 02 08	704	0.3+	0.6+
1971 03 25	675	0.9-	1.3-	2000 02 02	704	1.4+	1.0-	2000 03 10	704	1.0-	0.2+
1971 03 25	675	0.4-	0.2+	2000 02 02	704	0.4+	0.1-	2000 03 10	704	0.9-	0.4-
1971 03 26	675	1.1-	0.3-	2000 02 06	704	1.4+	0.3+	2000 03 10	704	0.8-	0.7+
1971 03 27	675	1.0-	0.1-	2000 02 06	704	0.1-	0.3-	2000 03 10	704	0.3-	0.3+
1999 02 11	704	0.1-	0.4-	2000 02 06	704	0.6-	1.2+	2000 03 10	704	0.5+	0.9+
1999 02 11	704	0.1+	0.1+	2000 02 06	704	0.7+	0.2+	2000 03 14	704	0.3-	0.1-
1999 02 11	704	0.5+	0.6+	2000 02 08	704	0.5+	0.8+	2000 03 14	704	0.2-	0.8-
1999 02 11	704	0.1-	0.2-	2000 02 08	704	0.6+	0.0	2000 03 14	704	(2.1+	0.6+)

3268 T-1 = 2000 CF₉₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	279.74039		(2000.0)	P	Q
<i>n</i>	0.27046278	ω	254.80974	-0.29078301	+0.95678266
<i>a</i>	2.3680873	Ω	358.27369	-0.82734550	-0.25327370
<i>e</i>	0.0841068	<i>i</i>	6.65326	-0.48056703	-0.14289637
<i>P</i>	3.64	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1971 03 24	675	0.6-	0.4+	1998 11 14	704	(4.1-	0.2-)	2000 03 06	704	0.4-	0.5-
1971 03 25	675	1.8+	1.2-	2000 02 06	704	0.0	0.1-	2000 03 06	704	0.0	0.5+
1971 03 26	675	0.2-	2.3-	2000 02 06	704	0.1-	0.4+	2000 03 06	704	0.1-	0.9+
1971 03 26	675	(1.2+	2.8-)	2000 02 06	704	0.0	0.2-	2000 03 11	704	0.2-	0.2+
1971 03 27	675	0.6-	1.3-	2000 02 11	704	(0.6+	2.1+)	2000 03 11	704	0.0	0.1+
1971 04 02	675	2.3-	0.1-	2000 02 11	704	0.8+	0.4+	2000 03 11	704	0.1+	0.2+
1971 04 16	675	0.1-	0.5+	2000 02 11	704	0.3+	0.1-	2000 03 11	704	0.3-	0.4+
1971 04 16	675	0.8+	1.3+	2000 02 11	704	1.0+	1.1+	2000 03 11	704	0.1+	0.1-
1971 05 13	675	0.1-	0.3+	2000 03 03	704	0.5+	0.2+	2000 03 11	699	0.3-	0.2-
1971 05 14	675	0.3+	0.7+	2000 03 03	704	0.2+	0.2+	2000 03 11	699	0.2-	0.4-
1998 11 14	704	1.2+	0.3-	2000 03 03	704	0.3+	0.1-	2000 03 11	699	0.4-	0.4-
1998 11 14	704	0.9-	0.4-	2000 03 03	704	0.3+	0.5-	2000 03 11	699	0.4-	0.3+
1998 11 14	704	0.0	0.3-	2000 03 03	704	0.0	0.4-				

3283 T-1 = 1998 GC₁₂ = 1999 RN₆₆Id. M. E. Sansaturio (*MPC* 38738, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	100.89836		(2000.0)	P	Q
<i>n</i>	0.25413497	ω	254.78074	-0.02370814	+0.99953943
<i>a</i>	2.4684619	Ω	13.90212	-0.88430169	-0.01212869
<i>e</i>	0.1356413	<i>i</i>	4.52216	-0.46631367	-0.02781776
<i>P</i>	3.88	<i>H</i>	15.3	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1971 03 24	675	0.4+	0.7-	1998 03 20	704	0.5-	1.0+	1998 04 03	809	1.6+	1.0+
1971 03 25	675	1.5+	0.3-	1998 03 20	704	1.8+	0.8+	1998 04 03	809	0.5+	1.1+
1971 03 26	675	0.3-	1.3-	1998 03 20	704	(2.8-	0.5+)	1998 04 03	809	1.3+	1.7+
1971 03 26	675	0.6-	0.9-	1998 03 20	704	(2.7-	0.8+)	1999 09 07	704	0.9-	0.7+
1971 03 27	675	0.1+	1.3-	1998 03 29	704	0.1-	1.3+	1999 09 07	704	0.0	0.7+
1971 04 02	675	2.4-	2.1+	1998 03 29	704	(0.7-	2.1+)	1999 09 07	704	0.5-	0.4+
1994 02 12	809	1.5+	1.6+	1998 03 29	704	(2.2-	2.1+)	1999 09 07	704	1.2-	0.7+
1994 02 12	809	0.9+	0.7+	1998 03 29	704	0.9+	0.8+	1999 09 07	704	0.1-	0.0
1994 02 12	809	0.4-	0.4+	1998 03 29	704	0.5-	0.6+	1999 09 09	704	0.2-	0.1+
1998 02 27	809	(3.0+	0.3-)	1998 04 02	809	0.7-	1.6-	1999 09 09	704	1.1+	0.3+
1998 02 27	809	(3.3+	0.4-)	1998 04 02	809	1.1-	0.0	1999 09 09	704	0.9-	1.5+
1998 02 27	809	(2.5+	0.0)	1998 04 02	809	0.8-	0.7-	1999 09 09	704	0.0	1.3+

4311 T-1 = 2000 AW₁₁₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	16.68707		(2000.0)	P	Q
<i>n</i>	0.23437790	ω	312.66655	-0.24579495	-0.96820460
<i>a</i>	2.6053033	Ω	151.46358	+0.91539140	-0.24763915
<i>e</i>	0.2119043	<i>i</i>	5.58907	+0.31881565	-0.03542188
<i>P</i>	4.21	<i>H</i>	15.1	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1971 03 24	675	0.3+	1.7-	2000 01 07	704	0.5-	0.6-	2000 02 03	704	0.8-	0.8+
1971 03 26	675	0.5+	0.6+	2000 01 07	704	0.1-	0.1-	2000 02 03	704	0.5+	0.4+
1971 03 26	675	0.1-	1.3-	2000 01 07	704	0.0	0.2-	2000 02 03	704	0.3+	0.3-
1971 03 27	675	(3.5-	1.0-)	2000 01 07	704	0.1+	0.0	2000 02 03	704	0.5+	0.2-
1971 04 02	675	1.1-	1.3+	2000 01 07	704	0.1+	0.0	2000 02 03	704	0.2+	0.2-
2000 01 05	704	0.9-	0.5-	2000 02 02	704	0.6+	0.1+	2000 03 05	704	0.9-	1.0+
2000 01 05	704	0.1-	0.4-	2000 02 02	704	0.6+	0.4+	2000 03 05	704	1.2-	0.1+
2000 01 05	704	0.3-	0.0	2000 02 02	704	0.7+	0.1-	2000 03 05	704	0.4-	0.4+
2000 01 05	704	0.1-	0.4-	2000 02 02	704	0.2+	0.2-	2000 03 05	704	0.3+	1.7+
2000 01 05	704	0.1-	0.1-	2000 02 02	704	0.8+	0.6-				

4845 T-1 = 1999 UK₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	335.03597		(2000.0)	P	Q
<i>n</i>	0.19413854	ω	355.45461	-0.04987186	-0.99710519
<i>a</i>	2.9538938	Ω	97.39646	+0.91815513	-0.06838736
<i>e</i>	0.1254347	<i>i</i>	3.31786	+0.39306991	+0.03323255
<i>P</i>	5.08	<i>H</i>	12.7	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1971 04 16	675	0.1+	0.1-	1999 11 13	120	0.2+	0.7-	1999 12 07	704	0.0	0.8+
1971 04 16	675	0.3-	0.9-	1999 11 13	120	0.5+	0.3-	1999 12 07	704	1.5-	0.8+
1971 05 13	675	0.3-	0.6-	1999 11 14	699	0.1-	1.0+	1999 12 31	106	0.1+	0.3-
1971 05 14	675	0.8-	1.3-	1999 11 14	699	0.5-	1.4+	1999 12 31	106	0.3-	0.1+
1971 05 16	675	(0.2-	2.8-)	1999 11 14	699	0.8-	0.6+	1999 12 31	106	0.3-	0.4+
1992 05 03	809	(0.3-	2.4+)	1999 11 15	704	0.3+	0.3-	2000 01 05	704	0.2-	0.3+
1992 05 03	809	0.0	1.4+	1999 11 15	704	0.7+	0.3+	2000 01 05	704	0.2-	0.2+
1992 05 03	809	0.4+	0.0	1999 11 15	704	0.0	0.0	2000 01 05	704	0.3-	0.2-
1998 08 17	704	0.0	0.3-	1999 11 15	704	0.0	0.2+	2000 01 05	704	0.3-	0.0
1998 08 17	704	0.3-	1.0-	1999 11 15	704	0.1-	0.0	2000 01 05	704	0.0	0.1-
1998 08 17	704	0.7-	1.7-	1999 11 17	704	0.7+	0.4-	2000 01 07	704	0.2-	0.4-
1998 08 17	704	(3.1+	2.3-)	1999 11 17	704	0.4+	0.4+	2000 01 07	704	0.4-	0.2-
1998 08 17	704	1.1+	1.4+	1999 11 17	704	1.0+	0.8-	2000 01 07	704	0.1-	0.6-
1999 10 22	757	0.3-	0.2-	1999 11 17	704	0.0	1.4-	2000 01 07	704	0.4-	0.4-
1999 10 22	757	0.1-	0.2-	1999 11 17	704	0.2+	0.1-	2000 01 07	704	0.1+	0.6-
1999 10 23	757	0.2+	1.6-	1999 12 02	699	0.6-	0.7+	2000 01 30	703	0.8-	0.0
1999 10 23	757	0.5-	0.8+	1999 12 02	699	0.3-	0.5+	2000 01 30	703	0.2-	0.1-
1999 11 05	704	0.4-	0.2+	1999 12 02	699	0.6-	0.3+	2000 01 30	703	0.3-	1.3-
1999 11 05	704	0.1+	0.2-	1999 12 05	704	0.9+	0.9-	2000 01 30	703	0.1-	0.2+
1999 11 05	704	0.0	0.1-	1999 12 05	704	1.0+	0.6+	2000 02 04	704	1.6+	0.4+
1999 11 05	704	0.1-	0.2+	1999 12 05	704	(2.8-	0.0)	2000 02 04	704	0.5-	0.4+
1999 11 05	704	0.2-	0.2+	1999 12 07	704	1.2+	0.3-	2000 02 04	704	0.6+	1.0+
1999 11 12	120	0.5+	0.9-	1999 12 07	704	0.9+	0.5-				
1999 11 12	120	0.2+	0.4-	1999 12 07	704	(0.5+	2.0+)				

1062 T-2 = 2000 DK₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	90.76204		(2000.0)	P	Q
<i>n</i>	0.27416901	ω	53.07730	+0.66574767	-0.74616531
<i>a</i>	2.3466976	Ω	355.17664	+0.66787268	+0.59836565
<i>e</i>	0.1571027	<i>i</i>	2.84160	+0.33275535	+0.29188334
<i>P</i>	3.59	<i>H</i>	15.7	<i>G</i>	0.15
				<i>U</i>	6

Residuals in seconds of arc

1973 09 19	675	1.4+	0.2-	2000 02 29	704	0.3+	0.5-	2000 03 04	704	0.1+	0.0
1973 09 19	675	0.4-	0.6-	2000 02 29	704	0.2+	0.1+	2000 03 04	704	0.2+	0.2-

2000 MAR. 20

M.P.C. 39501

1973 09 20	675	0.9+	0.2+	2000 02 29	704	0.0	1.4-	2000 03 04	704	0.1+	0.4-
1973 09 24	675	0.6-	0.0	2000 02 29	704	0.5+	0.4+	2000 03 04	704	0.7+	0.1-
1973 09 24	675	0.9-	0.1-	2000 02 29	704	0.6+	0.3-	2000 03 05	704	0.4-	0.7+
1973 09 25	675	1.5-	0.4+	2000 03 03	704	0.6-	0.2+	2000 03 05	704	0.0	0.1-
1973 09 25	675	1.5+	0.4+	2000 03 03	704	0.5-	0.1-	2000 03 05	704	0.8-	0.4+
1973 09 29	675	1.2+	0.0	2000 03 03	704	0.1+	0.7-	2000 03 05	704	0.3+	0.1+
1973 09 29	675	0.1+	0.4-	2000 03 03	704	0.2+	0.1+	2000 03 11	704	0.2+	0.1+
1973 09 30	675	1.5-	1.1+	2000 03 03	704	0.4-	0.1-	2000 03 11	704	0.7-	0.3-
1973 09 30	675	0.7-	0.5+	2000 03 03	704	0.5+	0.5+	2000 03 11	699	0.1+	0.3-
1973 10 04	675	0.3+	0.1-	2000 03 03	704	0.0	0.5+	2000 03 11	704	0.7-	0.1+
1973 10 04	675	0.8+	1.3-	2000 03 03	704	0.1+	0.8+	2000 03 11	699	0.3-	0.1-
1973 10 05	675	0.1+	0.2+	2000 03 03	704	0.2+	0.9-	2000 03 11	699	0.1-	0.8+
1973 10 05	675	0.7-	0.0	2000 03 03	704	0.8+	0.4+	2000 03 11	699	0.9-	0.4+

1184 T-2 = 2000 ES₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	88.42538	(2000.0)	P	Q	
<i>n</i>	0.24120891	ω	278.84534	+0.03625508	-0.99924102
<i>a</i>	2.5558802	Ω	169.04664	+0.94382495	+0.02955216
<i>e</i>	0.0513757	<i>i</i>	4.29983	+0.32845097	+0.02537820
<i>P</i>	4.09	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	6

Residuals in seconds of arc

1973 09 19	675	1.1-	2.4-	1973 09 29	675	0.2-	0.8-	2000 03 08	704	0.3+	1.0-
1973 09 19	675	0.7-	0.9-	1973 09 29	675	0.3+	1.6+	2000 03 08	704	0.3+	1.2-
1973 09 20	675	1.2-	1.2-	1973 09 30	675	0.1+	0.3-	2000 03 10	704	0.9+	1.4-
1973 09 24	675	1.5-	0.7-	1973 09 30	675	0.9-	1.0+	2000 03 10	704	0.2-	1.2+
1973 09 24	675	1.2+	1.9+	1973 09 30	675	0.8+	0.8-	2000 03 10	704	0.3-	0.0
1973 09 24	675	0.1-	0.6-	1973 09 30	675	0.3+	0.7+	2000 03 10	704	0.3+	0.3-
1973 09 25	675	1.3-	0.4+	1973 10 04	675	1.4+	1.2-	2000 03 10	704	0.4-	0.1+
1973 09 25	675	0.9+	2.4+	1973 10 04	675	0.9+	0.0	2000 03 11	704	0.3+	0.7+
1973 09 25	675	0.0	1.3-	1973 10 05	675	0.1+	1.2+	2000 03 11	704	0.3-	0.5+
1973 09 25	675	0.5-	2.3+	1973 10 05	675	1.5+	0.4-	2000 03 11	704	0.5-	0.3+
1973 09 29	675	0.9-	1.3-	2000 03 08	704	0.0	0.0	2000 03 11	704	0.6-	0.6+
1973 09 29	675	0.7+	0.9+	2000 03 08	704	0.5+	1.1+				

1189 T-2 = 1999 XO₁₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Doppler		
<i>M</i>	51.87375	(2000.0)	P	Q	
<i>n</i>	0.26885082	ω	47.13623	+0.83307219	-0.55275207
<i>a</i>	2.3775435	Ω	346.37446	+0.47741998	+0.73795976
<i>e</i>	0.1682146	<i>i</i>	5.20006	+0.27939379	+0.38714408
<i>P</i>	3.67	<i>H</i>	16.6	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1973 09 19	675	1.2+	0.6+	1973 09 29	675	0.8+	0.1+	1999 12 12	704	0.1-	0.1-
1973 09 19	675	0.7+	0.2-	1973 09 30	675	0.2-	0.9+	1999 12 12	704	0.6-	0.1-
1973 09 20	675	0.8-	0.5+	1973 09 30	675	0.4+	1.1+	1999 12 12	704	0.1+	0.4+
1973 09 24	675	0.8-	0.5-	1973 10 04	675	(2.7+	1.7-)	1999 12 12	704	0.2+	0.6+
1973 09 24	675	1.4-	0.1-	1973 10 04	675	1.5+	1.5-	1999 12 15	704	0.4-	0.5+
1973 09 25	675	1.2-	1.8-	1973 10 05	675	0.6+	0.6-	1999 12 15	704	0.2+	0.6-
1973 09 25	675	1.7-	0.6+	1973 10 05	675	(2.5+	0.4-)	1999 12 15	704	0.6+	0.1+
1973 09 29	675	0.6+	0.7+	1999 12 12	704	0.0	0.3+	1999 12 15	704	0.1-	1.1-

1504 T-2 = 2000 EJ₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	213.25113	(2000.0)	P	Q	
<i>n</i>	0.20472632	ω	100.56769	+0.79159873	+0.61085616
<i>a</i>	2.8511512	Ω	221.78313	-0.56907598	+0.72804544
<i>e</i>	0.0666906	<i>i</i>	1.29339	-0.22253983	+0.31113438
<i>P</i>	4.81	<i>H</i>	15.8	<i>G</i>	0.15
				<i>U</i>	6

Residuals in seconds of arc

1973 09 24	675	0.3+	0.7+	1973 10 04	675	0.8-	0.2-	2000 03 14	691	0.3+	0.3-
1973 09 24	675	0.3+	1.1-	1973 10 05	675	0.6-	0.7+	2000 03 14	691	0.2+	0.1-

1973 09 30	675	0.3+	0.2-	1973 10 05	675	0.7+	1.0-	2000 03 14	691	0.3+	0.2-
1973 09 30	675	1.2-	1.7+	2000 03 11	704	0.7-	0.6+	2000 03 15	691	0.6+	0.7-
1973 09 30	675	1.0+	2.2-	2000 03 11	704	0.2+	0.8+	2000 03 15	691	0.1-	0.4-
1973 09 30	675	0.5+	1.0+	2000 03 11	704	1.0-	1.0+	2000 03 15	691	0.1+	0.7-
1973 10 04	675	0.4-	0.4+	2000 03 11	704	(0.4-	2.5+)				

2052 T-2 = 2000 EX₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	239.38174	(2000.0)	P	Q	
<i>n</i>	0.20557079	ω	356.94727	+0.58213668	+0.81292708
<i>a</i>	2.8433378	Ω	308.65305	-0.74555288	+0.52566403
<i>e</i>	0.0480627	<i>i</i>	1.19769	-0.32444999	+0.25065293
<i>P</i>	4.79	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1973 09 19	675	0.3-	1.7+	1973 10 05	675	0.2-	0.5-	2000 03 09	704	1.7+	0.2+
1973 09 19	675	0.6-	1.1+	1973 10 05	675	0.3-	1.5-	2000 03 09	704	0.3-	0.2-
1973 09 20	675	0.4-	0.3-	1997 10 28	704	(3.5+	2.2-)	2000 03 10	704	0.0	0.1+
1973 09 24	675	1.3+	0.7-	1997 10 28	704	(5.6+	4.0-)	2000 03 10	704	0.0	0.2+
1973 09 24	675	0.3+	0.4+	1997 10 28	704	(3.8+	1.9-)	2000 03 10	704	0.0	0.1+
1973 09 25	675	0.4-	0.9-	1997 10 28	704	(2.9+	4.0-)	2000 03 10	704	0.1-	0.2-
1973 09 25	675	1.9-	0.3+	1997 10 30	704	0.3+	0.9-	2000 03 10	704	0.1+	0.5-
1973 09 29	675	0.3-	0.3+	1997 10 30	704	0.8-	1.4+	2000 03 11	704	0.5-	0.1-
1973 09 29	675	0.5+	0.8+	1997 10 30	704	0.4+	0.2-	2000 03 11	704	0.2-	0.1+
1973 09 30	675	0.7+	0.2+	1997 10 30	704	0.0	0.0	2000 03 11	704	0.1-	0.0
1973 09 30	675	0.2-	0.7-	1997 10 30	704	0.4-	0.6+	2000 03 11	704	0.1-	0.5+
1973 10 04	675	0.4+	0.1-	2000 03 09	704	0.3-	0.1+	2000 03 11	704	0.6-	0.0
1973 10 04	675	1.7+	0.7-	2000 03 09	704	0.4+	0.0				

2130 T-2 = 1998 DL₃₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	23.70507	(2000.0)	P	Q	
<i>n</i>	0.22326327	ω	313.03510	+0.83995667	+0.54118869
<i>a</i>	2.6910671	Ω	14.35008	-0.43931976	+0.72127585
<i>e</i>	0.1294103	<i>i</i>	9.25123	-0.31854505	+0.43229151
<i>P</i>	4.41	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1973 09 19	675	0.0	0.4-	1973 09 29	675	1.3-	1.4-	1998 02 28	809	1.0-	0.4+
1973 09 19	675	0.0	0.2-	1973 09 29	675	2.2+	1.8-	1998 02 28	809	0.4-	0.6+
1973 09 19	675	0.4-	0.7-	1973 09 29	675	(0.9-	6.2-)	1998 03 02	809	0.1-	0.0
1973 09 19	675	0.4-	0.7-	1973 09 29	675	(2.8+	1.8-)	1998 03 02	809	1.4+	0.0
1973 09 20	675	0.4-	1.1+	1973 09 30	675	2.1+	0.3+	1998 03 22	704	0.5+	1.6-
1973 09 20	675	2.1-	1.1+	1973 09 30	675	(2.8+	0.9+)	1998 03 22	704	(0.5+	2.2-)
1973 09 24	675	0.7-	0.8-	1973 10 04	675	1.9+	0.3-	1998 03 22	704	0.3+	1.0-
1973 09 24	675	0.2-	0.1+	1973 10 04	675	(0.2+	2.6+)	1998 03 22	704	0.8-	0.7+
1973 09 24	675	0.9-	1.5-	1973 10 04	675	1.8+	1.1-	1998 03 22	704	(3.7-	1.6-)
1973 09 24	675	0.4+	0.1+	1973 10 04	675	0.2-	1.7+	1998 04 19	704	0.5-	0.4+
1973 09 25	675	(1.8+	2.9-)	1973 10 05	675	0.2+	1.2-	1998 04 19	704	0.5-	1.3-
1973 09 25	675	0.4+	0.5+	1973 10 05	675	0.3+	0.8+	1998 04 19	704	1.5-	1.5-
1973 09 25	675	(2.2+	3.8-)	1973 10 05	675	1.1+	0.4-	1998 04 19	704	0.2+	0.2-
1973 09 25	675	0.9-	0.5+	1973 10 05	675	1.0-	1.1+				

2188 T-2 = 2000 AK₁₁₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	41.31859	(2000.0)	P	Q	
<i>n</i>	0.23144728	ω	218.77138	+0.43959849	-0.89746424
<i>a</i>	2.6272496	Ω	205.21192	+0.84380286	+0.42645772
<i>e</i>	0.2830427	<i>i</i>	4.87628	+0.30781473	+0.11265764
<i>P</i>	4.26	<i>H</i>	15.8	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1973 09 24	675	2.8−	0.1+	1973 10 05	675	0.7−	0.0	2000 01 07	704	0.4+	0.0
1973 09 24	675	1.7−	2.0+	1973 10 05	675	0.9+	0.6−	2000 01 07	704	0.5+	0.8+
1973 09 25	675	1.0+	0.9−	2000 01 05	704	0.2+	0.1+	2000 02 02	704	1.0+	0.2−
1973 09 25	675	0.2−	0.1+	2000 01 05	704	0.1−	0.4+	2000 02 02	704	0.3−	0.7+
1973 09 29	675	0.9+	1.5+	2000 01 05	704	0.1−	0.3+	2000 02 02	704	0.4−	0.0
1973 09 29	675	0.1−	1.4+	2000 01 05	704	0.1−	0.1+	2000 02 02	704	0.2−	0.1+
1973 09 30	675	0.8+	0.7−	2000 01 05	704	0.5−	0.0	2000 02 02	704	0.2+	0.2+
1973 09 30	675	0.7+	2.1−	2000 01 07	704	0.1+	0.3+	2000 02 04	704	0.2+	0.5−
1973 10 04	675	0.9+	0.0	2000 01 07	704	0.8−	0.7+	2000 02 04	704	0.1−	1.4−
1973 10 04	675	0.2+	1.2−	2000 01 07	704	0.1−	0.0	2000 02 04	704	0.2+	1.6−

2233 T-2 = 2000 DG₇₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	194.99802		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.20418943	ω	193.08712	+0.91968471	+0.39183865
a	2.8561469	Ω	143.81090	−0.35627931	+0.85987521
e	0.0939044	i	2.46043	−0.16506086	+0.32722636
P	4.83	H	14.3	G 0.15	U 6

Residuals in seconds of arc

1973 09 19	675	0.7−	0.7+	1973 09 29	675	(2.3+	4.0−)	2000 03 03	704	0.1+	0.1−
1973 09 19	675	1.2+	0.1+	1973 09 29	675	1.8+	2.5−	2000 03 03	704	0.1+	0.8+
1973 09 19	675	0.1−	0.9+	1973 09 29	675	(3.2+	3.5−)	2000 03 03	704	0.1−	0.7+
1973 09 19	675	0.8−	0.1+	1973 09 30	675	(2.5+	2.8−)	2000 03 03	704	0.4−	0.4+
1973 09 20	675	0.3−	0.8−	1973 09 30	675	1.9+	1.7+	2000 03 03	704	0.2+	0.2+
1973 09 20	675	0.5+	0.2+	1973 09 30	675	(3.0+	3.5−)	2000 03 11	704	0.2−	0.1−
1973 09 24	675	0.9+	0.3−	1973 09 30	675	(3.4+	0.6−)	2000 03 11	699	0.6−	0.3+
1973 09 24	675	1.3−	0.6−	1973 10 04	675	1.6−	0.0	2000 03 11	704	0.3+	0.1+
1973 09 24	675	0.1+	0.9+	1973 10 04	675	0.4−	0.9+	2000 03 11	704	0.0	0.0
1973 09 24	675	0.6−	0.6+	1973 10 05	675	0.6−	0.5−	2000 03 11	699	0.3−	0.5−
1973 09 25	675	(1.6+	4.0−)	1973 10 05	675	0.0	0.2+	2000 03 11	704	0.6+	0.3−
1973 09 25	675	1.8−	0.2−	2000 02 29	704	0.9−	0.4−	2000 03 11	699	0.1+	0.1−
1973 09 25	675	(3.4+	2.5−)	2000 02 29	704	0.0	0.2−	2000 03 11	704	0.1+	0.5−
1973 09 25	675	0.6+	0.2+	2000 02 29	704	0.2+	0.0	2000 03 11	699	0.4−	0.7+
1973 09 29	675	1.3+	1.6−	2000 02 29	704	1.3+	0.7−				

2325 T-2 = 2000 DT₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	173.56122		(2000.0)	P	Q
n	0.24010891	ω	169.37209	+0.97501478	+0.22211481
a	2.5636803	Ω	177.78625	−0.20963418	+0.92500051
e	0.0844745	i	4.96713	−0.07348257	+0.30828406
P	4.10	H	14.5	G 0.15	U 6

Residuals in seconds of arc

1973 09 19	675	0.4−	1.4+	1973 10 04	675	0.1+	0.3+	2000 02 29	704	1.0+	0.3+
1973 09 24	675	1.7−	0.8+	1973 10 04	675	1.4−	2.0+	2000 02 29	704	0.3+	0.0
1973 09 25	675	0.9−	1.4−	1973 10 05	675	0.0	2.1−	2000 02 29	704	0.1−	0.2+
1973 09 25	675	0.3−	1.3−	1973 10 05	675	(3.4−	1.8+)	2000 03 03	704	0.6+	0.9+
1973 09 29	675	0.3+	0.3+	1973 10 05	675	0.9+	0.8−	2000 03 03	704	0.3−	0.9−
1973 09 29	675	0.4+	0.0	1973 10 05	675	2.0−	1.0+	2000 03 03	704	0.1+	0.4+
1973 09 30	675	0.6+	2.5−	2000 02 25	691	1.0−	0.2−	2000 03 03	704	0.5+	0.2+
1973 09 30	675	0.6+	1.3−	2000 02 25	691	1.0−	0.1−	2000 03 03	704	0.7+	0.6−
1973 10 04	675	0.8−	0.3−	2000 02 25	691	1.2−	0.1+				
1973 10 04	675	0.9−	2.1+	2000 02 29	704	0.3+	0.2−				

3096 T-2 = 1999 VT₁₁₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

$\dot{M}$	164.95328		(2000.0)	P	Q		
n	0.27040904	ω	247.89117	+0.04533996	+0.99776256		
a	2.3684011	Ω	24.86061	−0.86806827	+0.06369151		
e	0.1068870	i	6.71158	−0.49437007	−0.02032903		
P	3.64	H	15.0	G	0.15	U	5

Residuals in seconds of arc

1973 09 19	675	0.1−	0.3+	1973 10 05	675	1.4+	0.4−	1999 11 09	703	0.6+	0.3+
1973 09 19	675	0.6+	0.1−	1973 10 05	675	1.1+	0.3+	1999 11 09	703	0.2+	0.6+
1973 09 20	675	0.7−	0.6+	1999 11 03	704	0.4+	0.7−	1999 11 16	704	0.6+	0.3−
1973 09 24	675	1.5−	0.7+	1999 11 03	704	0.4+	0.9−	1999 11 16	704	0.2−	0.6−
1973 09 24	675	0.6−	0.3−	1999 11 03	704	0.2+	0.0	1999 11 16	704	0.5−	0.8−
1973 09 25	675	1.5−	1.6−	1999 11 04	703	0.7−	0.1+	1999 11 16	704	0.6+	0.2−
1973 09 25	675	0.5+	1.8−	1999 11 04	703	0.8−	1.0+	1999 11 16	704	0.2−	1.0−
1973 09 29	675	0.9+	0.7+	1999 11 04	703	0.2+	1.0+	1999 12 13	703	0.3+	0.1+
1973 09 29	675	0.1+	1.0+	1999 11 04	703	0.5−	0.2+	1999 12 13	703	0.8−	0.0
1973 09 30	675	1.4−	0.0	1999 11 09	703	0.3+	0.4+	1999 12 13	703	0.5−	0.3+
1973 09 30	675	0.7−	0.4+	1999 11 09	703	0.1+	0.4+	1999 12 13	703	0.1+	0.1+

3224 T-2 = 2000 EX₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	65.38839		(2000.0)	P	Q
n	0.19919163	ω	354.89700	+0.27050831	−0.96147573
a	2.9037239	Ω	79.40204	+0.88502642	+0.22837373
e	0.1268394	i	2.85064	+0.37888453	+0.15300280
P	4.95	H	14.7	G 0.15	U 5

Residuals in seconds of arc

1973 09 19	675	1.9+	1.9+	1973 09 30	675	(2.9−	2.7−)	2000 03 05	704	0.1−	0.6−
1973 09 19	675	0.1+	0.4+	1973 10 04	675	(3.1+	0.1+)	2000 03 05	704	0.0	0.1+
1973 09 19	675	0.9+	0.6+	1973 10 04	675	0.1−	1.0−	2000 03 09	704	0.9+	0.2−
1973 09 19	675	(2.3+	4.1+)	1973 10 05	675	0.8+	0.4−	2000 03 09	704	0.2−	1.2−
1973 09 20	675	0.2−	0.4+	1973 10 05	675	2.3+	0.3−	2000 03 09	704	0.1+	0.2−
1973 09 24	675	1.2−	2.3−	2000 02 11	704	0.8−	1.8+	2000 03 09	704	0.1+	1.3−
1973 09 24	675	1.7+	0.6+	2000 02 11	704	0.2+	0.3−	2000 03 11	699	0.9−	0.0
1973 09 24	675	1.9−	0.3−	2000 02 11	704	0.5+	0.2−	2000 03 11	699	0.8−	0.5+
1973 09 24	675	0.3−	2.0+	2000 02 11	704	0.4−	0.9+	2000 03 11	699	0.2−	0.1−
1973 09 25	675	(3.0−	1.2−)	2000 02 25	703	0.3+	0.7−	2000 03 11	699	0.6+	0.2+
1973 09 25	675	1.1−	0.3+	2000 02 25	703	0.4+	0.7+	2000 03 12	704	0.3+	0.5−
1973 09 25	675	1.0−	1.2+	2000 02 25	703	0.7+	0.7+	2000 03 12	704	0.5−	0.7−
1973 09 25	675	0.6+	1.6+	2000 02 25	703	(1.6−	2.3+)	2000 03 12	704	1.0+	0.8+
1973 09 29	675	1.5−	2.4−	2000 03 05	704	0.4−	0.5−	2000 03 12	704	0.2−	0.5+
1973 09 29	675	0.1−	0.8−	2000 03 05	704	0.6−	0.1−				
1973 09 30	675	0.7−	1.5−	2000 03 05	704	0.0	0.3+				

4028 T-2 = 2000 DQ₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	14.64295		(2000.0)	P	Q
n	0.27449077	ω	51.95715	−0.64149194	−0.76497608
a	2.3448634	Ω	78.04536	+0.68415390	−0.60437216
e	0.1208204	i	3.36613	+0.34701807	−0.22258905
P	3.59	H	15.2	G 0.15	U 4

Residuals in seconds of arc

1973 09 19	675	0.6+	1.2+	1973 10 04	675	0.1−	1.0−	2000 02 25	703	1.2−	1.1+
1973 09 20	675	0.1−	0.8+	1973 10 04	675	1.8+	0.1−	2000 02 25	703	0.2−	0.3−
1973 09 24	675	0.3+	1.6+	1973 10 05	675	0.3+	0.1−	2000 02 25	703	0.4−	0.9+
1973 09 24	675	0.7+	0.5+	1973 10 05	675	0.6−	0.6−	2000 02 28	704	0.0	0.6−
1973 09 25	675	0.2−	0.1+	2000 02 03	704	0.3+	0.1+	2000 02 28	704	0.1−	0.0
1973 09 25	675	0.5−	0.3+	2000 02 03	704	0.2+	0.4−	2000 02 28	704	0.3−	0.2+
1973 09 29	675	(3.2−	0.0)	2000 02 03	704	0.3+	0.1+	2000 02 28	704	0.7+	0.5−
1973 09 29	675	1.9+	0.2+	2000 02 03	704	0.2+	0.1−	2000 02 28	704	0.4−	0.1−
1973 09 29	675	(2.9−	0.6−)	2000 02 03	704	0.1+	0.1−	2000 03 04	704	0.3−	0.4−
1973 09 30	675	2.0−	1.4−	2000 02 11	704	0.1+	0.3+	2000 03 04	704	0.1−	0.2−

2000 MAR. 20

M.P.C. 39503

1973 09 30	675	1.1−	1.3+	2000 02 11	704	0.2−	0.0	2000 03 04	704	0.0	0.1+
1973 09 30	675	1.5−	2.1−	2000 02 11	704	0.4+	0.4+	2000 03 04	704	0.3+	0.1+
1973 09 30	675	1.6+	0.4+	2000 02 11	704	0.2+	0.3−	2000 03 04	704	0.4+	0.5+
1973 10 04	675	1.2−	0.6−	2000 02 11	704	0.2−	0.3−				
1973 10 04	675	0.1+	0.2−	2000 02 25	703	0.2+	0.1−				

4071 T-2 = 2000 EL₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	226.30827		(2000.0)	P	Q
n	0.20479358	ω	241.26664	+0.64207814	+0.76432220
a	2.8505270	Ω	68.80522	−0.67921668	+0.60316823
e	0.0404129	i	3.66253	−0.35552829	+0.22803432
P	4.81	H	14.2	G 0.15	U 6

Residuals in seconds of arc

1973 09 19	675	0.3+	1.2+	1973 09 30	675	1.3−	0.6+	2000 03 07	595	0.9+	0.3−
1973 09 19	675	1.2−	0.5−	1973 09 30	675	1.5−	1.1+	2000 03 07	595	0.5+	0.2−
1973 09 20	675	1.5−	0.7−	1973 10 04	675	1.1+	1.6−	2000 03 07	595	0.4+	0.2−
1973 09 24	675	1.1+	0.7+	1973 10 04	675	0.2−	0.2−	2000 03 12	704	0.4−	0.3+
1973 09 24	675	0.9−	0.3−	1973 10 05	675	1.0−	0.9+	2000 03 12	704	0.2+	0.1+
1973 09 25	675	1.3−	1.1−	1973 10 05	675	1.0−	1.2+	2000 03 12	704	0.2−	0.2−
1973 09 25	675	1.7+	0.1−	2000 03 06	595	0.3−	0.4−	2000 03 12	704	0.6−	0.2−
1973 09 29	675	0.5+	2.0−	2000 03 06	595	0.7−	0.1+	2000 03 12	704	0.2−	1.1+
1973 09 29	675	0.2−	1.7−	2000 03 06	595	0.3+	0.1−				

5158 T-2 = 1999 VJ₇₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	185.29980		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.19094598	ω	359.95155	−0.67842828	+0.71721683
a	2.9867282	Ω	227.32635	−0.67397062	−0.69382614
e	0.0263333	i	12.50302	−0.29240155	−0.06484830
P	5.16	H	14.4	G 0.15	U 5

Residuals in seconds of arc

1973 09 20	675	1.4+	2.7−	1973 10 05	675	0.1−	0.3−	1999 11 14	704	0.0	0.2+
1973 09 20	675	2.4+	0.5−	1999 11 04	704	0.7−	0.1+	1999 11 14	704	0.3−	0.4+
1973 09 24	675	0.4+	0.3+	1999 11 04	704	0.8−	0.9+	1999 11 15	691	0.1+	0.1+
1973 09 24	675	0.0	0.7+	1999 11 04	704	0.2+	0.6−	1999 11 15	691	0.3+	0.2+
1973 09 25	675	1.0−	0.2+	1999 11 04	704	0.6−	0.0	1999 11 15	691	0.3+	0.0
1973 09 25	675	2.0−	1.3+	1999 11 05	704	0.1+	0.5−	1999 11 16	691	0.2+	0.4−
1973 09 29	675	0.5−	0.4−	1999 11 05	704	0.1−	0.2+	1999 11 16	691	0.1+	0.3−
1973 09 29	675	0.4−	0.1+	1999 11 05	704	0.3−	0.3+	1999 11 16	691	0.4+	0.3−
1973 09 30	675	0.4+	0.2−	1999 11 05	704	1.4−	0.1+	1999 11 17	691	0.5+	0.1−
1973 09 30	675	0.6+	0.9−	1999 11 05	704	0.1+	1.1−	1999 11 17	691	0.6+	0.1−
1973 10 04	675	1.1+	1.1+	1999 11 14	704	0.3−	1.4+	1999 11 17	691	0.7+	0.1−
1973 10 04	675	1.3−	3.0+	1999 11 14	704	0.4+	0.2+				
1973 10 05	675	1.0−	1.4−	1999 11 14	704	0.5+	0.5−				

1089 T-3 = 1991 RV₃₅ = 2000 AX₁₂₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	136.68250		(2000.0)	P	Q		
n	0.27849955	ω	65.61227	+0.97106527	+0.22623245		
a	2.3223075	Ω	281.23980	−0.23744596	+0.88039705		
e	0.1918028	i	4.47295	−0.02552739	+0.41679722		
P	3.54	H	14.4	G	0.15	U	3

Residuals in seconds of arc

1977 10 07	675	0.5+	0.7−	1998 08 17	704	0.8−	1.2+	2000 01 30	703	1.4−	1.1+
1977 10 11	675	1.4−	1.9+	1998 08 17	704	1.3−	0.9+	2000 02 02	704	0.2+	0.6+
1977 10 11	675	0.1−	1.8+	1998 08 17	704	0.4−	1.7+	2000 02 02	704	0.1+	0.6+
1977 10 12	675	0.6+	0.8+	1998 08 27	699	0.5+	0.2+	2000 02 02	704	0.1+	0.6+
1977 10 12	675	0.6+	0.0	1998 08 27	699	0.8+	0.4+	2000 02 02	704	0.2+	0.8+
1977 10 16	675	1.1−	1.4−	1998 08 27	699	1.0+	0.0	2000 02 02	704	0.6+	0.6+

1977 10 16	675	0.1+	0.7−	1998 10 20	699	0.2−	0.6−	2000 02 04	704	0.9+	0.3+
1977 10 17	675	0.1+	0.5−	1998 10 20	699	0.2−	1.0+	2000 02 04	704	0.3−	0.3+
1977 10 17	675	0.6+	0.6−	1998 10 20	699	1.7−	0.4+	2000 02 04	704	0.2+	0.8−
1977 10 22	675	(1.0−	5.0−)	2000 01 05	704	0.4+	0.8+	2000 02 12	704	(2.2+	0.6−)
1977 10 22	675	(0.7+	4.9−)	2000 01 05	704	1.1+	0.1−	2000 02 12	704	0.4−	1.2+
1991 09 14	675	1.0+	0.9−	2000 01 05	704	1.4+	0.4+	2000 02 12	704	1.2−	0.8+
1991 09 14	675	0.1+	1.9−	2000 01 05	704	0.6+	0.5−	2000 02 12	704	0.1+	0.4+
1998 07 03	699	0.2−	0.2−	2000 01 07	704	0.8+	0.1−	2000 02 12	704	1.4−	0.1−
1998 07 03	699	0.7−	0.1+	2000 01 07	704	0.4+	1.1−	2000 03 05	704	0.3+	0.6+
1998 07 03	699	0.6−	0.6−	2000 01 07	704	0.7+	0.1+	2000 03 05	704	0.3+	0.4−
1998 07 14	699	0.3+	0.3+	2000 01 07	704	0.2+	0.9−	2000 03 05	704	0.5+	0.1+
1998 07 14	699	0.6+	0.4+	2000 01 07	704	0.3+	0.7−	2000 03 05	704	0.3+	0.3+
1998 07 14	699	0.2+	0.1+	2000 01 30	703	0.7−	0.6−	2000 03 05	704	0.2+	0.6+
1998 08 17	704	0.0	0.5+	2000 01 30	703	1.3−	1.2−				
1998 08 17	704	0.4−	0.5+	2000 01 30	703	1.2−	1.1+				

1091 T-3 = 1999 VR₁₄₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

$\dot{M}$	19.67741		(2000.0)	P	Q		
n	0.18131019	ω	157.29216	+0.68014442	−0.71725888		
a	3.0916328	Ω	249.47977	+0.64530753	+0.68382810		
e	0.0822702	i	9.30747	+0.34782433	+0.13386126		
P	5.44	H	14.3	G	0.15	U	4

Residuals in seconds of arc

1977 10 11	675	0.9+	0.8+	1999 11 03	704	0.3+	0.3−	1999 11 16	704	0.0	0.7−
1977 10 11	675	0.5+	1.1+	1999 11 03	704	0.5+	0.4+	1999 11 16	704	0.9+	0.1−
1977 10 12	675	0.7+	0.1+	1999 11 03	704	0.3−	0.2−	1999 11 16	704	0.6+	0.2−
1977 10 12	675	0.5−	0.3−	1999 11 11	703	0.7−	0.6−	1999 11 16	704	0.2+	0.7−
1977 10 16	675	0.2−	1.5−	1999 11 11	703	0.1+	0.3+	1999 11 16	704	0.6+	0.5−
1977 10 16	675	0.2−	0.2−	1999 11 11	703	1.2−	0.5+	1999 12 08	704	0.2+	0.8+
1977 10 17	675	0.5−	0.8+	1999 11 11	703	0.1−	0.4−	1999 12 08	704	0.2+	0.3−
1977 10 17	675	1.0+	0.4+	1999 11 14	703	0.4−	0.4+	1999 12 08	704	0.1+	0.4−
1977 10 22	675	(1.2−	4.3−)	1999 11 14	703	0.2−	0.2+	1999 12 08	704	0.1−	0.3+
1977 10 22	675	1.7−	1.3−	1999 11 14	703	0.0	0.8+	1999 12 08	704	0.7−	0.0
1999 11 03	704	0.2−	0.3+	1999 11 14	703	0.1−	0.4+				

1093 T-3 = 2000 DL₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	208.30960		(2000.0)	P	Q		
n	0.23970194	ω	344.75806	+0.69988835	+0.71170055		
a	2.5665812	Ω	329.58398	−0.64222356	+0.59010064		
e	0.1525547	i	6.84286	−0.31257829	+0.38113457		
P	4.11	H	14.3	G	0.15	U	4

Residuals in seconds of arc

1977 10 07	675	0.3+	0.2−	1998 12 17	704	0.2−	0.4+	2000 03 03	704	0.4−	0.1+
1977 10 11	675	0.3+	2.0+	1998 12 17	704	(5.6−	1.7−)	2000 03 03	704	0.8−	0.9+
1977 10 11	675	0.5−	1.5+	2000 02 11	704	0.4+	0.6+	2000 03 03	704	0.6−	0.9+
1977 10 12	675	0.5−	0.0	2000 02 11	704	0.2+	0.6+	2000 03 05	704	0.6−	0.2−
1977 10 12	675	0.8+	0.2+	2000 02 11	704	0.0	1.2−	2000 03 05	704	0.2−	0.0
1977 10 16	675	0.8−	2.0−	2000 02 11	704	0.1−	0.4−	2000 03 05	704	0.4+	0.1−
1977 10 16	675	0.1+	0.1−	2000 02 29	704	0.7+	0.2−	2000 03 05	704	0.2+	0.6−
1977 10 17	675	0.6+	0.6−	2000 02 29	704	0.2+	0.2+	2000 03 05	704	0.8+	1.2+
1977 10 17	675	0.5−	0.2−	2000 02 29	704	0.1−	0.2−	2000 03 11	704	0.0	0.9−
1977 10 22	675	(0.7−	3.9−)	2000 02 29	704	0.4+	0.7+	2000 03 11	704	0.2−	0.6−
1977 10 22	675	(0.3−	4.2−)	2000 02 29	704	0.7+	0.3+	2000 03 11	704	(2.8+	0.9−)
1998 12 17	704	(3.0+	1.8+)	2000 03 03	704	0.9−	0.5−				
1998 12 17	704	0.3+	0.8−	2000 03 03	704	0.2+	0.2−				

1123 T-3 = 2000 AG₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler

<i>M</i>	197.26473	(2000.0)	P		Q	
<i>n</i>	0.19113516	ω	314.57371	+0.41172208	+0.90994851	
<i>a</i>	2.9847571	Ω	339.57955	-0.79046050	+0.32940413	
<i>e</i>	0.0695677	<i>i</i>	8.20360	-0.45349435	+0.25196553	
<i>P</i>	5.16	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 6	

Residuals in seconds of arc

1977 10 07	675	1.6+	1.4-	1977 10 16	675	1.0-	0.7+	2000 01 03	704	1.1+	0.5+
1977 10 07	675	(2.1+	4.2-)	1977 10 16	675	0.5+	1.1-	2000 01 03	704	0.2+	0.2-
1977 10 11	675	1.2-	0.7+	1977 10 16	675	1.3-	1.0+	2000 01 03	704	0.7-	0.0
1977 10 11	675	0.4-	0.2+	1977 10 16	675	1.1+	1.1-	2000 01 03	704	0.4-	0.5+
1977 10 11	675	0.1+	0.5+	1977 10 17	675	0.8-	0.3+	2000 01 04	704	0.4-	0.7-
1977 10 11	675	1.0-	0.1-	1977 10 17	675	1.8+	1.2+	2000 01 04	704	0.7+	0.5-
1977 10 12	675	0.4-	1.1+	1977 10 17	675	1.5-	0.7-	2000 01 04	704	0.1+	0.8+
1977 10 12	675	0.8+	0.2+	1977 10 17	675	0.6+	0.4+	2000 01 04	704	0.7-	0.4-
1977 10 12	675	(2.6+	1.1-)	1977 10 21	675	(2.6+	1.0+)				
1977 10 12	675	0.2-	0.9-	1977 10 21	675	1.1+	1.1-				

1124 T-3 = 2000 DO₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	99.58417	(2000.0)	P		Q	
<i>n</i>	0.27880703	ω	92.77955	+0.74462604	-0.66418363	
<i>a</i>	2.3205997	Ω	308.85068	+0.57360648	-0.68751264	
<i>e</i>	0.0864345	<i>i</i>	4.88170	+0.34133219	+0.29357534	
<i>P</i>	3.54	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1977 10 07	675	0.5+	1.7-	1977 10 22	675	1.2+	0.0	2000 02 29	704	0.5+	0.8-
1977 10 11	675	1.1-	1.8+	1977 10 22	675	(1.3+	4.8-)	2000 03 03	704	0.3+	0.5-
1977 10 11	675	0.4-	1.3+	2000 02 02	704	0.3+	0.3+	2000 03 03	704	0.8-	0.0
1977 10 12	675	0.1+	0.1+	2000 02 02	704	0.2-	0.5+	2000 03 03	704	0.4+	0.2+
1977 10 12	675	0.5-	0.4+	2000 02 02	704	1.3-	0.6+	2000 03 03	704	0.1-	0.2+
1977 10 16	675	0.7-	1.6-	2000 02 02	704	0.2-	0.3-	2000 03 03	704	0.5+	0.4+
1977 10 16	675	1.0-	0.5+	2000 02 02	704	0.6-	0.1-	2000 03 11	704	0.4+	0.1-
1977 10 17	675	0.4+	0.1+	2000 02 29	704	0.1-	0.6+	2000 03 11	704	0.6-	0.4+
1977 10 17	675	0.0	0.1-	2000 02 29	704	0.1+	0.5-	2000 03 11	704	0.2+	0.9-
1977 10 22	675	1.6+	0.6-	2000 02 29	704	0.2+	0.3-	2000 03 11	704	0.7+	0.1+
1977 10 22	675	(0.5+	5.7-)	2000 02 29	704	0.4+	0.2-	2000 03 11	704	0.0	0.5+

1156 T-3 = 2000 AC₁₁₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	191.19598	(2000.0)	P		Q	
<i>n</i>	0.19047992	ω	14.84810	+0.42330586	+0.89318977	
<i>a</i>	2.9915981	Ω	280.38634	-0.84615975	+0.32991585	
<i>e</i>	0.0791216	<i>i</i>	8.87417	-0.32376817	+0.30556106	
<i>P</i>	5.17	<i>H</i>	13.4	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1977 10 16	675	0.9-	0.5-	1998 11 16	704	0.1-	1.2-	2000 02 02	704	0.6-	0.3-
1977 10 16	675	0.6+	0.0	1998 11 16	704	0.5+	0.7-	2000 02 02	704	0.4+	0.4+
1977 10 17	675	1.1+	0.5+	1998 11 16	704	0.4+	0.3+	2000 02 02	704	0.3+	0.6-
1977 10 17	675	0.3+	0.8+	1999 12 07	704	(2.2+	0.0)	2000 02 02	704	0.4+	0.9+
1977 10 22	675	0.7-	0.9-	1999 12 07	704	0.4+	0.6-	2000 02 02	704	0.1+	0.4+
1977 10 22	675	0.4-	0.3+	1999 12 07	704	0.8-	0.4+	2000 02 03	704	0.1-	0.5-
1998 10 03	699	0.9-	0.9-	2000 01 05	704	0.6-	1.1+	2000 02 03	704	0.3+	0.2-
1998 10 03	699	0.7+	0.2+	2000 01 05	704	0.8+	0.2+	2000 02 03	704	0.4+	0.6-
1998 10 03	699	0.5+	1.5+	2000 01 05	704	0.8+	0.1-	2000 02 03	704	1.0+	0.2+
1998 11 14	704	0.1-	0.9+	2000 01 05	704	0.1-	0.1-	2000 02 03	704	0.1+	0.0
1998 11 14	704	0.5+	0.5+	2000 01 05	704	0.2+	0.7-	2000 02 08	704	0.1-	0.6-
1998 11 14	704	(2.4-	0.5+)	2000 01 07	704	0.3-	0.5+	2000 02 08	704	0.5-	0.9-
1998 11 14	704	(0.4-	2.6+)	2000 01 07	704	0.1+	0.1+	2000 02 08	704	0.1-	0.0
1998 11 14	704	(5.7-	1.8+)	2000 01 07	704	0.3-	0.9+	2000 02 08	704	0.2-	0.6-

1998 11 16	704	0.8-	0.1+	2000 01 07	704	1.4-	0.2+	2000 02 08	704	0.1+	0.0
1998 11 16	704	0.5-	1.0-	2000 01 07	704	0.3-	0.7+				

1173 T-3 = 2000 AE₁₁₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	179.92931	(2000.0)	P		Q	
<i>n</i>	0.23517068	ω	51.57149	+0.58927270	+0.79351094	
<i>a</i>	2.5994448	Ω	255.20456	-0.78158763	+0.51223343	
<i>e</i>	0.1392277	<i>i</i>	9.04397	-0.20464229	+0.32856856	
<i>P</i>	4.19	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1977 10 07	675	1.0+	1.6-	1977 10 17	675	0.9-	1.9+	2000 01 05	704	0.4+	0.6-
1977 10 11	675	1.2+	0.1-	1977 10 22	675	0.2-	1.2-	2000 01 05	704	0.3-	0.2-
1977 10 11	675	1.8+	0.0	1977 10 22	675	1.1+	1.1-	2000 01 07	704	0.5+	0.3+
1977 10 12	675	0.9-	0.1-	1998 10 23	327	0.1+	0.1+	2000 01 07	704	1.6-	1.0-
1977 10 12	675	0.5-	1.4+	1998 10 23	327	0.0	0.1-	2000 01 07	704	0.3+	0.7+
1977 10 16	675	1.7-	0.1-	1998 10 23	327	0.1-	0.0	2000 01 07	704	1.4+	0.8-
1977 10 16	675	2.0-	0.7-	2000 01 05	704	0.6+	0.4+	2000 01 07	704	0.5-	0.1-
1977 10 17	675	0.1-	1.2+	2000 01 05	704	0.8-	1.1+				

1183 T-3 = 1999 VZ₁₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	48.87184	(2000.0)	P		Q	
<i>n</i>	0.27191421	ω	115.15256	+0.80040878	-0.59571301	
<i>a</i>	2.3596529	Ω	281.48021	+0.52249223	+0.74797517	
<i>e</i>	0.1430133	<i>i</i>	3.91271	+0.29384971	+0.29267584	
<i>P</i>	3.62	<i>H</i>	16.0	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1977 10 07	675	0.6-	1.6-	1977 10 17	675	2.0-	0.1-	1999 11 14	704	0.1+	0.1+
1977 10 11	675	0.8+	1.9+	1977 10 17	675	1.8+	0.5+	1999 11 14	704	0.1+	0.6-
1977 10 11	675	0.3+	1.5+	1977 10 17	675	2.2-	1.4-	1999 11 14	704	0.1-	0.5-
1977 10 12	675	1.4+	1.0+	1977 10 17	675	0.5+	1.2+	1999 11 16	704	0.2-	0.7-
1977 10 12	675	(2.8+	2.6+)	1977 10 21	675	0.6+	0.1-	1999 11 16	704	0.5-	0.9+
1977 10 16	675	(1.5-	2.7-)	1977 10 21	675	0.5-	1.4-	1999 11 16	704	0.1+	0.3+
1977 10 16	675	0.4-	0.7-	1977 10 22	675	0.1-	0.2-	2000 01 04	704	1.6+	1.9+
1977 10 16	675	0.8-	0.2+	1977 10 22	675	0.8+	0.4-	2000 01 04	704	0.3+	0.4-
1977 10 16	675	0.3+	0.2-	1999 11 14	704	0.0	0.6-	2000 01 04	704	1.4-	0.3-

1206 T-3 = 1999 RW₁₉₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	51.51671	(2000.0)	P		Q	
<i>n</i>	0.26775316	ω	80.55763	+0.93721102	+0.34133592	
<i>a</i>	2.3840370	Ω	259.45798	-0.34169663	+0.85755762	
<i>e</i>	0.2635231	<i>i</i>	4.17599	-0.06984927	+0.38481777	
<i>P</i>	3.68	<i>H</i>	15.8	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1977 10 16	675	0.1-	0.5-	1999 09 04	703	0.3+	0.5+	1999 09 16	704	1.2+	1.1-
1977 10 16	675	0.4-	1.3+	1999 09 04	703	0.1-	0.6-	1999 09 16	704	0.5+	0.0
1977 10 17	675	0.2-	1.5+	1999 09 04	703	0.2+	0.4-	1999 09 29	703	0.2-	0.3+
1977 10 17	675	1.3+	0.4+	1999 09 04	703	0.0	1.8+	1999 09 29	703	0.0	0.0
1977 10 17	675	1.9-	0.7-	1999 09 08	699	0.1-	0.3+	1999 09 29	703	0.7-	0.0
1977 10 17	675	0.7+	2.2+	1999 09 08	704	0.1+	0.0	1999 09 29	703	0.6-	0.3-
1977 10 21	675	0.2+	0.0	1999 09 08	704	0.1-	0.4-	1999 10 04	704	0.5+	0.2-
1977 10 21	675	0.7+	1.1-	1999 09 08	699	0.2-	0.2+	1999 10 04	704	0.0	0.0
1977 10 22	675	0.4+	1.0+	1999 09 08	704	0.1-	0.4-	1999 10 04	704	0.2+	0.2-
1977 10 22	675	0.4-	2.5-	1999 09 08	704	0.6-	0.6-	1999 10 04	704	0.3-	0.7+
1977 10 22	675	0.2-	0.8+	1999 09 08	699	0.7-	0.5+	1999 10 04	704	0.5+	0.4-
1977 10 22	675	0.3-	2.1-	1999 09 16	704	0.3+	0.1-				

2000 MAR. 20

M.P.C. 39505

1213 T-3 = 2000 CZ₄₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	86.21092		(2000.0)	P		Q		
<i>n</i>	0.27721123	ω	110.03706	+0.71515937		-0.69290799		
<i>a</i>	2.3294971	Ω	293.94964	+0.59788018		+0.67446327		
<i>e</i>	0.0930671	<i>i</i>	5.76442	+0.36205851		+0.25490747		
<i>P</i>	3.56	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1977 10 16	675	0.9-	1.1-	2000 02 02	704	0.2+	0.2-	2000 02 08	704	0.1-	0.0
1977 10 16	675	1.0-	0.3-	2000 02 06	704	0.1+	0.3+	2000 02 08	704	0.6-	0.5+
1977 10 17	675	0.7-	0.3-	2000 02 06	704	0.1-	0.4-	2000 02 08	704	0.4+	1.0-
1977 10 17	675	0.7-	0.3-	2000 02 06	704	0.1+	0.3+	2000 02 08	704	(3.0-	1.2+)
1977 10 22	675	0.1+	1.0-	2000 02 06	704	0.6-	0.9+	2000 03 05	704	0.1-	0.5+
1977 10 22	675	0.1+	2.0+	2000 02 06	704	0.2+	0.5+	2000 03 05	704	0.3-	0.5-
2000 02 02	704	0.2+	0.3-	2000 02 06	704	0.8+	0.1+	2000 03 05	704	0.2-	0.3+
2000 02 02	704	0.4-	0.3+	2000 02 06	704	0.1-	0.3+	2000 03 05	704	0.1-	1.0-
2000 02 02	704	0.2-	0.4-	2000 02 06	704	1.5+	0.2-				
2000 02 02	704	0.5-	1.0-	2000 02 06	704	0.2-	0.7+				

2014 T-3 = 2000 DE₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	88.29424		(2000.0)	P		Q		
<i>n</i>	0.19162794	ω	76.87986	+0.41004047		-0.91200195		
<i>a</i>	2.9796380	Ω	348.89381	+0.81330861		+0.37103403		
<i>e</i>	0.0870238	<i>i</i>	3.24996	+0.41279041		+0.17488909		
<i>P</i>	5.14	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

1977 10 07	675	0.1-	0.5-	1977 10 21	675	(3.8-	2.1+)	2000 03 03	704	0.1+	1.2-
1977 10 11	675	1.4-	1.0+	1977 10 21	675	1.8+	0.2-	2000 03 03	704	0.5+	0.8-
1977 10 11	675	0.9-	1.2+	1977 10 22	675	0.5+	2.0+	2000 03 11	704	0.2+	0.4-
1977 10 12	675	0.5+	0.7+	1977 10 22	675	1.7+	1.0-	2000 03 11	704	0.6-	0.1-
1977 10 12	675	0.1-	0.6-	2000 02 27	691	0.2+	0.7-	2000 03 11	704	1.0-	0.1-
1977 10 16	675	0.6+	1.2-	2000 02 27	691	0.2+	0.6-	2000 03 11	704	0.5-	1.4+
1977 10 16	675	0.4-	1.4-	2000 02 27	691	0.3+	0.6-	2000 03 11	704	0.7-	0.4+
1977 10 17	675	0.3-	0.7+	2000 02 29	704	1.2+	0.6+	2000 03 11	699	0.1-	1.7+
1977 10 17	675	0.8-	1.1-	2000 02 29	704	0.7+	0.5-	2000 03 11	699	0.1+	0.3+
1977 10 17	675	1.1-	0.6-	2000 02 29	704	0.1-	0.1-	2000 03 11	699	1.1-	0.7+
1977 10 17	675	1.1-	0.0	2000 02 29	704	0.5-	0.7+	2000 03 11	699	0.1-	1.2+
1977 10 21	675	(3.9-	1.0+)	2000 03 03	704	0.9+	0.8-				
1977 10 21	675	1.0+	1.2+	2000 03 03	704	0.4+	0.9-				

2190 T-3 = 2000 CD₂₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	268.38414		(2000.0)	P		Q		
<i>n</i>	0.28175539	ω	6.15088	-0.44764953		+0.89211295		
<i>a</i>	2.3043825	Ω	237.27144	-0.82348984		-0.43795239		
<i>e</i>	0.1029258	<i>i</i>	4.17135	-0.34853176		-0.11105042		
<i>P</i>	3.50	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1977 10 07	675	1.2+	1.9-	2000 02 04	704	0.8-	0.0	2000 02 08	704	0.1-	0.4-
1977 10 11	675	0.9-	0.1-	2000 02 04	704	1.1+	0.3+	2000 02 08	704	0.1-	0.9+
1977 10 11	675	0.4+	0.4+	2000 02 04	704	0.0	0.6-	2000 02 08	704	0.0	0.5-
1977 10 12	675	0.7-	1.1+	2000 02 05	704	0.8+	1.1-	2000 02 08	704	0.1+	0.6+
1977 10 12	675	1.1-	0.8+	2000 02 05	704	0.2-	0.4-	2000 02 08	704	1.0-	0.9-
1977 10 16	675	(0.2+	2.6-)	2000 02 05	704	0.2-	0.2-	2000 02 08	704	0.3+	0.7+
1977 10 16	675	0.9-	2.0-	2000 02 05	704	0.7+	0.1-	2000 02 10	704	0.4-	0.3-
1977 10 17	675	1.1+	1.0+	2000 02 05	704	0.6+	1.3-	2000 02 10	704	0.0	0.2+
1977 10 17	675	0.8-	0.3+	2000 02 06	704	0.6+	0.5-	2000 02 10	704	0.6+	0.7+
1977 10 21	675	1.3+	1.3-	2000 02 06	704	0.3-	0.2+	2000 02 10	704	0.4+	0.6-
1977 10 22	675	0.5+	1.9+	2000 02 06	704	1.4+	0.8-	2000 02 10	704	0.0	0.3-

1977 10 22	675	(0.4+	2.6+)	2000 02 06	704	0.0	0.1+	2000 02 27	703	0.1-	0.6+
2000 02 02	703	0.0	0.0	2000 02 06	704	0.0	0.4-	2000 02 27	703	1.2-	0.0
2000 02 02	704	0.5-	0.0	2000 02 06	704	0.2+	0.2+	2000 02 27	703	0.0	0.3+
2000 02 02	703	0.3-	0.5+	2000 02 06	704	0.3-	0.3+	2000 02 27	703	0.4-	0.6+
2000 02 02	703	0.2-	0.1+	2000 02 06	704	0.7+	1.7-	2000 03 05	704	0.3+	0.2+
2000 02 02	704	0.6-	0.1+	2000 02 06	704	0.0	0.1-	2000 03 05	704	0.2+	0.2-
2000 02 02	703	0.2+	0.8+	2000 02 08	704	0.5-	0.5+	2000 03 05	704	0.1+	0.5+
2000 02 02	704	0.3-	0.3+	2000 02 08	704	0.3-	0.3+	2000 03 05	704	0.3+	0.6+
2000 02 02	704	0.6-	0.2-	2000 02 08	704	0.0	0.5-	2000 03 05	704	0.1+	0.3-
2000 02 02	704	0.4-	0.9+	2000 02 08	704	0.0	0.9+				

2192 T-3 = 2000 AG₂₂₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	67.39051		(2000.0)	P		Q		
<i>n</i>	0.27230200	ω	103.62981	+0.97201216		-0.23401556		
<i>a</i>	2.3574120	Ω	269.90677	+0.20674421		+0.89393660		
<i>e</i>	0.2299549	<i>i</i>	1.18692	+0.11157592		+0.38224870		
<i>P</i>	3.62	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1977 10 07	675	0.2+	0.1-	1977 10 17	675	0.4+	0.2+	2000 01 05	704	0.3-	0.7+
1977 10 11	675	0.0	1.2+	1977 10 17	675	0.4-	0.5+	2000 01 05	704	0.2+	0.6-
1977 10 11	675	0.2-	0.4+	1977 10 21	675	0.8+	1.5-	2000 01 05	704	0.3-	0.6+
1977 10 11	675	0.4-	0.3-	1977 10 21	675	(1.0+	3.2-)	2000 01 05	704	0.2-	1.0-
1977 10 11	675	0.0	0.1+	1999 12 07	704	0.1-	0.1-	2000 01 12	691	0.6+	0.1+
1977 10 12	675	0.7-	1.6+	1999 12 07	704	0.7+	0.4+	2000 01 12	691	0.5+	0.2+
1977 10 12	675	1.1+	0.3-	1999 12 07	704	0.2+	0.4+	2000 01 12	691	0.7+	0.0
1977 10 12	675	0.0	0.6+	1999 12 07	704	0.1+	0.1-	2000 01 13	691	0.1+	0.0
1977 10 12	675	0.5+	1.1+	2000 01 04	691	0.7-	0.2-	2000 01 13	691	0.0	0.2+
1977 10 16	675	0.9-	1.8-	2000 01 04	691	1.0-	0.3-	2000 01 13	691	0.3+	0.1+
1977 10 16	675	0.3-	1.8-	2000 01 04	691	0.8-	0.2-				

2238 T-3 = 1999 RC₁₄₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	20.96584		(2000.0)	P		Q		
<i>n</i>	0.26713472	ω	141.01038	+0.91549829		-0.39596178		
<i>a</i>	2.3877150	Ω	242.45475	+0.34608345		+0.86538860		
<i>e</i>	0.2567975	<i>i</i>	4.60947	+0.20515636		+0.30711047		
<i>P</i>	3.69	<i>H</i>	16.9	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1977 10 07	675	1.3+	0.3-	1977 10 21	675	0.5+	0.2+	1999 09 09	704	0.3-	0.2+
1977 10 11	675	0.4-	1.5+	1977 10 21	675	1.0-	0.5-	1999 09 09	704	0.4-	0.3-
1977 10 11	675	0.2-	1.0+	1977 10 22	675	0.1+	1.5-	1999 09 09	704	0.7+	0.2+
1977 10 12	675	1.2-	1.2+	1977 10 22	675	1.1+	0.2-	1999 09 09	704	0.7-	0.5+
1977 10 12	675	0.4+	1.2+	1999 09 04	703	0.3-	1.5+	1999 09 14	704	0.2+	1.6-
1977 10 16	675	0.1+	0.9-	1999 09 04	703	0.2+	0.3-	1999 09 14	704	0.1+	0.8+
1977 10 16	675	1.1-	1.3-	1999 09 04	703	0.7+	0.5-	1999 09 14	704	0.2-	0.1-
1977 10 17	675	0.5+	0.0	1999 09 04	703	0.9-	1.1-	1999 09 14	704	0.5+	0.0
1977 10 17	675	0.1-	0.0	1999 09 09	704	0.7+	0.3+				

2271 T-3 = 2000 EO₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	155.02446		(2000.0)	P	Q
n	0.19503292	ω	127.69796	+0.94279270	-0.33285876
a	2.9448563	Ω	251.75121	+0.29936507	+0.86986498
e	0.0761730	i	1.12384	+0.14670540	+0.36406038
P	5.05	H	13.4	G 0.15	U 4

M.P.C. 39506

2000 MAR. 20

1977 10 11	675	1.3−	1.6+	1977 10 22	675	1.7+	0.5+	2000 03 08	704	0.7+	0.3−
1977 10 11	675	1.1−	0.2−	1998 12 17	704	1.3+	0.4+	2000 03 10	704	0.1−	0.3−
1977 10 11	675	1.3−	1.6+	1998 12 17	704	0.4+	0.2+	2000 03 10	704	0.2+	0.4+
1977 10 12	675	0.2+	0.0	1998 12 17	704	0.6−	1.2+	2000 03 10	704	0.2+	0.5+
1977 10 12	675	0.0	0.5+	1998 12 17	704	1.4−	1.5−	2000 03 10	704	0.2+	0.0
1977 10 12	675	0.0	0.7−	1998 12 17	704	1.0−	1.0+	2000 03 10	704	0.3+	0.3+
1977 10 12	675	1.1+	1.1+	1999 01 20	704	0.8−	0.5+	2000 03 11	704	0.3−	0.0
1977 10 16	675	0.2−	1.5−	1999 01 20	704	0.1+	0.0	2000 03 11	704	0.0	0.2−
1977 10 16	675	0.9+	2.3−	1999 01 20	704	0.8+	0.3−	2000 03 11	704	0.6+	0.3−
1977 10 16	675	0.1−	1.0−	1999 01 20	704	0.3+	0.7−	2000 03 11	704	0.4−	0.1+
1977 10 17	675	0.3−	1.1−	1999 01 20	704	1.1+	1.0−				
1977 10 17	675	0.3−	1.4−	2000 03 08	704	0.1−	0.1−				

2281 T-3 = 1997 RP₆ = 2000 CT₄₉Id. M. E. Sansaturio (*MPC* 38743, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	280.48777		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.24133918	ω	34.59302	−0.27344351			+0.96037426
<i>a</i>	2.5549603	Ω	219.61499	−0.90051999			−0.27530568
<i>e</i>	0.1680978	<i>i</i>	4.85308	−0.33807159			−0.04345186
<i>P</i>	4.08	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1977 10 11	675	1.0+	1.6+	1997 09 07	910	0.1+	0.0	2000 02 02	704	0.4+	0.1−
1977 10 11	675	0.1+	0.2+	1997 09 07	910	0.3+	0.2−	2000 02 02	704	0.3−	0.4−
1977 10 12	675	0.4+	0.6+	1997 09 07	910	0.2+	0.1+	2000 02 06	704	0.3+	0.2−
1977 10 12	675	2.2−	0.4−	1997 09 09	910	0.2−	0.1−	2000 02 06	704	0.2+	0.3+
1977 10 16	675	(1.8+	3.4−)	1997 09 09	910	0.3−	0.0	2000 02 06	704	0.4−	0.3+
1977 10 16	675	1.0+	1.6−	1997 09 09	910	0.2−	0.2+	2000 03 13	704	0.3+	0.4+
1977 10 17	675	0.6−	0.2−	2000 02 02	704	0.1−	0.2−	2000 03 13	704	0.1+	0.5+
1977 10 17	675	0.3+	0.1+	2000 02 02	704	0.6−	0.1−	2000 03 13	704	0.1+	0.6−

2324 T-3 = 2000 DN₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	273.38968		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.28597175	ω	284.32305	−0.06690493			+0.99745193
<i>a</i>	2.2816759	Ω	341.78603	−0.88217395			−0.07073280
<i>e</i>	0.1630602	<i>i</i>	4.54463	−0.46614681			−0.00930141
<i>P</i>	3.45	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1977 10 07	675	0.9+	0.7+	2000 02 11	704	0.1−	0.4+	2000 03 03	704	0.0	0.4+
1977 10 11	675	0.3+	0.5+	2000 02 11	704	0.5+	0.5+	2000 03 03	704	0.1+	0.3+
1977 10 11	675	0.2−	1.3+	2000 02 11	704	0.2−	0.5+	2000 03 04	704	0.1+	0.4−
1977 10 12	675	1.4−	0.3+	2000 02 11	704	0.2+	0.2+	2000 03 04	704	0.2−	0.4−
1977 10 12	675	1.4−	0.2+	2000 02 11	704	0.1+	0.7+	2000 03 04	704	0.1−	0.7−
1977 10 16	675	0.5+	1.3−	2000 02 26	703	0.1+	0.0	2000 03 04	704	0.1+	0.9−
1977 10 16	675	0.2−	1.7−	2000 02 26	703	0.1+	0.4+	2000 03 04	704	0.1+	0.8−
1977 10 17	675	1.4−	0.4+	2000 02 26	703	(2.2−	1.7+)	2000 03 11	704	0.4−	0.4−
1977 10 17	675	0.2−	1.2+	2000 02 26	703	0.2+	0.7+	2000 03 11	704	0.2−	0.2−
1977 10 21	675	1.5+	0.1+	2000 02 29	704	0.2−	0.3+	2000 03 11	704	0.4−	0.4−
1977 10 21	675	0.4+	0.7+	2000 02 29	704	0.1−	0.2+	2000 03 11	704	0.2−	0.2−
1977 10 22	675	0.6+	0.7−	2000 02 29	704	0.0	0.2+	2000 03 11	704	0.3+	0.2−
1977 10 22	675	0.8+	1.8−	2000 02 29	704	0.1−	0.1+	2000 03 15	704	0.1−	0.4−
2000 01 04	704	0.7−	0.2+	2000 02 29	704	0.3−	0.6+	2000 03 15	704	0.1−	0.4−
2000 01 04	704	0.5−	0.1−	2000 03 03	704	0.2+	0.0	2000 03 15	704	0.4+	0.4+
2000 01 04	704	0.2−	1.0−	2000 03 03	704	0.2+	0.1+	2000 03 15	704	0.1+	0.3+
2000 01 04	704	1.3+	0.4−	2000 03 03	704	0.1−	0.3+	2000 03 15	704	0.2+	0.0

2383 T-3 = 2000 EX₇₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	106.39548		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.19052508	ω	85.48038	+0.82942558			−0.55754854
<i>a</i>	2.9911254	Ω	308.40191	+0.49345769			+0.76025446
<i>e</i>	0.0688734	<i>i</i>	2.52591	+0.26182573			+0.33339583
<i>P</i>	5.17	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1977 10 07	675	(3.2+	0.4+)	1977 10 17	675	2.0−	1.4+	2000 02 27	703	0.3+	0.6+
1977 10 11	675	0.7+	0.9+	1977 10 21	675	0.6+	0.0	2000 03 10	691	0.1−	0.2−
1977 10 11	675	0.0	0.7+	1977 10 21	675	1.8+	1.2−	2000 03 10	691	0.2+	0.3−
1977 10 12	675	0.3+	0.1+	1977 10 22	675	0.2−	0.4+	2000 03 10	691	0.0	0.2−
1977 10 12	675	0.4+	0.9−	1977 10 22	675	0.3+	1.2−	2000 03 12	691	0.1+	0.0
1977 10 16	675	1.1−	0.0	2000 02 27	703	0.2+	1.0+	2000 03 12	691	0.1−	0.1+
1977 10 16	675	0.5+	1.6−	2000 02 27	703	1.0−	1.0−	2000 03 12	691	0.2+	0.0
1977 10 17	675	1.2−	1.2+	2000 02 27	703	0.3+	0.0				

3172 T-3 = 1999 VY₁₃₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	42.86790		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.27002413	ω	64.38456	+0.90182854			−0.43205168
<i>a</i>	2.3706512	Ω	321.21247	+0.39289258			+0.82575978
<i>e</i>	0.1920455	<i>i</i>	0.55357	+0.17983521			+0.36256328
<i>P</i>	3.65	<i>H</i>	16.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1977 10 16	675	0.2+	1.0−	1999 11 04	704	0.4+	0.8−	1999 11 14	704	0.2−	0.2−
1977 10 16	675	0.2−	0.5+	1999 11 04	704	0.3−	0.2−	1999 11 14	691	0.1−	0.0
1977 10 17	675	0.4−	0.2−	1999 11 04	704	0.3−	0.4−	1999 11 14	691	0.1−	0.3+
1977 10 17	675	0.1−	0.2−	1999 11 09	691	0.5+	0.1−	1999 11 14	691	0.1+	0.4+
1977 10 21	675	0.6−	0.3−	1999 11 09	691	0.2+	0.0	1999 11 16	704	0.8+	0.5−
1977 10 21	675	0.9+	0.3+	1999 11 09	691	0.5+	0.1+	1999 11 16	704	0.5−	0.1+
1977 10 22	675	0.3−	1.1+	1999 11 11	703	0.4−	0.9+	1999 11 16	704	1.1−	1.8+
1977 10 22	675	0.6+	0.8−	1999 11 11	703	0.6−	0.5+	1999 11 16	704	0.0	0.1+
1999 10 06	704	0.6+	0.6+	1999 11 11	703	0.2+	0.3−	1999 11 16	704	0.4−	0.4+
1999 10 06	704	1.0−	0.7−	1999 11 11	703	1.0−	0.8+	1999 12 07	704	1.3+	0.2+
1999 10 06	704	0.8+	0.7+	1999 11 14	704	1.0+	0.5−	1999 12 07	704	1.0+	0.5−
1999 10 06	704	0.6−	0.0	1999 11 14	704	0.0	0.3+	1999 12 07	704	1.1−	0.7−
1999 11 04	704	0.2−	0.7+	1999 11 14	704	0.2+	0.2−	1999 12 07	704	0.9−	0.8−
1999 11 04	704	0.6+	1.4−	1999 11 14	704	0.5+	0.3−				

3245 T-3 = 2000 AN₆₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	58.62499		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.27507871	ω	10.01989	+0.46457111			−0.88421146
<i>a</i>	2.3415210	Ω	52.31433	+0.80817064			+0.40100158
<i>e</i>	0.2088020	<i>i</i>	3.50728	+0.36198605			+0.23951583
<i>P</i>	3.58	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1977 10 07	675	0.4−	0.4−	2000 01 04	704	0.5+	0.4+	2000 02 29	704	0.4+	0.4+
1977 10 11	675	2.0−	0.7+	2000 01 04	704	0.2+	0.2+	2000 02 29	704	0.2+	0.5+
1977 10 11	675	1.6+	0.9+	2000 01 04	704	0.0	0.2−	2000 02 29	704	0.5−	0.2+
1977 10 11	675	(3.0−	2.0+)	2000 01 06	704	0.9+	0.3+	2000 03 04	704	1.4+	0.5−
1977 10 11	675	2.2+	1.5+	2000 01 06	704	0.7+	0.2+	2000 03 04	704	0.2+	0.6+
1977 10 12	675	0.2+	0.3−	2000 01 06	704	0.1+	0.0	2000 03 04	704	0.3−	0.9+
1977 10 12	675	0.6−	0.0	2000 01 06	704	0.8−	0.3−	2000 03 04	704	0.8−	0.1+
1977 10 12	675	0.9+	0.9−	2000 01 06	704	0.0	0.3−	2000 03 04	704	0.4+	1.2+
1977 10 12	675	1.0−	0.0	2000 01 30	704	0.4−	0.4−	2000 03 04	704	0.3+	0.3+
1977 10 16	675	0.5−	0.5+	2000 01 30	704	0.2+	0.3−	2000 03 04	704	0.1−	0.2−
1977 10 16	675	1.1−	0.8+	2000 01 30	704	0.4−	0.6−	2000 03 04	704	0.1+	0.1−
1977 10 16	675	0.8−	1.2+	2000 01 30	704	0.3−	0.6−	2000 03 04	704	0.1+	0.1+

2000 MAR. 20

M.P.C. 39507

1977 10 16	675	0.1−	0.9+	2000 02 03	704	0.2+	0.1+	2000 03 05	704	0.1−	0.1+
1977 10 17	675	1.5−	0.9−	2000 02 03	704	0.4+	0.2−	2000 03 05	704	0.3+	0.2−
1977 10 17	675	1.1+	0.5−	2000 02 03	704	0.5+	0.9+	2000 03 05	704	0.5−	0.6−
1977 10 17	675	1.6−	0.2−	2000 02 03	704	0.3−	0.7+	2000 03 05	704	0.3−	0.0
1977 10 17	675	0.4+	0.1+	2000 02 03	704	0.4+	0.9+	2000 03 05	704	0.3−	0.4−
1977 10 21	675	0.5+	1.8−	2000 02 11	704	0.1+	0.3+	2000 03 08	704	0.0	0.4−
1977 10 21	675	0.9+	0.3+	2000 02 11	704	0.0	0.5+	2000 03 08	704	0.1+	0.5−
1977 10 21	675	(0.1−	3.7−)	2000 02 11	704	0.0	0.7+	2000 03 08	704	1.1−	1.4−
1977 10 21	675	0.5−	0.2−	2000 02 11	704	0.4−	0.6+	2000 03 09	704	0.1+	0.1−
1977 10 22	675	(0.5−	2.9−)	2000 02 28	704	0.8+	0.0	2000 03 09	704	0.2+	0.8−
1977 10 22	675	1.5+	1.1−	2000 02 28	704	0.4+	0.5−	2000 03 09	704	0.7−	0.1−
1977 10 22	675	(3.3+	3.1−)	2000 02 28	704	0.1+	0.1−	2000 03 09	704	1.1−	0.1−
1977 10 22	675	0.8+	0.7−	2000 02 28	704	0.0	0.2+	2000 03 09	704	0.2+	0.6−
2000 01 04	704	0.2−	0.4−	2000 02 29	704	0.3+	0.3−				
2000 01 04	704	0.9−	1.0−	2000 02 29	704	0.2+	0.5+				

3256 T-3 = 2000 EO₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	174.15706		(2000.0)	P	Q
<i>n</i>	0.19540579	ω	207.41662	+0.99978802	−0.00877242
<i>a</i>	2.9411089	Ω	153.06653	+0.01494988	+0.93135561
<i>e</i>	0.0728975	<i>i</i>	2.35681	−0.01415664	+0.36400518
<i>P</i>	5.04	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1977 10 07	675	0.6−	0.7−	1977 10 22	675	1.2+	1.5−	2000 03 08	704	0.1−	0.6−
1977 10 11	675	1.9−	0.2+	2000 02 08	704	0.3+	0.1+	2000 03 08	704	0.2+	0.1−
1977 10 11	675	2.0−	0.9+	2000 02 08	704	0.4+	1.1+	2000 03 11	704	0.2−	0.2−
1977 10 12	675	1.1+	1.2−	2000 02 08	704	0.9−	0.4+	2000 03 11	704	0.0	0.0
1977 10 12	675	0.9+	1.2−	2000 02 08	704	0.0	1.0+	2000 03 11	704	0.2−	0.0
1977 10 16	675	0.9+	1.9+	2000 02 08	704	0.0	0.1+	2000 03 11	704	0.2+	0.3−
1977 10 16	675	0.2+	1.0+	2000 02 27	703	0.6−	0.1+	2000 03 14	703	0.1−	0.1+
1977 10 17	675	0.5−	0.2−	2000 02 27	703	0.7+	0.4−	2000 03 14	703	0.5−	0.4+
1977 10 17	675	0.8+	0.6+	2000 02 27	703	(3.0−	0.6+)	2000 03 14	703	0.3−	0.0
1977 10 21	675	0.3−	0.3+	2000 02 27	703	1.1+	1.7−	2000 03 14	703	0.2+	0.2−
1977 10 21	675	1.2−	0.2+	2000 03 08	704	0.6+	0.5−				
1977 10 22	675	1.5+	0.7−	2000 03 08	704	0.8−	0.7+				

3447 T-3 = 2000 DH₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	198.74591		(2000.0)	P	Q
<i>n</i>	0.23763255	ω	140.80494	+0.70078065	+0.71334073
<i>a</i>	2.5814602	Ω	173.67287	−0.66978649	+0.66138845
<i>e</i>	0.0660221	<i>i</i>	3.73273	−0.24554538	+0.23175486
<i>P</i>	4.15	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1977 10 07	675	0.4−	0.5+	1993 07 16	010	0.2+	1.1+	2000 02 29	704	0.7+	0.0
1977 10 11	675	0.2−	1.2+	1996 02 15	566	0.4+	0.6−	2000 02 29	704	1.2+	0.1−
1977 10 11	675	0.9−	0.7−	1996 02 15	566	(1.2−	3.1−)	2000 02 29	704	1.3+	0.1+
1977 10 12	675	1.1+	1.8−	1996 02 15	566	0.6−	0.8−	2000 02 29	704	0.4+	0.0
1977 10 12	675	1.9+	1.8−	1998 11 11	699	(2.5−	0.9+)	2000 03 03	704	0.3−	0.4+
1977 10 16	675	0.2−	1.6−	1998 11 11	699	0.3−	1.0+	2000 03 03	704	0.2−	0.7+
1977 10 16	675	0.0	0.2+	1998 11 11	699	0.5−	0.1+	2000 03 03	704	0.3−	0.5+
1977 10 17	675	0.5−	0.7+	1998 11 18	704	0.1−	0.8−	2000 03 03	704	0.3−	0.5+
1977 10 17	675	0.7−	0.3+	1998 11 18	704	0.6+	0.1+	2000 03 03	704	0.2−	0.4+
1977 10 21	675	0.7+	1.2+	1998 11 18	704	0.5+	0.3−	2000 03 11	704	0.1+	0.6−
1977 10 21	675	0.5−	1.0+	1998 11 18	704	0.5−	1.1+	2000 03 11	704	0.5−	0.6−
1977 10 22	675	(2.4+	2.5−)	2000 02 02	704	1.0+	0.1+	2000 03 11	704	0.5−	0.8+
1977 10 22	675	(3.7+	1.0−)	2000 02 02	704	0.1−	0.6−	2000 03 11	704	0.9−	0.0
1993 07 15	010	0.6+	0.0	2000 02 02	704	0.1+	0.3+	2000 03 11	704	0.3+	0.4+
1993 07 16	010	1.0−	0.0	2000 02 02	704	1.5−	0.2−				

3491 T-3 = 2000 CW₈₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	19.90723		(2000.0)	P	Q
<i>n</i>	0.27883127	ω	103.27023	−0.63179613	−0.77496351
<i>a</i>	2.3204652	Ω	25.93436	+0.69597786	−0.57640112
<i>e</i>	0.1037087	<i>i</i>	2.13400	+0.34124548	−0.25921671
<i>P</i>	3.53	<i>H</i>	16.0	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1977 10 11	675	1.6+	0.1−	2000 02 04	704	0.4−	0.7−	2000 02 28	704	0.0	0.9+
1977 10 11	675	0.3+	0.2+	2000 02 04	704	0.3−	0.9−	2000 02 28	704	1.6+	0.1+
1977 10 12	675	0.8+	0.1+	2000 02 04	704	0.1−	0.6−	2000 03 05	704	0.9−	0.2+
1977 10 12	675	0.2+	1.2+	2000 02 11	704	1.1+	0.3+	2000 03 05	704	0.3−	0.4+
1977 10 16	675	0.3−	0.6−	2000 02 11	704	0.9+	0.2+	2000 03 05	704	0.1−	0.4−
1977 10 16	675	0.0	0.8−	2000 02 11	704	0.3+	0.2+	2000 03 05	704	0.5+	0.0
1977 10 17	675	0.9−	0.0	2000 02 11	704	0.1−	0.2+	2000 03 05	704	0.3+	0.1+
1977 10 17	675	1.5−	0.4−	2000 02 11	704	0.1−	0.0	2000 03 12	704	0.4+	0.7−
2000 02 02	703	0.0	0.3−	2000 02 25	703	0.2−	0.2−	2000 03 12	704	0.2+	0.4+
2000 02 02	703	1.0+	2.0+	2000 02 25	703	0.4−	0.3−	2000 03 12	704	1.3−	1.3−
2000 02 02	703	1.8−	0.7+	2000 02 25	703	0.2−	0.8−	2000 03 12	704	0.3−	0.1+
2000 02 02	703	0.1+	0.6−	2000 02 25	703	1.5−	0.5+	2000 03 12	704	0.1−	0.2−
2000 02 04	704	0.3+	0.0	2000 02 28	704	0.1+	0.2+				
2000 02 04	704	0.3+	0.1−	2000 02 28	704	0.9+	0.3+				

3508 T-3

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	340.18306		(2000.0)	P	Q
<i>n</i>	0.27229649	ω	268.37783	−0.40595272	−0.91296042
<i>a</i>	2.3574438	Ω	205.69661	+0.87179070	−0.37329613
<i>e</i>	0.0878661	<i>i</i>	5.46553	+0.27419584	−0.16478247
<i>P</i>	3.62	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1977 10 07	675	0.2+	1.2−	1998 06 24	704	(1.6−	2.5+)	1999 12 13	699	0.3−	1.3+
1977 10 07	675	(1.4+	3.0−)	1998 06 24	704	0.8+	0.3−	1999 12 13	699	0.5+	0.7+
1977 10 11	675	1.1+	0.9+	1999 10 30	703	0.2−	0.8+	1999 12 13	699	0.1−	1.7+
1977 10 11	675	0.9+	0.7−	1999 10 30	703	0.6−	0.3+	1999 12 14	704	0.1+	0.1+
1977 10 12	675	0.4+	0.0	1999 10 30	703	0.6−	0.7+	1999 12 14	704	0.3+	0.3−
1977 10 12	675	1.1+	1.1+	1999 10 30	703	0.3−	0.2+	1999 12 14	704	0.1+	0.1−
1977 10 16	675	0.6+	0.8−	1999 11 04	704	0.2−	0.1+	1999 12 14	704	0.8+	0.1−
1977 10 16	675	1.3+	1.8−	1999 11 04	704	0.0	0.1+	1999 12 14	704	1.1−	1.1−
1977 10 17	675	0.3−	0.6−	1999 11 04	704	0.1+	0.5−	1999 12 30	699	0.1+	0.2+
1977 10 17	675	1.7−	1.6−	1999 11 04	704	0.0	0.5+	1999 12 30	699	0.2−	0.0
1977 10 21	675	0.7−	1.8−	1999 11 04	704	0.5−	0.5+	1999 12 30	699	(2.1+	0.0)
1977 10 21	675	1.6−	1.0+	1999 11 15	704	0.6−	1.1−	2000 02 04	704	0.4+	0.8+
1977 10 22	675	0.7+	1.1−	1999 11 15	704	0.2−	0.4−	2000 02 04	704	0.1+	0.0
1977 10 22	675	(3.0+	0.3−)	1999 11 15	704	0.2−	0.3−	2000 02 04	704	0.7+	0.7+
1997 04 28	704	0.4−	1.3+	1999 11 15	704	0.0	0.4−	2000 03 05	704	0.7−	0.1−
1997 04 28	704	0.7−	0.5−	1999 11 15	704	0.0	0.2−	2000 03 05	704	0.0	0.2−
1997 04 28	704	1.6−	1.5−	1999 12 03	699	1.0+	0.2+	2000 03 05	704	0.5−	0.6−
1997 04 28	704	1.4−	1.5−	1999 12 03	699	0.8+	0.3−	2000 03 05	704	0.5+	0.5−
1997 04 29	704	0.5+	0.6−	1999 12 03	699	0.3+	0.9+	2000 03 09	704	0.1+	0.4−
1997 04 29	704	1.1+	1.5−	1999 12 06	704	0.1+	0.3−	2000 03 09	704	0.3+	0.3−
1997 04 29	704	0.5+	1.2−	1999 12 06	704	0.1+	0.1−	2000 03 09	704	0.8+	0.2−
1997 04 29	704	(1.1−	2.1+)	1999 12 06	704	0.1+	0.6−	2000 03 09	704	0.3+	0.2+
1998 06 24	704	(1.2−	3.0+)	1999 12 06	704	0.3−	0.3+				
1998 06 24	704	0.7−	0.5+	1999 12 06	704	0.7−	0.0				

Residuals in seconds of arc

1977 10 07	675	1.5+	0.3+	1977 10 21	675	1.1-	0.0	2000 03 10	704	0.5+	0.8-
1977 10 11	675	1.0-	0.8-	1977 10 21	675	0.5+	1.5+	2000 03 11	704	0.7+	0.3-
1977 10 11	675	1.1-	0.6+	2000 03 09	704	0.6-	0.4-	2000 03 11	704	0.2+	0.7+
1977 10 12	675	0.1-	1.2+	2000 03 09	704	0.7-	0.6-	2000 03 11	704	0.1-	0.8+
1977 10 12	675	0.7+	0.2+	2000 03 09	704	0.4-	0.4-	2000 03 11	704	0.1-	0.2+
1977 10 16	675	0.9+	1.1-	2000 03 10	704	0.2+	0.3+				
1977 10 16	675	0.4-	1.9-	2000 03 10	704	0.2+	0.4+				

4043 T-3 = 2000 CV₁₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	67.43593		(2000.0)	P	Q
<i>n</i>	0.27674366	ω	265.30054	+0.53634217	-0.84302458
<i>a</i>	2.3321202	Ω	152.14495	+0.80470262	+0.49627785
<i>e</i>	0.0744662	<i>i</i>	4.98231	+0.25454030	+0.20740744
<i>P</i>	3.56	<i>H</i>	15.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1977 10 11	675	0.8+	1.5-	1998 08 17	704	1.1+	0.6-	2000 02 03	704	0.6+	0.2+
1977 10 11	675	0.5-	1.4-	1998 08 17	704	0.7+	0.8+	2000 02 06	704	0.3-	0.0
1977 10 12	675	0.5-	0.1-	1998 08 17	704	0.2-	1.1+	2000 02 06	704	0.1+	0.0
1977 10 12	675	0.2-	0.2+	2000 02 02	704	1.0-	0.4-	2000 02 06	704	0.2+	0.2+
1977 10 16	675	0.5-	0.0	2000 02 02	704	0.4-	1.2-	2000 02 08	704	0.5-	0.8-
1977 10 16	675	1.4-	1.5+	2000 02 02	704	0.3+	0.4+	2000 02 08	704	1.4-	0.9+
1977 10 17	675	0.1+	0.1-	2000 02 02	704	0.5+	0.9-	2000 02 08	704	0.0	0.9+
1977 10 17	675	0.0	0.0	2000 02 02	704	0.3+	0.4-	2000 02 08	704	0.9-	0.5+
1977 10 21	675	1.3+	0.5+	2000 02 03	704	0.1+	0.6-	2000 02 11	704	0.4-	0.7+
1977 10 21	675	1.0+	0.9+	2000 02 03	704	0.3+	0.2-	2000 02 11	704	0.1-	0.1+
1998 08 17	704	0.9-	1.4-	2000 02 03	704	0.4+	0.1+	2000 02 11	704	1.3+	0.8+
1998 08 17	704	0.7-	0.4+	2000 02 03	704	0.4+	0.1+	2000 02 11	704	0.4+	0.3-

4215 T-3 = 2000 AA₁₃₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	175.62264		(2000.0)	P	Q
<i>n</i>	0.27946318	ω	216.02659	+0.62230554	+0.77682827
<i>a</i>	2.3169659	Ω	92.65869	-0.69374064	+0.60431757
<i>e</i>	0.1687955	<i>i</i>	5.53211	-0.36257377	+0.17702574
<i>P</i>	3.53	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1977 10 07	675	0.4+	0.3-	1977 10 17	675	0.0	1.1+	1998 09 16	699	0.2-	0.2-
1977 10 11	675	0.8-	0.3-	1977 10 17	675	0.5-	1.0-	2000 01 03	704	0.3+	0.1-
1977 10 11	675	0.1+	0.6-	1977 10 17	675	0.6-	0.9+	2000 01 03	704	0.2+	0.8+
1977 10 12	675	0.8-	0.1-	1977 10 21	675	1.4+	1.7-	2000 01 03	704	0.0	0.5+
1977 10 12	675	0.5-	0.1-	1977 10 21	675	1.2+	0.7+	2000 01 08	704	0.2-	0.7-
1977 10 16	675	2.2-	0.8+	1977 10 22	675	1.3+	0.1+	2000 01 08	704	0.3-	0.9-
1977 10 16	675	1.0+	0.7+	1977 10 22	675	0.7+	1.8-	2000 01 08	704	0.5-	0.1+
1977 10 16	675	1.4-	1.4+	1977 10 22	675	0.9-	0.4+	2000 01 31	704	0.0	0.0
1977 10 16	675	1.7+	0.1+	1998 09 16	699	0.4-	0.2+	2000 01 31	704	0.4-	0.1-
1977 10 17	675	0.0	0.4-	1998 09 16	699	0.7+	0.2-	2000 01 31	704	0.9+	0.4+

5038 T-3 = 2000 AY₉₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	221.09363		(2000.0)	P	Q
<i>n</i>	0.19282605	ω	161.09036	+0.30836479	+0.94026211
<i>a</i>	2.9672826	Ω	126.61532	-0.89430623	+0.33824396
<i>e</i>	0.0371833	<i>i</i>	10.35577	-0.32423376	-0.03870651
<i>P</i>	5.11	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1977 10 11	675	1.2+	0.6-	1998 12 15	704	(6.4-	2.6-)	2000 01 30	704	0.2-	0.9+
1977 10 11	675	1.4+	0.0	1998 12 17	699	0.4+	0.0	2000 01 30	704	0.7+	0.3+
1977 10 12	675	0.4-	0.7-	1998 12 17	699	0.1-	1.2+	2000 01 30	703	0.1+	0.1+
1977 10 12	675	0.2+	0.9-	1998 12 17	699	0.7+	0.0	2000 01 30	703	0.0	0.1-
1977 10 16	675	0.1-	0.7-	1999 01 10	699	1.2-	0.4+	2000 01 30	703	0.2-	0.0
1977 10 16	675	0.9-	0.7-	1999 01 10	699	0.8+	0.5+	2000 01 30	703	0.1+	0.3+
1977 10 17	675	0.6-	1.1-	1999 01 10	699	0.4+	1.2+	2000 02 03	704	0.5-	0.0
1977 10 17	675	0.1-	2.0-	1999 01 16	704	0.2-	0.6-	2000 02 03	704	0.4-	0.9+
1977 10 21	675	0.2-	0.8-	1999 01 16	704	0.0	1.3-	2000 02 03	704	0.4-	0.2-
1977 10 21	675	0.2+	0.6+	1999 01 16	704	0.0	1.0-	2000 02 03	704	0.9+	0.5-
1977 10 22	675	1.5+	0.7-	1999 01 16	704	0.3-	1.2-	2000 02 11	704	0.7+	0.4-
1977 10 22	675	0.8+	0.6-	1999 01 16	704	0.5-	0.2+	2000 02 11	704	0.1+	0.5-
1997 09 02	566	0.4-	1.1+	1999 12 04	703	1.1+	0.3-	2000 02 11	704	0.3+	0.5-
1997 09 02	566	0.2-	1.1+	1999 12 04	703	0.1-	0.0	2000 02 11	704	0.1+	0.6-
1997 09 02	566	0.2-	1.1+	1999 12 04	703	0.5-	0.2+	2000 02 11	704	0.2+	0.1-
1998 11 13	704	0.5+	1.0+	1999 12 04	703	0.8+	1.5+	2000 02 28	704	0.1-	0.2-
1998 11 13	704	1.7-	0.4-	2000 01 04	704	0.1+	0.4+	2000 02 28	704	0.4-	0.4+
1998 11 13	704	0.8+	0.9-	2000 01 04	704	1.4-	0.0	2000 02 28	704	0.2-	0.3+
1998 11 13	704	1.2-	0.4+	2000 01 04	704	0.6+	0.6-	2000 02 28	704	0.2-	0.5+
1998 11 13	704	(7.6-	0.5-)	2000 01 04	704	0.4-	1.1+	2000 02 28	704	0.4-	0.8+
1998 11 16	699	0.7-	1.5+	2000 01 07	704	0.6+	0.2-	2000 03 04	704	0.0	0.0
1998 11 16	699	0.3-	1.4+	2000 01 07	704	0.1+	0.2+	2000 03 04	704	0.1+	0.1-
1998 11 16	699	0.3-	1.4+	2000 01 07	704	0.0	0.1-	2000 03 04	704	0.0	0.1+
1998 12 15	704	0.4+	0.6-	2000 01 07	704	0.3+	1.8-	2000 03 04	704	0.0	0.4+
1998 12 15	704	0.0	0.2-	2000 01 07	704	0.4+	1.1-	2000 03 04	704	0.2+	0.3+
1998 12 15	704	(0.4+	2.8-)	2000 01 30	704	0.4-	1.2-				
1998 12 15	704	0.7-	0.7+	2000 01 30	704	1.2-	0.5-				

5089 T-3 = 2000 DS₁₀₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	213.68232		(2000.0)	P	Q
<i>n</i>	0.28396910	ω	192.18828	+0.67339851	+0.73089925
<i>a</i>	2.2923908	Ω	120.25893	-0.66702683	+0.66543631
<i>e</i>	0.1360477	<i>i</i>	7.38333	-0.31876270	+0.15159423
<i>P</i>	3.47	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1977 10 11	675	0.4+	0.1+	1977 10 22	675	1.1-	0.0	2000 02 29	704	0.6-	0.0
1977 10 11	675	2.1-	0.5+	1977 10 22	675	1.0-	0.5+	2000 03 05	704	0.2+	1.2-
1977 10 12	675	0.9-	0.1+	1998 11 13	704	(3.5+	0.4-)	2000 03 05	704	0.6-	0.4+
1977 10 12	675	0.4-	1.4-	1998 11 13	704	0.5-	0.7+	2000 03 05	704	0.7-	0.4-
1977 10 16	675	0.9+	1.1+	1998 11 13	704	0.5+	0.6-	2000 03 05	704	0.5-	0.5-
1977 10 16	675	1.2+	1.1-	1998 11 13	704	(3.3-	1.6-)	2000 03 05	704	0.1+	0.3-
1977 10 17	675	2.0+	1.1-	2000 02 29	704	1.5+	0.3-	2000 03 12	704	0.3+	1.3+
1977 10 17	675	1.7+	0.3-	2000 02 29	704	0.5-	0.0	2000 03 12	704	0.9+	0.0
1977 10 21	675	0.1-	1.3+	2000 02 29	704	0.5-	0.2-	2000 03 12	704	0.2+	1.0+
1977 10 21	675	0.6-	0.3+	2000 02 29	704	0.1+	0.1+				

5092 T-3 = 2000 BD

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	18.97644		(2000.0)	P	Q
<i>n</i>	0.19273721	ω	356.09960	-0.81119435	-0.57340829
<i>a</i>	2.9681943	Ω	148.02941	+0.54221534	-0.81102117
<i>e</i>	0.0842873	<i>i</i>	12.51604	+0.21901198	-0.11596374
<i>P</i>	5.11	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1977 10 11	675	0.1-	0.6+	1999 12 07	704	0.0	1.0-	2000 02 16	703	0.3-	0.1-
1977 10 11	675	1.1-	0.3-	1999 12 07	704	1.3+	0.6-	2000 02 16	703	0.6-	1.0+
1977 10 12	675	0.2-	0.2-	2000 01 08	704	0.6-	1.1-	2000 02 16	703	1.1+	0.1+
1977 10 12	675	0.7-	0.6-	2000 01 08	704	(2.2-	2.2-)	2000 02 16	703	0.1-	0.1-
1977 10 16	675	1.1+	0.6-	2000 01 08	704	0.2-	1.0-	2000 02 26	703	0.3+	0.4+
1977 10 16	675	0.3+	0.4-	2000 01 16	120	(3.1-	0.3-)	2000 02 26	703	0.4+	0.7+
1977 10 17	675	1.7+	1.2-	2000 01 16	120	1.8-	0.7+	2000 02 26	703	0.1-	0.7+

2000 MAR. 20

M.P.C. 39509

1977 10 17	675	1.7+	1.1−	2000 01 16	120	1.3−	0.7+	2000 02 26	703	0.1+	0.1+
1977 10 21	675	1.2−	1.3+	2000 01 17	120	1.4−	0.5−	2000 02 29	704	0.2+	1.8+
1977 10 21	675	1.4−	0.8+	2000 01 17	120	1.5−	0.1−	2000 02 29	704	0.2−	0.1+
1977 10 22	675	0.0	0.8+	2000 01 17	120	0.6−	0.2+	2000 02 29	704	0.2−	0.3+
1998 11 13	704	(1.9−	3.1+)	2000 01 17	120	0.9+	0.3−	2000 02 29	704	0.6−	0.2−
1998 11 13	704	0.2−	1.0+	2000 02 10	120	(2.4−	0.8−)	2000 02 29	704	0.6−	0.1+
1998 11 13	704	1.4+	1.0−	2000 02 10	120	0.2−	0.2−	2000 03 12	704	0.2+	0.0
1998 11 13	704	(5.8−	1.0+)	2000 02 11	120	1.7+	0.1−	2000 03 12	704	0.5+	0.1−
1998 12 17	699	0.5−	0.6+	2000 02 11	120	0.6+	0.5−	2000 03 12	704	0.2−	0.2−
1998 12 17	699	0.9−	0.2−	2000 02 11	704	0.0	0.2−	2000 03 12	704	0.1−	0.4−
1998 12 17	699	0.2−	0.9+	2000 02 11	704	0.8+	0.3−	2000 03 12	704	0.6−	0.6−
1999 12 07	704	1.5+	1.2−	2000 02 11	704	1.5+	0.2+				

5131 T-3 = 2000 EV₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	217.55062		(2000.0)	P	Q
<i>n</i>	0.28468441	ω	214.35878	+0.71164660	+0.69004384
<i>a</i>	2.2885492	Ω	101.42213	−0.61057821	+0.70036404
<i>e</i>	0.1332944	<i>i</i>	7.73370	−0.34749586	+0.18256427
<i>P</i>	3.46	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1977 10 11	675	0.8−	0.3+	1977 10 17	675	0.2−	0.0	2000 03 05	704	0.3−	0.6−
1977 10 11	675	0.7−	0.8+	1977 10 21	675	0.5−	1.1+	2000 03 05	704	0.2−	0.3−
1977 10 12	675	0.7+	0.8−	1977 10 21	675	1.2+	0.6+	2000 03 05	704	0.6−	0.3−
1977 10 12	675	0.0	1.0−	1977 10 22	675	0.1+	0.4−	2000 03 12	704	0.6+	0.7+
1977 10 16	675	0.4+	1.1−	1977 10 22	675	0.8−	0.3+	2000 03 12	704	0.4+	0.2+
1977 10 16	675	0.5+	0.1+	2000 03 05	704	0.5−	0.6−	2000 03 12	704	0.4+	0.5+
1977 10 17	675	0.1+	0.2+	2000 03 05	704	0.0	0.0	2000 03 12	704	0.2+	0.4+

5172 T-3 = 1990 CL = 2000 AA₇₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	204.20311		(2000.0)	P	Q
<i>n</i>	0.18676600	ω	136.78301	−0.19597126	+0.96937867
<i>a</i>	3.0311273	Ω	121.39786	−0.94029812	−0.14293768
<i>e</i>	0.0386120	<i>i</i>	9.98408	−0.27827094	−0.19968427
<i>P</i>	5.28	<i>H</i>	12.9	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1977 10 12	675	1.1+	2.0−	1999 01 20	910	0.9−	0.9−	2000 01 06	704	0.1+	0.4−
1977 10 12	675	(1.5+	2.8−)	1999 01 20	910	1.2−	1.3−	2000 01 06	704	0.1+	0.7−

1977 10 16	675	1.2+	0.7−	1999 01 20	910	2.0−	0.7−	2000 01 06	704	0.5+	1.4−
1977 10 16	675	0.3−	1.4−	1999 12 06	704	0.1+	0.2+	2000 01 25	704	0.2+	0.3+
1977 10 17	675	0.3−	1.4−	1999 12 06	704	0.4+	0.1−	2000 01 25	704	0.1+	0.3+
1977 10 17	675	0.2−	1.6−	1999 12 06	704	0.4−	0.6+	2000 01 25	704	0.3−	0.1+
1977 10 21	675	0.9+	1.5+	1999 12 06	704	0.0	0.3+	2000 02 02	704	0.6+	0.2+
1977 10 21	675	0.4−	0.8+	1999 12 14	704	0.2+	0.0	2000 02 02	704	0.5+	0.4+
1977 10 22	675	(3.0−	0.7+)	1999 12 14	704	1.2−	1.3−	2000 02 02	704	0.1+	0.4+
1977 10 22	675	0.1+	0.4−	1999 12 14	704	0.6−	0.3+	2000 02 02	704	0.0	0.1+
1990 02 01	372	0.9+	1.3−	1999 12 14	704	0.9−	1.0+	2000 02 02	704	0.2−	0.0
1990 02 01	372	1.6−	0.1−	2000 01 05	704	0.5−	0.0	2000 02 03	704	0.1+	0.4+
1998 09 21	699	0.5+	1.1+	2000 01 05	704	0.6+	0.4−	2000 02 03	704	0.6+	0.8+
1998 09 21	699	0.0	0.8+	2000 01 05	704	0.4−	0.0	2000 02 03	704	0.3+	0.5+
1998 09 21	699	0.7+	0.2+	2000 01 05	704	0.1−	0.1+	2000 02 03	704	0.4+	0.7+
1998 10 18	699	0.2+	1.3+	2000 01 05	704	0.4+	0.0	2000 02 03	704	0.3−	0.7+
1998 10 18	699	0.2−	1.2+	2000 01 06	704	0.1−	0.4+				
1998 10 18	699	0.8−	1.4+	2000 01 06	704	0.3+	0.4−				

5739 T-3 = 1998 UD₂₉ = 2000 DH₇

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	5.10009		(2000.0)	P	Q
<i>n</i>	0.23776718	ω	83.06247	−0.96173777	−0.23232968
<i>a</i>	2.5804857	Ω	83.42734	+0.15550690	−0.89925262
<i>e</i>	0.1143837	<i>i</i>	8.40456	+0.22556166	−0.37063142
<i>P</i>	4.15	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1977 10 16	675	0.9+	2.2−	1998 10 19	809	(2.4+	1.2+)	2000 02 29	411	0.8+	0.9−
1977 10 16	675	(1.4+	3.4−)	1998 11 15	120	1.2−	0.4−	2000 02 29	411	1.3+	1.5−
1977 10 17	675	0.8+	1.2−	1998 11 15	120	1.4−	0.4−	2000 03 01	411	0.3−	0.8−
1977 10 17	675	0.3−	1.7−	1998 11 15	120	1.1−	0.3−	2000 03 01	411	0.5−	0.5−
1977 10 21	675	0.5−	0.1+	1998 11 15	120	0.7−	0.5−	2000 03 05	704	0.1−	0.1−
1977 10 21	675	1.0−	1.7+	1998 12 11	699	0.9−	1.3−	2000 03 05	704	0.1+	0.3+
1977 10 22	675	(0.6+	2.6+)	1998 12 11	699	1.2−	0.7−	2000 03 05	704	0.2−	0.2+
1977 10 22	675	1.4+	0.3+	1998 12 11	699	1.0+	0.0	2000 03 08	411	0.7−	0.1−
1998 10 18	809	1.5+	1.1+	2000 02 04	704	1.4−	0.3−	2000 03 08	411	0.0	0.3+
1998 10 18	809	0.7+	1.5+	2000 02 04	704	0.4+	0.3−	2000 03 12	704	0.6+	0.1+
1998 10 18	809	0.0	0.9+	2000 02 04	704	0.8−	1.1+	2000 03 12	704	0.0	0.1+
1998 10 19	809	1.3+	0.9+	2000 02 04	704	0.2+	0.8+	2000 03 12	704	0.2−	0.2−
1998 10 19	809	1.4+	0.9+	2000 02 04	704	0.4+	1.2+	2000 03 12	704	0.4−	0.2−

Object	<i>H</i>	<i>G</i>	Epoch	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	<i>a</i>	Obs.	Opp. & Arc	rms Perts	<i>U</i>	Computer	<i>MPC</i>	Object
(288)	9.84	0.15	20000226	326.28974	83.45026	120.60001	4.32972	0.2096047	2.7559537	443	61 1890–1999	0.56	M-v 0	Goffin	25033	(288)
(559)	9.36	0.15	20000226	44.41804	129.25185	112.25528	9.31105	0.0665863	2.7109347	181	37 1905–1999	0.54	M-v 0	Goffin	22574	(559)
(2991)	13.5	0.15	20000226	301.78684	197.32767	96.74797	5.15056	0.2196318	2.3381041	48	8 1975–2000	0.80	M-v 1	Williams	34000	(2991)
(3090)	12.1	0.15	20000226	188.55558	181.34404	170.87372	9.59902	0.0838694	3.1699721	49	9 1951–2000	0.72	M-v 1	Williams	20128	(3090)
(3934)	13.1	0.15	20000226	326.15727	94.77223	157.73300	13.13079	0.1423318	2.5953984	60	7 1980–2000	0.58	M-v 1	Williams	35674	(3934)
(3991)	13.3	0.15	20000226	307.06687	355.34262	283.02297	3.87143	0.1741119	2.2504317	44	9 1976–2000	0.90	M-v 1	Williams	29074	(3991)
(4198)	12.8	0.15	20000226	14.28471	51.39622	108.51429	2.37286	0.1137020	3.1254234	64	10 1978–2000	0.73	M-v 1	Williams	15226	(4198)
(4642)	12.1	0.15	20000226	290.76726	130.65022	149.79921	1.00653	0.1568286	3.1729617	92	13 1916–2000	0.77	M-v 1	Williams	28281	(4642)
(4934)	12.1	0.15	20000226	213.15055	147.99257	187.99695	10.93159	0.1119687	3.0006913	47	7 1981–2000	0.78	M-v 1	Williams	18790	(4934)
(5085)	13.8	0.15	20000226	237.77569	354.01201	317.34291	4.85671	0.1793198	2.2561489	50	8 1977–2000	0.83	M-v 1	Williams	30250	(5085)
(5207)	13.7	0.15	20000226	257.24368	345.96848	319.35493	12.79409	0.1909586	2.5499670	42	6 1984–2000	0.83	M-v 1	Williams	35675	(5207)
(5449)	12.1	0.15	20000226	155.82598	62.90624	327.32986	9.46625	0.1068638	3.0283590	40	9 1981–2000	0.77	M-v 1	Williams	21557	(5449)
(5454)	12.6	0.15	20000226	125.93118	82.65702	337.08636	5.46898	0.1205172	3.1697611	75	9 1974–2000	0.74	M-v 1	Williams	31002	(5454)
(5604)	16.4	0.15	20000226	62.27416	82.30000	312.14486	4.79134	0.4054455	0.9270041	65	6 1985–2000	0.69	M-v 3	Williams	36059	(5604)
(5641)	12.7	0.15	20000226	334.88495	56.96920	151.41477	22.20071	0.1265405	1.8194948	114	7 1973–2000	0.73	M-v 2	Williams	22478	(5641)

(5756)	14.1	0.15	20000226	193.41271	142.69923	198.29157	7.56544	0.2278478	2.5811235	47	7	1960-2000	1.01	M-v	2	Williams	22681	(5756)
(5899)	14.0	0.15	20000226	179.41334	263.56043	125.44081	24.00471	0.1166500	1.9287955	31	5	1978-1994	0.82	M-v	2	Williams	23330	(5899)
(6172)	15.3	0.15	20000226	61.15427	193.37014	218.71468	15.81695	0.4319685	2.5771601	42	6	1953-2000	0.72	M-v	1	Williams	38748	(6172)
(6857)	13.6	0.15	20000226	316.26778	301.40072	307.65112	9.18669	0.1978782	2.3125547	59	9	1982-2000	0.75	M-v	1	Williams	38013	(6857)
(6893)	13.2	0.15	20000226	100.27409	104.80931	314.67756	5.78667	0.0904707	2.3859276	95	7	1983-2000	0.78	M-v	1	Williams	32737	(6893)
(7861)	14.6	0.15	20000226	258.48515	344.46538	309.28382	1.96014	0.1757753	2.4369021	65	8	1981-2000	0.69	M-v	1	Williams	30634	(7861)
(7951)	13.4	0.15	20000226	119.14577	326.55041	76.22495	0.37467	0.1692244	3.1446093	63	8	1964-2000	0.73	M-v	1	Williams	30747	(7951)
(8084)	13.2	0.15	20000226	16.12220	79.43462	72.44147	2.15018	0.2169179	3.0676355	110	7	1976-2000	0.71	M-v	1	Williams	33064	(8084)
(8136)	13.6	0.15	20000226	226.52776	122.80308	201.33259	3.81915	0.1306775	3.1554862	43	5	1979-2000	0.64	M-v	1	Williams	31072	(8136)
(8225)	12.4	0.15	20000226	225.41362	199.84404	136.91164	1.53945	0.2389379	2.9788163	65	7	1981-2000	0.66	M-v	1	Williams	31092	(8225)
(9314)	13.7	0.15	20000226	108.69961	269.23877	149.95942	5.34975	0.1894173	2.4655439	83	6	1988-2000	0.74	M-v	1	Williams	32609	(9314)
(9418)	16.1	0.15	20000226	143.24887	309.86172	65.48147	0.89399	0.2031382	2.1891947	59	5	1982-2000	0.65	M-v	1	Williams	32634	(9418)
(9527)	15.1	0.15	20000226	89.24459	164.04288	274.12836	1.06377	0.1190638	2.4262888	92	6	1977-2000	0.74	M-v	1	Williams	32870	(9527)
(9546)	15.1	0.15	20000226	149.55790	0.11491	12.12865	5.85492	0.1588076	2.2872270	122	6	1953-2000	0.67	M-v	1	Williams	32875	(9546)
(9595)	13.8	0.15	20000226	129.20912	123.38828	294.62718	4.64415	0.1720096	2.2726029	72	6	1953-2000	0.68	M-v	1	Williams	36061	(9595)
(9656)	14.1	0.15	20000226	49.69623	358.49052	133.80469	5.12769	0.1682773	2.3723769	66	5	1985-2000	0.83	M-v	2	Williams	32902	(9656)
(9672)	13.1	0.15	20000226	159.90029	350.11097	34.58756	3.72339	0.0552355	3.1845374	94	5	1985-2000	0.72	M-v	1	Williams	32906	(9672)
(9761)	14.2	0.15	20000226	156.18862	56.08947	336.52607	3.60128	0.1593304	2.2588735	76	5	1991-2000	0.68	M-v	2	Williams	33202	(9761)
(9770)	14.8	0.15	20000226	343.69613	67.78265	136.42447	3.94916	0.1470806	2.2827492	58	5	1993-2000	0.72	M-v	1	Williams	33204	(9770)
(9781)	13.8	0.15	20000226	212.41181	267.37562	37.52729	8.54820	0.1755275	2.4599885	76	5	1993-2000	0.73	M-v	1	Williams	33207	(9781)
(9978)	12.9	0.15	20000226	122.02487	128.51602	287.48062	9.35564	0.0945875	2.9924416	48	5	1989-2000	0.69	M-v	1	Williams	38749	(9978)
(10045)	12.8	0.15	20000226	300.54513	92.65886	174.07629	1.84154	0.1365484	3.1109306	88	6	1969-2000	0.66	M-v	1	Williams	33868	(10045)
(10120)	12.9	0.15	20000226	135.23365	323.30110	86.79605	10.48601	0.0646084	3.1791527	46	6	1982-2000	0.85	M-v	1	Williams	33886	(10120)
(10202)	14.1	0.15	20000226	75.95671	286.83809	202.03977	5.96382	0.0569790	2.3367379	52	5	1990-2000	0.54	M-v	1	Williams	33906	(10202)
(10206)	14.4	0.15	20000226	290.76407	324.73060	319.56766	1.33722	0.0712238	2.3594371	42	5	1989-2000	0.84	M-v	1	Williams	33907	(10206)
(10252)	12.8	0.15	20000226	232.69229	286.39829	33.55202	2.26850	0.0681327	2.8535276	52	6	1971-2000	0.76	M-v	1	Williams	33918	(10252)
(10492)	12.6	0.15	20000226	125.39670	262.97812	148.82493	10.66181	0.0614007	3.0297045	64	5	1986-2000	0.63	M-v	1	Williams	38750	(10492)
(11200)	12.1	0.15	20000226	324.52295	215.96089	51.04007	18.81695	0.2141607	2.7394204	72	5	1983-2000	0.69	M-v	1	Williams	35263	(11200)
(11289)	13.6	0.15	20000226	83.18798	347.12322	97.25636	2.83105	0.1459058	3.1027890	62	7	1976-2000	0.68	M-v	1	Williams	35563	(11289)
(11299)	13.9	0.15	20000226	309.38540	240.23536	29.67446	4.40976	0.0481994	2.7366374	47	5	1978-2000	0.72	M-v	1	Williams	35565	(11299)
(11332)	14.3	0.15	20000226	62.21259	267.96717	197.90959	2.86346	0.1181955	2.6238434	66	5	1981-2000	0.67	M-v	1	Williams	35573	(11332)
(11619)	13.2	0.15	20000226	277.66793	157.17052	124.47521	6.94010	0.1336328	2.5300813	38	5	1992-2000	0.74	M-v	1	Williams	35863	(11619)
A908 SA	14.0	0.15	20000226	295.38711	134.44987	176.21042	6.38646	0.4515677	2.5984731	31	6	1908-2000	0.92	M-v	2	Williams	35676	A908 SA
1937 UD	14.9	0.15	20000226	210.36322	314.27285	33.36421	8.96188	0.3339867	2.1685589	50	4	1937-2000	0.48	M-v	2	Williams	37616	1937 UD
1971 UQ	15.5	0.15	20000226	150.03942	311.45059	55.17910	3.57244	0.1714239	2.2557317	46	4	1971-2000	0.79	M-v	2	Williams	33064	1971 UQ
1971 UK ₁	15.2	0.15	20000226	89.48802	235.16653	206.33717	7.74042	0.2230619	2.4662398	57	5	1971-2000	0.72	M-v	2	Williams	35676	1971 UK ₁
1972 TE	13.7	0.15	20000226	138.72556	158.16489	218.73486	4.38520	0.2679886	2.6388499	68	8	1959-2000	0.66	M-v	2	Williams	34280	1972 TE
1973 SU ₁	11.0	0.15	20000226	322.86251	336.37951	141.75014	7.08475	0.0646206	5.2198034	76	3	1973-2000	0.75	M-v	3	Williams	38750	1973 SU ₁
1973 SX ₂	12.5	0.15	20000226	140.08693	186.69094	201.65858	14.67371	0.1144906	2.5676595	76	4	1973-2000	0.65	M-v	2	Williams	38017	1973 SX ₂
1974 PC	14.9	0.15	20000226	179.59243	212.33092	139.79481	23.43825	0.2920449	2.2548955	30	5	1974-2000	0.66	M-v	2	Williams	34001	1974 PC
1975 TE	14.2	0.15	20000226	105.48224	325.55627	24.40290	4.34171	0.2174407	2.2436496	74	3	1985-2000	0.67	M-v	2	Williams	38750	1975 TE
1975 VZ ₈	12.9	0.15	20000226	138.65350	71.25484	302.80893	11.66286	0.1743722	2.7561366	53	3	1975-2000	0.69	M-v	3	Williams	38750	1975 VZ ₈
1976 UN ₂	15.0	0.15	20000226	206.22654	96.66463	257.94303	1.90086	0.1357727	2.1331313	38	6	1976-2000	0.71	M-v	2	Williams	35676	1976 UN ₂
1976 UZ ₇	13.5	0.15	20000226	219.40769	134.30671	207.67975	10.48423	0.1095980	2.9968499	31	4	1976-2000	0.66	M-v	1	Williams	34280	1976 UZ ₇
1976 YN ₇	12.5	0.15	20000226	143.24539	273.04595	100.42166	13.53067	0.1878876	2.6957266	56	4	1976-2000	0.61	M-v	1	Williams	38750	1976 YN ₇
1977 DG ₃	14.1	0.15	20000226	324.85798	44.81085	145.39346	6.20223	0.0879255	2.4507492	109	4	1977-2000	0.55	M-v	2	Williams	38750	1977 DG ₃
1977 DQ ₃	13.5	0.15	20000226	102.77248	11.55241	62.24102	2.15150	0.1566525	3.1490545	33	6	1975-2000	0.62	M-v	1	Williams	34001	1977 DQ ₃
1977 EL ₅	12.7	0.15	20000226	299.84568	106.82909	178.51193	21.20142	0.1135764	3.1534116	36	5	1977-2000	0.84	M-v	1	Williams	35676	1977 EL ₅
1977 PC ₁	13.6	0.15	20000226	96.40951	83.57524	288.58467	5.97434	0.2316742	2.3272614	51	4	1977-2000	0.51	M-v	2	Williams	38750	1977 PC ₁
1977 QN ₁	12.7	0.15	20000226	150.63071	308.83168	343.59111	12.92240	0.1811631	2.6179910	56	3	1977-2000	0.65	M-v	3	Williams	38750	1977 QN ₁
1977 QO ₃	14.3	0.15	20000226	57.94195	91.58508	276.28998	1.12003	0.2364601	2.3599631	102	3	1977-2000	0.55	M-v	2	Williams	38750	1977 QO ₃
1977 RM	13.9	0.15	20000226	97.31708	282.89668	96.56496	23.52982	0.0768035	2.6039161	43	2	1977-2000	0.64	M-v	4	Williams	38429	1977 RM
1978 PV ₂	13.8	0.15	20000226	207.80544	4.74531	319.35746	5.37348	0.2683812	2.2066848	48	3	1978-2000	0.69	M-v	3	Williams	38750	1978 PV ₂

1978 PA ₃	15.1	0.15	20000226	188.61709	170.47219	169.10913	2.16213	0.1947529	2.2133759	88	4	1978–2000	0.75	M-v	2	Williams	33539	1978 PA ₃
1978 PC ₃	14.2	0.15	20000226	226.82008	2.47965	326.98734	6.29308	0.1701794	2.4482695	22	4	1978–2000	0.77	M-v	2	Williams	34280	1978 PC ₃
1978 PG ₄	14.4	0.15	20000226	158.23747	36.92400	303.05500	6.11980	0.2217791	2.2324303	97	3	1978–2000	0.59	M-v	2	Williams	38750	1978 PG ₄
1978 RX ₁	14.4	0.15	20000226	147.46229	220.70269	137.77144	3.96769	0.2067516	2.2370418	105	3	1988–2000	0.69	M-v	2	Williams	38750	1978 RX ₁
1978 RD ₂	14.2	0.15	20000226	51.88585	328.84419	34.48751	4.76530	0.2308755	2.5861753	107	3	1978–2000	0.54	M-v	2	Williams	38017	1978 RD ₂
1978 SD ₃	14.4	0.15	20000226	251.64082	319.14411	346.22351	4.51201	0.2116924	2.1921550	41	4	1978–2000	0.82	M-v	2	Williams	33539	1978 SD ₃
1978 SH ₃	14.6	0.15	20000226	154.21794	159.63802	213.81044	3.94139	0.1732711	2.2248842	84	4	1978–2000	0.78	M-v	3	Williams	38750	1978 SH ₃
1978 SJ ₇	13.4	0.15	20000226	129.99049	329.10884	1.39728	14.56441	0.1404484	2.9263057	73	4	1978–2000	0.66	M-v	3	Williams	38750	1978 SJ ₇
1978 UY ₄	15.9	0.15	20000226	116.25981	167.70061	222.12810	3.14592	0.2026673	2.2472748	26	5	1978–2000	0.66	M-v	1	Williams	32509	1978 UY ₄
1978 US ₅	13.6	0.15	20000226	249.95945	287.68564	18.15238	16.67480	0.2901442	2.7948240	29	6	1950–2000	0.74	M-v	1	Williams	31003	1978 US ₅
1978 UV ₇	13.7	0.15	20000226	237.21097	129.48310	199.98404	4.75850	0.1028891	2.8086368	48	6	1978–2000	0.78	M-v	1	Williams	35677	1978 UV ₇
1978 UX ₇	14.8	0.15	20000226	85.09085	190.38831	239.77972	1.74334	0.1434825	2.5215970	38	3	1978–2000	0.75	M-v	2	Williams	33738	1978 UX ₇
1978 VA	14.0	0.15	20000226	18.79359	43.62288	59.40443	25.00972	0.3373775	2.5928478	38	2	1978–2000	0.47	M-v	2	Williams	38750	1978 VA
1978 VV ₃	12.8	0.15	20000226	301.67294	80.95014	63.01881	12.26523	0.0935879	3.0390327	71	3	1978–2000	0.49	M-v	4	Williams	38750	1978 VV ₃
1978 VY ₃	14.7	0.15	20000226	120.66934	102.71900	269.25543	3.25485	0.1432718	2.5503770	80	7	1978–2000	0.69	M-v	2	Williams	38750	1978 VY ₃
1978 VY ₅	14.8	0.15	20000226	83.42952	10.63164	75.33000	2.16318	0.1589479	2.2570358	80	3	1978–2000	0.70	M-v	2	Williams	35677	1978 VY ₅
1978 VO ₆	14.2	0.15	20000226	196.77023	54.91359	272.67510	3.64784	0.1030104	2.2492001	45	4	1978–2000	0.60	M-v	3	Williams	38750	1978 VO ₆
1978 VS ₈	14.5	0.15	20000226	72.79521	276.90956	184.93275	1.87910	0.0502912	2.5289333	61	3	1978–2000	0.65	M-v	4	Williams	35677	1978 VS ₈
1978 VT ₉	15.5	0.15	20000226	200.03444	288.70561	55.52237	3.84734	0.1996456	2.2299012	31	6	1977–2000	0.73	M-v	1	Williams	38430	1978 VT ₉
1978 VW ₉	14.4	0.15	20000226	205.38193	281.26682	40.22566	2.83286	0.1621673	2.5176561	45	4	1978–2000	0.68	M-v	4	Williams	38750	1978 VW ₉
1978 VH ₁₀	14.6	0.15	20000226	129.75696	307.64400	85.32123	3.15597	0.0668736	2.9162496	29	4	1978–2000	0.62	M-v	3	Williams	33539	1978 VH ₁₀
1978 YM	13.9	0.15	20000226	167.95258	19.74763	0.85372	7.82712	0.1365019	2.2343084	57	5	1974–2000	0.77	M-v	1	Williams	34002	1978 YM
1979 MM ₁	13.1	0.15	20000226	151.13762	257.89302	129.24949	16.61690	0.1046932	3.1822147	38	3	1979–2000	0.68	M-v	3	Williams	38751	1979 MM ₁
1979 MV ₁	15.0	0.15	20000226	301.18245	135.82700	133.60364	6.74987	0.0801672	2.3359464	27	5	1979–2000	0.81	M-v	2	Williams	33539	1979 MV ₁
1979 MQ ₃	14.0	0.15	20000226	26.60465	273.72930	140.54408	10.20928	0.2188615	2.4618642	51	3	1979–2000	0.60	M-v	2	Williams	38751	1979 MQ ₃
1979 ML ₅	14.7	0.15	20000226	111.77697	210.31225	171.67068	5.17467	0.1322817	2.7573931	16	4	1975–2000	0.90	M-v	2	Williams	33065	1979 ML ₅
1979 MM ₆	14.6	0.15	20000226	338.14110	340.29166	233.50336	4.25363	0.1067707	3.1246390	31	6	1979–2000	0.79	M-v	2	Williams	33739	1979 MM ₆
1979 MC ₉	16.3	0.15	20000226	278.73028	77.18389	187.62296	2.18747	0.1813716	2.3530731	29	5	1979–2000	0.59	M-v	1	Williams	30685	1979 MC ₉
1979 OZ ₁₀	15.4	0.15	20000226	170.47626	29.75979	293.49009	17.18751	0.0660344	1.9558358	31	2	1979–2000	0.53	M-v	4	Williams	38430	1979 OZ ₁₀
1979 QX ₂	15.2	0.15	20000226	261.07827	315.68872	335.96633	2.90069	0.1976746	2.3607558	35	3	1979–2000	0.51	M-v	3	Williams	17955	1979 QX ₂
1980 BA	14.2	0.15	20000226	90.14626	333.00302	109.12864	6.85660	0.1676411	2.4731235	53	4	1980–2000	0.75	M-v	2	Williams	34002	1980 BA
1980 FQ ₁	13.6	0.15	20000226	88.65887	217.25907	183.81075	10.72039	0.1070534	2.9674612	60	3	1980–2000	0.56	M-v	3	Williams	38751	1980 FQ ₁
1980 PT ₁	13.0	0.15	20000226	292.88549	327.78366	303.05152	8.53193	0.0864390	3.0696797	24	3	1980–2000	0.65	M-v	5	Williams	35677	1980 PT ₁
1980 PC ₃	13.2	0.15	20000226	204.27754	277.21256	64.83017	15.78834	0.2507675	2.6196725	48	3	1980–2000	0.73	M-v	3	Williams	34002	1980 PC ₃
1980 XB	13.8	0.15	20000226	10.64378	40.96865	70.93873	23.88162	0.3732455	2.4337505	122	2	1980–2000	0.51	M-v	2	Williams	38751	1980 XB
1981 DN	15.6	0.15	20000226	351.81914	212.31235	306.49348	7.05332	0.2119555	2.4494941	59	3	1977–2000	0.71	M-v	2	Williams	38751	1981 DN
1981 EK ₁	14.4	0.15	20000226	37.90198	130.37519	352.04403	8.28744	0.1090311	2.4264706	74	3	1981–2000	0.56	M-v	2	Williams	38751	1981 EK ₁
1981 EU ₄	12.4	0.15	20000226	138.12364	30.71215	261.33748	9.01336	0.0746149	2.9846519	108	3	1981–2000	0.66	M-v	3	Williams	38751	1981 EU ₄
1981 EB ₈	14.9	0.15	20000226	51.91155	113.64139	319.78611	7.63958	0.1614070	2.4605729	78	3	1981–2000	0.72	M-v	2	Williams	38751	1981 EB ₈
1981 EP ₉	15.1	0.15	20000226	141.12232	153.29451	235.79300	5.13831	0.1221038	2.4304344	59	4	1981–2000	0.82	M-v	3	Williams	35677	1981 EP ₉
1981 EY ₁₀	14.9	0.15	20000226	165.57089	170.71892	210.08203	3.09308	0.1073250	2.4187429	71	7	1981–2000	0.71	M-v	1	Williams	33540	1981 EY ₁₀
1981 EB ₁₁	13.7	0.15	20000226	232.00942	33.46933	276.47352	2.64528	0.2005331	2.4454971	28	4	1978–2000	0.74	M-v	2	Williams	33540	1981 EB ₁₁
1981 ED ₁₁	15.7	0.15	20000226	279.90619	307.39219	323.88109	7.70780	0.1973423	2.4405386	19	3	1978–2000	0.79	M-v	3	Williams	22270	1981 ED ₁₁
1981 EJ ₁₁	13.9	0.15	20000226	230.12293	5.70389	294.57733	3.71783	0.1753037	2.4555457	37	3	1981–2000	0.85	M-v	3	Williams	38431	1981 EJ ₁₁
1981 EJ ₁₃	14.5	0.15	20000226	18.54391	147.28713	320.12099	7.94438	0.0984019	2.4717123	88	3	1981–2000	0.76	M-v	3	Williams	38751	1981 EJ ₁₃
1981 EC ₁₄	14.7	0.15	20000226	283.74933	285.54516	318.81874	4.03192	0.0799607	2.4484326	42	4	1979–2000	0.75	M-v	3	Williams	38751	1981 EC ₁₄
1981 ED ₁₅	14.9	0.15	20000226	119.78189	125.56057	288.76268	3.08834	0.0813389	2.4308651	36	5	1949–2000	0.81	M-v	2	Williams	33332	1981 ED ₁₅
1981 EK ₁₇	14.5	0.15	20000226	233.74782	75.93762	206.42230	5.67492	0.1236800	2.4638153	36	3	1981–2000	0.73	M-v	3	Williams	38751	1981 EK ₁₇
1981 ED ₁₈	13.7	0.15	20000226	311.64282	10.02976	193.88714	2.62935	0.0343936	2.8467727	77	3	1981–2000	0.72	M-v	4	Williams	38751	1981 ED ₁₈
1981 EG ₂₁	13.5	0.15	20000226	131.87585	247.85896	160.70794	5.98374	0.0898032	3.3918685	43	5	1981–2000	0.88	M-v	1	Williams	33739	1981 EG ₂₁
1981 EZ ₂₁	14.1	0.15	20000226	269.82776	53.91146	204.48088	1.53528	0.0430925	2.8376619	34	3	1981–2000	0.69	M-v	3	Williams	31003	1981 EZ ₂₁
1981 EC ₂₂	15.6	0.15	20000226	350.86123	352.09085	174.61180	1.62892	0.0303035	2.1644974	53	4	1981–2000	0.71	M-v	2	Williams	38751	1981 EC ₂₂
1981 EB ₂₃	14.0	0.15	20000226	179.81088	326.17883	24.92282	2.70377	0.2107542	2.4396090	61	6	1971–2000	0.89	M-v	2	Williams	38751	1981 EB ₂₃

1981 EU ₂₅	14.7	0.15	20000226	259.79089	124.32488	171.46994	4.95196	0.2174471	2.4378902	34	4	1978-2000	0.97	M-v	3	Williams	38751	1981 EU ₂₅
1981 EW ₂₅	15.3	0.15	20000226	7.11192	111.27879	357.86515	12.59230	0.2145708	2.4687256	44	2	1981-2000	0.72	M-v	3	Williams	38751	1981 EW ₂₅
1981 EC ₂₆	16.5	0.15	20000226	351.29535	185.20459	12.60041	1.25445	0.1392442	2.4242313	25	6	1977-2000	0.69	M-v	2	Williams	27118	1981 EC ₂₆
1981 EE ₂₆	15.7	0.15	20000226	343.80752	328.84924	190.27718	4.35218	0.1405225	2.4581980	38	2	1981-2000	0.63	M-v	4	Williams	38431	1981 EE ₂₆
1981 ES ₂₆	14.8	0.15	20000226	301.45903	2.80174	209.30272	2.46232	0.1004095	2.4583259	80	2	1981-2000	0.70	M-v	4	Williams	38431	1981 ES ₂₆
1981 EH ₂₈	14.8	0.15	20000226	44.49187	81.50733	26.22401	2.31848	0.0697481	2.4494997	77	3	1981-2000	0.76	M-v	3	Williams	38751	1981 EH ₂₈
1981 EH ₃₁	15.5	0.15	20000226	51.10951	251.71874	169.81167	8.61738	0.2051241	2.4715434	29	3	1979-2000	0.73	M-v	4	Williams	38751	1981 EH ₃₁
1981 EX ₃₁	13.3	0.15	20000226	158.98679	205.13188	176.92517	5.54530	0.1288468	2.8162571	24	2	1981-2000	0.61	M-v	4	Williams	37620	1981 EX ₃₁
1981 EB ₃₄	16.2	0.15	20000226	280.36658	49.64611	197.44307	4.12610	0.0310483	2.1608920	37	5	1981-2000	0.79	M-v	2	Williams	35678	1981 EB ₃₄
1981 ED ₃₄	15.1	0.15	20000226	107.53254	94.32219	305.73625	2.16894	0.1977220	2.4421364	68	5	1979-2000	0.70	M-v	2	Williams	35415	1981 ED ₃₄
1981 EB ₃₆	15.5	0.15	20000226	17.91006	108.86794	3.95163	2.12845	0.1623202	2.4580564	72	3	1977-2000	0.71	M-v	3	Williams	38751	1981 EB ₃₆
1981 EM ₃₇	15.2	0.15	20000226	105.69334	116.68530	262.59038	2.96369	0.1583896	2.1811657	42	4	1981-2000	0.74	M-v	2	Williams	38751	1981 EM ₃₇
1981 EE ₃₈	14.8	0.15	20000226	104.53198	109.69054	314.72068	2.13592	0.1209084	2.8172063	38	5	1978-2000	0.83	M-v	2	Williams	35678	1981 EE ₃₈
1981 ER ₄₀	15.8	0.15	20000226	346.52421	210.44410	312.46220	1.37553	0.1164201	2.4526301	47	4	1977-2000	0.73	M-v	2	Williams	38751	1981 ER ₄₀
1981 EP ₄₁	15.8	0.15	20000226	110.21523	62.48434	355.73442	2.46722	0.1713528	2.4248744	31	5	1981-2000	0.78	M-v	2	Williams	34482	1981 EP ₄₁
1981 EX ₄₂	15.9	0.15	20000226	44.07996	72.91686	359.35886	3.66383	0.1992690	2.4693804	27	2	1981-2000	0.47	M-v	4	Williams	38432	1981 EX ₄₂
1981 EQ ₄₇	15.1	0.15	20000226	121.08223	279.77137	127.19518	1.65077	0.1526127	2.4297398	72	5	1981-2000	0.76	M-v	2	Williams	34282	1981 EQ ₄₇
1981 ER ₄₇	14.1	0.15	20000226	63.56684	343.71536	36.18709	2.48106	0.1756303	2.5140544	76	6	1951-2000	0.67	M-v	3	Williams	38751	1981 ER ₄₇
1981 FP	15.6	0.15	20000226	325.76993	19.22237	181.55430	2.40788	0.1400352	2.4430496	52	3	1977-2000	0.69	M-v	4	Williams	38751	1981 FP
1981 QL ₂	14.9	0.15	20000226	131.98871	6.10589	358.66907	5.77257	0.1897228	2.2659268	76	4	1981-2000	0.73	M-v	2	Williams	38751	1981 QL ₂
1981 QW ₂	14.7	0.15	20000226	248.27581	271.50179	40.75857	3.72875	0.1769934	2.2111035	52	4	1981-2000	0.72	M-v	2	Williams	33540	1981 QW ₂
1981 QD ₄	12.9	0.15	20000226	241.13133	281.12786	328.79791	13.70704	0.0553179	2.5804865	38	4	1981-2000	0.56	M-v	2	Williams	38751	1981 QD ₄
1981 RX ₁	13.3	0.15	20000226	55.17260	104.64322	270.81187	12.14393	0.2081962	2.6801439	50	2	1981-2000	0.49	M-v	3	Williams	38751	1981 RX ₁
1981 RL ₂	13.5	0.15	20000226	70.65813	87.34199	290.10971	10.71445	0.2511062	2.6640235	68	3	1981-2000	0.49	M-v	2	Williams	38751	1981 RL ₂
1981 RR ₃	14.0	0.15	20000226	195.31222	181.36888	170.29682	5.89613	0.2099981	2.2348797	61	4	1981-2000	0.54	M-v	1	Williams	33540	1981 RR ₃
1981 RW ₄	13.9	0.15	20000226	119.32518	334.05412	43.31390	3.88236	0.2250164	2.6135898	71	3	1981-2000	0.63	M-v	3	Williams	38752	1981 RW ₄
1981 UA	15.3	0.15	20000226	61.09890	21.34451	17.61072	26.99941	0.3303117	2.3279515	21	4	1981-2000	0.64	M-v	2	Williams	38019	1981 UA
1981 UB ₂₃	13.5	0.15	20000226	42.28787	264.16703	129.72478	3.12075	0.1922217	2.7122204	70	4	1963-2000	0.58	M-v	3	Williams	38752	1981 UB ₂₃
1981 UC ₂₃	13.7	0.15	20000226	348.59432	304.89753	203.09472	8.77532	0.0337221	3.1692059	51	3	1981-2000	0.68	M-v	4	Williams	38752	1981 UC ₂₃
1981 UU ₂₉	15.7	0.15	20000226	176.95914	109.51128	244.57303	1.29297	0.1926382	2.2529865	62	4	1981-2000	0.73	M-v	2	Williams	34003	1981 UU ₂₉
1981 WJ ₉	14.7	0.15	20000226	88.23838	254.40201	192.01306	5.26396	0.1823145	2.6168515	47	4	1981-2000	0.61	M-v	2	Williams	35678	1981 WJ ₉
1982 FJ ₃	14.6	0.15	20000226	339.45118	226.24517	1.78492	1.74820	0.1807454	2.3334531	37	3	1982-2000	0.62	M-v	3	Williams	34003	1982 FJ ₃
1982 QP	13.5	0.15	20000226	190.86529	18.58754	301.67946	11.50069	0.1972767	2.4780138	30	3	1982-2000	0.69	M-v	3	Williams	38752	1982 QP
1982 RK ₁	13.5	0.15	20000226	228.31469	357.42711	297.75717	4.23126	0.1063055	2.4714293	52	4	1982-2000	0.61	M-v	3	Williams	38752	1982 RK ₁
1982 ST ₇	14.4	0.15	20000226	65.43662	57.19427	332.41827	3.99897	0.2901236	2.5695546	73	4	1982-2000	0.52	M-v	2	Williams	38752	1982 ST ₇
1982 UD ₄	14.6	0.15	20000226	104.11361	2.03886	4.93263	1.99395	0.2355422	2.5400333	58	6	1978-2000	0.76	M-v	3	Williams	38752	1982 UD ₄
1982 US ₆	13.2	0.15	20000226	129.93363	323.18430	46.71679	8.06645	0.1573966	2.5351790	130	7	1982-2000	0.67	M-v	2	Williams	38752	1982 US ₆
1982 UC ₁₁	14.6	0.15	20000226	136.83891	133.19047	243.93334	3.41950	0.2084432	2.5200415	76	7	1982-2000	0.72	M-v	2	Williams	34574	1982 UC ₁₁
1982 UE ₁₂	13.6	0.15	20000226	93.88790	84.95284	328.66591	9.79309	0.0210107	2.5170511	153	8	1982-2000	0.67	M-v	2	Williams	38752	1982 UE ₁₂
1982 VB ₄	14.1	0.15	20000226	34.89754	77.47146	57.57161	3.88220	0.1415042	2.5351810	47	5	1978-2000	0.60	M-v	3	Williams	34282	1982 VB ₄
1982 VL ₄	13.6	0.15	20000226	161.24584	317.21150	62.80045	13.98345	0.1486304	2.9718273	22	3	1982-2000	0.67	M-v	3	Williams	35678	1982 VL ₄
1983 GU	11.9	0.15	20000226	289.99629	176.56067	115.97555	14.43600	0.1780048	2.5992263	57	5	1983-2000	0.63	M-v	2	Williams	38752	1983 GU
1983 RQ ₃	13.8	0.15	20000226	197.41612	7.72984	329.60526	4.65093	0.2423352	2.3595699	60	5	1954-2000	0.56	M-v	1	Williams	35678	1983 RQ ₃
1983 RV ₃	13.5	0.15	20000226	247.77080	144.17571	175.83638	5.41143	0.1684910	2.7301914	54	5	1983-2000	0.82	M-v	2	Williams	34003	1983 RV ₃
1983 XE	14.2	0.15	20000226	16.55612	192.49226	237.55833	6.24455	0.1809052	2.5239265	121	6	1951-2000	0.67	M-v	2	Williams	38752	1983 XE
1984 SA	14.0	0.15	20000226	189.41687	77.66963	254.35240	5.87210	0.2220059	2.2846675	71	4	1984-2000	0.62	M-v	3	Williams	38752	1984 SA
1984 SL	12.4	0.15	20000226	136.66754	228.18431	157.37295	9.73194	0.3037763	2.7341987	71	5	1984-2000	0.79	M-v	2	Williams	38752	1984 SL
1984 SM ₅	13.3	0.15	20000226	245.94762	144.36524	156.36004	6.78597	0.1373872	2.2442669	81	3	1984-2000	0.63	M-v	2	Williams	38752	1984 SM ₅
1984 UR	13.4	0.15	20000226	131.07277	306.81352	48.62713	7.23963	0.1834432	2.3331746	49	5	1984-2000	0.83	M-v	2	Williams	38752	1984 UR
1984 WJ ₁	13.1	0.15	20000226	146.24371	351.41716	34.58839	10.75740	0.2045742	2.3202076	74	4	1984-2000	0.76	M-v	2	Williams	38019	1984 WJ ₁
1985 CL ₂	14.5	0.15	20000226	334.51086	18.59592	163.31987	1.61463	0.1241598	2.4167706	119	4	1985-2000	0.69	M-v	2	Williams	38752	1985 CL ₂
1985 CP ₂	15.0	0.15	20000226	81.21717	144.12812	295.79111	1.79293	0.1344017	2.3899638	70	4	1985-2000	0.77	M-v	1	Williams	33066	1985 CP ₂
1985 PF	13.5	0.15	20000226	156.58096	205.83352	155.39562	16.56922	0.2314366	2.5848476	32	2	1985-2000	0.72	M-v	5	Williams	38432	1985 PF

1985 PG	13.7	0.15	20000226	222.31126	120.99237	167.20224	7.73336	0.1788919	2.5620525	42	3	1985-2000	0.63	M-v	3	Williams	38752	1985 PG
1985 PO	13.8	0.15	20000226	196.19966	201.21946	145.55528	3.41589	0.1429086	2.5430068	72	10	1949-2000	1.01	M-v	1	Williams	33541	1985 PO
1985 QP	15.0	0.15	20000226	167.78059	0.61066	357.86050	3.14625	0.1769633	2.1860670	109	5	1971-2000	0.75	M-v	2	Williams	38752	1985 QP
1985 QG ₅	12.7	0.15	20000226	209.66321	281.80810	66.70188	1.66499	0.1599064	3.1609756	40	4	1985-2000	0.77	M-v	1	Williams	35679	1985 QG ₅
1985 QD ₆	14.9	0.15	20000226	194.09634	225.38486	121.87258	5.17756	0.2950744	2.5538860	27	5	1985-2000	0.99	M-v	2	Williams	33740	1985 QD ₆
1985 RA	13.1	0.15	20000226	53.00356	110.10597	276.25653	7.72577	0.1752833	2.7334554	63	3	1985-2000	0.57	M-v	3	Williams	38752	1985 RA
1985 RM ₃	15.0	0.15	20000226	102.23206	241.04203	157.44920	3.77705	0.1689417	2.2142516	59	3	1985-2000	0.62	M-v	3	Williams	38752	1985 RM ₃
1985 RN ₃	14.6	0.15	20000226	185.47698	342.12261	353.67890	4.63081	0.1587564	2.1798214	76	3	1985-2000	0.62	M-v	3	Williams	38752	1985 RN ₃
1985 RL ₄	14.7	0.15	20000226	208.12094	299.19098	35.15290	3.39445	0.1568292	2.1671217	74	4	1982-2000	0.76	M-v	2	Williams	35679	1985 RL ₄
1985 SG ₃	12.2	0.15	20000226	232.64599	94.04664	227.50133	12.24698	0.2486554	3.1735710	38	5	1985-2000	0.49	M-v	1	Williams	34004	1985 SG ₃
1985 TS	14.2	0.15	20000226	61.66370	359.31327	5.39414	3.78784	0.1247581	2.2939791	109	5	1978-2000	0.57	M-v	2	Williams	38019	1985 TS
1985 UO ₃	12.8	0.15	20000226	164.29867	331.38714	31.81769	22.65481	0.0443791	2.6131559	44	5	1985-2000	0.72	M-v	2	Williams	38752	1985 UO ₃
1985 UQ ₄	13.1	0.15	20000226	173.79799	259.32513	124.99816	2.70394	0.1270365	3.2559659	51	6	1985-2000	0.79	M-v	1	Williams	34004	1985 UQ ₄
1985 VA ₁	12.4	0.15	20000226	275.02825	189.18173	88.09083	18.90888	0.0814460	3.1483482	34	4	1985-2000	0.67	M-v	1	Williams	38752	1985 VA ₁
1986 QM	14.4	0.15	20000226	251.40927	359.78542	298.43954	1.99858	0.1662369	2.3939776	63	4	1986-2000	0.69	M-v	2	Williams	35278	1986 QM
1986 QU	13.5	0.15	20000226	171.23138	322.22189	15.70625	3.53814	0.1543728	3.0948080	59	4	1986-2000	0.62	M-v	1	Williams	33541	1986 QU
1986 QH ₁	12.9	0.15	20000226	126.28712	14.94969	341.78278	15.26597	0.1112282	3.1619372	53	2	1986-2000	0.40	M-v	4	Williams	38433	1986 QH ₁
1986 QR ₁	13.8	0.15	20000226	246.83027	289.27442	351.76959	4.34814	0.0951537	2.4276963	74	4	1986-2000	0.62	M-v	3	Williams	38752	1986 QR ₁
1986 RF ₃	14.5	0.15	20000226	235.69757	142.72733	182.47939	2.44513	0.1988562	2.4098575	38	4	1986-2000	0.72	M-v	2	Williams	33740	1986 RF ₃
1986 RP ₅	13.1	0.15	20000226	110.01049	13.20504	15.17905	14.32300	0.2342851	3.1847941	49	4	1986-2000	0.68	M-v	2	Williams	33541	1986 RP ₅
1986 TG ₁	13.2	0.15	20000226	115.45865	357.35465	359.09387	14.94008	0.1264220	2.5642034	69	5	1986-2000	0.59	M-v	2	Williams	38752	1986 TG ₁
1986 TV ₆	13.6	0.15	20000226	154.85459	355.93879	325.85423	7.44332	0.1903732	2.5568377	125	4	1986-2000	0.61	M-v	2	Williams	38752	1986 TV ₆
1987 CH	14.2	0.15	20000226	9.29380	351.74412	147.31641	5.43008	0.0747820	2.2031045	119	3	1987-2000	0.59	M-v	2	Williams	38752	1987 CH
1987 DN ₆	14.6	0.15	20000226	55.74701	179.91029	287.80085	2.41048	0.1680541	2.6282578	105	5	1987-2000	0.77	M-v	1	Williams	34283	1987 DN ₆
1987 QH	14.2	0.15	20000226	157.77294	6.62341	318.59003	8.25068	0.2887583	2.3643995	76	3	1987-2000	0.72	M-v	2	Williams	38753	1987 QH
1987 QT	14.6	0.15	20000226	121.58834	45.80390	334.40620	8.34260	0.2198643	2.3810379	87	4	1987-2000	0.78	M-v	2	Williams	38753	1987 QT
1987 QX ₇	13.2	0.15	20000226	221.30658	153.97639	151.90023	5.71977	0.2395301	2.8494294	50	3	1987-2000	0.59	M-v	4	Williams	38433	1987 QX ₇
1987 RL ₁	15.3	0.15	20000226	215.66565	189.26633	131.11545	1.27315	0.2359523	2.3117435	62	3	1987-2000	0.61	M-v	5	Williams	30469	1987 RL ₁
1987 SP ₁	14.3	0.15	20000226	217.53985	355.40392	352.41729	5.30020	0.1786400	2.2943032	19	6	1955-2000	0.84	M-v	2	Williams	33541	1987 SP ₁
1987 SL ₅	14.5	0.15	20000226	94.17855	210.82587	225.56120	4.47855	0.2024945	2.3782069	56	5	1987-2000	0.59	M-v	2	Williams	35679	1987 SL ₅
1987 SD ₁₃	14.8	0.15	20000226	124.84077	333.66652	65.19857	1.92681	0.1933055	2.3636608	92	3	1987-2000	0.80	M-v	3	Williams	33542	1987 SD ₁₃
1987 UR	13.2	0.15	20000226	118.08498	19.69249	23.89980	6.00361	0.2670500	3.0165092	49	4	1961-2000	0.62	M-v	1	Williams	34004	1987 UR
1987 UX	14.6	0.15	20000226	144.39490	159.90516	205.35064	24.44653	0.2441252	2.3850003	71	3	1987-2000	0.77	M-v	2	Williams	35679	1987 UX
1987 UA ₁	13.6	0.15	20000226	169.73527	122.69581	235.90571	11.37527	0.1406385	2.3618847	90	3	1987-2000	0.78	M-v	3	Williams	38020	1987 UA ₁
1988 BY ₃	14.0	0.15	20000226	31.81002	297.90910	164.22008	6.98951	0.1095502	2.5156354	110	7	1978-2000	0.64	M-v	2	Williams	38753	1988 BY ₃
1988 BG ₅	14.0	0.15	20000226	172.82289	35.86849	240.70742	12.56924	0.1465945	2.6662807	58	3	1988-2000	0.65	M-v	3	Williams	38020	1988 BG ₅
1988 BH ₅	13.5	0.15	20000226	313.03443	268.51361	264.91442	11.61930	0.1162029	2.5795361	68	7	1984-2000	0.69	M-v	2	Williams	38753	1988 BH ₅
1988 BL ₅	14.1	0.15	20000226	79.68801	145.60499	282.93232	11.83711	0.1196518	2.5211883	40	5	1984-2000	0.67	M-v	3	Williams	38753	1988 BL ₅
1988 CY	12.6	0.15	20000226	341.10368	82.45595	144.12281	15.25442	0.1107752	3.1861549	28	4	1984-2000	0.75	M-v	1	Williams	38753	1988 CY
1988 CU ₁	14.8	0.15	20000226	14.78236	198.63392	339.45699	1.65236	0.1202920	2.4400429	36	6	1988-2000	0.88	M-v	2	Williams	33542	1988 CU ₁
1988 CV ₄	13.0	0.15	20000226	232.06882	146.09553	182.20054	18.25255	0.1727735	3.1746954	52	5	1988-2000	0.72	M-v	1	Williams	34283	1988 CV ₄
1988 DE	13.1	0.15	20000226	311.34385	174.30954	352.91557	13.27876	0.0968987	2.5806455	90	4	1988-2000	0.66	M-v	2	Williams	38753	1988 DE
1988 MH	12.4	0.15	20000226	230.36652	36.29740	292.76796	13.02609	0.1933709	2.5950007	73	5	1988-2000	0.69	M-v	1	Williams	38753	1988 MH
1988 PU	12.6	0.15	20000226	254.71331	20.91059	251.54167	11.62401	0.1389797	2.7005209	55	3	1988-2000	0.68	M-v	3	Williams	38753	1988 PU
1988 PL ₂	15.0	0.15	20000226	147.32562	7.32935	339.03196	7.23801	0.2212605	2.2468111	72	3	1988-2000	0.75	M-v	3	Williams	38753	1988 PL ₂
1988 RY ₁	16.1	0.15	20000226	180.08385	215.98822	140.64527	3.43626	0.1922225	2.2000736	29	4	1988-2000	0.82	M-v	2	Williams	35680	1988 RY ₁
1988 RM ₂	14.2	0.15	20000226	112.09286	98.60479	278.67352	5.11416	0.1873025	2.2690177	61	4	1988-2000	0.59	M-v	2	Williams	38433	1988 RM ₂
1988 RZ ₂	14.2	0.15	20000226	292.56974	263.96276	12.69850	4.97671	0.2337115	2.6757567	45	8	1978-2000	0.59	M-v	1	Williams	35059	1988 RZ ₂
1988 RA ₁₃	14.6	0.15	20000226	266.99060	84.68786	194.70818	4.45753	0.1476733	2.1678512	44	3	1988-2000	0.58	M-v	3	Williams	38753	1988 RA ₁₃
1988 SB ₂	13.9	0.15	20000226	123.08635	248.78941	111.60402	6.70941	0.1333589	2.2628751	79	3	1988-2000	0.59	M-v	2	Williams	38753	1988 SB ₂
1988 SS ₂	15.3	0.15	20000226	158.48703	207.18666	151.88002	2.06971	0.1392397	2.2269780	77	4	1988-2000	0.68	M-v	2	Williams	36064	1988 SS ₂
1988 TK	13.3	0.15	20000226	224.59248	308.24312	2.85394	9.57258	0.2006522	2.7516356	38	6	1988-2000	0.67	M-v	1	Williams	38753	1988 TK
1988 TU	14.1	0.15	20000226	44.64918	180.25539	224.20514	2.96831	0.2214983	2.3441998	66	3	1981-2000	0.68	M-v	2	Williams	38753	1988 TU

1988 TN ₁	13.3	0.15	20000226	219.17950	342.38210	21.07285	13.51005	0.1694378	2.6972527	29	6	1979-2000	0.84	M-v	2	Williams	35680	1988 TN ₁
1988 TV ₁	15.2	0.15	20000226	45.39070	167.70522	231.88905	2.42874	0.2415551	2.3477464	70	2	1988-2000	0.74	M-v	4	Williams	38753	1988 TV ₁
1988 TR ₂	13.0	0.15	20000226	27.40847	38.30028	26.47717	15.61064	0.2702064	3.0440209	78	3	1988-2000	0.73	M-v	2	Williams	38753	1988 TR ₂
1988 UV	14.8	0.15	20000226	98.20977	206.70504	212.67036	7.46385	0.0969899	2.2508823	79	5	1978-2000	0.74	M-v	1	Williams	33542	1988 UV
1988 VJ ₁	13.9	0.15	20000226	152.87617	118.68294	235.30185	5.09986	0.2183994	2.2613580	68	3	1988-2000	0.78	M-v	2	Williams	38753	1988 VJ ₁
1988 VN ₇	15.2	0.15	20000226	101.93217	327.46427	62.31695	8.18520	0.1700788	2.2956345	30	4	1981-2000	0.52	M-v	3	Williams	38753	1988 VN ₇
1988 XV ₁	12.3	0.15	20000226	56.47753	301.20640	73.14596	19.35021	0.2385736	3.1097737	64	2	1988-2000	0.64	M-v	3	Williams	38753	1988 XV ₁
1988 XX ₂	14.9	0.15	20000226	84.29211	7.53354	73.74557	2.22107	0.1750727	2.2902224	60	5	1988-2000	0.77	M-v	1	Williams	33067	1988 XX ₂
1989 AA	14.7	0.15	20000226	13.97986	249.41425	264.65654	18.11991	0.0831365	1.9313645	24	3	1989-2000	0.97	M-v	3	Williams	38753	1989 AA
1989 AD ₇	12.7	0.15	20000226	127.50355	263.48055	140.36099	10.96391	0.1192558	3.0026730	42	3	1988-2000	0.70	M-v	3	Williams	38021	1989 AD ₇
1989 BH	13.5	0.15	20000226	0.82525	47.79579	109.32368	10.03103	0.1722544	2.3608592	85	3	1989-2000	0.61	M-v	2	Williams	38753	1989 BH
1989 CC ₃	13.2	0.15	20000226	95.47483	88.96047	287.02322	14.28896	0.2517257	3.1293130	54	3	1989-2000	0.64	M-v	3	Williams	38434	1989 CC ₃
1989 CF ₃	15.0	0.15	20000226	340.33809	312.32695	243.15334	6.50097	0.0460401	2.3376194	36	3	1989-2000	0.72	M-v	4	Williams	35680	1989 CF ₃
1989 DB	13.8	0.15	20000226	341.98096	150.79343	35.40482	3.33378	0.1738875	2.3730914	113	4	1978-2000	0.76	M-v	2	Williams	38753	1989 DB
1989 EB ₁	12.4	0.15	20000226	358.16755	161.81717	330.17722	17.04258	0.0946134	3.1389818	35	2	1989-2000	0.87	M-v	4	Williams	38754	1989 EB ₁
1989 GB	13.6	0.15	20000226	328.29099	171.85114	40.90081	13.63212	0.0660412	2.3911621	40	3	1989-2000	0.89	M-v	3	Williams	38021	1989 GB
1989 GM ₁	13.5	0.15	20000226	78.71349	130.32209	219.54410	11.78422	0.2087124	2.6094870	75	3	1989-2000	0.66	M-v	1	Williams	38754	1989 GM ₁
1989 GH ₃	14.3	0.15	20000226	9.80482	301.65538	216.78120	7.75051	0.1268072	2.3915501	54	3	1989-2000	0.76	M-v	3	Williams	38021	1989 GH ₃
1989 GN ₃	12.7	0.15	20000226	6.96998	306.34486	186.86244	12.13710	0.1860973	3.1941337	69	3	1989-2000	0.67	M-v	2	Williams	38754	1989 GN ₃
1989 LH	14.2	0.15	20000226	331.36069	13.06138	225.46528	10.03902	0.2186875	2.3975308	32	4	1989-2000	0.85	M-v	3	Williams	38754	1989 LH
1989 OJ	14.5	0.15	20000226	192.32831	287.28926	34.72774	16.35015	0.2115078	2.5749254	36	3	1989-2000	0.86	M-v	3	Williams	35681	1989 OJ
1989 RB	14.1	0.15	20000226	206.42088	324.19133	1.10763	19.71994	0.3237252	2.5626120	42	5	1985-2000	0.89	M-v	2	Williams	33741	1989 RB
1989 RX	12.8	0.15	20000226	113.33823	131.54919	237.14652	7.16960	0.2002084	2.6892530	90	3	1989-2000	0.65	M-v	2	Williams	38754	1989 RX
1989 SA	13.3	0.15	20000226	171.37426	298.98736	78.27353	13.92400	0.1876627	2.5892862	35	4	1976-2000	0.64	M-v	2	Williams	34575	1989 SA
1989 SD	14.5	0.15	20000226	103.00754	343.41886	30.22780	2.35923	0.1490731	2.1517604	71	4	1989-2000	0.57	M-v	2	Williams	38754	1989 SD
1989 SU	13.6	0.15	20000226	239.28581	31.75731	292.28719	4.10569	0.2366800	2.5326700	34	5	1989-2000	0.91	M-v	2	Williams	33741	1989 SU
1989 SS ₁	15.6	0.15	20000226	234.50595	256.85864	61.62463	3.72365	0.2683748	2.5465386	34	5	1981-2000	0.92	M-v	3	Williams	30894	1989 SS ₁
1989 SZ ₂	14.6	0.15	20000226	180.05028	191.16865	179.94376	10.87920	0.1809558	2.5953688	40	4	1989-2000	0.79	M-v	2	Williams	30686	1989 SZ ₂
1989 SZ ₄	14.5	0.15	20000226	28.28063	22.83595	55.25593	3.70834	0.0706553	2.1827186	51	3	1989-2000	0.57	M-v	2	Williams	38754	1989 SZ ₄
1989 SW ₈	13.4	0.15	20000226	130.34390	189.41999	183.14846	13.40817	0.1904912	2.6742624	83	5	1989-2000	0.66	M-v	2	Williams	38754	1989 SW ₈
1989 SK ₁₀	15.0	0.15	20000226	151.26586	111.94460	266.69205	0.61308	0.1754347	2.6149891	36	4	1989-2000	0.69	M-v	2	Williams	35280	1989 SK ₁₀
1989 TZ	13.3	0.15	20000226	196.40482	91.05202	231.04684	12.86290	0.2203344	2.5915363	28	3	1989-2000	0.72	M-v	3	Williams	38021	1989 TZ
1989 TN ₁	14.4	0.15	20000226	81.31880	56.38706	342.27539	11.15407	0.2344419	2.7469363	78	3	1989-2000	0.70	M-v	2	Williams	38754	1989 TN ₁
1989 TX ₂	13.7	0.15	20000226	98.62039	274.18332	185.27021	15.12650	0.0775328	2.6026191	40	5	1989-2000	0.87	M-v	2	Williams	38754	1989 TX ₂
1989 TC ₄	15.0	0.15	20000226	141.42358	237.11181	138.21853	2.33256	0.1770425	2.6675167	45	4	1989-2000	0.68	M-v	2	Williams	35681	1989 TC ₄
1989 TR ₁₁	13.5	0.15	20000226	170.51203	324.56119	14.47677	12.79860	0.1974135	2.6470533	73	4	1979-2000	0.68	M-v	2	Williams	38754	1989 TR ₁₁
1989 TA ₁₆	14.0	0.15	20000226	228.39638	71.49357	233.09038	2.29189	0.1638201	2.5869689	50	7	1981-2000	0.66	M-v	1	Williams	33543	1989 TA ₁₆
1989 US ₁	13.4	0.15	20000226	165.76866	339.40825	31.88197	13.86836	0.2347814	2.6373259	50	4	1989-2000	0.84	M-v	3	Williams	34005	1989 US ₁
1989 UX ₇	13.9	0.15	20000226	121.78602	155.80242	228.88449	13.88454	0.2910208	2.6909034	63	3	1989-2000	0.67	M-v	2	Williams	33742	1989 UX ₇
1989 VR ₁	14.4	0.15	20000226	357.42625	302.88244	152.79548	6.15826	0.1192565	2.2241774	49	2	1989-2000	0.72	M-v	4	Williams	38754	1989 VR ₁
1989 WH	14.3	0.15	20000226	87.83408	196.96873	223.82955	8.62557	0.1442838	2.7595715	60	3	1989-2000	0.79	M-v	3	Williams	38754	1989 WH
1989 WU	13.9	0.15	20000226	15.92518	174.26205	270.37658	4.95826	0.1547836	2.2317978	101	3	1989-2000	0.61	M-v	2	Williams	38754	1989 WU
1989 WY ₁	12.5	0.15	20000226	114.94925	302.77671	75.50119	15.21536	0.1900928	2.7752566	29	2	1989-2000	0.67	M-v	4	Williams	38435	1989 WY ₁
1989 WD ₃	13.6	0.15	20000226	63.70609	228.03627	241.99224	5.07711	0.1491484	2.7350352	65	4	1989-2000	0.76	M-v	2	Williams	34005	1989 WD ₃
1989 YE ₆	14.3	0.15	20000226	13.48208	193.37867	256.27376	7.37191	0.0774375	2.2554056	78	3	1989-2000	0.60	M-v	3	Williams	38754	1989 YE ₆
1990 DZ	13.4	0.15	20000226	329.80154	218.72853	338.00712	9.58904	0.1724982	2.9381590	70	4	1990-2000	0.52	M-v	2	Williams	38754	1990 DZ
1990 ET ₁	15.1	0.15	20000226	40.50767	162.34237	284.11371	5.45296	0.1219413	2.2679817	40	3	1990-2000	0.48	M-v	3	Williams	38435	1990 ET ₁
1990 ES ₆	12.8	0.15	20000226	123.11071	195.07143	204.28656	1.42600	0.0551226	2.9017193	73	4	1978-2000	0.56	M-v	2	Williams	38754	1990 ES ₆
1990 FD ₃	12.1	0.15	20000226	190.98460	98.81171	158.47740	15.67730	0.0364570	3.1444261	76	3	1990-2000	0.64	M-v	2	Williams	38754	1990 FD ₃
1990 HZ ₁	13.4	0.15	20000226	329.09335	3.74537	131.00622	15.21651	0.1766161	3.0963344	36	2	1990-2000	0.45	M-v	3	Williams	38435	1990 HZ ₁
1990 OY	13.6	0.15	20000226	105.40966	188.72668	154.70133	14.11865	0.2024500	2.5486480	25	4	1986-2000	0.82	M-v	3	Williams	37626	1990 OY
1990 OB ₁	13.5	0.15	20000226	283.29026	37.85109	231.64675	8.63016	0.2122182	2.3284501	32	2	1990-2000	0.53	M-v	4	Williams	38754	1990 OB ₁
1990 OX ₂	14.9	0.15	20000226	191.69071	206.60659	131.08716	3.04681	0.2360761	2.4016950	29	5	1990-2000	0.71	M-v	1	Williams	33544	1990 OX ₂

1990 OR ₃	13.7	0.15	20000226	226.76359	335.88655	324.95844	5.62703	0.0970045	2.3875396	74	3	1990-2000	0.54	M-v	2	Williams	38435	1990 OR ₃
1990 OY ₃	13.9	0.15	20000226	213.68439	6.22147	324.92776	5.97363	0.1346140	2.3718661	52	5	1989-2000	0.70	M-v	1	Williams	33742	1990 OY ₃
1990 OH ₄	13.1	0.15	20000226	286.82344	98.06245	181.92382	7.10035	0.1262451	3.1125265	34	6	1979-2000	0.66	M-v	1	Williams	34005	1990 OH ₄
1990 QG ₁	13.9	0.15	20000226	227.46864	350.94917	344.39849	6.59456	0.1359846	2.3605117	62	4	1990-2000	0.75	M-v	1	Williams	35681	1990 QG ₁
1990 QT ₁	14.8	0.15	20000226	199.64519	197.79448	132.99883	2.93696	0.2203170	2.4116602	50	5	1990-2000	0.85	M-v	1	Williams	35681	1990 QT ₁
1990 QN ₂	14.3	0.15	20000226	242.17138	335.50321	346.62307	7.09079	0.1372094	2.3573663	34	5	1954-2000	0.95	M-v	2	Williams	33742	1990 QN ₂
1990 QU ₄	13.9	0.15	20000226	284.78584	251.19608	63.98282	6.59111	0.1924408	2.2865468	38	4	1990-2000	0.77	M-v	2	Williams	35681	1990 QU ₄
1990 QE ₅	14.3	0.15	20000226	242.89579	311.15912	0.26438	6.70231	0.1279617	2.3638761	46	4	1990-2000	0.58	M-v	1	Williams	35682	1990 QE ₅
1990 QO ₅	15.2	0.15	20000226	277.81062	213.44584	74.42409	1.70156	0.1240421	2.3341772	35	5	1990-2000	0.75	M-v	2	Williams	33544	1990 QO ₅
1990 QR ₅	13.2	0.15	20000226	270.80530	171.65704	125.88198	2.60944	0.1754520	3.1881323	45	5	1972-2000	0.78	M-v	1	Williams	34006	1990 QR ₅
1990 QT ₆	14.7	0.15	20000226	275.93810	239.72331	3.74749	1.98266	0.1413093	2.4110417	53	2	1990-2000	0.62	M-v	4	Williams	38755	1990 QT ₆
1990 QE ₇	14.0	0.15	20000226	22.24967	319.45792	142.95650	2.13638	0.1208827	2.5339979	125	5	1990-2000	0.68	M-v	2	Williams	38755	1990 QE ₇
1990 QM ₇	14.6	0.15	20000226	269.54768	278.77477	2.98283	6.16665	0.1074666	2.3666552	30	3	1990-2000	0.68	M-v	5	Williams	34178	1990 QM ₇
1990 QN ₇	14.0	0.15	20000226	270.09009	225.98875	37.84317	2.72435	0.1913132	2.3784008	71	5	1990-2000	0.59	M-v	2	Williams	38755	1990 QN ₇
1990 QP ₁₀	12.4	0.15	20000226	243.27097	311.99294	6.34332	6.60726	0.1150954	3.2384913	38	7	1973-2000	0.79	M-v	1	Williams	38022	1990 QP ₁₀
1990 RE ₂	14.1	0.15	20000226	140.37058	193.07341	195.24440	3.54081	0.1973095	2.4584255	83	7	1986-2000	0.72	M-v	2	Williams	33544	1990 RE ₂
1990 RV ₅	13.9	0.15	20000226	302.01639	291.48148	345.12691	4.71942	0.1506641	2.3033828	26	4	1990-2000	0.71	M-v	2	Williams	35682	1990 RV ₅
1990 RS ₆	14.5	0.15	20000226	342.73439	213.26901	349.08391	6.20769	0.0701563	2.3827533	43	4	1990-2000	0.71	M-v	1	Williams	33335	1990 RS ₆
1990 RM ₉	14.4	0.15	20000226	187.07175	105.36192	245.21344	5.37387	0.2622669	2.4059450	48	5	1990-2000	0.68	M-v	1	Williams	33742	1990 RM ₉
1990 RU ₉	13.6	0.15	20000226	127.90386	154.44811	150.49733	10.99377	0.1780835	2.5637281	33	3	1990-2000	0.59	M-v	3	Williams	37626	1990 RU ₉
1990 SC ₃	14.6	0.15	20000226	218.73918	187.68232	124.64173	4.63930	0.1826802	2.4254422	37	4	1975-2000	0.57	M-v	3	Williams	38755	1990 SC ₃
1990 SX ₃	13.3	0.15	20000226	96.80174	60.17359	308.31427	12.31883	0.2179640	2.5847845	102	3	1990-2000	0.52	M-v	2	Williams	38755	1990 SX ₃
1990 ST ₄	14.3	0.15	20000226	81.69944	196.17595	177.12785	5.14601	0.3358046	2.5886547	44	3	1986-2000	0.75	M-v	3	Williams	38755	1990 ST ₄
1990 SE ₅	12.7	0.15	20000226	80.81510	291.23681	52.37236	4.49252	0.1747305	3.9875025	65	3	1990-2000	0.59	M-v	4	Williams	38022	1990 SE ₅
1990 ST ₇	14.4	0.15	20000226	45.22249	350.36748	58.93048	3.98165	0.1696560	2.6168290	34	2	1990-2000	0.60	M-v	4	Williams	38022	1990 ST ₇
1990 SM ₁₄	13.4	0.15	20000226	226.12455	186.30477	142.86523	4.23259	0.2220995	2.3891254	41	4	1990-2000	0.70	M-v	2	Williams	36066	1990 SM ₁₄
1990 SW ₁₄	11.8	0.15	19900906	150.66536	277.42098	274.16517	9.59195	0.1690252	3.0131820	6	1	3 days	0.26			Williams	38436	1990 SW ₁₄
1990 SK ₂₈	13.6	0.15	20000226	132.86334	19.14959	346.91157	2.50701	0.1561579	2.5232672	129	4	1990-2000	0.53	M-v	2	Williams	38755	1990 SK ₂₈
1990 TN ₃	14.4	0.15	20000226	151.44899	4.36427	21.31613	20.89446	0.0938406	1.9627941	38	4	1989-2000	0.77	M-v	2	Williams	38755	1990 TN ₃
1990 TD ₁₂	14.4	0.15	20000226	14.67924	171.99516	252.27596	2.90122	0.1994123	2.6832278	105	4	1985-2000	0.48	M-v	1	Williams	38755	1990 TD ₁₂
1990 UA ₁	12.3	0.15	20000226	6.09577	220.34921	236.76344	12.08147	0.1272410	2.6721316	85	3	1990-2000	0.59	M-v	2	Williams	38023	1990 UA ₁
1990 UC ₁	13.8	0.15	20000226	238.99914	301.29806	9.07782	10.29522	0.2157748	2.3953888	44	3	1990-2000	0.68	M-v	3	Williams	38755	1990 UC ₁
1990 UC ₂	13.8	0.15	20000226	169.39179	277.84492	82.14524	9.29162	0.1645011	2.4558919	44	3	1990-2000	0.76	M-v	3	Williams	38755	1990 UC ₂
1990 UJ ₄	13.2	0.15	20000226	289.23905	192.79265	63.68187	11.13754	0.1240565	2.4453553	46	4	1989-2000	0.65	M-v	3	Williams	38755	1990 UJ ₄
1990 US ₄	13.4	0.15	20000226	304.49738	218.03043	76.56673	7.07436	0.1951762	2.3310176	35	4	1990-2000	0.63	M-v	2	Williams	35682	1990 US ₄
1990 UE ₅	15.2	0.15	20000226	228.00676	130.61727	201.38386	21.23994	0.0881461	1.9326710	57	3	1990-2000	0.68	M-v	3	Williams	35682	1990 UE ₅
1990 UK ₅	14.5	0.15	20000226	72.77946	301.46393	112.73160	6.01906	0.2289955	2.5986220	64	3	1990-2000	0.69	M-v	2	Williams	38755	1990 UK ₅
1990 VH ₃	14.7	0.15	20000226	77.14602	164.85482	267.06164	3.56093	0.2715483	2.5853511	63	3	1990-2000	0.68	M-v	2	Williams	33544	1990 VH ₃
1990 VY ₅	12.3	0.15	20000226	13.77784	36.41115	94.65642	15.54403	0.1669782	3.9409680	48	3	1990-2000	0.61	M-v	2	Williams	38437	1990 VY ₅
1990 VP ₆	12.7	0.15	20000226	172.69269	122.39472	203.19995	12.74096	0.0608215	2.5894853	120	4	1990-2000	0.60	M-v	2	Williams	38755	1990 VP ₆
1990 VT ₆	14.3	0.15	20000226	63.91070	214.41295	174.93283	3.59730	0.1241147	2.6496540	38	3	1990-2000	0.68	M-v	4	Williams	38023	1990 VT ₆
1990 VW ₈	13.6	0.15	20000226	41.00712	238.65598	222.89720	12.96063	0.1635526	2.5887078	67	3	1990-2000	0.61	M-v	2	Williams	38755	1990 VW ₈
1990 WS ₁	13.3	0.15	20000226	297.52950	324.74715	206.18496	12.48831	0.1186343	2.6839160	69	3	1990-2000	0.63	M-v	3	Williams	38023	1990 WS ₁
1990 WR ₂	13.9	0.15	20000226	102.03548	335.46551	94.06565	8.99711	0.2500420	2.5425548	54	5	1979-2000	0.78	M-v	2	Williams	34286	1990 WR ₂
1990 WO ₄	14.5	0.15	20000226	9.45390	270.83818	202.15908	4.62425	0.2360431	2.6846334	54	3	1990-2000	0.56	M-v	2	Williams	38755	1990 WO ₄
1991 AK ₁	14.4	0.15	20000226	20.63297	191.15689	269.09902	3.40451	0.2791721	2.7224130	64	2	1991-2000	0.39	M-v	3	Williams	38755	1991 AK ₁
1991 AE ₂	13.5	0.15	20000226	97.79945	267.22846	150.23090	14.12609	0.1448135	2.5649816	40	3	1991-2000	0.56	M-v	2	Williams	38437	1991 AE ₂
1991 AF ₂	14.2	0.15	20000226	62.45828	246.23238	184.95997	12.23825	0.1593877	2.6215503	67	3	1990-2000	0.69	M-v	2	Williams	38755	1991 AF ₂
1991 BZ	13.7	0.15	20000226	16.97904	126.75730	288.96721	5.99334	0.2455237	2.8076365	100	3	1980-2000	0.58	M-v	2	Williams	38755	1991 BZ
1991 CL	12.4	0.15	20000226	320.07782	50.42043	128.66104	13.92954	0.1574934	2.7648025	63	5	1989-2000	0.69	M-v	2	Williams	38755	1991 CL
1991 DB	18.2	0.15	20000226	338.02068	51.10778	158.43147	11.42910	0.4026571	1.7162036	178	2	1991-2000	0.58	M-v	1	Williams	38437	1991 DB
1991 FQ ₂	14.5	0.15	20000226	325.09905	218.29851	1.05486	4.60179	0.1294566	2.7111358	44	3	1991-2000	0.39	M-v	4	Williams	29098	1991 FQ ₂
1991 FW ₃	13.4	0.15	20000226	227.63166	136.18239	172.85330	5.29125	0.0150961	2.7482882	63	4	1991-2000	0.50	M-v	1	Williams	38023	1991 FW ₃

1991 GM ₈	14.2	0.15	20000226	254.79881	24.28400	265.25391	2.86039	0.0425929	2.7718764	32	3	1991-2000	0.60	M-v	4	Williams	34007	1991 GM ₈
1991 JW ₁	12.1	0.15	20000226	103.50332	216.28666	149.50443	23.57981	0.0398797	3.0427156	48	3	1990-2000	0.68	M-v	2	Williams	38437	1991 JW ₁
1991 LF ₂	12.9	0.15	20000226	102.69341	230.84544	186.73622	1.81384	0.0953103	2.9292277	53	5	1980-2000	0.56	M-v	1	Williams	38756	1991 LF ₂
1991 NK ₄	13.9	0.15	20000226	215.40159	176.44894	123.19531	6.78330	0.2080927	2.2168313	77	3	1991-2000	0.59	M-v	3	Williams	38438	1991 NK ₄
1991 NV ₆	13.3	0.15	20000226	149.36595	36.11296	308.05288	6.55273	0.1378018	3.1705000	37	3	1991-2000	0.78	M-v	4	Williams	38756	1991 NV ₆
1991 OV	14.9	0.15	20000226	187.95989	145.94931	166.10364	5.16230	0.1898349	2.2656873	97	3	1991-2000	0.66	M-v	3	Williams	38756	1991 OV
1991 PA	13.3	0.15	20000226	210.52901	16.80206	311.55481	4.41624	0.3175839	3.0604071	54	4	1986-2000	0.69	M-v	1	Williams	32223	1991 PA
1991 PF ₅	14.6	0.15	20000226	257.04417	295.88874	312.43509	4.62196	0.1215564	2.2336906	103	3	1991-2000	0.69	M-v	2	Marsden	38756	1991 PF ₅
1991 PE ₆	12.7	0.15	20000226	245.97355	257.19793	27.36668	2.63399	0.1569071	3.0466760	64	3	1991-2000	0.66	M-v	3	Williams	38756	1991 PE ₆
1991 PP ₈	13.3	0.15	20000226	187.95687	252.16938	78.84063	2.42812	0.1657458	3.1262815	56	5	1989-2000	0.53	M-v	1	Williams	38756	1991 PP ₈
1991 PQ ₈	13.9	0.15	20000226	226.03712	206.03181	118.50559	1.94313	0.1003210	3.0057734	73	7	1976-2000	0.72	M-v	1	Williams	35683	1991 PQ ₈
1991 PD ₁₁	14.3	0.15	20000226	253.70560	135.09574	141.62406	6.34463	0.1990391	2.2076086	100	3	1991-2000	0.65	M-v	2	Williams	38756	1991 PD ₁₁
1991 PO ₁₂	14.1	0.15	20000226	102.83615	273.49125	145.84174	5.11741	0.1711584	2.2689886	81	3	1991-2000	0.71	M-v	2	Williams	35683	1991 PO ₁₂
1991 PP ₁₂	15.2	0.15	20000226	103.76347	70.75248	310.02824	1.86765	0.2419254	2.3412108	62	3	1991-2000	0.69	M-v	3	Williams	38756	1991 PP ₁₂
1991 PP ₁₃	12.8	0.15	20000226	187.40652	41.18349	328.93117	10.81567	0.1110312	3.0543410	38	3	1991-2000	0.63	M-v	3	Williams	34287	1991 PP ₁₃
1991 PC ₁₆	13.3	0.15	20000226	192.59730	241.63744	83.88681	0.48551	0.2079053	3.1468598	22	3	1986-2000	0.81	M-v	5	Williams	30871	1991 PC ₁₆
1991 PG ₁₈	12.9	0.15	20000226	169.68842	47.35901	281.88509	2.07214	0.2381051	3.2450470	28	2	1991-2000	0.64	M-v	5	Williams	38438	1991 PG ₁₈
1991 PL ₁₈	15.1	0.15	20000226	207.16908	7.26939	301.03299	3.93762	0.1618526	2.2517185	42	3	1991-2000	0.66	M-v	3	Williams	38756	1991 PL ₁₈
1991 RA	14.5	0.15	20000226	174.38420	310.34086	356.88017	21.12281	0.0411543	1.8531285	58	3	1991-2000	0.51	M-v	3	Williams	38756	1991 RA
1991 RF ₁	14.9	0.15	20000226	234.96809	133.91329	147.62006	3.07164	0.2267697	2.2359072	57	3	1991-2000	0.62	M-v	3	Williams	38756	1991 RF ₁
1991 RH ₁	15.5	0.15	20000226	142.49464	5.75162	359.27788	5.16266	0.2023933	2.2992124	57	3	1991-2000	0.63	M-v	3	Williams	32925	1991 RH ₁
1991 RR ₁	12.1	0.15	20000226	235.17360	94.99155	230.14285	9.45148	0.1393879	3.0555611	41	4	1991-2000	0.71	M-v	1	Williams	34007	1991 RR ₁
1991 RC ₂	14.0	0.15	20000226	86.00286	82.98448	333.26574	7.38224	0.1267340	2.3200416	116	3	1991-2000	0.55	M-v	2	Williams	38756	1991 RC ₂
1991 RE ₂	14.3	0.15	20000226	119.12269	149.71919	265.57544	4.61924	0.1449046	2.2753302	54	5	1957-2000	0.80	M-v	1	Williams	34494	1991 RE ₂
1991 RU ₂	14.7	0.15	20000226	3.38615	271.93500	254.91358	4.47443	0.0922621	2.2777850	75	4	1991-2000	0.70	M-v	2	Williams	38756	1991 RU ₂
1991 RT ₃	14.5	0.15	20000226	131.02606	177.17161	224.27995	5.01326	0.1474665	2.2879700	108	6	1977-2000	0.72	M-v	2	Williams	34287	1991 RT ₃
1991 RN ₄	14.2	0.15	20000226	83.58732	226.72685	159.20617	6.27901	0.2318938	2.3806570	89	3	1991-2000	0.64	M-v	3	Williams	38756	1991 RN ₄
1991 RE ₆	12.9	0.15	20000226	281.07437	268.52000	32.30407	10.37373	0.0889057	3.0021056	22	3	1991-2000	0.67	M-v	4	Williams	35601	1991 RE ₆
1991 RF ₆	14.7	0.15	20000226	183.96958	250.54549	112.42596	2.95599	0.2089067	2.2427738	52	5	1981-2000	0.73	M-v	2	Williams	33743	1991 RF ₆
1991 RB ₇	15.0	0.15	20000226	182.02510	4.61610	4.98095	4.47127	0.1887343	2.2379537	20	3	1991-2000	0.70	M-v	4	Williams	34007	1991 RB ₇
1991 RG ₇	14.7	0.15	20000226	48.87576	149.20450	262.30745	3.73868	0.1790943	2.4529903	61	6	1983-2000	0.69	M-v	2	Williams	38756	1991 RG ₇
1991 RQ ₇	12.8	0.15	20000226	256.35246	6.64020	305.83130	9.69810	0.2804724	2.9840199	40	6	1986-2000	0.68	M-v	2	Williams	34007	1991 RQ ₇
1991 RU ₇	15.7	0.15	20000226	114.65088	222.80241	178.48274	6.73724	0.2103923	2.3077446	52	5	1977-2000	0.68	M-v	2	Williams	32743	1991 RU ₇
1991 RL ₈	14.8	0.15	20000226	157.78051	337.70045	21.64629	7.37620	0.1905381	2.2964107	84	4	1991-2000	0.67	M-v	2	Williams	38756	1991 RL ₈
1991 RC ₉	14.4	0.15	20000226	162.36184	337.60902	18.94193	4.05966	0.0975010	2.2905722	71	3	1991-2000	0.48	M-v	3	Williams	38756	1991 RC ₉
1991 RR ₉	14.6	0.15	20000226	131.57575	5.69854	347.23692	3.29231	0.2497680	2.3409683	52	3	1991-2000	0.61	M-v	2	Williams	38756	1991 RR ₉
1991 RU ₉	14.8	0.15	20000226	168.82071	64.34522	281.04915	1.16458	0.1667718	2.2877708	73	3	1991-2000	0.63	M-v	3	Williams	38756	1991 RU ₉
1991 RB ₁₀	14.3	0.15	20000226	172.79517	36.76953	300.51890	4.54992	0.1378616	2.2955230	88	4	1991-2000	0.67	M-v	2	Williams	38756	1991 RB ₁₀
1991 RR ₁₀	15.0	0.15	20000226	130.90908	21.02517	5.06984	6.80207	0.1223326	3.1159196	85	3	1991-2000	0.67	M-v	3	Williams	38756	1991 RR ₁₀
1991 RO ₁₁	12.7	0.15	20000226	147.54904	34.54170	322.24677	22.42516	0.1277282	3.1826355	52	3	1991-2000	0.75	M-v	3	Williams	38438	1991 RO ₁₁
1991 RP ₁₂	14.1	0.15	20000226	206.26011	329.71369	345.28076	7.11173	0.1603450	2.2327658	70	3	1991-2000	0.52	M-v	3	Williams	38439	1991 RP ₁₂
1991 RN ₁₃	15.0	0.15	20000226	237.30014	43.40949	273.81138	4.24586	0.1947863	2.2041465	43	5	1991-2000	0.73	M-v	2	Williams	33546	1991 RN ₁₃
1991 RH ₁₄	14.4	0.15	20000226	47.95318	121.15910	326.35993	6.56216	0.0734468	2.3386534	92	3	1991-2000	0.62	M-v	2	Williams	38756	1991 RH ₁₄
1991 RQ ₁₄	13.7	0.15	20000226	188.79101	285.48083	58.75868	1.94945	0.1778265	3.1672089	51	7	1986-2000	0.72	M-v	1	Williams	33744	1991 RQ ₁₄
1991 RU ₁₆	15.5	0.15	20000226	179.74035	315.65895	31.47995	6.44880	0.1316759	2.2657907	45	4	1981-2000	0.70	M-v	2	Williams	33228	1991 RU ₁₆
1991 RA ₁₇	14.6	0.15	20000226	164.65842	303.51882	35.61468	7.23821	0.1602414	2.3007557	92	4	1991-2000	0.69	M-v	2	Williams	38756	1991 RA ₁₇
1991 RG ₁₇	14.5	0.15	20000226	131.39211	233.44432	127.75259	3.40907	0.1177658	2.3344800	107	3	1991-2000	0.65	M-v	3	Williams	38756	1991 RG ₁₇
1991 RW ₁₇	14.3	0.15	20000226	199.20441	121.22499	195.85781	3.20565	0.0763774	2.2684629	108	3	1991-2000	0.59	M-v	3	Williams	38757	1991 RW ₁₇
1991 RX ₁₇	13.9	0.15	20000226	160.84467	148.16430	177.73936	4.36058	0.1437368	2.3168452	113	3	1991-2000	0.76	M-v	3	Williams	38757	1991 RX ₁₇
1991 RX ₂₁	12.7	0.15	20000226	109.32915	263.09158	158.76189	14.44425	0.1125078	3.2068102	35	3	1991-2000	0.59	M-v	4	Williams	34007	1991 RX ₂₁
1991 RK ₂₃	14.3	0.15	20000226	235.19477	230.84198	92.02506	3.26959	0.0964746	2.2019480	30	5	1991-2000	0.57	M-v	1	Williams	34578	1991 RK ₂₃
1991 RY ₂₉	14.8	0.15	20000226	100.17231	136.80775	278.98583	6.02131	0.1478725	2.2951476	42	3	1991-2000	0.66	M-v	3	Williams	33546	1991 RY ₂₉
1991 RJ ₄₁	14.8	0.15	20000226	144.39105	8.80372	12.90430	7.68046	0.1272349	2.2833830	87	3	1991-2000	0.66	M-v	3	Williams	38757	1991 RJ ₄₁

1991 SB	13.8	0.15	20000226	62.01830	179.63243	216.63839	2.48501	0.1328825	2.4205759	62	4	1984–2000	0.67	M-v	2	Williams	38757	1991 SB
1991 SM	12.4	0.15	20000226	225.74900	218.72037	122.72515	11.22742	0.1155932	3.0108937	33	4	1991–2000	0.69	M-v	1	Williams	35684	1991 SM
1991 SU	14.0	0.15	20000226	54.07916	284.91902	109.98086	8.39851	0.1386077	2.4132128	36	2	1991–2000	0.45	M-v	4	Williams	38439	1991 SU
1991 SK ₂	13.3	0.15	20000226	231.67587	351.93380	328.86491	9.46836	0.1201944	3.0514024	36	5	1991–2000	0.71	M-v	1	Williams	34287	1991 SK ₂
1991 SM ₂	14.1	0.15	20000226	111.42643	58.17511	15.88879	6.94955	0.0646054	2.2727567	57	4	1991–2000	0.74	M-v	2	Williams	33744	1991 SM ₂
1991 SR ₃	12.3	0.15	20000226	115.39929	62.84178	19.81529	21.76776	0.1162930	3.1506830	47	6	1983–2000	0.76	M-v	1	Williams	35063	1991 SR ₃
1991 TK	14.0	0.15	20000226	320.87438	46.66209	107.83032	5.12459	0.0629067	2.3916409	92	4	1991–2000	0.76	M-v	2	Williams	38757	1991 TK
1991 TS	14.2	0.15	20000226	127.24255	192.57158	130.52951	6.33976	0.1062922	2.4145575	44	3	1991–2000	0.67	M-v	3	Williams	38757	1991 TS
1991 TH ₁	14.9	0.15	20000226	144.19113	2.74554	18.37976	22.97278	0.2232427	2.2976844	55	3	1991–2000	0.64	M-v	2	Williams	33744	1991 TH ₁
1991 TQ ₁	13.1	0.15	20000226	118.40168	6.90202	21.25139	24.65371	0.2170079	2.3289531	34	3	1991–2000	0.62	M-v	2	Williams	38757	1991 TQ ₁
1991 TQ ₂	15.0	0.15	20000226	41.86556	164.76383	270.63599	2.76161	0.2186079	2.4175212	122	4	1991–2000	0.50	M-v	2	Williams	38757	1991 TQ ₂
1991 TK ₈	14.7	0.15	20000226	92.49230	257.35708	151.69218	6.07052	0.1304289	2.3403956	110	3	1991–2000	0.59	M-v	2	Williams	38757	1991 TK ₈
1991 TL ₁₄	14.5	0.15	20000226	251.22020	247.98010	29.01544	6.41198	0.1508805	2.2473782	32	2	1991–2000	0.69	M-v	4	Williams	38439	1991 TL ₁₄
1991 UR	13.9	0.15	20000226	169.14592	331.24151	10.69493	6.92607	0.1280082	2.3185939	108	3	1991–2000	0.59	M-v	3	Williams	38757	1991 UR
1991 UE ₁	14.9	0.15	20000226	65.42802	59.84440	353.98022	1.53960	0.2312172	2.4193809	66	3	1991–2000	0.47	M-v	4	Williams	38757	1991 UE ₁
1991 UK ₁	14.2	0.15	20000226	181.65476	11.21031	333.26340	4.87972	0.2133947	2.2785929	64	3	1991–2000	0.75	M-v	3	Williams	38757	1991 UK ₁
1991 UJ ₂	13.8	0.15	20000226	221.07066	264.75721	31.52738	5.33656	0.1578042	2.3052378	94	3	1991–2000	0.52	M-v	2	Williams	38757	1991 UJ ₂
1991 UO ₂	13.9	0.15	20000226	125.51980	290.09325	113.12958	4.74094	0.1970704	2.3244637	103	5	1984–2000	0.72	M-v	2	Williams	34287	1991 UO ₂
1991 UR ₂	14.5	0.15	20000226	54.56620	24.73900	37.25950	8.21972	0.3165154	2.4425720	45	2	1991–2000	0.52	M-v	3	Williams	38439	1991 UR ₂
1991 VY	13.6	0.15	20000226	42.43499	356.97785	68.48142	5.85356	0.0922079	2.4531867	83	4	1991–2000	0.58	M-v	3	Williams	38757	1991 VY
1991 VF ₁	14.7	0.15	20000226	200.63747	352.24664	6.35851	3.63049	0.1201914	2.2523539	40	3	1991–2000	0.72	M-v	4	Williams	35684	1991 VF ₁
1991 VQ ₁	13.5	0.15	20000226	168.61730	297.52169	71.85638	7.34555	0.2068251	2.2813304	102	4	1991–2000	0.70	M-v	2	Williams	38025	1991 VQ ₁
1991 VY ₁	13.7	0.15	20000226	122.29950	91.52845	274.17419	22.07724	0.2802827	2.3675839	35	3	1991–2000	0.64	M-v	2	Williams	38025	1991 VY ₁
1991 VJ ₂	14.3	0.15	20000226	209.39114	145.90614	204.07783	4.62406	0.2273704	2.2475868	49	4	1991–2000	0.74	M-v	2	Williams	33744	1991 VJ ₂
1991 VY ₂	14.3	0.15	20000226	221.81747	59.74339	268.50148	6.64128	0.1053710	2.2859150	22	3	1991–2000	0.67	M-v	3	Williams	33480	1991 VY ₂
1991 VZ ₂	15.6	0.15	20000226	149.73175	336.82432	23.41341	3.98500	0.3528865	2.3230893	84	6	1959–2000	0.76	M-v	2	Williams	35684	1991 VZ ₂
1991 VE ₃	14.3	0.15	20000226	17.23491	296.85570	118.50483	4.52565	0.2890235	2.5431169	87	3	1991–2000	0.52	M-v	2	Williams	38025	1991 VE ₃
1991 VO ₃	14.3	0.15	20000226	50.84509	36.46713	59.65289	4.17254	0.1511210	2.3839828	72	3	1991–2000	0.62	M-v	2	Williams	38757	1991 VO ₃
1991 VG ₄	13.6	0.15	20000226	10.28236	180.70941	252.23777	11.82485	0.1447104	2.5326812	52	3	1991–2000	0.58	M-v	2	Williams	38757	1991 VG ₄
1991 VJ ₄	13.1	0.15	20000226	226.53937	278.21174	42.60574	7.02684	0.1487663	2.2864623	49	4	1956–2000	0.56	M-v	2	Williams	38757	1991 VJ ₄
1991 VA ₅	13.4	0.15	20000226	19.79972	32.60642	79.01144	14.44053	0.1737584	2.4418285	56	2	1991–2000	0.63	M-v	3	Williams	38757	1991 VA ₅
1991 VM ₅	13.6	0.15	20000226	168.49901	267.29239	70.06688	6.34628	0.2112665	2.3240593	109	4	1977–2000	0.64	M-v	3	Williams	38757	1991 VM ₅
1991 VM ₁₂	13.3	0.15	20000226	222.85279	272.34549	66.67034	1.60879	0.1952629	3.1687813	38	7	1991–2000	0.64	M-v	1	Williams	36067	1991 VM ₁₂
1991 XC	13.7	0.15	20000226	56.64100	92.29163	0.98054	21.37371	0.3027110	2.4401359	56	4	1991–2000	0.51	M-v	2	Williams	38757	1991 XC
1991 XD	13.9	0.15	20000226	21.53800	11.32505	65.44788	22.71109	0.1012903	1.9372018	123	3	1991–2000	0.64	M-v	2	Williams	38025	1991 XD
1992 AJ ₁	13.1	0.15	20000226	285.43879	306.31076	272.81530	5.06674	0.1070569	2.5216565	111	4	1992–2000	0.59	M-v	3	Williams	38757	1992 AJ ₁
1992 AO ₁	13.8	0.15	20000226	77.38599	41.45491	62.32832	4.08531	0.2086591	2.4123356	68	3	1992–2000	0.75	M-v	2	Williams	33744	1992 AO ₁
1992 AV ₁	14.1	0.15	20000226	23.18206	328.98783	110.65181	24.76888	0.0732740	1.9463092	76	3	1992–2000	0.62	M-v	2	Williams	38757	1992 AV ₁
1992 BQ ₂	14.1	0.15	20000226	347.49625	283.54030	236.52738	4.34717	0.0642246	2.4890133	61	4	1992–2000	0.63	M-v	3	Williams	38757	1992 BQ ₂
1992 BW ₃	15.7	0.15	20000226	195.83567	295.40864	53.54990	6.44999	0.1913652	2.2764566	23	3	1991–2000	0.67	M-v	3	Williams	35684	1992 BW ₃
1992 CH	13.1	0.15	20000226	348.07770	168.70981	311.80787	12.62185	0.1097106	2.6299722	88	5	1992–2000	0.63	M-v	2	Williams	38757	1992 CH
1992 CQ	12.5	0.15	20000226	217.27489	115.26251	134.11315	14.22840	0.1334135	2.6649882	32	2	1992–2000	0.55	M-v	3	Williams	38440	1992 CQ
1992 CG ₃	13.8	0.15	20000226	97.73353	257.29553	176.30071	6.24243	0.0984983	2.4147354	83	4	1992–2000	0.70	M-v	2	Williams	38026	1992 CG ₃
1992 DH ₁	14.5	0.15	20000226	83.69582	93.93217	325.64436	21.03791	0.0865852	1.9186261	54	2	1992–2000	0.61	M-v	4	Williams	38440	1992 DH ₁
1992 DN ₆	13.1	0.15	20000226	284.36231	185.11756	136.95169	3.12473	0.2401587	2.3664790	45	6	1986–2000	0.75	M-v	1	Williams	34008	1992 DN ₆
1992 DR ₆	15.2	0.15	20000226	22.62418	16.75808	98.39068	2.27140	0.0575106	2.5659335	28	2	1992–2000	0.61	M-v	4	Williams	38440	1992 DR ₆
1992 DP ₇	15.1	0.15	20000226	61.47210	337.84288	119.02927	3.49509	0.0519812	2.5173261	19	3	1992–2000	0.49	M-v	2	Williams	38440	1992 DP ₇
1992 DX ₈	14.7	0.15	20000226	98.08508	11.74208	73.43233	3.30974	0.0904873	2.4510023	42	4	1990–2000	0.61	M-v	2	Williams	35684	1992 DX ₈
1992 DY ₈	14.6	0.15	20000226	352.41456	146.35896	67.83490	2.99050	0.0914502	2.4385045	17	3	1992–2000	0.57	M-v	5	Williams	33744	1992 DY ₈
1992 EX	13.6	0.15	20000226	305.14967	25.72631	136.85642	10.23510	0.0890369	2.6580258	56	3	1992–2000	0.64	M-v	3	Williams	38758	1992 EX
1992 EY ₅	14.1	0.15	20000226	327.76479	40.99991	145.38028	14.14003	0.0954906	2.5397175	78	3	1992–2000	0.59	M-v	3	Williams	38440	1992 EY ₅
1992 EA ₆	14.0	0.15	20000226	92.51078	315.84369	127.85573	7.13147	0.1534661	2.4437048	48	4	1992–2000	0.78	M-v	2	Williams	35685	1992 EA ₆
1992 EP ₁₀	14.0	0.15	20000226	314.76160	39.63590	163.10668	14.77764	0.0489842	2.5332750	73	4	1992–2000	0.51	M-v	3	Williams	38758	1992 EP ₁₀

1992 EK ₁₂	14.8	0.15	20000226	102.15522	243.44653	157.79851	11.95420	0.1387513	2.5279070	62	4	1992-2000	0.52	M-v	3	Williams	38758	1992 EK ₁₂
1992 EN ₁₂	14.2	0.15	20000226	13.45653	28.92970	97.89939	3.08564	0.0727477	2.5555656	99	3	1992-2000	0.67	M-v	3	Williams	38758	1992 EN ₁₂
1992 ED ₁₃	14.7	0.15	20000226	230.47074	148.27960	197.01716	6.33272	0.1414390	2.3962294	38	6	1990-2000	0.69	M-v	1	Williams	34579	1992 ED ₁₃
1992 ED ₁₄	13.1	0.15	20000226	160.81011	170.66118	174.99373	8.18034	0.2072360	2.5516369	53	4	1992-2000	0.68	M-v	3	Williams	38758	1992 ED ₁₄
1992 EK ₁₄	13.6	0.15	20000226	145.39006	19.03008	336.31419	3.59896	0.2559835	2.5504201	109	5	1980-2000	0.63	M-v	2	Williams	38758	1992 EK ₁₄
1992 EW ₁₆	13.6	0.15	20000226	208.88176	333.14545	327.24937	4.06525	0.1215944	2.5822149	107	3	1992-2000	0.58	M-v	3	Williams	38758	1992 EW ₁₆
1992 EW ₁₇	13.9	0.15	20000226	249.88274	74.54322	179.51535	13.90000	0.1233278	2.5817057	35	3	1992-2000	0.74	M-v	3	Williams	38758	1992 EW ₁₇
1992 ER ₁₈	14.6	0.15	20000226	342.56788	201.56726	357.58894	9.46346	0.1270403	2.4756623	28	4	1992-2000	0.62	M-v	4	Williams	35685	1992 ER ₁₈
1992 EA ₂₆	14.6	0.15	20000226	347.61845	157.40706	346.89928	10.50039	0.1538999	2.5772586	52	3	1992-2000	0.65	M-v	3	Williams	38758	1992 EA ₂₆
1992 EB ₂₆	15.1	0.15	20000226	59.70991	120.68973	348.75926	9.05736	0.1826160	2.4670848	24	4	1992-2000	0.76	M-v	2	Williams	34288	1992 EB ₂₆
1992 EZ ₂₈	14.2	0.15	20000226	263.73576	84.54762	168.91147	13.40716	0.1243897	2.5592858	25	4	1989-2000	0.66	M-v	2	Williams	38758	1992 EZ ₂₈
1992 ET ₃₂	13.2	0.15	20000226	346.38983	301.92148	246.84914	2.44206	0.1376701	3.9601896	14	3	1992-2000	0.60	M-v	5	Marsden	33682	1992 ET ₃₂
1992 FC ₂	13.9	0.15	20000226	318.27953	207.34456	354.07395	1.86852	0.2203249	2.5765137	109	4	1992-2000	0.43	M-v	3	Williams	38758	1992 FC ₂
1992 GD ₃	14.0	0.15	20000226	248.83869	97.75932	211.85642	7.93244	0.0429003	2.5338166	43	6	1969-2000	0.77	M-v	1	Williams	33745	1992 GD ₃
1992 GV ₃	13.6	0.15	20000226	0.28016	146.06317	33.40062	9.98113	0.0353360	2.5631843	66	4	1992-2000	0.66	M-v	3	Williams	35685	1992 GV ₃
1992 HD ₄	13.8	0.15	20000226	333.35877	340.82888	213.12887	7.15376	0.1369012	2.5791279	72	3	1992-2000	0.72	M-v	3	Williams	38758	1992 HD ₄
1992 JR ₃	14.0	0.15	20000226	330.31266	338.83496	265.53450	2.11583	0.1041382	2.5227420	24	3	1992-2000	0.65	M-v	4	Williams	30872	1992 JR ₃
1992 KF	13.4	0.15	20000226	316.94298	173.51296	66.30846	15.18906	0.1267463	2.5773126	30	4	1981-2000	0.73	M-v	3	Williams	38758	1992 KF
1992 LS	14.0	0.15	20000226	288.82562	99.23844	203.57747	4.05162	0.1654905	2.5311001	56	5	1992-2000	0.82	M-v	1	Williams	34008	1992 LS
1992 PG ₂	13.8	0.15	20000226	245.70847	112.69440	193.36562	8.04417	0.2853330	2.7442176	24	4	1988-2000	0.76	M-v	2	Williams	29943	1992 PG ₂
1992 PC ₃	12.2	0.15	20000226	145.46330	61.50605	273.48478	11.60675	0.1611646	3.0485729	94	3	1992-2000	0.68	M-v	3	Williams	38758	1992 PC ₃
1992 RE ₂	13.7	0.15	20000226	89.76637	88.83566	348.27235	1.23710	0.0793671	2.9343188	48	3	1992-2000	0.68	M-v	3	Williams	38027	1992 RE ₂
1992 RF ₅	13.6	0.15	20000226	226.19988	149.95090	173.34538	2.05922	0.0467987	2.8266196	67	4	1992-2000	0.72	M-v	1	Williams	35686	1992 RF ₅
1992 SJ	13.3	0.15	20000226	257.49136	317.81562	3.01067	8.81534	0.2818933	2.7311612	33	5	1992-2000	0.75	M-v	2	Williams	34288	1992 SJ
1992 ST ₁₃	13.1	0.15	20000226	117.41732	246.71764	160.08866	6.29205	0.1070993	2.9964899	45	4	1992-2000	0.65	M-v	2	Williams	38758	1992 ST ₁₃
1992 SY ₂₄	12.7	0.15	20000226	156.32931	10.21793	350.72319	10.31699	0.1082119	2.9982982	65	3	1992-2000	0.61	M-v	3	Williams	38758	1992 SY ₂₄
1992 SR ₂₅	13.5	0.15	20000226	124.34665	52.95347	355.32518	9.90109	0.1101259	2.9826033	59	4	1992-2000	0.61	M-v	1	Williams	34579	1992 SR ₂₅
1992 TV	13.4	0.15	20000226	187.50954	170.78974	197.82745	1.78615	0.0759099	2.8766334	68	5	1982-2000	0.67	M-v	1	Williams	35686	1992 TV
1992 UN	12.9	0.15	20000226	121.53613	224.35560	163.96438	1.21883	0.1542345	3.1138864	37	4	1992-2000	0.55	M-v	1	Williams	35289	1992 UN
1992 UJ ₂	12.5	0.15	20000226	204.32404	104.54151	227.57440	9.11744	0.1100704	2.9937104	34	3	1992-2000	0.55	M-v	3	Williams	38758	1992 UJ ₂
1992 UW ₂	14.3	0.15	20000226	80.95262	284.74353	54.05603	5.93517	0.2154436	2.2805428	138	3	1992-2000	0.57	M-v	2	Williams	38759	1992 UW ₂
1992 UZ ₃	13.2	0.15	20000226	166.16697	359.81502	11.31403	2.33128	0.2163199	3.0117066	40	6	1971-2000	0.70	M-v	1	Williams	34009	1992 UZ ₃
1992 UJ ₅	15.2	0.15	20000226	45.71976	190.00549	234.82331	0.52310	0.1995860	2.2510404	89	4	1992-2000	0.58	M-v	2	Williams	38759	1992 UJ ₅
1992 UU ₅	14.3	0.15	20000226	18.48207	346.73811	71.33535	3.24591	0.2278678	2.3172730	97	3	1985-2000	0.60	M-v	2	Williams	38027	1992 UU ₅
1992 UP ₆	12.3	0.15	20000226	177.22550	154.47330	218.65232	12.80712	0.1605806	2.9747656	49	4	1992-2000	0.80	M-v	2	Williams	35064	1992 UP ₆
1992 US ₈	15.4	0.15	20000226	96.29436	95.80254	292.64519	2.27128	0.2061313	2.1979462	45	3	1992-2000	0.57	M-v	4	Williams	38441	1992 US ₈
1992 VF	14.9	0.15	20000226	101.86539	179.08341	200.80072	2.89918	0.1961219	2.2122577	46	2	1992-2000	0.52	M-v	4	Williams	38442	1992 VF
1992 VL	13.0	0.15	20000226	159.84682	262.00355	111.04212	9.15653	0.3028852	3.0146571	29	4	1992-2000	0.76	M-v	2	Williams	35686	1992 VL
1992 VN	14.1	0.15	20000226	50.37628	152.52898	259.42763	7.66178	0.1247231	2.2561829	39	3	1992-2000	0.60	M-v	2	Williams	38759	1992 VN
1992 VQ	13.1	0.15	20000226	119.68763	285.88402	123.86646	1.65282	0.1794980	3.1010868	67	5	1981-2000	0.73	M-v	1	Williams	35686	1992 VQ
1992 WG	13.3	0.15	20000226	141.65123	351.27525	53.77352	12.37567	0.1356776	3.0321278	32	3	1992-2000	0.90	M-v	4	Williams	34499	1992 WG
1992 WK ₁	12.2	0.15	20000226	119.54755	324.68417	76.37058	18.17969	0.2071437	3.1544846	72	4	1990-2000	0.65	M-v	2	Williams	38759	1992 WK ₁
1992 WP ₁	12.5	0.15	20000226	129.58986	322.14102	96.03532	12.89580	0.1121015	3.0570011	60	3	1992-2000	0.69	M-v	3	Williams	38759	1992 WP ₁
1992 WX ₁	14.8	0.15	20000226	114.89232	101.01765	285.93127	3.10797	0.1269495	2.1791369	39	4	1992-2000	0.70	M-v	2	Williams	38759	1992 WX ₁
1992 WZ ₁	13.0	0.15	20000226	169.87376	335.64170	36.77036	10.60965	0.1006821	3.0370427	55	4	1992-2000	0.75	M-v	1	Williams	35686	1992 WZ ₁
1992 WR ₅	12.5	0.15	20000226	170.22009	107.70156	262.09154	9.52335	0.1410542	3.0602229	40	5	1976-2000	0.63	M-v	1	Williams	38028	1992 WR ₅
1992 WB ₉	13.4	0.15	20000226	131.48112	74.32840	346.85955	1.84997	0.0807130	3.0405923	30	4	1991-2000	0.75	M-v	2	Williams	34009	1992 WB ₉
1992 YC	14.4	0.15	20000226	53.56350	129.64310	264.88649	24.56801	0.2828964	2.2825298	59	2	1992-2000	0.63	M-v	3	Williams	38759	1992 YC
1993 BB	15.0	0.15	20000226	348.08159	24.99360	144.73754	5.75906	0.1389070	2.2976814	66	2	1993-2000	0.58	M-v	4	Williams	38759	1993 BB
1993 BJ ₂	13.1	0.15	20000226	181.28008	159.14343	122.63685	6.98322	0.1370896	2.4056478	69	3	1993-2000	0.58	M-v	3	Williams	38759	1993 BJ ₂
1993 BL ₂	14.1	0.15	20000226	327.84042	59.55348	125.16004	7.77406	0.0775738	2.2921493	28	2	1993-2000	0.68	M-v	5	Williams	38442	1993 BL ₂
1993 BT ₁₄	14.3	0.15	20000226	327.18867	314.04112	230.11122	2.55349	0.1236458	2.3106492	59	4	1991-2000	0.50	M-v	3	Williams	38759	1993 BT ₁₄
1993 DN ₁	14.7	0.15	20000226	323.81689	6.34909	164.39280	6.15064	0.2580412	2.3638482	31	3	1993-2000	0.72	M-v	4	Williams	38443	1993 DN ₁

1993 FL ₁	13.7	0.15	20000226	304.01800	179.82256	38.90599	7.26892	0.0590091	2.3364489	72	3	1993-2000	0.67	M-v	3	Williams	38759	1993 FL ₁
1993 FQ ₁	13.7	0.15	20000226	245.04630	123.06122	138.57807	6.84820	0.1010350	2.3935986	95	3	1993-2000	0.60	M-v	2	Williams	38759	1993 FQ ₁
1993 FX ₃	14.9	0.15	20000226	303.69833	45.61431	194.98829	5.70127	0.2673072	2.3451383	28	2	1993-2000	0.70	M-v	4	Williams	38443	1993 FX ₃
1993 FY ₅	15.5	0.15	20000226	32.04265	103.40955	25.48992	4.56477	0.0775885	2.3239602	45	3	1993-2000	0.65	M-v	4	Williams	38759	1993 FY ₅
1993 FV ₇	13.9	0.15	20000226	241.60623	276.08006	34.88728	7.51128	0.1117024	2.2908242	31	6	1976-2000	0.59	M-v	1	Williams	33548	1993 FV ₇
1993 FG ₈	14.4	0.15	20000226	149.66662	209.99049	169.74685	12.44521	0.1909029	2.3070899	43	3	1993-2000	0.65	M-v	3	Williams	33338	1993 FG ₈
1993 FK ₉	14.8	0.15	20000226	74.54162	37.59334	37.51805	5.75405	0.0881618	2.3434296	60	3	1993-2000	0.84	M-v	2	Williams	38759	1993 FK ₉
1993 FH ₁₁	13.9	0.15	20000226	133.78947	342.45699	21.14748	10.66300	0.1508228	2.3989854	67	3	1993-2000	0.58	M-v	2	Williams	38759	1993 FH ₁₁
1993 FS ₁₁	14.2	0.15	20000226	45.53838	307.43789	160.90237	6.84590	0.0619254	2.3441393	86	3	1993-2000	0.60	M-v	3	Williams	38759	1993 FS ₁₁
1993 FX ₁₁	15.7	0.15	20000226	298.69926	200.58135	38.53185	5.62445	0.1133526	2.3271667	24	3	1993-2000	0.51	M-v	4	Williams	33548	1993 FX ₁₁
1993 FY ₁₁	15.3	0.15	20000226	276.12950	234.93787	31.78520	5.29453	0.2072506	2.3456535	23	3	1993-2000	0.42	M-v	4	Williams	24393	1993 FY ₁₁
1993 FE ₁₂	14.4	0.15	20000226	13.54268	345.19086	101.01475	3.66949	0.1530524	2.4488273	79	4	1991-2000	0.55	M-v	2	Williams	38759	1993 FE ₁₂
1993 FO ₁₂	14.7	0.15	20000226	298.70725	183.97108	51.07359	4.72968	0.1007966	2.3341406	45	4	1991-2000	0.54	M-v	2	Williams	38759	1993 FO ₁₂
1993 FK ₁₃	14.2	0.15	20000226	215.57397	272.36051	43.36351	7.04824	0.1266865	2.3435152	37	3	1993-2000	0.73	M-v	4	Williams	35687	1993 FK ₁₃
1993 FP ₁₃	15.6	0.15	20000226	65.35016	47.51650	40.60795	7.80071	0.0663064	2.3402964	17	3	1993-2000	0.75	M-v	2	Williams	32930	1993 FP ₁₃
1993 FR ₁₃	15.1	0.15	20000226	27.73217	46.63506	50.66875	6.16012	0.1200436	2.3922966	47	3	1993-2000	0.60	M-v	3	Williams	38760	1993 FR ₁₃
1993 FS ₁₃	13.3	0.15	20000226	246.03834	256.75467	52.96249	6.01383	0.1578533	2.3004752	37	4	1993-2000	0.73	M-v	1	Williams	33548	1993 FS ₁₃
1993 FL ₁₄	13.9	0.15	20000226	166.76275	172.12874	108.75311	4.58138	0.0818676	2.5487511	63	3	1993-2000	0.56	M-v	3	Williams	38028	1993 FL ₁₄
1993 FP ₁₄	14.2	0.15	20000226	289.64001	249.38700	38.30666	7.35818	0.1695412	2.2642871	21	3	1993-2000	0.67	M-v	4	Williams	38760	1993 FP ₁₄
1993 FX ₁₆	15.4	0.15	20000226	222.70123	150.23033	167.05388	7.28170	0.1345687	2.3309752	44	2	1993-2000	0.66	M-v	5	Williams	38443	1993 FX ₁₆
1993 FF ₁₇	15.7	0.15	19930314	285.65979	119.04071	147.76646	4.07622	0.0699807	2.1518498	6	1	5 days	0.90		E	Williams		1993 FF ₁₇
1993 FX ₁₇	14.1	0.15	20000226	78.45787	335.64262	124.14406	5.92064	0.1100418	2.2833063	12	3	1991-2000	0.59	M-v	2	Williams	25531	1993 FX ₁₇
1993 FT ₁₉	13.9	0.15	20000226	211.49179	279.28619	48.27049	7.91003	0.2240365	2.3575165	25	3	1993-2000	0.73	M-v	4	Williams	35687	1993 FT ₁₉
1993 FO ₂₀	15.0	0.15	20000226	295.80966	105.09396	122.02271	3.25989	0.0788642	2.3568992	44	3	1993-2000	0.54	M-v	4	Williams	38760	1993 FO ₂₀
1993 FB ₂₂	15.2	0.15	20000226	44.55578	74.14089	8.17020	1.17929	0.1565246	2.3962889	56	3	1991-2000	0.62	M-v	3	Williams	38760	1993 FB ₂₂
1993 FE ₂₂	15.5	0.15	20000226	251.04962	53.84818	224.54111	1.10143	0.1617905	2.3798954	36	3	1993-2000	0.53	M-v	4	Williams	33683	1993 FE ₂₂
1993 FR ₂₃	14.1	0.15	20000226	163.93246	23.36045	359.87391	6.37645	0.2055039	2.2935406	61	7	1977-2000	0.83	M-v	2	Williams	34501	1993 FR ₂₃
1993 FD ₂₅	14.1	0.15	20000226	232.68976	287.79056	352.88293	6.26849	0.1114512	2.3984435	54	3	1953-2000	0.56	M-v	4	Williams	38760	1993 FD ₂₅
1993 FR ₂₅	15.1	0.15	20000226	343.75149	276.44144	240.32632	1.53334	0.1534868	2.3780757	36	2	1993-2000	0.48	M-v	4	Williams	38760	1993 FR ₂₅
1993 FX ₂₅	14.8	0.15	20000226	256.93750	311.20259	333.79739	4.10963	0.1320123	2.3337801	44	4	1993-2000	0.62	M-v	1	Williams	26926	1993 FX ₂₅
1993 FS ₂₆	13.7	0.15	20000226	290.28478	287.97224	285.80419	2.60516	0.0853891	2.3973643	117	4	1993-2000	0.62	M-v	3	Williams	38760	1993 FS ₂₆
1993 FY ₂₇	14.5	0.15	20000226	238.91037	21.33370	295.72557	1.93436	0.1704207	2.3032895	28	5	1987-2000	0.78	M-v	2	Williams	33548	1993 FY ₂₇
1993 FG ₂₈	14.9	0.15	20000226	181.23105	88.93051	239.12394	2.42217	0.2111381	2.4125367	30	4	1993-2000	0.73	M-v	2	Williams	35687	1993 FG ₂₈
1993 FX ₂₉	14.9	0.15	20000226	317.50918	309.12467	249.36389	4.25311	0.0477579	2.3567754	27	3	1993-2000	0.63	M-v	4	Williams	38760	1993 FX ₂₉
1993 FO ₃₁	16.2	0.15	20000226	260.14835	257.97921	27.99738	2.94753	0.0762978	2.3172312	22	3	1993-2000	0.63	M-v	5	Williams	27915	1993 FO ₃₁
1993 FS ₃₁	14.2	0.15	20000226	214.11306	240.69413	51.88206	4.62327	0.0746400	2.4052923	82	3	1993-2000	0.68	M-v	3	Williams	38760	1993 FS ₃₁
1993 FC ₃₃	15.9	0.15	20000226	292.64541	94.43588	131.03899	3.17098	0.1218448	2.3742929	23	2	1993-2000	0.58	M-v	5	Williams	38443	1993 FC ₃₃
1993 FQ ₃₅	14.5	0.15	20000226	82.84682	357.12023	37.92183	3.42794	0.1889076	2.4349128	33	2	1993-2000	0.61	M-v	4	Williams	38760	1993 FQ ₃₅
1993 FZ ₄₀	14.2	0.15	20000226	203.28667	311.64807	42.54760	3.74712	0.1625824	2.2808027	34	4	1993-2000	0.73	M-v	2	Williams	33746	1993 FZ ₄₀
1993 FW ₄₁	15.3	0.15	20000226	196.99427	317.58325	5.41445	3.67685	0.0637525	2.3600913	69	3	1993-2000	0.72	M-v	4	Williams	38760	1993 FW ₄₁
1993 FT ₄₂	14.6	0.15	20000226	14.08939	81.13661	29.05251	2.39245	0.1676916	2.3913043	56	3	1993-2000	0.51	M-v	3	Williams	38760	1993 FT ₄₂
1993 FA ₄₅	14.7	0.15	20000226	267.27750	269.11093	10.51176	4.46311	0.2681547	2.3509342	26	3	1990-2000	0.43	M-v	3	Williams	38760	1993 FA ₄₅
1993 FS ₄₆	15.0	0.15	20000226	48.22863	288.72719	180.34791	5.22609	0.0916095	2.3244274	59	3	1993-2000	0.73	M-v	3	Williams	38760	1993 FS ₄₆
1993 FG ₅₀	15.3	0.15	20000226	260.69372	298.24315	322.82289	1.94891	0.1425169	2.3736390	40	2	1993-2000	0.58	M-v	4	Williams	38444	1993 FG ₅₀
1993 FS ₅₀	15.2	0.15	20000226	217.55049	314.98762	338.26544	2.09787	0.1217454	2.3961588	32	5	1979-2000	0.66	M-v	2	Williams	33071	1993 FS ₅₀
1993 FV ₅₀	15.6	0.15	20000226	1.97446	262.03477	234.11600	1.43045	0.1619262	2.3640985	68	2	1993-2000	0.54	M-v	3	Williams	38760	1993 FV ₅₀
1993 FR ₅₂	16.4	0.15	20000226	351.22516	4.74573	153.85322	4.09228	0.2100644	2.3430901	43	3	1993-2000	0.53	M-v	3	Williams	38760	1993 FR ₅₂
1993 FA ₅₃	15.6	0.15	20000226	297.48305	69.68235	159.30252	5.04297	0.1480558	2.3519384	33	2	1993-2000	0.62	M-v	4	Williams	38444	1993 FA ₅₃
1993 FL ₅₄	14.1	0.15	20000226	297.49901	254.92906	11.26325	21.35205	0.3276368	2.3257892	35	3	1990-2000	0.62	M-v	3	Williams	38760	1993 FL ₅₄
1993 FT ₅₆	14.7	0.15	20000226	298.10965	115.83545	125.67689	4.98991	0.1195768	2.3278185	30	2	1993-2000	0.47	M-v	5	Williams	38444	1993 FT ₅₆
1993 GA	15.2	0.15	20000226	252.63981	258.85485	15.34868	6.51607	0.1196506	2.3729369	32	4	1971-2000	0.51	M-v	1	Williams	24231	1993 GA
1993 GB	13.7	0.15	20000226	293.40051	171.99634	25.37347	9.83646	0.1908365	2.4404832	72	3	1993-2000	0.72	M-v	3	Williams	38761	1993 GB
1993 GA ₁	14.4	0.15	20000226	151.36823	14.20205	7.60460	7.12041	0.1183958	2.3123931	74	4	1993-2000	0.68	M-v	2	Williams	33746	1993 GA ₁

1993 HX	13.8	0.15	20000226	235.12899	145.15826	133.70931	3.05083	0.0457797	2.4080559	125	3	1993-2000	0.65	M-v	1	Williams	38761	1993 HX
1993 HC ₁	14.6	0.15	20000226	4.62365	158.44795	20.12416	26.61208	0.1900080	2.2934241	27	6	1976-2000	0.59	M-v	2	Williams	38761	1993 HC ₁
1993 HH ₁	14.4	0.15	20000226	341.95451	294.41764	292.51667	0.76072	0.1660733	2.2907229	34	4	1993-2000	0.68	M-v	2	Williams	33549	1993 HH ₁
1993 HW ₁	13.4	0.15	20000226	319.21721	176.64709	76.02217	12.51745	0.2053852	2.2990389	43	5	1989-2000	0.62	M-v	2	Williams	38761	1993 HW ₁
1993 HL ₃	15.2	0.15	20000226	60.89799	302.53459	124.53805	3.31657	0.1501575	2.3984964	62	4	1989-2000	0.59	M-v	1	Williams	38761	1993 HL ₃
1993 KX ₁	13.0	0.15	20000226	290.23954	191.47512	93.77178	25.62417	0.2006304	2.3430411	38	3	1993-2000	0.64	M-v	3	Williams	38761	1993 KX ₁
1993 KZ ₁	13.2	0.15	20000226	307.77616	169.26103	89.94626	25.56312	0.2007130	2.3474364	60	4	1993-2000	0.82	M-v	3	Williams	38761	1993 KZ ₁
1993 LF	12.2	0.15	20000226	205.06860	183.49996	119.55685	15.58925	0.1097639	2.5526650	75	3	1993-2000	0.55	M-v	2	Williams	38761	1993 LF
1993 MB ₁	12.5	0.15	20000226	232.99069	121.05060	131.78888	13.59370	0.1418518	2.5683193	54	3	1993-2000	0.43	M-v	2	Williams	38445	1993 MB ₁
1993 OC ₂	13.9	0.15	20000226	276.61363	225.01806	334.70089	18.40303	0.0541495	1.9340974	54	3	1993-2000	0.62	M-v	3	Williams	38761	1993 OC ₂
1993 OD ₂	12.8	0.15	20000226	215.61962	169.91976	140.16288	16.09136	0.2317541	2.5944564	65	3	1993-2000	0.52	M-v	2	Williams	38761	1993 OD ₂
1993 OX ₂	15.3	0.15	20000226	144.45810	214.56988	145.00134	5.87314	0.1743620	2.7640847	40	3	1979-2000	0.63	M-v	3	Williams	38029	1993 OX ₂
1993 OY ₂	14.6	0.15	20000226	223.67093	317.49171	352.37326	17.20695	0.2041640	2.6123368	79	4	1993-2000	0.56	M-v	2	Williams	33549	1993 OY ₂
1993 OP ₃	14.1	0.15	20000226	80.81533	137.48923	314.84452	4.06366	0.1062581	2.5307502	60	4	1986-2000	0.75	M-v	1	Williams	35688	1993 OP ₃
1993 OM ₇	17.6	0.15	20000226	354.90610	195.35418	297.66460	24.15181	0.1897676	1.2825356	75	2	1993-2000	0.63	M-v	3	Williams	38445	1993 OM ₇
1993 OS ₁₂	14.5	0.15	20000226	292.19116	124.29464	137.92104	3.26849	0.1657347	2.4243245	61	6	1993-2000	0.80	M-v	1	Williams	35688	1993 OS ₁₂
1993 OY ₁₂	13.4	0.15	20000226	274.28853	301.25799	286.83458	13.76314	0.0764559	2.5694462	58	2	1993-2000	0.64	M-v	4	Williams	38761	1993 OY ₁₂
1993 QA ₁	13.7	0.15	20000226	144.20655	246.36086	125.89533	11.23049	0.2326022	2.6860443	28	3	1993-2000	0.61	M-v	3	Williams	35688	1993 QA ₁
1993 QV ₁	14.0	0.15	20000226	154.64733	157.46635	205.09255	1.77683	0.0982434	2.6836991	48	3	1993-2000	0.69	M-v	4	Williams	38761	1993 QV ₁
1993 QN ₃	13.5	0.15	20000226	212.43207	133.66895	159.88386	4.82765	0.0575534	2.6993799	78	3	1993-2000	0.53	M-v	2	Williams	38761	1993 QN ₃
1993 QM ₄	14.2	0.15	20000226	84.82903	72.58547	10.90548	1.96343	0.0591349	2.6702390	54	4	1993-2000	0.68	M-v	2	Williams	38761	1993 QM ₄
1993 QU ₄	13.9	0.15	20000226	241.59985	152.32217	159.54959	11.12239	0.1120950	2.5490120	36	4	1989-2000	0.56	M-v	3	Williams	35688	1993 QU ₄
1993 QP ₉	14.7	0.15	20000226	102.74281	255.01150	134.31110	5.20561	0.0778251	2.7952444	46	3	1993-2000	0.68	M-v	4	Williams	38761	1993 QP ₉
1993 RK	13.7	0.15	20000226	200.13766	11.38487	343.98680	12.31821	0.2661799	2.5836456	45	4	1993-2000	0.82	M-v	2	Williams	34010	1993 RK
1993 RS	14.0	0.15	20000226	144.81324	45.57194	351.61681	22.48389	0.0475112	1.8834165	42	3	1993-2000	0.66	M-v	2	Williams	38761	1993 RS
1993 RD ₂	12.9	0.15	20000226	217.43227	152.72236	174.81039	15.33138	0.1238828	2.6053987	63	3	1993-2000	0.58	M-v	2	Williams	38761	1993 RD ₂
1993 RH ₂	14.2	0.15	20000226	221.89944	349.20961	3.39554	14.11410	0.2010258	2.5321216	44	6	1985-2000	0.84	M-v	2	Williams	34010	1993 RH ₂
1993 RA ₃	13.1	0.15	20000226	199.04328	99.85397	203.56109	12.22717	0.1709100	2.6833861	37	3	1993-2000	0.72	M-v	3	Williams	38761	1993 RA ₃
1993 RP ₃	13.4	0.15	20000226	110.97690	165.32195	262.67649	12.09968	0.2487267	2.6569076	51	5	1985-2000	0.76	M-v	1	Williams	33746	1993 RP ₃
1993 RV ₇	13.9	0.15	20000226	245.33920	308.58997	357.80242	5.79940	0.0922907	2.5904745	35	4	1993-2000	0.70	M-v	1	Williams	33747	1993 RV ₇
1993 RB ₁₁	13.8	0.15	20000226	102.24519	226.69919	178.54784	8.93920	0.1545771	2.7824234	44	4	1993-2000	0.76	M-v	2	Williams	34503	1993 RB ₁₁
1993 SG ₁	13.7	0.15	20000226	203.55673	175.47250	174.75437	13.86256	0.2917320	2.5835811	66	5	1989-2000	0.66	M-v	2	Williams	34010	1993 SG ₁
1993 SN ₇	13.7	0.15	20000226	8.36138	113.64332	318.90455	1.22522	0.1342882	3.1276810	76	3	1993-2000	0.59	M-v	2	Williams	38761	1993 SN ₇
1993 TJ	13.0	0.15	20000226	278.35036	317.09195	205.83931	9.65610	0.0481378	3.0193946	92	3	1993-2000	0.63	M-v	3	Williams	38030	1993 TJ
1993 TH ₄	13.9	0.15	20000226	133.67131	36.86910	350.64045	3.34183	0.1044843	2.7723838	33	3	1993-2000	0.60	M-v	5	Williams	33486	1993 TH ₄
1993 TW ₈	13.5	0.15	20000226	178.19231	354.58281	17.98752	14.50610	0.2548124	2.6645571	31	3	1993-2000	0.69	M-v	3	Williams	35688	1993 TW ₈
1993 TV ₁₂	13.2	0.15	20000226	75.47682	47.13493	43.03833	9.67352	0.1407383	2.7979057	73	3	1993-2000	0.66	M-v	2	Williams	38030	1993 TV ₁₂
1993 TO ₁₅	14.4	0.15	20000226	121.67967	204.82474	195.89598	2.18339	0.0821299	2.7605001	36	6	1988-2000	0.59	M-v	1	Williams	34503	1993 TO ₁₅
1993 TL ₁₇	14.3	0.15	20000226	357.63817	357.62118	183.70804	9.66869	0.1701474	2.7105298	45	5	1991-2000	0.77	M-v	2	Williams	38761	1993 TL ₁₇
1993 TH ₂₄	14.1	0.15	20000226	137.52004	289.69632	63.76384	3.17543	0.0575253	2.8630214	31	3	1993-2000	0.74	M-v	5	Williams	38761	1993 TH ₂₄
1993 TM ₂₄	14.3	0.15	20000226	93.99123	348.52857	56.89542	4.62410	0.1825656	2.8761206	73	4	1993-2000	0.59	M-v	2	Williams	38761	1993 TM ₂₄
1993 TK ₂₅	15.1	0.15	20000226	187.63842	139.86297	179.38301	3.29948	0.0956006	2.7831215	43	5	1993-2000	0.67	M-v	1	Williams	35689	1993 TK ₂₅
1993 TL ₂₅	14.8	0.15	20000226	313.15434	150.32129	111.96153	3.20573	0.1079889	2.5447788	46	6	1993-2000	0.68	M-v	1	Williams	34581	1993 TL ₂₅
1993 TL ₂₈	14.1	0.15	20000226	359.09492	357.52063	122.38645	2.41117	0.1632478	3.0231515	41	3	1993-2000	0.65	M-v	4	Williams	38762	1993 TL ₂₈
1993 TM ₃₁	13.9	0.15	20000226	58.91515	316.33585	115.20089	3.04294	0.0335864	2.9072413	77	3	1993-2000	0.75	M-v	2	Williams	38762	1993 TM ₃₁
1993 TL ₃₂	14.4	0.15	20000226	176.75462	250.84003	114.91248	2.67068	0.0892623	2.6886889	26	4	1993-2000	0.70	M-v	3	Williams	34010	1993 TL ₃₂
1993 TK ₃₃	14.3	0.15	20000226	160.50195	304.69825	70.41053	5.06045	0.1053307	2.7172205	26	5	1975-2000	0.60	M-v	1	Williams	33550	1993 TK ₃₃
1993 TW ₃₃	13.8	0.15	20000226	188.16765	236.95297	99.46747	5.23765	0.0521435	2.7480008	23	3	1993-2000	0.61	M-v	3	Williams	33550	1993 TW ₃₃
1993 TD ₃₇	13.3	0.15	20000226	37.27490	230.74446	163.10003	8.26656	0.0392745	3.1890966	41	3	1993-2000	0.78	M-v	2	Williams	38030	1993 TD ₃₇
1993 TL ₃₈	14.1	0.15	20000226	115.04746	347.58597	72.72585	6.25223	0.1545138	2.7637087	27	3	1993-2000	0.71	M-v	4	Williams	33686	1993 TL ₃₈
1993 TJ ₃₉	13.9	0.15	20000226	54.54020	33.88458	87.78329	7.59267	0.0637825	2.7584189	23	3	1993-2000	0.74	M-v	3	Williams	34581	1993 TJ ₃₉
1993 UK	12.7	0.15	20000226	164.93383	254.92415	80.70233	3.32547	0.0667387	2.8536103	115	3	1993-2000	0.71	M-v	3	Williams	38762	1993 UK
1993 UZ ₇	13.1	0.15	20000226	36.24161	264.38269	144.16190	7.32484	0.1418894	3.1605190	88	3	1993-2000	0.72	M-v	2	Williams	38762	1993 UZ ₇

1993 VT	14.4	0.15	20000226	228.34943	268.53416	64.04697	12.11021	0.2141818	2.6402890	42	5	1993-2000	0.79	M-v	2	Williams	34010	1993 VT
1993 VU ₁	13.2	0.15	20000226	123.39926	113.91417	243.33362	10.28362	0.1623104	2.9607114	45	4	1976-2000	0.47	M-v	2	Williams	38762	1993 VU ₁
1993 VH ₅	14.0	0.15	20000226	143.70750	228.86144	124.48383	3.98056	0.2126550	2.8340057	50	4	1993-2000	0.72	M-v	2	Williams	38762	1993 VH ₅
1993 VV ₇	13.6	0.15	20000226	136.52336	301.13300	110.47089	33.51539	0.3340141	2.7389924	60	4	1993-2000	0.61	M-v	2	Williams	34290	1993 VV ₇
1993 XQ	13.1	0.15	20000226	115.78503	179.96316	223.16280	1.19106	0.0965058	2.9272851	43	3	1993-2000	0.61	M-v	5	Williams	33687	1993 XQ
1993 XW ₂	12.8	0.15	20000226	228.72866	225.71335	129.36924	13.69339	0.1883618	2.6901273	41	5	1982-2000	0.63	M-v	2	Williams	35689	1993 XW ₂
1994 AM	12.9	0.15	20000226	292.44864	313.80914	277.32975	14.64296	0.2031343	3.1243035	54	3	1994-2000	0.61	M-v	3	Williams	38762	1994 AM
1994 AF ₃	12.7	0.15	20000226	83.34727	155.85776	284.76060	11.48058	0.1849019	3.0535193	42	4	1989-2000	0.75	M-v	2	Williams	38762	1994 AF ₃
1994 AN ₉	12.5	0.15	20000226	87.88124	326.18814	113.12004	25.42179	0.0719454	3.0500118	47	3	1994-2000	0.70	M-v	3	Williams	38031	1994 AN ₉
1994 AN ₁₅	13.4	0.15	20000226	146.14722	70.68643	307.22138	8.00106	0.1757408	3.0038252	33	3	1994-2000	0.82	M-v	4	Williams	33747	1994 AN ₁₅
1994 CN	13.1	0.15	20000226	124.28116	20.33472	46.85658	9.79083	0.0508468	2.9861752	45	5	1973-2000	0.75	M-v	1	Williams	35690	1994 CN
1994 CF ₂	12.9	0.15	20000226	48.73796	357.16926	122.28892	2.24403	0.1553813	3.1771164	57	5	1971-2000	0.66	M-v	1	Williams	38031	1994 CF ₂
1994 CN ₂	16.6	0.15	20000226	164.57233	248.14922	99.37544	1.43826	0.3949977	1.5731738	118	4	1994-2000	0.51	M-v	4	Williams	31586	1994 CN ₂
1994 CX ₁₀	13.9	0.15	20000226	321.17401	132.56298	105.63758	2.54456	0.1376289	3.1527485	33	5	1994-2000	0.83	M-v	1	Williams	36070	1994 CX ₁₀
1994 CQ ₁₃	12.5	0.15	20000226	219.38871	285.56301	49.46307	5.89726	0.1483385	3.1446981	47	4	1994-2000	0.81	M-v	1	Williams	35690	1994 CQ ₁₃
1994 EW	17.3	0.15	20000226	206.63540	60.20711	246.73616	0.26275	0.1982287	2.1315301	42	3	1994-2000	0.49	M-v	5	Williams	38762	1994 EW
1994 EL ₁	13.9	0.15	20000226	39.94479	317.14644	112.78996	4.93123	0.1381320	2.1884531	81	3	1994-2000	0.62	M-v	2	Williams	38762	1994 EL ₁
1994 GN	14.0	0.15	20000226	189.07229	203.46828	71.99119	5.54966	0.1407888	2.2681556	61	4	1994-2000	0.67	M-v	3	Williams	38762	1994 GN
1994 GB ₁	13.4	0.15	20000226	204.16764	238.23058	40.38542	5.52002	0.1978570	2.2700005	80	3	1994-2000	0.61	M-v	3	Williams	38762	1994 GB ₁
1994 GU ₉	13.3	0.15	20000226	191.87885	124.40262	125.70691	21.96319	0.1220142	2.3002631	65	4	1990-2000	0.62	M-v	2	Williams	38762	1994 GU ₉
1994 JS	7.8	0.15	20000226	328.43716	238.45502	56.36069	14.08249	0.2144685	41.9866998	44	5	1994-1999	0.52	M-v	3	Williams	32307	1994 JS
1994 JQ ₁	6.9	0.15	20000226	298.33811	257.67328	25.66903	3.75415	0.0465800	43.7940305	40	5	1994-1999	0.45	M-v	4	Williams	32307	1994 JQ ₁
1994 JR ₁	7.7	0.15	20000226	5.32827	102.80918	144.81367	3.80197	0.1127627	39.1679117	41	5	1994-1999	0.45	M-v	3	Marsden	34582	1994 JR ₁
1994 NQ	13.6	0.15	20000226	170.92528	238.04240	104.22870	24.08360	0.2771069	2.3589482	26	3	1994-2000	0.68	M-v	3	Williams	38762	1994 NQ
1994 PG	13.9	0.15	20000226	336.19441	14.48943	157.69899	12.45398	0.0925162	2.3919110	98	3	1994-2000	0.57	M-v	3	Williams	38762	1994 PG
1994 PH	14.7	0.15	20000226	188.82129	334.98835	352.72871	4.64788	0.1953313	2.3477070	45	3	1994-2000	0.71	M-v	3	Williams	38762	1994 PH
1994 PL ₁	14.9	0.15	20000226	241.90479	117.84492	147.25880	22.04096	0.1642404	2.2635589	26	2	1994-2000	0.61	M-v	3	Williams	38762	1994 PL ₁
1994 PN ₁	12.8	0.15	20000226	18.26720	307.36431	108.96124	24.65481	0.1964464	2.7923824	55	3	1994-2000	0.60	M-v	2	Williams	38762	1994 PN ₁
1994 PU ₁	14.0	0.15	20000226	185.33481	204.72221	159.68751	6.43310	0.2176184	2.2940994	36	4	1993-2000	0.70	M-v	2	Williams	35690	1994 PU ₁
1994 PF ₂	15.3	0.15	20000226	171.18555	171.26495	155.77393	1.53202	0.2459918	2.4193030	43	4	1994-2000	0.81	M-v	2	Williams	38762	1994 PF ₂
1994 PB ₃	14.8	0.15	20000226	44.61028	301.22729	158.17276	6.10371	0.0950557	2.4314125	75	3	1994-2000	0.61	M-v	3	Williams	38762	1994 PB ₃
1994 PL ₄	14.3	0.15	20000226	183.36626	153.37261	152.34790	8.66858	0.1321648	2.4308491	73	3	1994-2000	0.70	M-v	3	Williams	38763	1994 PL ₄
1994 PF ₅	14.8	0.15	20000226	213.73881	161.26684	150.34881	6.47035	0.1266236	2.3298085	44	3	1994-2000	0.64	M-v	3	Williams	38763	1994 PF ₅
1994 PD ₈	15.0	0.15	20000226	133.27294	55.63380	330.12547	5.30619	0.1323729	2.3974008	42	4	1994-2000	0.56	M-v	2	Williams	35690	1994 PD ₈
1994 PK ₈	14.6	0.15	20000226	262.68498	350.12938	258.05509	1.02999	0.1540319	2.3378427	74	3	1994-2000	0.75	M-v	3	Williams	38763	1994 PK ₈
1994 PQ ₈	16.1	0.15	20000226	195.21987	7.96447	306.68806	0.88570	0.1908497	2.3722522	26	2	1994-2000	0.57	M-v	4	Williams	38447	1994 PQ ₈
1994 PS ₁₀	15.5	0.15	20000226	169.61162	16.05408	327.48532	2.23261	0.1922770	2.3920865	46	4	1993-2000	0.58	M-v	2	Marsden	38763	1994 PS ₁₀
1994 PF ₁₁	15.0	0.15	20000226	307.42307	262.04204	313.82322	2.33461	0.0563597	2.3391060	31	3	1994-2000	0.72	M-v	4	Williams	33550	1994 PF ₁₁
1994 PG ₁₁	14.9	0.15	20000226	164.89593	189.45089	171.10363	1.28698	0.2295478	2.3774578	41	3	1994-2000	0.89	M-v	4	Williams	34582	1994 PG ₁₁
1994 PL ₁₁	14.5	0.15	20000226	185.60794	13.19287	302.69022	5.34756	0.1091357	2.4105798	56	4	1993-2000	0.73	M-v	3	Williams	38763	1994 PL ₁₁
1994 PL ₁₂	14.3	0.15	20000226	328.00449	268.30203	260.67644	1.48520	0.1341819	2.4263104	58	3	1994-2000	0.71	M-v	3	Williams	38763	1994 PL ₁₂
1994 PK ₁₅	14.2	0.15	20000226	289.08735	303.58142	294.55750	3.26405	0.1373649	2.3073458	56	3	1987-2000	0.55	M-v	2	Williams	38448	1994 PK ₁₅
1994 PQ ₁₅	14.2	0.15	20000226	185.28551	5.80601	312.21795	3.03008	0.2272983	2.3975735	69	5	1992-2000	0.60	M-v	2	Williams	38763	1994 PQ ₁₅
1994 PP ₁₇	15.6	0.15	20000226	128.51225	118.64297	266.62308	0.92859	0.2115474	2.4404029	48	3	1994-2000	0.73	M-v	3	Williams	33340	1994 PP ₁₇
1994 PG ₁₈	13.9	0.15	20000226	333.96742	2.81753	157.19210	6.42790	0.0658658	2.4539507	96	3	1994-2000	0.67	M-v	3	Williams	38763	1994 PG ₁₈
1994 PV ₁₉	14.8	0.15	20000226	75.99211	162.33035	290.17137	1.19855	0.1713127	2.4110659	65	4	1991-2000	0.68	M-v	2	Williams	35691	1994 PV ₁₉
1994 PE ₂₀	15.9	0.15	20000226	146.42775	69.96225	279.57526	1.24823	0.2115247	2.4611054	43	3	1994-2000	0.63	M-v	3	Williams	38763	1994 PE ₂₀
1994 PT ₂₀	15.4	0.15	20000226	100.53585	73.20036	314.70276	1.80045	0.2209152	2.5317862	47	3	1994-2000	0.79	M-v	3	Williams	38032	1994 PT ₂₀
1994 PX ₂₀	15.2	0.15	20000226	245.55653	286.60068	341.04378	1.75965	0.1049283	2.3643766	49	3	1994-2000	0.65	M-v	3	Williams	38763	1994 PX ₂₀
1994 PO ₂₂	14.3	0.15	20000226	190.45761	339.07810	346.05396	6.66168	0.1711746	2.3766680	61	3	1994-2000	0.63	M-v	3	Williams	38448	1994 PO ₂₂
1994 PZ ₂₂	15.9	0.15	20000226	105.66136	225.92701	197.59518	0.44265	0.0770206	2.3813481	34	4	1994-2000	0.61	M-v	1	Williams	33243	1994 PZ ₂₂
1994 PL ₂₃	14.6	0.15	20000226	32.97379	59.46565	36.23906	1.22695	0.1488585	2.5362836	122	5	1988-2000	0.69	M-v	2	Williams	38763	1994 PL ₂₃
1994 PG ₂₄	14.9	0.15	20000226	76.25127	304.92263	139.57384	1.77257	0.1505967	2.4020626	66	4	1994-2000	0.75	M-v	1	Williams	35691	1994 PG ₂₄

1994 PF ₂₅	15.5	0.15	20000226	150.93464	256.11237	85.08992	2.26237	0.1952915	2.4480026	46	3	1994-2000	0.83	M-v	4	Williams	32939	1994 PF ₂₅
1994 PW ₂₆	14.1	0.15	20000226	23.21657	261.66230	143.66616	9.22737	0.2603234	2.7739916	57	3	1994-2000	0.78	M-v	2	Williams	38763	1994 PW ₂₆
1994 PS ₂₇	15.7	0.15	20000226	102.50897	353.67376	67.25707	2.31071	0.1217159	2.3893430	21	3	1994-2000	0.62	M-v	4	Williams	33340	1994 PS ₂₇
1994 PE ₂₉	16.4	0.15	20000226	148.56766	298.30547	82.63585	1.57652	0.2130530	2.3807923	41	3	1994-2000	0.73	M-v	3	Williams	34582	1994 PE ₂₉
1994 PU ₃₂	14.7	0.15	20000226	257.03196	79.82275	209.72653	4.43900	0.0336334	2.2932536	36	4	1993-2000	0.77	M-v	1	Williams	35691	1994 PU ₃₂
1994 PE ₃₃	13.7	0.15	20000226	14.88777	253.62916	293.42444	3.94814	0.0863634	2.2485345	53	4	1994-2000	0.78	M-v	1	Williams	35691	1994 PE ₃₃
1994 PE ₃₅	15.0	0.15	20000226	122.49297	234.85376	172.93716	3.12160	0.1598860	2.3714379	37	3	1994-2000	0.81	M-v	4	Williams	34291	1994 PE ₃₅
1994 PF ₃₇	14.3	0.15	20000226	1.87822	332.61861	157.89265	5.85657	0.0903253	2.4460554	40	2	1994-2000	0.65	M-v	4	Williams	38763	1994 PF ₃₇
1994 PK ₃₇	14.5	0.15	20000226	307.53170	254.58424	296.69212	4.01346	0.1624995	2.3754846	57	2	1994-2000	0.62	M-v	4	Williams	38763	1994 PK ₃₇
1994 PN ₃₇	14.5	0.15	20000226	225.46006	126.35934	157.42855	6.09487	0.1843783	2.3432895	38	3	1994-2000	0.74	M-v	3	Williams	38763	1994 PN ₃₇
1994 PU ₃₇	14.9	0.15	20000226	81.09634	241.47752	158.06368	3.05281	0.1614728	2.5272938	62	3	1994-2000	0.68	M-v	3	Williams	38763	1994 PU ₃₇
1994 PO ₃₉	15.8	0.15	20000226	125.65092	63.18542	315.68586	2.02273	0.1624696	2.4393819	42	4	1992-2000	0.77	M-v	2	Williams	35691	1994 PO ₃₉
1994 QC	18.6	0.15	20000226	281.65201	94.19793	162.58942	13.87147	0.1180938	1.3244523	281	3	1994-2000	0.60	M-v	2	Williams	38032	1994 QC
1994 QN	14.0	0.15	20000226	175.76245	293.87845	67.19224	23.55752	0.2801582	2.3341092	30	3	1994-2000	0.55	M-v	3	Williams	33487	1994 QN
1994 QV	13.2	0.15	20000226	88.87696	6.21668	354.02559	13.66733	0.2890381	2.6437534	66	5	1971-2000	0.63	M-v	2	Williams	38763	1994 QV
1994 RO	16.9	0.15	20000226	115.53900	171.18092	226.32880	1.29200	0.1991371	2.4473678	32	3	1994-2000	0.87	M-v	4	Williams	33340	1994 RO
1994 RL ₁	14.2	0.15	20000226	136.93683	153.75046	188.39470	12.94248	0.2085929	2.5439212	91	5	1986-2000	0.66	M-v	2	Williams	38763	1994 RL ₁
1994 RY ₁	13.5	0.15	20000226	95.41727	180.72602	169.77027	16.42661	0.2894734	2.6267093	49	3	1994-2000	0.73	M-v	2	Williams	38763	1994 RY ₁
1994 RH ₉	14.5	0.15	20000226	175.04555	340.30857	353.49549	9.88337	0.3473912	2.4097505	50	5	1979-2000	0.57	M-v	2	Williams	33551	1994 RH ₉
1994 RK ₁₁	14.5	0.15	20000226	163.09322	68.52847	297.33703	1.24659	0.2305727	2.3865277	39	5	1972-2000	0.67	M-v	1	Williams	35691	1994 RK ₁₁
1994 RN ₁₂	14.0	0.15	20000226	222.37444	166.67358	157.66404	4.96251	0.1713564	2.2756060	49	4	1991-2000	0.81	M-v	2	Williams	38763	1994 RN ₁₂
1994 SC ₆	16.2	0.15	20000226	88.62997	246.16951	168.37983	3.13441	0.2100588	2.5480385	32	3	1994-2000	0.60	M-v	4	Williams	35691	1994 SC ₆
1994 TE	15.0	0.15	20000226	118.62931	258.55713	165.42143	3.25800	0.0696065	2.3627160	59	4	1993-2000	0.72	M-v	2	Williams	35691	1994 TE
1994 TJ	14.8	0.15	20000226	158.67703	0.84482	345.64969	5.60559	0.0933123	2.4798680	66	3	1994-2000	0.66	M-v	3	Williams	38763	1994 TJ
1994 TT	14.1	0.15	20000226	109.96885	33.07787	358.37238	5.94600	0.2334470	2.5455739	87	5	1990-2000	0.66	M-v	2	Williams	38763	1994 TT
1994 TW	14.5	0.15	20000226	124.12943	351.73295	20.62383	13.81413	0.1776415	2.5312622	54	3	1994-2000	0.66	M-v	3	Williams	33551	1994 TW
1994 TJ ₂	14.6	0.15	20000226	199.50709	189.82071	160.28895	4.89293	0.1631343	2.3422940	27	3	1994-2000	0.78	M-v	4	Williams	33689	1994 TJ ₂
1994 TU ₂	15.2	0.15	20000226	186.41473	149.26351	200.16424	3.18200	0.2564869	2.3789309	34	5	1994-2000	0.78	M-v	2	Williams	33551	1994 TU ₂
1994 TB ₃	13.4	0.15	20000226	100.31375	12.39332	14.62442	14.60100	0.1501759	2.6003329	66	3	1994-2000	0.65	M-v	2	Williams	38763	1994 TB ₃
1994 TQ ₃	12.7	0.15	20000226	159.46345	322.63317	19.46524	12.91024	0.1207667	2.5323502	76	5	1970-2000	0.69	M-v	3	Williams	38763	1994 TQ ₃
1994 TF ₁₅	14.1	0.15	20000226	258.83719	3.21934	316.75935	2.54519	0.2225303	2.2312026	40	5	1994-2000	0.68	M-v	2	Williams	38764	1994 TF ₁₅
1994 TH ₁₅	14.6	0.15	20000226	61.09259	183.01900	210.15331	10.35354	0.3603136	2.7355829	77	2	1994-2000	0.66	M-v	3	Williams	38764	1994 TH ₁₅
1994 TO ₁₅	13.9	0.15	20000226	286.04728	204.16133	22.61722	8.31771	0.2456654	2.4410674	60	6	1989-2000	0.69	M-v	2	Williams	38764	1994 TO ₁₅
1994 TQ ₁₆	15.0	0.15	20000226	215.38961	301.55796	33.27766	7.07402	0.1402375	2.3489524	21	4	1976-2000	0.43	M-v	2	Williams	38764	1994 TQ ₁₆
1994 UF	14.9	0.15	20000226	155.18923	176.34670	191.20524	13.03701	0.2879920	2.4285456	39	4	1994-2000	0.60	M-v	2	Williams	33551	1994 UF
1994 UW	14.6	0.15	20000226	173.68901	359.53597	13.20891	6.27678	0.1508294	2.3955491	40	6	1953-2000	0.66	M-v	2	Williams	33748	1994 UW
1994 UY	14.1	0.15	20000226	138.25107	48.99703	318.58700	2.88753	0.1735638	2.5227292	102	5	1950-2000	0.57	M-v	3	Williams	38764	1994 UY
1994 UU ₁	14.7	0.15	20000226	255.07126	279.70166	37.29184	5.02536	0.2022475	2.2552167	26	3	1994-2000	0.67	M-v	4	Williams	34011	1994 UU ₁
1994 UQ ₇	15.9	0.15	20000226	287.29346	213.88727	5.54871	5.77827	0.0395811	2.5375636	25	3	1994-2000	0.60	M-v	4	Williams	35692	1994 UQ ₇
1994 VF	14.8	0.15	20000226	147.22511	68.81496	292.70922	1.79152	0.1796679	2.5212192	53	4	1982-2000	0.68	M-v	3	Williams	35692	1994 VF
1994 VH	14.2	0.15	20000226	136.47411	332.13092	32.30458	7.56716	0.2688857	2.5344936	100	6	1986-2000	0.60	M-v	2	Williams	34582	1994 VH
1994 VJ	14.8	0.15	20000226	158.34417	76.93845	302.19613	1.32072	0.1830585	2.4374517	37	3	1994-2000	0.71	M-v	4	Williams	35692	1994 VJ
1994 VU	14.5	0.15	20000226	123.32768	352.19540	56.98011	13.31025	0.1140707	2.5265691	41	3	1994-2000	0.56	M-v	2	Williams	35692	1994 VU
1994 VE ₁	13.4	0.15	20000226	144.24450	192.07923	170.47171	2.44563	0.1612806	2.5518276	109	3	1994-2000	0.55	M-v	3	Williams	38764	1994 VE ₁
1994 VH ₁	13.6	0.15	20000226	3.69373	54.28467	87.12636	4.10959	0.0596779	2.6347466	131	3	1994-2000	0.59	M-v	2	Williams	38764	1994 VH ₁
1994 VA ₂	13.6	0.15	20000226	120.07503	324.34187	71.38312	14.03079	0.1655114	2.5319375	45	4	1978-2000	0.65	M-v	3	Williams	38764	1994 VA ₂
1994 VH ₂	13.8	0.15	20000226	49.99889	62.59860	49.21121	15.90058	0.0582174	2.5902402	55	3	1994-2000	0.47	M-v	2	Williams	38764	1994 VH ₂
1994 VR ₂	13.0	0.15	20000226	353.78722	123.85716	42.44134	12.91443	0.0946661	2.5458993	63	3	1994-2000	0.77	M-v	3	Williams	38764	1994 VR ₂
1994 VY ₂	14.5	0.15	20000226	66.48661	173.99996	258.38493	5.63621	0.3556508	2.6771470	44	5	1972-2000	0.74	M-v	1	Williams	34508	1994 VY ₂
1994 VU ₆	13.5	0.15	20000226	119.97257	144.25950	209.77713	13.05111	0.2123461	2.6357395	85	3	1994-2000	0.78	M-v	2	Williams	38764	1994 VU ₆
1994 VZ ₆	15.5	0.15	20000226	102.53646	156.51018	235.85574	3.92796	0.2774768	2.5946509	55	3	1994-2000	0.75	M-v	3	Williams	33073	1994 VZ ₆
1994 VL ₇	14.0	0.15	20000226	198.73617	117.52045	229.32303	1.19514	0.2370025	2.3747902	44	3	1994-2000	0.67	M-v	3	Williams	35692	1994 VL ₇
1994 WC	14.5	0.15	20000226	180.10444	303.82726	38.81838	11.44467	0.3300935	2.4197442	33	6	1990-2000	0.68	M-v	2	Williams	33552	1994 WC

1994 WJ	14.8	0.15	20000226	136.82101	316.94799	53.55959	5.62807	0.2855227	2.5491108	73	4	1994–2000	0.68	M-v	2	Williams	35692	1994 WJ
1994 WT	14.5	0.15	20000226	156.14688	305.38340	57.32695	5.56712	0.2197654	2.5221624	31	4	1986–2000	0.80	M-v	4	Williams	38764	1994 WT
1994 WS ₁	13.1	0.15	20000226	6.53979	154.87585	281.39807	8.88635	0.1611349	3.0137148	51	4	1989–2000	0.76	M-v	2	Williams	38764	1994 WS ₁
1994 WC ₂	12.5	0.15	20000226	106.50747	248.02758	89.49147	10.28925	0.1711043	2.7763732	59	3	1994–2000	0.66	M-v	3	Williams	38764	1994 WC ₂
1994 WK ₂	13.1	0.15	20000226	3.82937	38.25774	104.68177	9.78460	0.2234239	2.7331098	68	3	1994–2000	0.48	M-v	2	Williams	38764	1994 WK ₂
1994 WN ₃	13.6	0.15	20000226	133.07498	258.82427	133.21248	6.79355	0.2314599	2.5254647	57	4	1986–2000	0.67	M-v	2	Williams	34508	1994 WN ₃
1994 WP ₃	14.4	0.15	20000226	198.15098	261.09926	96.07344	9.05861	0.2571756	2.3667366	48	4	1994–2000	0.58	M-v	1	Williams	34012	1994 WP ₃
1994 WR ₃	12.4	0.15	20000226	107.05523	338.93600	78.69278	14.86152	0.1584530	2.5842420	67	4	1994–2000	0.75	M-v	2	Williams	38764	1994 WR ₃
1994 WA ₄	13.1	0.15	20000226	35.69335	252.34482	209.10292	11.71364	0.0833925	2.7032177	83	3	1994–2000	0.60	M-v	2	Williams	38764	1994 WA ₄
1994 WE ₄	12.7	0.15	20000226	93.28923	268.38889	66.00901	11.09071	0.1144558	3.0012338	78	4	1978–2000	0.61	M-v	1	Williams	38764	1994 WE ₄
1994 WJ ₁₂	13.3	0.15	20000226	133.44620	121.63983	271.54894	9.03736	0.2275595	2.5362457	58	4	1983–2000	0.82	M-v	3	Williams	35692	1994 WJ ₁₂
1994 XR ₄	13.1	0.15	20000226	157.09943	269.54018	97.98183	23.24419	0.1624063	2.5986565	25	3	1994–2000	0.54	M-v	3	Williams	38764	1994 XR ₄
1994 YF ₁	13.3	0.15	20000226	3.53649	163.20767	291.01643	8.94176	0.0268584	2.9912723	61	3	1994–2000	0.66	M-v	3	Williams	38764	1994 YF ₁
1994 YC ₂	13.4	0.15	20000226	98.69018	119.37884	271.75413	11.23664	0.1825372	2.6571931	58	3	1994–2000	0.55	M-v	2	Williams	38764	1994 YC ₂
1994 YJ ₂	13.2	0.15	20000226	11.45479	104.19877	95.09569	14.06205	0.1131499	2.5866033	37	5	1991–2000	0.84	M-v	2	Williams	33749	1994 YJ ₂
1995 AK ₁	13.4	0.15	20000226	97.38273	338.14298	81.65896	9.73062	0.3128781	2.6595615	32	4	1989–2000	0.68	M-v	1	Williams	34012	1995 AK ₁
1995 AE ₄	14.6	0.15	20000226	138.35718	297.20778	92.81158	5.71960	0.2254272	2.5721073	34	4	1969–2000	0.72	M-v	2	Williams	33552	1995 AE ₄
1995 BZ	13.2	0.15	20000226	338.48281	99.78165	115.41047	10.30235	0.1656950	2.7386093	47	3	1994–2000	0.48	M-v	3	Williams	38764	1995 BZ
1995 BM ₁	14.4	0.15	20000226	179.79802	253.03606	121.52926	5.09134	0.2378720	2.5553237	41	4	1995–2000	0.71	M-v	3	Williams	35692	1995 BM ₁
1995 BY ₂	12.7	0.15	20000226	115.33196	295.35872	115.38547	13.72222	0.1637059	2.6865793	40	3	1995–2000	0.57	M-v	3	Williams	38764	1995 BY ₂
1995 BJ ₁₁	13.2	0.15	20000226	207.64674	156.56079	138.27754	4.22923	0.1388993	3.0238908	51	3	1995–2000	0.56	M-v	3	Williams	38764	1995 BJ ₁₁
1995 BS ₁₁	14.1	0.15	20000226	81.87560	54.21613	13.33236	1.79697	0.0401180	2.9112794	84	4	1990–2000	0.66	M-v	4	Williams	38764	1995 BS ₁₁
1995 BW ₁₁	13.2	0.15	20000226	209.43171	189.27960	90.72435	1.87138	0.0454755	3.0766012	56	3	1995–2000	0.47	M-v	3	Williams	38764	1995 BW ₁₁
1995 BP ₁₅	12.2	0.15	20000226	188.29300	166.13935	127.30799	18.73491	0.1914327	3.1065212	49	4	1995–2000	0.62	M-v	1	Williams	38764	1995 BP ₁₅
1995 CB	13.7	0.15	20000226	13.92880	296.69416	131.11099	10.28058	0.2189668	3.1110849	67	3	1995–2000	0.48	M-v	2	Williams	38033	1995 CB
1995 CG	14.0	0.15	20000226	153.70539	163.06994	137.74352	24.48540	0.0754321	1.9606328	45	3	1995–2000	0.55	M-v	2	Williams	38034	1995 CG
1995 CC ₂	14.7	0.15	20000226	270.05690	291.77856	292.26051	17.12134	0.0447344	1.9332416	60	2	1995–2000	0.49	M-v	3	Williams	38765	1995 CC ₂
1995 CG ₃	14.9	0.15	20000226	267.96828	103.82145	149.44256	8.82438	0.1184031	2.8750649	40	2	1995–2000	0.47	M-v	5	Williams	38449	1995 CG ₃
1995 DD	12.6	0.15	20000226	265.15497	321.30345	357.80276	13.07625	0.1763022	2.6671541	43	5	1988–2000	0.47	M-v	1	Williams	34012	1995 DD
1995 DG	12.4	0.15	20000226	24.03129	291.81303	148.96653	17.00519	0.2125532	3.1298832	85	3	1995–2000	0.61	M-v	2	Williams	38765	1995 DG
1995 DW	13.5	0.15	20000226	191.73978	243.34990	89.57426	3.00947	0.0446127	2.9217758	26	4	1991–2000	0.75	M-v	1	Williams	38765	1995 DW
1995 DA ₂	8.1	0.15	20000226	32.00631	332.73260	127.47897	6.55536	0.0761839	36.4082219	42	5	1995–2000	0.62	M-v	3	Marsden	33749	1995 DA ₂
1995 DB ₂	7.6	0.15	20000226	5.16705	0.85355	128.62911	4.10535	0.1353000	46.4412941	36	5	1995–2000	0.67	M-v	4	Marsden	33749	1995 DB ₂
1995 DO ₂	13.6	0.15	20000226	58.50503	15.96093	118.64483	3.65354	0.1346774	2.7552522	71	4	1995–2000	0.62	M-v	1	Williams	38765	1995 DO ₂
1995 DG ₁₃	13.8	0.15	20000226	292.16851	55.93631	157.39614	1.40998	0.1098092	3.0838415	58	4	1995–2000	0.59	M-v	1	Williams	38449	1995 DG ₁₃
1995 EP ₁	12.5	0.15	20000226	348.00222	209.03168	350.07697	11.89397	0.1075286	2.8610705	50	4	1990–2000	0.60	M-v	3	Williams	38765	1995 EP ₁
1995 FY ₂	14.3	0.15	20000226	98.64172	75.50388	9.60596	9.04275	0.1289116	2.7622028	32	4	1993–2000	0.57	M-v	1	Williams	33749	1995 FY ₂
1995 FK ₄	13.4	0.15	20000226	104.14499	267.34889	159.32515	9.53703	0.1972769	2.7846284	35	3	1995–2000	0.62	M-v	3	Williams	34293	1995 FK ₄
1995 FA ₈	13.9	0.15	20000226	68.49861	288.21664	136.42089	7.58556	0.0763286	3.1631292	67	4	1992–2000	0.56	M-v	2	Williams	38765	1995 FA ₈
1995 GW ₂	15.0	0.15	20000226	339.92808	138.92297	29.19206	14.20142	0.2187746	3.0911762	31	3	1995–2000	0.47	M-v	3	Williams	38034	1995 GW ₂
1995 GL ₇	13.9	0.15	20000226	139.13597	294.95045	69.89988	6.15310	0.1199295	3.0328411	40	3	1995–2000	0.56	M-v	4	Williams	38765	1995 GL ₇
1995 HR ₂	13.9	0.15	20000226	61.79230	61.57890	53.81769	11.45352	0.1286098	2.9945478	22	3	1995–2000	0.55	M-v	3	Williams	33491	1995 HR ₂
1995 HM ₅	8.3	0.15	20000226	328.62252	60.79989	186.69292	4.82892	0.2481010	39.2711285	26	5	1995–1999	0.50	M-v	3	Williams	32308	1995 HM ₅
1995 QB ₂	14.4	0.15	20000226	93.72287	77.48065	302.74275	3.55564	0.1839940	2.2375192	74	4	1955–2000	0.60	M-v	2	Williams	38765	1995 QB ₂
1995 QV ₃	14.0	0.15	20000226	47.81689	318.28277	61.94008	27.00059	0.2720323	2.3518058	68	3	1995–2000	0.42	M-v	2	Williams	38034	1995 QV ₃
1995 SP	14.7	0.15	20000226	63.87141	37.46174	13.38104	9.24851	0.1899155	2.3228701	89	3	1995–2000	0.56	M-v	2	Williams	38765	1995 SP
1995 SA ₁	13.5	0.15	20000226	348.90841	220.28224	265.53198	22.62359	0.1563094	2.3244961	53	2	1995–2000	0.52	M-v	3	Williams	38765	1995 SA ₁
1995 SK ₂₉	14.7	0.15	20000226	133.68171	164.19452	183.69700	4.54679	0.1994010	2.2346689	24	2	1995–2000	0.71	M-v	4	Williams	38450	1995 SK ₂₉
1995 SP ₅₂	16.5	0.15	20000226	23.91183	93.48100	10.35400	3.01511	0.1650951	2.3101636	37	2	1995–2000	0.56	M-v	4	Williams	38450	1995 SP ₅₂
1995 SS ₅₃	15.5	0.15	20000226	80.62586	29.63565	30.16932	3.70805	0.2210743	2.2941354	40	5	1988–2000	0.70	M-v	2	Williams	30292	1995 SS ₅₃
1995 TB	15.5	0.15	20000226	26.71626	78.72324	2.56437	4.75663	0.1855541	2.3475554	76	3	1995–2000	0.55	M-v	2	Williams	38765	1995 TB
1995 TR	13.8	0.15	20000226	142.11832	84.16081	219.03350	5.48788	0.1159262	2.3787619	73	5	1983–2000	0.58	M-v	1	Williams	38765	1995 TR
1995 TE ₈	14.0	0.15	20000226	109.40524	171.30826	178.99193	7.52895	0.2185148	2.3118406	69	3	1995–2000	0.56	M-v	2	Williams	38765	1995 TE ₈

1995 UA ₁	14.9	0.15	20000226	329.84929	180.35255	334.35322	6.45381	0.0518558	2.3083814	60	3	1995-2000	0.80	M-v	3	Williams	38766	1995 UA ₁
1995 UQ ₁	14.8	0.15	20000226	69.41929	182.49841	214.24325	4.57838	0.2316444	2.3608220	72	3	1995-2000	0.41	M-v	2	Williams	38766	1995 UQ ₁
1995 UJ ₂	14.5	0.15	20000226	79.03917	3.23768	12.22248	3.35657	0.2187847	2.3665136	88	3	1995-2000	0.41	M-v	2	Williams	38766	1995 UJ ₂
1995 UW ₂	14.7	0.15	20000226	49.52726	130.77790	261.01121	1.48871	0.1958558	2.4402064	132	4	1991-2000	0.48	M-v	2	Williams	38766	1995 UW ₂
1995 UQ ₃	13.9	0.15	20000226	260.56084	12.00487	242.95121	2.14670	0.0729864	2.1822983	134	3	1995-2000	0.56	M-v	2	Williams	38766	1995 UQ ₃
1995 UQ ₄	12.8	0.15	20000226	95.09204	318.24293	52.75104	13.73329	0.1948887	2.3596189	65	3	1955-2000	0.44	M-v	3	Williams	38766	1995 UQ ₄
1995 UW ₄	14.6	0.15	20000226	192.56727	279.49053	48.73021	8.11459	0.1353412	2.1888029	87	3	1995-2000	0.62	M-v	3	Williams	38766	1995 UW ₄
1995 UM ₅	15.5	0.15	20000226	298.48564	265.61082	316.00753	4.12083	0.0436816	2.1706948	45	3	1995-2000	0.59	M-v	3	Williams	38766	1995 UM ₅
1995 UF ₈	13.6	0.15	20000226	238.68360	191.04093	39.57819	14.25744	0.0786471	2.3708510	28	2	1995-2000	0.46	M-v	4	Williams	37648	1995 UF ₈
1995 UT ₈	14.7	0.15	20000226	98.49826	310.83507	99.85762	4.25047	0.1252263	2.2414538	56	3	1995-2000	0.67	M-v	2	Williams	38766	1995 UT ₈
1995 UQ ₁₂	14.8	0.15	20000226	60.22284	45.34886	11.35619	2.49485	0.1987561	2.3265670	63	3	1995-2000	0.49	M-v	4	Williams	38766	1995 UQ ₁₂
1995 UX ₄₈	14.3	0.15	20000226	73.49127	58.70862	6.73455	0.85625	0.1202253	2.2761905	78	3	1995-2000	0.65	M-v	2	Williams	38766	1995 UX ₄₈
1995 VB	15.2	0.15	20000226	57.64284	192.33943	263.57381	4.74792	0.1334619	2.2918320	49	3	1995-2000	0.71	M-v	3	Williams	32749	1995 VB
1995 VD	14.9	0.15	20000226	42.29311	88.15690	7.39541	2.72932	0.1074290	2.3440197	90	3	1995-2000	0.64	M-v	3	Williams	38766	1995 VD
1995 VZ	14.6	0.15	20000226	74.32578	213.33535	184.85601	1.90545	0.2157438	2.3699580	74	4	1995-2000	0.66	M-v	2	Williams	38766	1995 VZ
1995 VH ₁	14.8	0.15	20000226	96.15716	139.76642	240.44868	8.29850	0.2110332	2.3192191	32	2	1995-2000	0.40	M-v	3	Williams	38766	1995 VH ₁
1995 VM ₁	13.5	0.15	20000226	123.57567	288.32154	77.33885	6.81081	0.1954626	2.2744404	53	2	1995-2000	0.56	M-v	3	Williams	38766	1995 VM ₁
1995 VR ₁	14.9	0.15	20000226	161.87352	257.76342	107.33319	4.98763	0.1836244	2.1618007	46	6	1954-2000	0.59	M-v	1	Williams	33553	1995 VR ₁
1995 VJ ₂	14.1	0.15	20000226	48.80824	334.09962	67.47417	15.38472	0.1147039	2.4691704	98	3	1995-2000	0.60	M-v	2	Williams	38766	1995 VJ ₂
1995 VZ ₄	15.6	0.15	20000226	156.38525	231.72695	117.77998	3.54201	0.0797536	2.2190050	43	3	1995-2000	0.73	M-v	4	Williams	38766	1995 VZ ₄
1995 VL ₁₅	15.3	0.15	20000226	261.15127	198.14338	55.82157	4.58490	0.1652722	2.2178163	23	3	1995-2000	0.55	M-v	3	Williams	38766	1995 VL ₁₅
1995 WC	15.0	0.15	20000226	97.42265	151.97849	227.52662	5.97192	0.2102453	2.3323270	29	2	1995-2000	0.41	M-v	4	Williams	37650	1995 WC
1995 WP ₁	14.3	0.15	20000226	346.40747	166.48428	327.22354	5.00383	0.1838756	2.4628216	57	3	1995-2000	0.49	M-v	3	Williams	38766	1995 WP ₁
1995 WA ₂	15.2	0.15	20000226	23.16973	255.34798	216.33117	3.12070	0.1921209	2.3514642	83	3	1995-2000	0.59	M-v	2	Williams	38766	1995 WA ₂
1995 WS ₂	14.7	0.15	20000226	123.47596	327.48272	45.44062	6.96436	0.2026061	2.2635644	35	4	1978-2000	0.84	M-v	3	Williams	38766	1995 WS ₂
1995 WX ₂	15.2	0.15	20000226	341.68548	287.61374	228.23616	4.32040	0.0788325	2.2887717	70	3	1995-2000	0.74	M-v	3	Williams	38766	1995 WX ₂
1995 WK ₄	15.2	0.15	20000226	64.50428	291.94334	106.88276	3.29454	0.1749800	2.4269775	68	2	1995-2000	0.50	M-v	4	Williams	38767	1995 WK ₄
1995 WY ₄	14.9	0.15	20000226	72.28691	305.06565	90.95381	3.27076	0.2180733	2.3774353	61	4	1994-2000	0.56	M-v	2	Williams	38767	1995 WY ₄
1995 WH ₅	15.2	0.15	20000226	95.39161	150.12540	258.28582	3.99150	0.1064953	2.3136762	54	3	1995-2000	0.64	M-v	3	Williams	38767	1995 WH ₅
1995 WK ₅	14.6	0.15	20000226	115.75681	341.50470	42.41864	3.45812	0.1237398	2.3112167	97	3	1995-2000	0.61	M-v	3	Williams	38767	1995 WK ₅
1995 WU ₅	15.1	0.15	20000226	238.60104	317.05707	320.97259	1.68126	0.0176923	2.2648075	47	3	1995-2000	0.51	M-v	4	Williams	38767	1995 WU ₅
1995 WE ₆	14.8	0.15	20000226	46.78888	15.84422	21.97355	2.25259	0.2083272	2.3958981	119	4	1991-2000	0.54	M-v	2	Williams	38767	1995 WE ₆
1995 WO ₇	15.5	0.15	20000226	111.00256	160.65319	256.57852	3.80126	0.0995121	2.2317491	69	4	1993-2000	0.79	M-v	2	Williams	33074	1995 WO ₇
1995 WU ₇	15.1	0.15	20000226	48.54272	48.83583	69.67756	3.89488	0.0628960	2.2677254	31	3	1995-2000	0.66	M-v	3	Williams	38036	1995 WU ₇
1995 WY ₇	14.8	0.15	20000226	114.09649	27.20252	347.52947	4.44400	0.2612002	2.2989335	64	3	1995-2000	0.60	M-v	3	Williams	38767	1995 WY ₇
1995 WZ ₇	13.7	0.15	20000226	54.58322	93.63653	277.68568	10.71716	0.1777405	2.5828354	60	3	1992-2000	0.61	M-v	3	Williams	38767	1995 WZ ₇
1995 WA ₈	15.2	0.15	20000226	132.29891	39.22523	0.69135	5.29908	0.1444377	2.2053984	67	4	1988-2000	0.69	M-v	1	Williams	33553	1995 WA ₈
1995 WL ₁₃	13.5	0.15	20000226	43.33620	274.87449	134.91303	4.15855	0.0783182	2.4655037	72	3	1995-2000	0.45	M-v	2	Williams	38767	1995 WL ₁₃
1995 WN ₂₀	15.4	0.15	20000226	296.29107	94.48372	122.96700	3.06562	0.0816331	2.2487972	37	3	1995-2000	0.66	M-v	4	Williams	38767	1995 WN ₂₀
1995 WB ₂₂	15.8	0.15	20000226	32.80502	40.01481	95.46473	5.14731	0.0898424	2.2325560	40	4	1995-2000	0.64	M-v	1	Williams	33074	1995 WB ₂₂
1995 WW ₄₂	14.8	0.15	20000226	77.97194	353.92758	68.88282	5.62899	0.1671749	2.3146477	48	4	1995-2000	0.52	M-v	1	Williams	38767	1995 WW ₄₂
1995 WX ₄₂	13.5	0.15	20000226	26.31551	315.98887	97.19609	14.69034	0.1374754	2.5570672	61	4	1987-2000	0.55	M-v	2	Williams	38767	1995 WX ₄₂
1995 XE	13.0	0.15	20000226	269.61074	278.10228	278.44257	13.92911	0.0480925	2.5722702	72	3	1995-2000	0.61	M-v	2	Williams	38767	1995 XE
1995 XG ₁	13.7	0.15	20000226	244.57544	303.34777	276.43117	12.78155	0.1323307	2.5551038	75	3	1995-2000	0.65	M-v	2	Williams	38767	1995 XG ₁
1995 XP ₁	14.8	0.15	20000226	48.77969	350.84649	119.14013	2.82078	0.1623231	2.3536660	54	3	1995-2000	0.70	M-v	3	Williams	35297	1995 XP ₁
1995 YB	13.6	0.15	20000226	71.17430	239.31916	96.92479	13.05979	0.2369297	2.6501428	96	3	1995-2000	0.55	M-v	1	Williams	38036	1995 YB
1995 YR	14.1	0.15	20000226	301.56754	138.04961	66.69963	9.45967	0.0771515	2.2967684	45	4	1995-2000	0.60	M-v	2	Williams	38767	1995 YR
1995 YV	15.2	0.15	20000226	90.96303	332.43382	102.35697	6.18996	0.1305161	2.2942923	32	4	1995-2000	0.54	M-v	1	Williams	33075	1995 YV
1995 YY	14.3	0.15	20000226	244.35785	171.91492	109.12052	5.70519	0.0661846	2.2707163	64	3	1995-2000	0.69	M-v	2	Williams	38767	1995 YY
1995 YX ₁	14.3	0.15	20000226	47.64328	271.19782	218.54348	2.20677	0.1003713	2.3042911	57	3	1995-2000	0.67	M-v	3	Williams	38767	1995 YX ₁
1995 YZ ₂	14.1	0.15	20000226	322.26604	237.72234	290.40972	24.96568	0.2285570	2.5761763	55	2	1995-2000	0.47	M-v	3	Williams	38767	1995 YZ ₂
1995 YG ₃	15.2	0.15	20000226	116.95524	67.17818	331.40267	3.08564	0.1288506	2.3239600	49	3	1995-2000	0.66	M-v	3	Williams	33553	1995 YG ₃
1995 YL ₃	14.9	0.15	20000226	95.13662	296.49304	126.00115	5.02957	0.1388114	2.3338977	63	5	1993-2000	0.67	M-v	1	Williams	38767	1995 YL ₃

1995 YY ₅	15.3	0.15	20000226	176.30646	227.23517	95.06603	3.96601	0.1754830	2.2341462	83	3	1995-2000	0.57	M-v	3	Williams	38767	1995 YY ₅
1995 YE ₆	16.1	0.15	20000226	307.37954	0.17739	216.98108	2.62602	0.1403903	2.2324973	42	3	1995-2000	0.39	M-v	3	Williams	38767	1995 YE ₆
1995 YO ₇	14.4	0.15	20000226	20.09806	174.77576	237.50662	12.52479	0.1585605	2.5718903	69	2	1995-2000	0.41	M-v	2	Williams	38037	1995 YO ₇
1995 YS ₂₁	13.4	0.15	20000226	87.22949	239.62456	107.46642	4.83216	0.1028668	2.7324877	82	4	1992-2000	0.71	M-v	2	Williams	38767	1995 YS ₂₁
1996 AP	13.7	0.15	20000226	55.45026	288.56354	109.43494	13.48875	0.1728668	2.5921866	65	3	1996-2000	0.63	M-v	2	Williams	38767	1996 AP
1996 AA ₂	14.0	0.15	20000226	314.13882	58.99731	80.47036	16.45706	0.0671445	2.5225329	69	2	1996-2000	0.56	M-v	4	Williams	38768	1996 AA ₂
1996 AP ₂	13.9	0.15	20000226	38.21886	130.11083	310.13280	11.05276	0.1236075	2.5667335	103	3	1995-2000	0.60	M-v	2	Williams	38768	1996 AP ₂
1996 AW ₆	15.7	0.15	20000226	107.40833	10.98528	23.73910	2.79129	0.1898920	2.3874990	38	3	1996-2000	0.68	M-v	3	Williams	32750	1996 AW ₆
1996 BU	14.4	0.15	20000226	109.42546	116.39613	277.13842	7.02558	0.1175211	2.4006298	43	3	1995-2000	0.64	M-v	3	Williams	38768	1996 BU
1996 BZ	14.7	0.15	20000226	2.94784	26.93678	120.95316	6.42767	0.1379062	2.4440772	95	3	1996-2000	0.57	M-v	2	Williams	38768	1996 BZ
1996 BC ₁	14.5	0.15	20000226	178.55639	37.27199	317.48578	3.13605	0.1715112	2.2913101	58	3	1996-2000	0.67	M-v	4	Williams	35694	1996 BC ₁
1996 BQ ₁	15.9	0.15	20000226	86.48972	19.35720	53.96920	4.19704	0.2030068	2.3635028	19	3	1996-2000	0.68	M-v	3	Williams	32948	1996 BQ ₁
1996 BH ₂	13.4	0.15	20000226	61.67233	105.96389	320.84049	8.36204	0.0368953	2.5971674	107	3	1996-2000	0.57	M-v	1	Williams	38768	1996 BH ₂
1996 BL ₂	14.9	0.15	20000226	151.17839	155.99588	230.22927	3.93908	0.1701017	2.2846525	65	4	1984-2000	0.73	M-v	2	Williams	34013	1996 BL ₂
1996 BS ₂	14.1	0.15	20000226	229.18508	217.75528	125.99642	7.47997	0.2012307	2.2415078	25	4	1984-2000	0.70	M-v	2	Williams	34293	1996 BS ₂
1996 BV ₂	12.8	0.15	20000226	30.65387	333.40737	116.79911	16.09742	0.1125656	2.5757022	60	3	1996-2000	0.50	M-v	2	Williams	38768	1996 BV ₂
1996 BY ₂	13.7	0.15	20000226	47.44220	287.51107	158.19616	4.10000	0.1914749	2.4796418	123	3	1996-2000	0.69	M-v	2	Williams	38768	1996 BY ₂
1996 BO ₃	14.0	0.15	20000226	342.56833	334.86960	136.52141	12.98884	0.0962653	2.7499792	55	3	1996-2000	0.52	M-v	3	Williams	38768	1996 BO ₃
1996 BM ₁₇	14.5	0.15	20000226	34.57084	50.11543	43.76687	4.92832	0.1307038	2.5206069	80	3	1996-2000	0.66	M-v	2	Williams	38768	1996 BM ₁₇
1996 CQ	13.8	0.15	20000226	292.02051	223.14553	33.85968	5.98917	0.1271396	2.4468379	57	6	1986-2000	0.57	M-v	1	Williams	38037	1996 CQ
1996 CY	15.5	0.15	20000226	60.87129	6.90651	125.33864	6.23796	0.0917517	2.2880370	41	3	1996-2000	0.63	M-v	2	Williams	34293	1996 CY
1996 CL ₁	14.7	0.15	20000226	341.56688	68.41926	135.08537	13.60143	0.1852768	2.4522609	27	2	1996-2000	0.57	M-v	3	Williams	38453	1996 CL ₁
1996 CQ ₁	14.8	0.15	20000226	164.30741	40.45721	319.36154	6.20921	0.1316975	2.3654173	45	4	1994-2000	0.81	M-v	2	Williams	35694	1996 CQ ₁
1996 CO ₂	12.6	0.15	20000226	136.14458	164.25407	128.04648	10.84924	0.0670284	2.9949139	83	3	1996-2000	0.64	M-v	3	Williams	38037	1996 CO ₂
1996 CE ₃	13.1	0.15	20000226	53.59229	79.91706	358.36100	21.91871	0.0536729	2.6685831	111	3	1996-2000	0.58	M-v	1	Williams	38037	1996 CE ₃
1996 CE ₅	14.5	0.15	20000226	55.57780	109.79888	314.58930	21.70253	0.1180470	2.5701203	42	3	1996-2000	0.58	M-v	2	Williams	38768	1996 CE ₅
1996 CX ₈	14.2	0.15	20000226	111.80258	11.52164	10.33257	6.88910	0.0449691	2.5952040	82	4	1976-2000	0.69	M-v	3	Williams	38768	1996 CX ₈
1996 DH	16.5	0.15	20000226	225.14255	351.32380	309.39170	17.22961	0.2767067	1.5869950	132	3	1996-2000	0.51	M-v	3	Marsden	38768	1996 DH
1996 DJ	14.8	0.15	20000226	331.12959	235.28451	302.20561	28.69624	0.3539549	2.6156422	55	2	1996-2000	0.50	M-v	3	Williams	38768	1996 DJ
1996 DO	14.2	0.15	20000226	357.67773	146.40787	350.30822	3.47233	0.1162982	2.6288799	73	3	1996-2000	0.52	M-v	3	Williams	38768	1996 DO
1996 DT	13.1	0.15	20000226	211.72757	84.14851	151.71979	10.62492	0.0528065	2.9931455	62	3	1996-2000	0.74	M-v	3	Williams	38037	1996 DT
1996 DU	13.8	0.15	20000226	330.41849	35.99244	154.44140	13.18914	0.2189560	2.5754494	60	3	1971-2000	0.42	M-v	3	Williams	38768	1996 DU
1996 DD ₁	14.5	0.15	20000226	351.94471	343.79878	115.44573	22.79845	0.0656322	2.6739325	80	3	1996-2000	0.66	M-v	2	Williams	38768	1996 DD ₁
1996 DL ₁	15.2	0.15	20000226	12.74396	168.31529	317.36963	4.63043	0.1548054	2.5316997	126	4	1994-2000	0.60	M-v	2	Marsden	38768	1996 DL ₁
1996 DH ₂	14.0	0.15	20000226	258.29070	255.57308	5.00923	10.32480	0.1620327	2.6400909	30	4	1993-2000	0.74	M-v	1	Williams	38038	1996 DH ₂
1996 DK ₂	14.5	0.15	20000226	300.50274	103.49130	131.69792	5.27858	0.1971420	2.5647781	72	4	1992-2000	0.53	M-v	2	Williams	38768	1996 DK ₂
1996 DQ ₂	13.7	0.15	20000226	288.11356	144.91521	97.81885	5.14115	0.0509305	2.5251102	91	5	1980-2000	0.51	M-v	2	Williams	38768	1996 DQ ₂
1996 DY ₂	13.4	0.15	20000226	45.54686	332.88380	70.42732	3.07670	0.0733065	2.8857832	75	3	1996-2000	0.62	M-v	2	Williams	38768	1996 DY ₂
1996 EW	14.4	0.15	20000226	345.62957	2.66190	163.59736	13.69381	0.1182780	2.5509053	52	4	1988-2000	0.67	M-v	3	Williams	38768	1996 EW
1996 EB ₁	13.9	0.15	20000226	75.26314	40.18192	2.51670	3.77284	0.1007829	2.7621247	118	3	1996-2000	0.69	M-v	2	Williams	38769	1996 EB ₁
1996 EL ₁	13.4	0.15	20000226	40.64108	120.01539	340.90208	13.23104	0.1494322	2.5826095	109	3	1996-2000	0.61	M-v	2	Williams	38769	1996 EL ₁
1996 EM ₁	14.1	0.15	20000226	321.38204	229.07892	335.82139	10.91048	0.2018319	2.5887897	77	2	1996-2000	0.41	M-v	3	Williams	38453	1996 EM ₁
1996 EP ₁	13.5	0.15	20000226	149.58201	184.70095	184.03750	4.99861	0.2242408	2.5591828	73	4	1973-2000	0.67	M-v	4	Williams	38769	1996 EP ₁
1996 ER ₂	15.0	0.15	20000226	59.81468	215.01078	258.04786	2.70789	0.0502149	2.4354687	76	4	1996-2000	0.59	M-v	1	Williams	33554	1996 ER ₂
1996 ES ₂	13.7	0.15	20000226	214.76444	11.92610	343.56669	5.69090	0.1949475	2.2713283	36	5	1905-2000	0.59	M-v	2	Williams	35695	1996 ES ₂
1996 EU ₃	14.1	0.15	20000226	232.95510	333.00590	357.65462	7.70233	0.1153641	2.3836516	32	4	1990-2000	0.45	M-v	1	Williams	33750	1996 EU ₃
1996 EK ₆	13.4	0.15	20000226	205.33457	121.91567	173.63666	7.41826	0.1067827	2.7036463	68	4	1993-2000	0.69	M-v	2	Williams	38769	1996 EK ₆
1996 EY ₇	14.2	0.15	20000226	173.71052	167.95896	163.56582	4.42759	0.1076434	2.6617160	47	2	1996-2000	0.48	M-v	4	Williams	38454	1996 EY ₇
1996 FJ ₅	12.4	0.15	20000226	133.84112	16.00271	12.90574	15.51296	0.1239778	2.5744269	85	5	1977-2000	0.62	M-v	2	Williams	38769	1996 FJ ₅
1996 GT	18.4	0.15	20000226	91.74458	318.89466	73.44480	3.39645	0.3831577	1.6421013	31	3	1996-2000	0.46	M-v	5	Williams	31545	1996 GT
1996 GL ₁	14.5	0.15	20000226	93.25851	58.43331	40.20226	6.69794	0.1326725	2.3230707	54	5	1987-2000	0.68	M-v	1	Williams	33751	1996 GL ₁
1996 GN ₂	14.3	0.15	20000226	91.34782	219.39045	191.75498	9.08746	0.1279266	2.7286927	62	3	1996-2000	0.68	M-v	3	Williams	38769	1996 GN ₂
1996 GT ₂	12.6	0.15	20000226	261.57939	57.93255	129.52634	17.66910	0.1626740	3.1226217	53	3	1996-2000	0.51	M-v	3	Williams	38769	1996 GT ₂

1996 GV ₂	13.4	0.15	20000226	231.61243	211.59893	93.86070	14.26894	0.1574225	2.6909605	38	3	1996-2000	0.62	M-v	3	Williams	35695	1996 GV ₂
1996 GL ₃	14.4	0.15	20000226	49.80761	356.85681	92.33686	3.84078	0.0346988	2.7384122	69	3	1996-2000	0.67	M-v	2	Williams	38769	1996 GL ₃
1996 GE ₆	13.6	0.15	20000226	6.15889	13.83888	62.53305	6.70470	0.1448668	3.0646287	68	3	1979-2000	0.51	M-v	2	Williams	38769	1996 GE ₆
1996 GP ₉	15.5	0.15	20000226	241.89427	113.90979	183.12041	3.07345	0.0887824	2.6430589	34	3	1996-2000	0.56	M-v	4	Williams	30762	1996 GP ₉
1996 GS ₉	14.7	0.15	20000226	152.27931	178.47769	182.62726	3.08388	0.0950927	2.7597670	24	3	1996-2000	0.44	M-v	4	Williams	34014	1996 GS ₉
1996 GO ₁₃	14.9	0.15	20000226	50.19927	294.61609	146.80327	4.76815	0.2754819	2.6377326	23	3	1990-2000	0.59	M-v	3	Williams	27317	1996 GO ₁₃
1996 GK ₁₇	13.5	0.15	20000226	129.72682	214.98818	187.03383	4.37753	0.0587871	2.6540456	52	5	1976-2000	0.79	M-v	2	Williams	35695	1996 GK ₁₇
1996 GA ₁₈	14.3	0.15	20000226	332.29148	10.51413	205.26897	7.23594	0.1428746	2.5806311	31	4	1971-2000	0.88	M-v	2	Williams	38038	1996 GA ₁₈
1996 GG ₁₈	13.7	0.15	20000226	353.68354	307.00691	213.77022	4.59974	0.0126857	2.7610327	57	3	1996-2000	0.63	M-v	4	Williams	38769	1996 GG ₁₈
1996 GE ₂₀	13.4	0.15	20000226	204.91795	259.44001	67.94849	4.61776	0.0567365	2.7046863	65	4	1993-2000	0.72	M-v	2	Williams	38769	1996 GE ₂₀
1996 GG ₂₀	13.7	0.15	20000226	150.71324	215.99735	137.61323	2.54549	0.1285240	2.9133204	66	5	1978-2000	0.66	M-v	1	Williams	38769	1996 GG ₂₀
1996 HP	13.8	0.15	20000226	20.71920	112.58534	52.47911	14.45965	0.0920890	2.5825051	56	3	1996-2000	0.61	M-v	3	Williams	38769	1996 HP
1996 HV	15.5	0.15	20000226	293.29225	168.05165	61.25133	9.17967	0.1636286	2.7789103	44	3	1996-2000	0.54	M-v	3	Williams	38769	1996 HV
1996 HY	13.9	0.15	20000226	354.10748	122.74124	63.03453	12.45047	0.1298317	2.6406075	68	3	1996-2000	0.68	M-v	3	Williams	38769	1996 HY
1996 HL ₁	13.5	0.15	20000226	115.01278	259.50762	181.78299	7.53849	0.1289693	2.5314890	36	5	1971-2000	0.86	M-v	2	Williams	38769	1996 HL ₁
1996 HY ₁	14.3	0.15	20000226	197.23777	356.25903	1.00297	12.18622	0.1743160	2.6123956	37	3	1996-2000	0.69	M-v	3	Williams	35695	1996 HY ₁
1996 HM ₂	13.9	0.15	20000226	359.23384	100.00739	48.91872	2.68369	0.1416428	2.6791903	80	3	1996-2000	0.55	M-v	3	Marsden	38769	1996 HM ₂
1996 HM ₁₁	14.2	0.15	20000226	235.20638	125.93943	191.67611	3.68771	0.0678043	2.6155231	50	7	1976-2000	0.79	M-v	1	Williams	33555	1996 HM ₁₁
1996 HB ₁₂	12.1	0.15	20000226	211.74010	248.07375	41.31378	13.64275	0.1405309	2.9866448	61	3	1996-2000	0.69	M-v	3	Williams	38769	1996 HB ₁₂
1996 HF ₁₄	14.1	0.15	20000226	52.98783	37.99395	36.95270	2.46161	0.0710485	2.9470286	39	3	1996-2000	0.74	M-v	3	Williams	38769	1996 HF ₁₄
1996 HJ ₁₅	14.6	0.15	20000226	340.47619	85.74875	139.29001	1.11417	0.0383424	2.5205621	25	4	1993-2000	0.82	M-v	4	Williams	30785	1996 HJ ₁₅
1996 HT ₁₅	13.5	0.15	20000226	74.74725	255.28427	161.53373	2.21258	0.0782719	2.9409566	89	3	1996-2000	0.65	M-v	3	Williams	38769	1996 HT ₁₅
1996 HT ₁₆	13.9	0.15	20000226	104.25005	211.96628	181.78972	1.71954	0.0544333	2.9267329	45	3	1996-2000	0.59	M-v	4	Williams	38769	1996 HT ₁₆
1996 HX ₁₆	14.0	0.15	20000226	87.31504	345.28552	63.41250	2.79157	0.0999362	2.9251034	74	3	1996-2000	0.61	M-v	3	Williams	38769	1996 HX ₁₆
1996 HY ₁₇	14.5	0.15	20000226	167.94951	186.13374	147.41362	2.32256	0.2076125	3.0765876	31	3	1996-2000	0.70	M-v	3	Williams	38769	1996 HY ₁₇
1996 HL ₂₀	13.4	0.15	20000226	287.04407	90.52432	70.37036	2.46715	0.1156018	3.2267763	66	3	1996-2000	0.55	M-v	3	Marsden	38769	1996 HL ₂₀
1996 HW ₂₀	14.2	0.15	20000226	159.43353	187.30226	146.07129	2.00836	0.2011591	3.1582887	39	5	1992-2000	0.58	M-v	1	Williams	38769	1996 HW ₂₀
1996 HN ₂₁	14.3	0.15	20000226	119.06424	355.80481	50.23970	12.77392	0.1455659	2.7545843	21	3	1996-2000	0.82	M-v	4	Williams	33695	1996 HN ₂₁
1996 HZ ₂₁	14.3	0.15	20000226	336.17615	142.86947	37.82926	14.98667	0.0877693	2.6244168	43	3	1996-2000	0.59	M-v	3	Williams	38769	1996 HZ ₂₁
1996 HD ₂₂	14.0	0.15	20000226	3.22895	107.66803	40.96597	13.43106	0.1097136	2.6184474	62	4	1992-2000	0.73	M-v	3	Williams	38769	1996 HD ₂₂
1996 HC ₂₅	14.5	0.15	20000226	270.61858	92.02160	152.98261	2.55126	0.0335170	2.8379198	71	3	1996-2000	0.65	M-v	4	Williams	38769	1996 HC ₂₅
1996 JE	14.2	0.15	20000226	337.82438	125.03182	61.53035	15.63185	0.0634495	2.6738154	49	3	1996-2000	0.69	M-v	3	Williams	38038	1996 JE
1996 JT ₇	14.1	0.15	20000226	112.75679	305.96048	76.83587	7.87419	0.1533564	3.0512870	46	4	1982-2000	0.75	M-v	1	Williams	38769	1996 JT ₇
1996 KO	14.5	0.15	20000226	282.04629	276.77751	21.40852	0.97141	0.0649083	2.5683605	60	4	1996-2000	0.70	M-v	1	Williams	35696	1996 KO
1996 KV ₁	7.3	0.15	20000226	335.08982	197.10477	92.60156	8.09678	0.1092626	45.0060237	22	3	1996-1999	0.28	M-v	4	Marsden	32310	1996 KV ₁
1996 KX ₂	13.5	0.15	20000226	228.25948	178.20192	171.80948	12.00716	0.1303023	2.6514842	51	4	1988-2000	0.63	M-v	2	Williams	34294	1996 KX ₂
1996 LJ ₁	14.2	0.15	20000226	287.89645	48.82727	219.31565	14.37325	0.1262930	2.7746414	56	4	1996-2000	0.42	M-v	1	Williams	38769	1996 LJ ₁
1996 LS ₂	12.6	0.15	20000226	199.94401	203.49205	103.99438	9.85181	0.1951112	3.0763899	36	3	1996-2000	0.50	M-v	3	Williams	38769	1996 LS ₂
1996 NG	13.7	0.15	20000226	194.64371	242.80762	108.27628	6.28837	0.1614343	3.1360684	30	4	1991-2000	0.50	M-v	1	Williams	31009	1996 NG
1996 PT ₁	14.4	0.15	20000226	248.67992	172.33153	125.00787	5.92843	0.1521808	3.1661187	28	3	1996-2000	0.51	M-v	4	Williams	35696	1996 PT ₁
1996 PF ₃	15.3	0.15	20000226	0.59347	305.89711	146.98548	23.08799	0.0947596	1.9287148	59	3	1996-2000	0.59	M-v	2	Williams	38039	1996 PF ₃
1996 QT ₁	13.3	0.15	20000226	256.01463	132.82241	162.13269	8.81061	0.1347271	3.1678105	48	3	1996-2000	0.66	M-v	4	Williams	33948	1996 QT ₁
1996 RQ	14.5	0.15	20000226	133.79529	41.98055	273.06045	18.23974	0.0721072	1.9241871	60	3	1988-2000	0.61	M-v	3	Williams	38769	1996 RQ
1996 RC ₂₄	12.5	0.15	20000226	338.30530	65.99835	164.68074	7.57666	0.1097601	3.1367297	47	3	1996-2000	0.78	M-v	3	Williams	38770	1996 RC ₂₄
1996 RU ₂₅	13.9	0.15	20000226	273.20599	97.49998	180.23857	0.58478	0.2093355	3.1829120	42	4	1991-2000	0.47	M-v	2	Williams	29319	1996 RU ₂₅
1996 SJ ₃	13.9	0.15	20000226	295.88900	359.91289	266.37545	0.98509	0.1908856	3.0896246	32	3	1996-2000	0.43	M-v	4	Williams	35696	1996 SJ ₃
1996 TQ ₁₂	15.5	0.15	20000226	144.13491	158.02270	189.89777	25.98621	0.0519801	1.8395036	34	4	1991-2000	0.64	M-v	2	Williams	32054	1996 TQ ₁₂
1996 TR ₁₄	12.8	0.15	20000226	280.30188	267.05800	28.93158	7.12405	0.2248218	3.1614306	29	3	1989-2000	0.60	M-v	3	Williams	29631	1996 TR ₁₄
1996 VS ₁	13.7	0.15	20000226	43.44862	51.25039	52.02468	23.29940	0.0895014	1.9304372	76	2	1996-2000	0.48	M-v	2	Williams	38456	1996 VS ₁
1996 VO ₄	14.7	0.15	20000226	146.30695	288.98865	52.59489	23.08051	0.0872823	1.9270304	54	3	1996-2000	0.55	M-v	2	Williams	38039	1996 VO ₄
1996 VG ₉	15.4	0.15	20000226	181.52428	271.06713	46.18322	22.71853	0.1558757	1.8761467	41	3	1996-2000	0.58	M-v	2	Williams	37270	1996 VG ₉
1996 XM ₂	14.2	0.15	20000226	84.34155	248.91454	82.74485	5.01080	0.2406217	2.2118884	142	3	1996-2000	0.51	M-v	2	Williams	38770	1996 XM ₂
1996 XU ₁₄	15.0	0.15	20000226	101.77202	62.21579	320.87303	16.30742	0.1108882	1.9629640	55	3	1993-2000	0.50	M-v	3	Williams	38770	1996 XU ₁₄

1997 AJ ₂	14.1	0.15	20000226	353.93295	344.32659	106.50311	4.73482	0.0735149	2.2865646	77	2	1996–2000	0.51	M-v	3	Williams	38770	1997 AJ ₂
1997 AJ ₄	14.1	0.15	20000226	249.70451	307.29355	279.68034	5.94841	0.1210382	2.2177475	82	3	1996–2000	0.53	M-v	2	Williams	38040	1997 AJ ₄
1997 AN ₅	14.8	0.15	20000226	30.79041	349.79783	62.12401	5.65203	0.1263182	2.2549053	89	2	1997–2000	0.44	M-v	2	Williams	38770	1997 AN ₅
1997 AQ ₆	13.8	0.15	20000226	83.63305	7.36673	68.27530	24.38279	0.0296746	1.8252187	90	3	1997–2000	0.55	M-v	3	Williams	38770	1997 AQ ₆
1997 AG ₈	14.2	0.15	20000226	214.04089	332.73209	279.81711	3.66589	0.1175354	2.2682897	58	3	1997–2000	0.60	M-v	3	Williams	38040	1997 AG ₈
1997 AZ ₁₇	13.9	0.15	20000226	320.54184	77.75821	55.49591	2.98744	0.1068373	2.2920663	135	3	1997–2000	0.49	M-v	2	Williams	38770	1997 AZ ₁₇
1997 BG	14.4	0.15	20000226	206.57346	190.05142	132.06481	32.39350	0.1615407	1.9930437	83	3	1997–2000	0.42	M-v	2	Williams	38770	1997 BG
1997 BD ₃	14.9	0.15	20000226	344.73898	335.22611	140.45233	2.53455	0.0799446	2.2633214	61	2	1997–2000	0.58	M-v	4	Williams	38770	1997 BD ₃
1997 CB	13.9	0.15	20000226	110.75795	191.20355	156.58347	11.34226	0.2793684	2.3478291	85	3	1997–2000	0.45	M-v	2	Williams	38770	1997 CB
1997 CZ	13.8	0.15	20000226	50.10161	267.94009	119.30445	7.15758	0.0919354	2.3963822	45	2	1997–2000	0.51	M-v	3	Williams	38770	1997 CZ
1997 CB ₁	14.6	0.15	20000226	43.37224	254.52920	165.00065	4.88745	0.1183541	2.2215144	57	2	1997–2000	0.63	M-v	4	Williams	38771	1997 CB ₁
1997 CZ ₂₁	15.3	0.15	20000226	304.82753	201.89506	10.37620	2.62023	0.0518737	2.1147745	56	3	1997–2000	0.54	M-v	3	Williams	38771	1997 CZ ₂₁
1997 CC ₂₂	15.0	0.15	20000226	282.51302	211.33060	358.69842	4.09792	0.1016119	2.2376180	64	3	1997–2000	0.70	M-v	3	Williams	38771	1997 CC ₂₂
1997 CB ₂₈	14.2	0.15	20000226	87.35708	234.53859	129.94373	5.59454	0.1129980	2.3042140	38	2	1997–2000	0.55	M-v	5	Williams	37662	1997 CB ₂₈
1997 CT ₂₉	6.6	0.15	20000226	210.02343	214.01434	74.73472	1.01560	0.0288971	43.7372804	29	4	1997–2000	0.40	M-v	5	Marsden	38771	1997 CT ₂₉
1997 EE	15.0	0.15	20000226	9.81572	60.16924	43.36990	4.02128	0.0956979	2.2527978	61	2	1997–2000	0.66	M-v	3	Williams	38771	1997 EE
1997 EY ₂	15.1	0.15	20000226	352.04533	30.15176	118.67553	3.20104	0.0657355	2.1897071	84	3	1997–2000	0.53	M-v	3	Williams	38771	1997 EY ₂
1997 ER ₅	14.7	0.15	20000226	45.52236	231.97857	165.04074	2.24640	0.1425735	2.4808706	66	2	1997–2000	0.60	M-v	4	Williams	38771	1997 ER ₅
1997 EJ ₁₁	16.2	0.15	20000226	263.17230	82.33773	164.35248	5.20073	0.0846865	2.1869987	42	3	1995–2000	0.51	M-v	3	Williams	38771	1997 EJ ₁₁
1997 EO ₁₇	14.2	0.15	20000226	95.33809	320.26353	63.69819	7.47808	0.1670495	2.2813763	47	3	1997–2000	0.59	M-v	2	Williams	38771	1997 EO ₁₇
1997 EE ₂₃	13.8	0.15	20000226	9.54651	0.55058	99.35657	7.82426	0.0728657	2.3912382	104	3	1997–2000	0.55	M-v	3	Williams	38771	1997 EE ₂₃
1997 EP ₂₅	14.3	0.15	20000226	343.62545	121.23608	352.16056	2.24005	0.0889649	2.2707385	55	2	1997–2000	0.39	M-v	3	Williams	38771	1997 EP ₂₅
1997 EO ₃₀	13.8	0.15	20000226	20.85228	312.02217	110.83554	7.06603	0.0878258	2.3591457	75	2	1997–2000	0.48	M-v	2	Williams	38771	1997 EO ₃₀
1997 EF ₃₂	15.3	0.15	20000226	109.40905	1.97208	355.41963	1.54571	0.2391488	2.4184787	27	2	1997–2000	0.53	M-v	4	Marsden	38771	1997 EF ₃₂
1997 EQ ₃₂	15.6	0.15	20000226	201.33548	311.38670	4.98897	7.07254	0.2192242	2.2484431	33	4	1991–2000	0.61	M-v	2	Williams	35699	1997 EQ ₃₂
1997 EY ₄₅	14.4	0.15	20000226	334.57785	43.57350	81.83372	3.24505	0.1517173	2.3873891	90	3	1995–2000	0.50	M-v	2	Williams	38771	1997 EY ₄₅
1997 FC ₁	14.6	0.15	20000226	304.00885	51.31030	127.17677	7.14514	0.0921070	2.3447850	53	3	1997–2000	0.59	M-v	3	Williams	38771	1997 FC ₁
1997 FW ₃	15.4	0.15	20000226	206.92317	322.75130	347.36409	4.14230	0.1151352	2.2476397	65	3	1997–2000	0.65	M-v	3	Williams	38772	1997 FW ₃
1997 FD ₄	15.2	0.15	20000226	71.83782	245.09424	180.96865	6.49357	0.0490960	2.2510815	61	3	1997–2000	0.75	M-v	2	Williams	38772	1997 FD ₄
1997 GY	16.2	0.15	20000226	351.46132	339.59623	201.75013	2.66563	0.0957516	2.1410282	50	3	1997–2000	0.52	M-v	4	Williams	35699	1997 GY
1997 GV ₃	15.1	0.15	20000226	299.49432	171.08144	26.46523	7.37295	0.0652378	2.2923780	39	3	1997–2000	0.68	M-v	3	Williams	38042	1997 GV ₃
1997 GL ₆	14.8	0.15	20000226	105.97505	216.41927	190.39757	3.27310	0.1347246	2.2758935	75	3	1997–2000	0.60	M-v	3	Williams	38772	1997 GL ₆
1997 GB ₇	14.5	0.15	20000226	264.02601	186.31813	47.22877	3.30956	0.0124127	2.3756585	91	3	1997–2000	0.63	M-v	3	Williams	38772	1997 GB ₇
1997 GG ₇	15.1	0.15	20000226	175.59270	169.26217	181.50420	4.36908	0.2000668	2.3168495	73	3	1997–2000	0.69	M-v	3	Williams	35699	1997 GG ₇
1997 GU ₇	15.8	0.15	20000226	213.59201	245.40119	72.71350	3.71118	0.2136277	2.3221151	40	3	1996–2000	0.44	M-v	4	Williams	30473	1997 GU ₇
1997 GV ₇	15.2	0.15	20000226	156.84513	316.41729	48.19756	8.33790	0.1422013	2.2978202	44	3	1997–2000	0.62	M-v	3	Williams	35699	1997 GV ₇
1997 GC ₈	15.0	0.15	20000226	164.75723	331.51611	35.04235	8.60914	0.1400617	2.2481923	59	3	1997–2000	0.59	M-v	3	Williams	38772	1997 GC ₈
1997 GM ₈	14.7	0.15	20000226	129.00974	145.64296	222.71514	5.84005	0.1476108	2.4422855	62	3	1997–2000	0.50	M-v	3	Williams	38772	1997 GM ₈
1997 GE ₉	16.6	0.15	20000226	199.48150	12.14022	289.58810	1.82152	0.1638932	2.3572799	16	2	1997–2000	0.54	M-v	5	Williams	38458	1997 GE ₉
1997 GT ₁₁	15.6	0.15	20000226	183.92218	108.04464	235.78829	2.05777	0.1254943	2.1787301	52	4	1994–2000	0.75	M-v	3	Williams	35699	1997 GT ₁₁
1997 GP ₁₂	14.2	0.15	20000226	112.53858	318.43688	49.73117	3.17597	0.2139545	2.3843864	36	4	1991–2000	0.59	M-v	1	Williams	38772	1997 GP ₁₂
1997 GJ ₁₃	15.3	0.15	20000226	176.86587	127.61679	206.54380	2.28529	0.2430370	2.3245089	55	3	1997–2000	0.55	M-v	4	Williams	34296	1997 GJ ₁₃
1997 GK ₁₃	14.6	0.15	20000226	175.65155	311.86529	13.33017	7.56242	0.2511025	2.4009951	33	4	1983–2000	0.65	M-v	2	Williams	33258	1997 GK ₁₃
1997 GO ₁₃	16.0	0.15	20000226	225.55404	36.23997	282.84720	0.49130	0.1853324	2.1531924	39	5	1991–2000	0.68	M-v	3	Williams	33752	1997 GO ₁₃
1997 GB ₁₄	14.7	0.15	20000226	86.35579	186.43773	232.35160	3.55721	0.1296800	2.1979476	42	3	1997–2000	0.55	M-v	2	Williams	38458	1997 GB ₁₄
1997 GL ₁₄	15.5	0.15	20000226	220.06933	345.62592	299.83212	2.72876	0.1394396	2.3282122	39	3	1997–2000	0.71	M-v	3	Williams	38772	1997 GL ₁₄
1997 GC ₁₅	15.7	0.15	20000226	205.56366	304.26364	355.46003	4.02436	0.1234476	2.3203101	47	3	1997–2000	0.73	M-v	4	Marsden	38772	1997 GC ₁₅
1997 GU ₁₅	16.3	0.15	20000226	234.25782	100.98850	184.04133	6.30568	0.0327337	2.1962267	26	3	1997–2000	0.78	M-v	3	Williams	35699	1997 GU ₁₅
1997 GZ ₁₆	15.0	0.15	20000226	182.17443	144.97109	205.68176	7.36167	0.1720179	2.1686321	60	3	1997–2000	0.70	M-v	3	Williams	35699	1997 GZ ₁₆
1997 GA ₁₇	15.8	0.15	20000226	156.40314	6.35482	348.03096	2.00587	0.1019299	2.2469620	54	3	1997–2000	0.62	M-v	4	Williams	35699	1997 GA ₁₇
1997 GD ₁₇	14.8	0.15	20000226	31.51706	148.96772	276.17441	1.74091	0.1856664	2.4175911	71	4	1980–2000	0.59	M-v	2	Williams	38772	1997 GD ₁₇
1997 GF ₁₇	14.3	0.15	20000226	288.61179	9.12804	213.87139	5.24232	0.1351073	2.2492587	92	3	1997–2000	0.52	M-v	3	Williams	38772	1997 GF ₁₇
1997 GL ₁₇	14.5	0.15	20000226	280.39770	219.80677	331.29685	2.01103	0.1459853	2.4206248	65	3	1997–2000	0.68	M-v	3	Williams	38043	1997 GL ₁₇

1997 GY ₁₇	15.6	0.15	20000226	331.13289	149.41808	22.42534	6.63806	0.0603657	2.2445434	29	3	1997-2000	0.56	M-v	4	Williams	35699	1997 GY ₁₇
1997 GX ₂₀	15.5	0.15	20000226	154.42051	154.05754	215.17352	3.23207	0.1007962	2.1653602	61	3	1997-2000	0.79	M-v	3	Williams	38772	1997 GX ₂₀
1997 GS ₂₁	14.6	0.15	20000226	158.89832	292.22502	44.01476	8.00763	0.1303541	2.4730444	53	4	1990-2000	0.52	M-v	1	Williams	37274	1997 GS ₂₁
1997 GE ₂₂	14.0	0.15	20000226	248.06148	236.66661	36.57072	6.20675	0.2210207	2.3490094	45	2	1997-2000	0.46	M-v	4	Williams	38458	1997 GE ₂₂
1997 GA ₂₆	14.4	0.15	20000226	280.41877	191.57522	51.68340	7.19795	0.1560139	2.2354471	122	3	1997-2000	0.59	M-v	3	Williams	38773	1997 GA ₂₆
1997 GH ₂₈	18.0	0.15	20000226	47.57612	104.99681	354.65114	7.01470	0.3714479	2.0039172	22	3	1993-2000	0.61	M-v	3	Marsden	37669	1997 GH ₂₈
1997 GC ₃₃	15.1	0.15	20000226	51.52258	92.19592	346.56912	2.74356	0.1234683	2.2674641	68	3	1997-2000	0.73	M-v	2	Marsden	38773	1997 GC ₃₃
1997 GR ₃₅	13.6	0.15	20000226	72.33961	173.55435	219.17113	11.55930	0.2878235	2.6563577	36	2	1997-2000	0.55	M-v	4	Williams	38773	1997 GR ₃₅
1997 GX ₃₅	14.7	0.15	20000226	182.34970	150.94151	180.54096	4.94160	0.1091392	2.3634027	77	3	1997-2000	0.65	M-v	3	Williams	38773	1997 GX ₃₅
1997 GB ₃₆	15.3	0.15	20000226	20.53135	56.03742	66.84105	6.98104	0.1599762	2.2525425	50	2	1997-2000	0.47	M-v	3	Williams	38459	1997 GB ₃₆
1997 GD ₃₈	15.2	0.15	20000226	165.24380	301.36988	58.35968	7.89252	0.1258726	2.2909784	42	3	1997-2000	0.56	M-v	3	Williams	38773	1997 GD ₃₈
1997 GM ₄₀	13.6	0.15	20000226	0.62353	54.58968	66.33314	8.50306	0.1915174	2.3213486	69	3	1953-2000	0.57	M-v	2	Williams	38773	1997 GM ₄₀
1997 GD ₄₂	14.4	0.15	20000226	310.95779	357.32038	177.09160	5.77128	0.0768757	2.3956223	64	3	1997-2000	0.71	M-v	3	Williams	38773	1997 GD ₄₂
1997 HQ	13.8	0.15	20000226	44.80244	217.03087	210.86864	5.93320	0.0936261	2.4637448	68	3	1997-2000	0.46	M-v	2	Williams	38773	1997 HQ
1997 HF ₇	14.6	0.15	20000226	71.47662	9.83054	54.80826	1.46519	0.1783821	2.3280428	63	3	1997-2000	0.50	M-v	3	Williams	38773	1997 HF ₇
1997 HJ ₈	15.2	0.15	20000226	135.03131	198.25963	176.64035	2.11684	0.2353415	2.3799065	86	3	1997-2000	0.61	M-v	3	Williams	35700	1997 HJ ₈
1997 HX ₉	15.8	0.15	20000226	186.14441	280.63977	50.10891	8.70047	0.1375463	2.3556239	35	3	1997-2000	0.66	M-v	3	Williams	35700	1997 HX ₉
1997 HY ₉	14.3	0.15	20000226	146.33666	298.71587	52.06443	8.42518	0.1256162	2.4470932	45	3	1997-2000	0.69	M-v	3	Williams	37670	1997 HY ₉
1997 HZ ₁₀	15.7	0.15	20000226	220.05355	295.66843	23.97060	3.28082	0.2224621	2.2957786	24	3	1996-2000	0.36	M-v	4	Williams	32964	1997 HZ ₁₀
1997 HT ₁₁	15.3	0.15	20000226	249.28538	239.15398	35.32340	4.61568	0.2300435	2.3435687	54	3	1994-2000	0.51	M-v	3	Williams	30691	1997 HT ₁₁
1997 HV ₁₁	14.9	0.15	20000226	96.20382	17.67976	35.87457	6.80705	0.1055968	2.3050283	53	3	1997-2000	0.48	M-v	2	Williams	38044	1997 HV ₁₁
1997 JR	13.5	0.15	20000226	164.69138	280.99405	58.97629	13.68159	0.2587077	2.4216750	92	3	1997-2000	0.73	M-v	2	Williams	38773	1997 JR
1997 JU ₇	13.9	0.15	20000226	99.40416	208.99202	202.27701	14.44687	0.1783946	2.3853593	66	3	1997-2000	0.60	M-v	2	Williams	38773	1997 JU ₇
1997 JV ₇	14.2	0.15	20000226	12.59817	330.83619	169.61236	6.69302	0.0886308	2.2989345	115	3	1997-2000	0.59	M-v	2	Williams	38773	1997 JV ₇
1997 JH ₁₀	15.3	0.15	20000226	342.55139	324.67522	202.98872	2.37418	0.0869161	2.3076954	55	3	1997-2000	0.65	M-v	4	Williams	38773	1997 JH ₁₀
1997 JA ₁₁	13.1	0.15	20000226	65.22640	233.24328	149.91111	14.97143	0.3090109	3.1378427	80	3	1997-2000	0.61	M-v	2	Williams	38773	1997 JA ₁₁
1997 JD ₁₂	15.1	0.15	20000226	157.78677	149.02939	220.55679	6.38181	0.1169794	2.2821347	54	4	1991-2000	0.83	M-v	2	Williams	34296	1997 JD ₁₂
1997 JA ₁₃	14.9	0.15	20000226	184.19200	166.86007	161.63883	3.01665	0.1503223	2.4138124	47	3	1997-2000	0.67	M-v	3	Williams	38459	1997 JA ₁₃
1997 JY ₁₃	14.4	0.15	20000226	354.26229	353.62003	138.03320	1.33007	0.1492782	2.3753497	72	3	1997-2000	0.57	M-v	3	Williams	38773	1997 JY ₁₃
1997 JD ₁₄	13.6	0.15	20000226	112.72066	162.98461	208.71628	14.04620	0.0158633	2.5450644	68	3	1997-2000	0.70	M-v	3	Williams	38773	1997 JD ₁₄
1997 JJ ₁₅	14.4	0.15	20000226	241.69712	84.05040	211.66103	5.48639	0.1366462	2.2783843	52	3	1997-2000	0.78	M-v	3	Williams	38773	1997 JJ ₁₅
1997 JN ₁₅	14.9	0.15	20000226	214.92340	225.27840	100.78057	2.13592	0.2482053	2.3407159	47	5	1993-2000	0.81	M-v	1	Williams	35700	1997 JN ₁₅
1997 JT ₁₅	12.8	0.15	20000226	114.41380	207.14986	116.02896	3.09909	0.0353908	2.9150354	120	3	1997-2000	0.51	M-v	2	Williams	38773	1997 JT ₁₅
1997 JF ₁₆	14.9	0.15	20000226	185.67857	151.11977	185.06980	4.28852	0.0468420	2.3224381	63	3	1997-2000	0.71	M-v	3	Williams	35700	1997 JF ₁₆
1997 JN ₁₆	13.9	0.15	20000226	143.43766	151.19910	196.81560	4.17246	0.1785363	2.6092171	84	3	1997-2000	0.74	M-v	3	Williams	38773	1997 JN ₁₆
1997 KA	12.7	0.15	20000226	198.85223	62.83281	254.34878	12.90704	0.1505775	2.6535737	69	3	1997-2000	0.62	M-v	3	Williams	38773	1997 KA
1997 KC	13.7	0.15	20000226	255.76964	140.50189	97.98930	14.46213	0.2018163	2.4404506	108	3	1997-2000	0.62	M-v	2	Williams	38773	1997 KC
1997 KG	13.7	0.15	20000226	77.43047	280.68016	95.48441	3.32851	0.0869669	2.8864238	106	3	1997-2000	0.59	M-v	3	Williams	38773	1997 KG
1997 KS	13.7	0.15	20000226	238.72408	73.60135	225.20237	5.72622	0.1357494	2.4571993	42	4	1995-2000	0.65	M-v	2	Williams	38773	1997 KS
1997 KO ₂	14.8	0.15	20000226	122.92937	316.86163	90.39128	6.56350	0.1276307	2.2851286	30	3	1997-2000	0.76	M-v	3	Williams	33344	1997 KO ₂
1997 KU ₂	13.6	0.15	20000226	308.34879	27.64783	130.56619	13.80141	0.1106535	2.5973662	76	3	1997-2000	0.66	M-v	3	Williams	38773	1997 KU ₂
1997 KH ₄	13.7	0.15	20000226	348.39891	73.20758	103.46847	6.32226	0.0794866	2.2606261	77	3	1997-2000	0.52	M-v	2	Williams	38773	1997 KH ₄
1997 LL ₂	15.0	0.15	20000226	199.33842	134.45563	208.58132	5.96161	0.1532509	2.3044069	33	4	1996-2000	0.60	M-v	1	Williams	33556	1997 LL ₂
1997 LB ₄	15.0	0.15	20000226	232.18969	5.03986	310.09047	1.33742	0.2063260	2.5783796	33	4	1993-2000	0.72	M-v	2	Williams	30788	1997 LB ₄
1997 LT ₄	15.1	0.15	20000226	71.31897	281.87376	113.40730	6.39184	0.0707153	2.7088898	27	2	1997-2000	0.71	M-v	4	Williams	37672	1997 LT ₄
1997 LZ ₄	14.3	0.15	20000226	118.19357	140.49001	227.77669	4.57773	0.1687916	2.6895595	77	3	1997-2000	0.59	M-v	3	Williams	38773	1997 LZ ₄
1997 LA ₅	15.1	0.15	20000226	192.35562	234.04344	109.51420	15.76948	0.1498256	2.5621352	41	3	1997-2000	0.41	M-v	2	Williams	33556	1997 LA ₅
1997 MG	14.5	0.15	20000226	319.98065	98.56286	114.57143	6.52057	0.1998466	2.3454329	47	3	1986-2000	0.42	M-v	2	Williams	38460	1997 MG
1997 MG ₁	12.9	0.15	20000226	45.77128	206.55485	189.86333	10.56326	0.1110856	2.9989959	84	3	1997-2000	0.46	M-v	2	Williams	38774	1997 MG ₁
1997 MQ ₁	14.8	0.15	20000226	336.06684	15.06574	206.62736	5.85801	0.0898567	2.2544113	35	3	1997-2000	0.80	M-v	4	Williams	33752	1997 MQ ₁
1997 MR ₁	14.9	0.15	20000226	286.48244	349.36855	252.61340	23.65172	0.0943956	2.2992714	45	3	1997-2000	0.52	M-v	3	Marsden	34296	1997 MR ₁
1997 MT ₃	15.4	0.15	20000226	221.95662	183.08347	128.11696	3.41401	0.0959292	2.4612802	30	3	1997-2000	0.48	M-v	3	Williams	33499	1997 MT ₃
1997 MN ₄	14.7	0.15	20000226	223.17534	55.51710	274.57665	4.69411	0.2595517	2.4235306	34	3	1997-2000	0.57	M-v	4	Williams	33698	1997 MN ₄

1997 MY ₄	14.7	0.15	20000226	286.23406	85.01669	153.07645	2.81072	0.1470936	2.4101662	60	3	1997-2000	0.51	M-v	4	Williams	38774	1997 MY ₄
1997 MY ₅	15.3	0.15	20000226	339.56976	317.36984	228.70308	10.13831	0.1235449	2.5599729	30	3	1997-2000	0.39	M-v	4	Williams	33261	1997 MY ₅
1997 MR ₈	14.1	0.15	20000226	288.47539	89.87138	131.67089	12.87774	0.2177810	2.5979080	52	3	1996-2000	0.57	M-v	2	Williams	38774	1997 MR ₈
1997 NP	13.3	0.15	20000226	103.26553	115.09807	295.76550	4.73560	0.1005757	2.9113993	52	3	1997-2000	0.62	M-v	3	Williams	38774	1997 NP
1997 NQ	13.7	0.15	20000226	177.98895	136.18301	212.55652	12.23370	0.1929761	2.6904625	45	4	1993-2000	0.65	M-v	1	Williams	36077	1997 NQ
1997 NB ₁	14.8	0.15	20000226	288.20805	205.63956	39.04928	2.55990	0.1680296	2.3885681	49	2	1997-2000	0.51	M-v	4	Williams	38460	1997 NB ₁
1997 NU ₁	13.9	0.15	20000226	130.69561	140.94255	230.11122	1.09793	0.1028172	2.8515217	86	3	1997-2000	0.63	M-v	3	Williams	38774	1997 NU ₁
1997 NR ₂	14.8	0.15	20000226	142.54932	240.23465	156.62741	1.57846	0.1184191	2.6281085	65	5	1993-2000	0.57	M-v	1	Williams	33556	1997 NR ₂
1997 NE ₃	13.5	0.15	20000226	350.54982	247.84886	293.58330	6.55651	0.1551014	2.3966138	84	3	1997-2000	0.58	M-v	3	Williams	38774	1997 NE ₃
1997 NG ₆	13.2	0.15	20000226	97.19478	242.64088	108.23557	11.68637	0.0740685	2.9917396	59	3	1997-2000	0.43	M-v	3	Williams	38774	1997 NG ₆
1997 OZ	14.2	0.15	20000226	169.79076	230.80844	83.05345	2.71762	0.1916458	3.0712776	37	6	1976-2000	0.65	M-v	1	Marsden	34016	1997 OZ
1997 OG ₁	16.2	0.15	20000226	317.99900	288.44374	300.73999	22.14171	0.2523238	2.2730486	36	2	1997-2000	0.69	M-v	3	Williams	37673	1997 OG ₁
1997 OL ₂	13.5	0.15	20000226	141.76286	71.38505	292.09272	2.80711	0.1489609	3.0471341	48	3	1997-2000	0.54	M-v	3	Williams	38774	1997 OL ₂
1997 PR	14.8	0.15	20000226	269.79448	333.85496	320.08022	8.54323	0.2103762	2.3866178	70	4	1986-2000	0.66	M-v	1	Williams	33556	1997 PR
1997 PZ ₁	14.2	0.15	20000226	139.82106	213.56659	155.47971	2.89421	0.1007159	2.9677934	77	3	1997-2000	0.59	M-v	3	Williams	38774	1997 PZ ₁
1997 PM ₂	14.0	0.15	20000226	115.70364	119.03040	305.17280	4.59883	0.1512403	2.8353847	42	4	1993-2000	0.58	M-v	1	Williams	33753	1997 PM ₂
1997 PP ₂	14.4	0.15	20000226	128.51627	52.96606	310.79953	21.63163	0.0910965	3.1697144	34	2	1997-2000	0.41	M-v	3	Williams	38461	1997 PP ₂
1997 PE ₃	14.1	0.15	20000226	311.38215	240.37071	340.23372	9.49295	0.1956803	2.6872575	100	3	1997-2000	0.43	M-v	3	Williams	38774	1997 PE ₃
1997 PN ₃	14.4	0.15	20000226	194.10398	309.68288	25.53143	2.39861	0.0621664	2.8753817	44	2	1997-2000	0.54	M-v	4	Williams	38461	1997 PN ₃
1997 QF	13.2	0.15	20000226	240.89904	137.62586	139.23210	14.08418	0.0675679	3.0218235	122	3	1997-2000	0.59	M-v	3	Williams	38774	1997 QF
1997 QK	13.2	0.15	20000226	165.45282	38.35200	296.63882	9.14464	0.1415438	3.0873791	127	3	1997-2000	0.46	M-v	2	Williams	38774	1997 QK
1997 QL	14.7	0.15	20000226	72.44565	164.64993	292.40308	8.54479	0.0498083	2.7378711	46	3	1997-2000	0.49	M-v	4	Williams	35701	1997 QL
1997 QM	14.1	0.15	20000226	340.14736	57.95383	169.48007	15.05176	0.0119794	2.5367046	73	4	1993-2000	0.59	M-v	1	Williams	35701	1997 QM
1997 QE ₁	12.8	0.15	20000226	5.40554	2.23475	91.59743	16.27929	0.1372552	2.6329510	77	3	1982-2000	0.49	M-v	2	Williams	38774	1997 QE ₁
1997 QE ₂	13.9	0.15	20000226	141.29832	16.08786	30.88921	4.89454	0.1283159	2.8086699	47	4	1988-2000	0.87	M-v	1	Williams	34016	1997 QE ₂
1997 QF ₂	13.2	0.15	20000226	148.33903	5.40853	5.45876	12.92524	0.1444110	3.0620077	46	3	1997-2000	0.72	M-v	3	Williams	38774	1997 QF ₂
1997 QS ₂	13.9	0.15	20000226	79.30380	7.46455	72.07735	6.45929	0.1614402	3.1485275	67	3	1997-2000	0.61	M-v	3	Williams	38774	1997 QS ₂
1997 QP ₃	14.9	0.15	20000226	276.31333	129.53799	188.15888	3.49074	0.1929643	2.4501229	38	5	1993-2000	0.80	M-v	1	Williams	35701	1997 QP ₃
1997 RF	13.1	0.15	20000226	53.34060	297.31746	170.82775	23.51405	0.1924463	3.2243966	55	4	1988-2000	0.52	M-v	0	Williams	38774	1997 RF
1997 RO	14.4	0.15	20000226	233.59522	129.68429	161.61951	5.21622	0.1010475	2.6933358	37	2	1997-2000	0.54	M-v	4	Williams	38461	1997 RO
1997 RA ₁	13.6	0.15	20000226	160.40804	11.07515	355.32395	8.85766	0.0301503	3.0623240	104	3	1997-2000	0.58	M-v	3	Williams	38774	1997 RA ₁
1997 RJ ₁	13.4	0.15	20000226	140.51647	236.31972	128.17748	6.37897	0.1434088	3.2004578	54	6	1977-2000	0.78	M-v	1	Williams	38774	1997 RJ ₁
1997 RY ₂	14.4	0.15	20000226	188.63421	140.51520	200.82922	3.37391	0.1036340	2.7631341	35	4	1996-2000	0.64	M-v	1	Williams	33557	1997 RY ₂
1997 RC ₃	14.0	0.15	20000226	251.93630	103.70985	177.66611	11.40223	0.1680463	2.7122859	37	3	1997-2000	0.63	M-v	4	Williams	38461	1997 RC ₃
1997 RL ₇	14.5	0.15	20000226	246.19367	304.22338	358.54142	13.00173	0.1917482	2.5392147	64	4	1993-2000	0.53	M-v	1	Williams	33557	1997 RL ₇
1997 RR ₈	12.7	0.15	20000226	261.62651	70.16620	193.50951	10.05194	0.0691114	2.9809385	52	4	1992-2000	0.59	M-v	1	Williams	38774	1997 RR ₈
1997 RY ₈	13.4	0.15	20000226	39.77992	336.31059	172.29414	10.55127	0.0999676	3.0317922	61	3	1997-2000	0.49	M-v	3	Williams	38774	1997 RY ₈
1997 RB ₉	14.2	0.15	20000226	226.10769	356.09989	332.29941	4.57592	0.1558871	2.6162976	56	3	1997-2000	0.49	M-v	2	Williams	33753	1997 RB ₉
1997 RM ₉	14.5	0.15	20000226	235.89738	323.99563	356.59871	12.57284	0.1647086	2.7502306	44	3	1997-2000	0.50	M-v	3	Williams	33699	1997 RM ₉
1997 RU ₉	14.9	0.15	20000226	355.25963	30.49446	178.60830	4.23061	0.1463022	2.5643041	24	4	1971-2000	0.74	M-v	2	Williams	33700	1997 RU ₉
1997 RJ ₁₀	13.1	0.15	20000226	121.93533	249.44337	169.21605	2.06875	0.0364821	2.9410423	65	4	1977-2000	0.59	M-v	1	Williams	33753	1997 RJ ₁₀
1997 SF	14.0	0.15	20000226	114.24562	315.93254	87.24316	6.25113	0.1505311	3.1143153	67	4	1995-2000	0.51	M-v	1	Williams	35701	1997 SF
1997 SR	13.6	0.15	20000226	210.89813	353.41713	324.33041	11.91801	0.1738583	2.7173659	69	3	1997-2000	0.56	M-v	3	Williams	38774	1997 SR
1997 SM ₁	12.6	0.15	20000226	342.05269	5.33473	199.20181	13.38849	0.1065522	2.6822309	56	3	1997-2000	0.52	M-v	3	Williams	38774	1997 SM ₁
1997 SN ₁	13.9	0.15	20000226	273.06930	299.30729	336.63188	12.26598	0.1678770	2.6877774	59	3	1997-2000	0.53	M-v	3	Williams	38774	1997 SN ₁
1997 SZ ₂	13.7	0.15	20000226	87.83069	131.41608	323.83959	1.25252	0.1409058	3.1356688	38	3	1997-2000	0.76	M-v	3	Williams	35701	1997 SZ ₂
1997 SM ₃	12.9	0.15	20000226	312.94660	265.47422	325.65134	14.70115	0.0918431	2.6353751	51	3	1997-2000	0.65	M-v	3	Williams	38774	1997 SM ₃
1997 SD ₄	14.2	0.15	20000226	171.74807	160.53962	206.73587	4.70232	0.1626601	3.1186791	25	3	1997-2000	0.39	M-v	3	Williams	34204	1997 SD ₄
1997 SZ ₄	13.5	0.15	20000226	189.03832	322.21286	8.47140	21.38287	0.0840608	3.1601060	30	3	1997-2000	0.45	M-v	3	Williams	38774	1997 SZ ₄
1997 SQ ₉	14.6	0.15	20000226	55.65570	116.56595	356.89248	12.94886	0.0799606	3.1036916	34	3	1997-2000	0.52	M-v	4	Williams	33754	1997 SQ ₉
1997 SW ₉	13.6	0.15	20000226	48.75695	252.53138	238.11010	10.42475	0.0984402	3.0712626	51	4	1996-2000	0.66	M-v	1	Williams	35701	1997 SW ₉
1997 SN ₁₀	13.1	0.15	20000226	219.30536	91.15841	194.01569	4.66005	0.1573940	3.1268501	36	4	1991-2000	0.53	M-v	1	Williams	38774	1997 SN ₁₀
1997 SF ₁₁	13.8	0.15	20000226	63.14398	264.79155	215.69347	12.67854	0.0567517	3.1013890	54	4	1995-2000	0.59	M-v	1	Williams	38774	1997 SF ₁₁

1997 SG ₂₁	13.1	0.15	20000226	159.76467	176.84395	210.65977	9.49656	0.0916173	3.0574426	37	4	1986-2000	0.77	M-v	1	Williams	35701	1997 SG ₂₁
1997 SK ₂₅	13.5	0.15	20000226	156.60092	211.05493	172.42981	9.96792	0.0920139	2.9835067	51	4	1994-2000	0.62	M-v	1	Williams	35701	1997 SK ₂₅
1997 SJ ₂₉	13.5	0.15	20000226	66.74905	172.20846	289.10587	9.30591	0.0677239	2.9542975	28	3	1997-2000	0.63	M-v	5	Williams	34017	1997 SJ ₂₉
1997 SS ₃₁	13.1	0.15	20000226	78.01020	192.40265	238.49930	4.32014	0.1655241	3.1845992	71	3	1997-2000	0.69	M-v	3	Williams	38775	1997 SS ₃₁
1997 TR	13.1	0.15	20000226	178.82297	327.66344	5.69613	8.86496	0.1160698	3.0699635	89	3	1997-2000	0.62	M-v	3	Williams	38775	1997 TR
1997 TK ₁	14.1	0.15	20000226	58.27761	153.52128	329.74597	4.02132	0.0958275	2.6471879	40	4	1993-2000	0.69	M-v	1	Williams	38045	1997 TK ₁
1997 TV ₁₇	13.5	0.15	20000226	218.22492	108.44827	205.79948	9.91894	0.0569359	3.1675049	38	4	1985-2000	0.78	M-v	1	Williams	38775	1997 TV ₁₇
1997 TM ₁₈	13.5	0.15	20000226	287.20782	246.48631	27.15761	10.67680	0.1689792	2.5774616	52	4	1971-2000	0.66	M-v	1	Williams	33754	1997 TM ₁₈
1997 TR ₁₈	12.6	0.15	20000226	36.69326	293.89581	200.33328	9.46205	0.0429923	2.9872184	48	4	1992-2000	0.46	M-v	1	Williams	38045	1997 TR ₁₈
1997 TS ₁₈	13.6	0.15	20000226	239.60483	302.69780	334.33992	8.35875	0.1327093	2.7642939	71	3	1997-2000	0.65	M-v	3	Williams	38775	1997 TS ₁₈
1997 TX ₁₈	14.8	0.15	20000226	265.93685	156.80289	123.72959	2.97995	0.0474613	2.8523677	23	3	1995-2000	0.41	M-v	3	Williams	35613	1997 TX ₁₈
1997 TF ₁₉	14.1	0.15	20000226	174.62136	318.04712	40.08107	1.83962	0.2115995	3.1167728	34	4	1991-2000	0.75	M-v	2	Williams	35702	1997 TF ₁₉
1997 TS ₂₂	14.3	0.15	20000226	100.87732	91.92309	351.68096	1.57808	0.0603782	2.9254925	32	3	1997-2000	0.68	M-v	4	Williams	34017	1997 TS ₂₂
1997 TJ ₂₄	12.4	0.15	20000226	90.08932	233.89433	228.06728	8.99997	0.0718204	3.0519406	49	4	1996-2000	0.54	M-v	1	Williams	35613	1997 TJ ₂₄
1997 TA ₂₆	14.2	0.15	20000226	66.96350	86.91387	24.04537	18.27451	0.1385678	3.2073685	38	3	1997-2000	0.76	M-v	3	Williams	38775	1997 TA ₂₆
1997 TB ₂₆	13.6	0.15	20000226	157.74903	213.34007	159.70785	5.95056	0.1723139	3.1040102	26	3	1997-2000	0.27	M-v	3	Williams	33702	1997 TB ₂₆
1997 UH	14.2	0.15	20000226	346.62199	78.16064	157.26011	14.29107	0.1138071	2.6293328	34	3	1997-2000	0.63	M-v	3	Williams	34017	1997 UH
1997 UK ₇	14.2	0.15	20000226	181.88328	68.05742	325.76009	2.76576	0.0503151	2.6331328	53	3	1989-1999	0.73	M-v	4	Williams	36526	1997 UK ₇
1997 UU ₇	14.4	0.15	20000226	305.41899	122.50288	162.57458	6.59771	0.1440720	2.3087047	35	4	1972-2000	0.47	M-v	1	Williams	34587	1997 UU ₇
1997 US ₁₀	13.4	0.15	20000226	105.69955	198.22581	227.67067	10.65693	0.0554755	2.8536209	40	3	1997-2000	0.57	M-v	3	Williams	34298	1997 US ₁₀
1997 UB ₁₁	12.1	0.15	20000226	116.51702	27.69387	0.60191	21.38245	0.0409360	3.2154329	59	3	1997-2000	0.61	M-v	2	Williams	38775	1997 UB ₁₁
1997 UC ₁₁	13.6	0.15	20000226	297.53492	264.16648	7.54932	23.20235	0.2096285	2.3612918	42	3	1997-2000	0.48	M-v	3	Williams	38775	1997 UC ₁₁
1997 UF ₁₁	13.5	0.15	20000226	260.93352	306.88398	28.08046	23.15243	0.2259995	2.3573174	27	3	1997-2000	0.73	M-v	3	Williams	35944	1997 UF ₁₁
1997 UW ₁₄	13.5	0.15	20000226	145.52301	343.55563	50.30959	6.53430	0.1138872	3.1675612	43	3	1997-2000	0.56	M-v	3	Williams	34018	1997 UW ₁₄
1997 UW ₁₈	12.4	0.15	20000226	28.47950	91.78502	62.72116	9.24379	0.0122875	3.4017656	51	3	1997-2000	0.62	M-v	3	Williams	38046	1997 UW ₁₈
1997 UX ₂₀	13.2	0.15	20000226	164.41058	312.73669	68.29959	1.71738	0.1415381	3.2236311	38	5	1971-2000	0.72	M-v	2	Williams	34018	1997 UX ₂₀
1997 UA ₂₁	14.1	0.15	20000226	261.89826	91.96465	210.01154	9.56931	0.0887699	2.5745997	29	3	1996-2000	0.50	M-v	3	Williams	31148	1997 UA ₂₁
1997 UC ₂₂	11.9	0.15	20000226	153.21006	51.45452	292.73958	17.63525	0.1536730	3.2077628	104	3	1997-2000	0.61	M-v	3	Williams	38775	1997 UC ₂₂
1997 UT ₂₂	12.9	0.15	20000226	175.40311	18.02265	345.78524	6.16731	0.2500780	3.1717115	31	4	1991-2000	0.63	M-v	2	Williams	34018	1997 UT ₂₂
1997 UE ₂₅	13.2	0.15	20000226	162.07356	276.35570	103.62837	3.35578	0.1577365	3.1336833	40	5	1991-2000	0.72	M-v	1	Williams	38775	1997 UE ₂₅
1997 VQ	13.0	0.15	20000226	188.96995	160.15500	207.77757	9.19922	0.0976546	3.0711412	46	5	1991-2000	0.74	M-v	1	Williams	35072	1997 VQ
1997 VC ₁	13.6	0.15	20000226	290.47539	215.93619	67.56683	3.12709	0.0273012	2.8826864	47	3	1997-2000	0.74	M-v	4	Williams	34018	1997 VC ₁
1997 VN ₁	12.9	0.15	20000226	152.13507	222.06910	169.06099	1.32425	0.1455844	3.2122583	52	5	1985-2000	0.68	M-v	1	Williams	35432	1997 VN ₁
1997 VM ₂	13.2	0.15	20000226	273.99515	74.70873	186.83548	10.20505	0.0160718	3.0840097	51	4	1981-2000	0.66	M-v	1	Williams	38775	1997 VM ₂
1997 VG ₈	13.8	0.15	20000226	204.75728	284.88240	60.71758	8.25238	0.0704790	2.9683949	38	4	1995-2000	0.61	M-v	1	Williams	34018	1997 VG ₈
1997 WG ₁	12.9	0.15	20000226	153.64996	124.29284	242.03530	9.87793	0.1134283	2.9916352	41	5	1982-2000	0.69	M-v	1	Williams	38775	1997 WG ₁
1997 WK ₂	12.8	0.15	20000226	260.53685	233.91380	75.20847	7.34664	0.1356268	3.1357965	32	3	1997-2000	0.76	M-v	4	Williams	35703	1997 WK ₂
1997 WQ ₁₁	13.1	0.15	20000226	325.32368	170.28441	53.44436	1.49158	0.1183922	3.1695224	69	3	1997-2000	0.72	M-v	3	Williams	38046	1997 WQ ₁₁
1997 WV ₁₃	13.2	0.15	20000226	321.44068	222.95097	353.61539	4.69387	0.1018476	3.1866879	58	3	1997-2000	0.63	M-v	4	Williams	38462	1997 WV ₁₃
1997 WU ₂₂	15.2	0.15	20000226	299.68835	334.14591	260.90647	15.98232	0.4424321	1.4674754	228	3	1990-2000	0.51	M-v	3	Williams	38775	1997 WU ₂₂
1997 WP ₂₈	13.8	0.15	20000226	162.80275	101.78885	275.30838	8.85550	0.1038879	2.9778196	39	4	1989-2000	0.61	M-v	1	Williams	38775	1997 WP ₂₈
1997 WZ ₃₀	13.8	0.15	20000226	212.19507	288.30611	81.41082	3.01574	0.0844072	2.8055704	42	3	1997-2000	0.76	M-v	4	Williams	34299	1997 WZ ₃₀
1997 WB ₃₃	13.3	0.15	20000226	148.79367	168.90060	224.96337	3.35493	0.1422396	3.3849383	47	4	1996-2000	0.65	M-v	1	Williams	34019	1997 WB ₃₃
1997 WC ₃₄	13.2	0.15	20000226	186.26057	228.33979	132.11585	2.23627	0.1364784	3.2364949	27	3	1971-2000	0.64	M-v	3	Williams	35703	1997 WC ₃₄
1997 XL ₁₀	13.1	0.15	20000226	181.08796	330.95844	71.99707	11.46736	0.1073936	2.9798413	62	3	1997-2000	0.88	M-v	4	Williams	34588	1997 XL ₁₀
1997 XF ₁₁	16.5	0.15	20000226	192.15814	102.48019	214.11728	4.09539	0.4836322	1.4416637	165	3	1990-2000	0.62	M-v	3	Williams	38775	1997 XF ₁₁
1997 YO ₁₄	13.3	0.15	20000226	226.22203	30.81305	311.32038	4.26110	0.2320360	2.6131476	33	3	1997-2000	0.67	M-v	4	Williams	34019	1997 YO ₁₄
1997 YQ ₁₉	12.8	0.15	20000226	195.70113	175.12031	186.99539	17.35644	0.1802261	3.1249754	37	5	1991-2000	0.51	M-v	1	Williams	34019	1997 YQ ₁₉
1998 BX ₁₃	12.9	0.15	20000226	272.73492	180.77985	114.55553	4.70884	0.2241075	2.8508172	45	6	1977-2000	0.57	M-v	1	Williams	34300	1998 BX ₁₃
1998 FW ₁₅	14.8	0.15	20000226	178.15007	141.44625	59.67454	10.45492	0.1657807	2.3870900	38	3	1989-1999	0.63	M-v	3	Williams	36079	1998 FW ₁₅
1998 FY ₄₁	15.2	0.15	20000226	61.44161	353.11052	339.58280	5.25843	0.1890099	2.2730693	97	3	1992-2000	0.59	M-v	2	Williams	38047	1998 FY ₄₁
1998 HO ₂₇	13.3	0.15	20000226	60.17525	256.74644	98.38036	6.10271	0.0777135	2.3793910	97	3	1954-2000	0.49	M-v	2	Williams	38777	1998 HO ₂₇
1998 HO ₃₀	14.4	0.15	20000226	102.45617	254.81329	75.87504	3.39313	0.2064523	2.1387690	93	2	1998-2000	0.55	M-v	4	Williams	38777	1998 HO ₃₀

1998 HD ₁₂₄	13.5	0.15	20000226	130.10304	209.45593	101.59060	9.31169	0.2809787	2.3075076	57	2	1998–2000	0.55	M-v	4	Williams	38777	1998 HD ₁₂₄
1998 HK ₁₂₄	14.4	0.15	20000226	52.16769	250.43409	126.97623	6.20697	0.1191537	2.2142343	92	3	1984–2000	0.56	M-v	2	Williams	38050	1998 HK ₁₂₄
1998 HW ₁₅₀	14.4	0.15	20000226	70.27742	205.55667	162.60711	5.13607	0.2384144	2.2992882	53	2	1998–2000	0.65	M-v	4	Williams	38778	1998 HW ₁₅₀
1998 HK ₁₅₁	7.5	0.15	20000226	2.04499	180.64199	50.25253	5.95438	0.2232119	39.0986554	18	2	1998–1999	0.10	M-v	5	Williams	34918	1998 HK ₁₅₁
1998 HQ ₁₅₁	8.8	0.15	20000226	10.86051	345.84569	228.89783	11.97380	0.2798364	39.1470151	16	2	1998–1999	0.16	M-v	5	Williams	34919	1998 HQ ₁₅₁
1998 JS	14.2	0.15	20000226	116.25247	44.63305	266.83565	4.58468	0.1604070	2.2691592	73	2	1998–2000	0.56	M-v	3	Williams	38778	1998 JS
1998 JF ₂	14.4	0.15	20000226	43.97049	288.61217	104.00468	4.72372	0.1299614	2.1985130	91	2	1998–2000	0.62	M-v	3	Williams	38778	1998 JF ₂
1998 KE ₅	12.6	0.15	20000226	58.72773	183.81205	176.13488	14.75675	0.2130216	3.1414471	75	3	1993–2000	0.55	M-v	1	Williams	38778	1998 KE ₅
1998 KH ₂₇	14.4	0.15	20000226	94.19485	190.98940	167.28381	3.44348	0.1567693	2.1542078	62	2	1998–2000	0.65	M-v	4	Williams	37689	1998 KH ₂₇
1998 KV ₃₂	14.4	0.15	20000226	138.87764	31.37543	261.94269	6.29130	0.1863889	2.3536068	90	3	1995–2000	0.67	M-v	3	Williams	38778	1998 KV ₃₂
1998 KE ₃₇	14.4	0.15	20000226	181.41729	41.61519	216.57661	3.57670	0.1195696	2.2031468	77	2	1998–2000	0.72	M-v	3	Williams	38778	1998 KE ₃₇
1998 KR ₅₄	13.8	0.15	20000226	34.71468	288.29315	104.44958	14.04213	0.1210626	2.3974772	80	3	1982–2000	0.67	M-v	2	Williams	38052	1998 KR ₅₄
1998 KT ₅₅	12.7	0.15	20000226	108.80858	218.14104	91.39880	17.52862	0.2335452	2.6564662	80	3	1980–2000	0.59	M-v	2	Williams	38778	1998 KT ₅₅
1998 KR ₆₅	6.8	0.15	20000226	93.93358	100.59180	101.91953	1.18944	0.0787240	43.9624532	44	2	1998–1999	0.47	M-v	E	Marsden	35337	1998 KR ₆₅
1998 MQ	16.5	0.15	20000226	204.12892	138.56478	221.26466	24.21157	0.4079997	1.7834120	236	3	1979–2000	0.53	M-v	1	Williams	35338	1998 MQ
1998 MK ₅	12.6	0.15	20000226	74.98987	264.63657	118.97583	13.81374	0.1833455	2.6272601	83	2	1998–2000	0.55	M-v	3	Williams	38778	1998 MK ₅
1998 MN ₇	14.2	0.15	20000226	52.44101	336.88059	26.06894	0.64680	0.2142927	3.1511334	78	3	1993–2000	0.52	M-v	2	Marsden	38052	1998 MN ₇
1998 MZ ₁₁	13.2	0.15	20000226	52.41139	256.59763	133.68582	14.12510	0.1974093	2.5476597	30	3	1991–2000	0.64	M-v	2	Williams	38469	1998 MZ ₁₁
1998 MW ₁₃	15.0	0.15	20000226	93.13009	66.77385	310.26894	5.01163	0.2356068	2.4037626	42	2	1998–2000	0.53	M-v	4	Williams	38778	1998 MW ₁₃
1998 MH ₂₇	14.3	0.15	20000226	167.19281	183.44612	100.66378	6.50044	0.1803973	2.3289353	45	2	1998–2000	0.61	M-v	4	Williams	38779	1998 MH ₂₇
1998 MV ₂₇	13.1	0.15	20000226	108.73598	47.49788	286.75054	12.68055	0.1853520	2.5775768	59	2	1998–2000	0.42	M-v	3	Williams	38779	1998 MV ₂₇
1998 MN ₃₅	14.9	0.15	20000226	172.37782	183.89009	105.68906	2.73139	0.0580703	2.3077626	53	2	1998–2000	0.64	M-v	3	Williams	38053	1998 MN ₃₅
1998 MF ₃₇	13.2	0.15	20000226	104.78531	187.07929	133.20132	13.50345	0.1834646	2.8796153	75	3	1995–2000	0.55	M-v	2	Williams	38053	1998 MF ₃₇
1998 MM ₃₇	13.0	0.15	20000226	90.60064	209.60892	122.16274	10.21739	0.0858693	3.0204389	41	2	1998–2000	0.62	M-v	3	Williams	38470	1998 MM ₃₇
1998 MV ₄₂	14.0	0.15	20000226	12.06775	177.37534	276.20744	4.05122	0.1247084	2.2768290	85	3	1992–2000	0.73	M-v	2	Williams	38779	1998 MV ₄₂
1998 NA	13.1	0.15	20000226	116.86317	37.81076	334.09427	9.18608	0.1773258	2.5779513	159	3	1992–2000	0.61	M-v	2	Williams	38779	1998 NA
1998 NH	13.9	0.15	20000226	23.33482	289.40904	124.78896	12.25772	0.1303099	2.7729314	50	2	1998–2000	0.53	M-v	3	Williams	38053	1998 NH
1998 NT	15.1	0.15	20000226	139.67191	242.49537	132.06123	28.91018	0.0292870	1.9327141	38	3	1982–2000	0.81	M-v	2	Williams	38053	1998 NT
1998 OK	14.3	0.15	20000226	191.37278	87.14412	186.34072	6.60500	0.0958850	2.3922877	84	3	1997–2000	0.57	M-v	3	Williams	37698	1998 OK
1998 OW	15.5	0.15	20000226	36.01379	152.95846	270.57194	6.06574	0.1642423	2.5687805	43	2	1998–2000	0.44	M-v	3	Williams	37698	1998 OW
1998 OD ₁	14.9	0.15	20000226	130.01874	84.72012	265.48060	5.41342	0.1434108	2.3856221	90	3	1991–2000	0.52	M-v	2	Williams	38779	1998 OD ₁
1998 OB ₄	15.7	0.15	20000226	46.53910	242.63449	202.97823	2.50734	0.0899008	2.2182674	62	4	1994–2000	0.54	M-v	2	Williams	38779	1998 OB ₄
1998 OY ₄	14.3	0.15	20000226	56.56786	196.17047	231.86819	8.10466	0.1774449	2.5541924	63	3	1990–2000	0.54	M-v	2	Williams	38779	1998 OY ₄
1998 OZ ₆	13.9	0.15	20000226	105.42166	104.83727	264.89866	4.33834	0.2383104	2.6297999	93	3	1997–2000	0.58	M-v	2	Williams	38779	1998 OZ ₆
1998 OL ₈	12.8	0.15	20000226	46.38189	237.40697	145.59056	9.65893	0.1144461	3.2242562	62	2	1998–2000	0.53	M-v	3	Williams	38779	1998 OL ₈
1998 OP ₈	14.7	0.15	20000226	0.06663	201.08676	287.06044	4.39610	0.0888068	2.2625107	67	2	1998–2000	0.56	M-v	3	Williams	38779	1998 OP ₈
1998 OS ₈	15.2	0.15	20000226	151.49694	44.20957	305.44713	4.13816	0.1847327	2.1950758	50	2	1998–2000	0.76	M-v	4	Williams	38471	1998 OS ₈
1998 OQ ₁₀	14.4	0.15	20000226	307.35871	247.41597	300.82769	0.51604	0.0273470	2.1548737	85	3	1995–2000	0.58	M-v	3	Williams	38779	1998 OQ ₁₀
1998 OL ₁₁	14.5	0.15	20000226	85.47264	60.48226	316.59335	12.42954	0.2112525	2.7598783	61	2	1998–2000	0.58	M-v	3	Williams	38779	1998 OL ₁₁
1998 ON ₁₁	13.3	0.15	20000226	22.41880	178.37042	237.54275	1.08089	0.0167248	2.9104177	106	2	1998–2000	0.58	M-v	3	Williams	38779	1998 ON ₁₁
1998 OQ ₁₁	15.9	0.15	20000226	140.09626	206.36372	140.04162	2.72432	0.2283852	2.3456737	34	2	1998–2000	0.67	M-v	4	Marsden	38471	1998 OQ ₁₁
1998 OZ ₁₁	14.9	0.15	20000226	116.25496	36.69826	338.22614	7.37118	0.1226724	2.2831580	75	2	1998–2000	0.73	M-v	3	Williams	38779	1998 OZ ₁₁
1998 OA ₁₂	14.2	0.15	20000226	54.28334	80.55301	314.85887	13.84536	0.2383802	2.7601868	60	2	1998–2000	0.63	M-v	3	Williams	38779	1998 OA ₁₂
1998 OR ₁₂	13.2	0.15	20000226	38.33987	274.91538	131.19140	3.00006	0.0641894	2.9279520	59	3	1989–2000	0.69	M-v	2	Williams	38779	1998 OR ₁₂
1998 OS ₁₂	14.4	0.15	20000226	94.42979	57.77586	320.21241	12.66398	0.2230073	2.6540682	55	2	1998–2000	0.68	M-v	3	Williams	38779	1998 OS ₁₂
1998 OV ₁₂	13.3	0.15	20000226	122.97759	177.42606	145.02690	4.99462	0.0669639	2.7865531	83	3	1995–2000	0.66	M-v	3	Williams	38054	1998 OV ₁₂
1998 OD ₁₃	15.6	0.15	20000226	124.14041	323.68102	36.79696	1.25223	0.2109686	2.4237193	66	4	1993–2000	0.74	M-v	2	Williams	38779	1998 OD ₁₃
1998 ON ₁₃	13.8	0.15	20000226	139.15961	35.68826	318.18520	9.52807	0.0681543	2.2635455	131	3	1981–2000	0.55	M-v	2	Williams	38779	1998 ON ₁₃
1998 OV ₁₃	15.3	0.15	20000226	116.43432	241.91318	138.62162	7.12289	0.1148354	2.2894566	58	2	1998–2000	0.63	M-v	4	Williams	38471	1998 OV ₁₃
1998 OC ₁₄	14.0	0.15	20000226	43.18610	283.64783	142.29926	12.48689	0.1396725	2.7034708	62	2	1998–2000	0.61	M-v	3	Williams	38780	1998 OC ₁₄
1998 ON ₁₄	14.8	0.15	20000226	80.01020	302.17705	113.58650	3.26924	0.1889548	2.4253120	47	2	1998–2000	0.63	M-v	4	Williams	38472	1998 ON ₁₄
1998 OT ₁₄	15.0	0.15	20000226	143.38686	35.26371	326.14803	5.07954	0.1944204	2.2275689	74	2	1998–2000	0.69	M-v	3	Williams	38472	1998 OT ₁₄
1998 PU	14.5	0.15	20000226	128.66666	31.29734	332.28353	6.11795	0.2046910	2.3949659	103	2	1998–2000	0.57	M-v	3	Williams	38472	1998 PU

1998 PV	13.6	0.15	20000226	34.54972	276.17309	122.45144	8.22325	0.1526206	2.7412160	72	2	1998-2000	0.51	M-v	3	Williams	38780	1998 PV
1998 PX	15.3	0.15	20000226	135.28016	19.32841	342.61612	4.49284	0.1704036	2.2572392	58	3	1996-2000	0.53	M-v	3	Williams	38780	1998 PX
1998 PL ₁	13.7	0.15	20000226	76.64979	170.17331	244.05823	4.72375	0.1240114	2.4496422	86	3	1987-2000	0.59	M-v	2	Williams	38780	1998 PL ₁
1998 QC	14.3	0.15	20000226	52.71851	161.74841	306.79799	4.51246	0.0680634	2.1775239	74	3	1990-2000	0.63	M-v	2	Williams	38473	1998 QC
1998 QR	14.2	0.15	20000226	309.16474	340.42813	176.63383	4.17863	0.0987504	2.3321808	78	3	1981-2000	0.64	M-v	3	Williams	38780	1998 QR
1998 QK ₁	14.8	0.15	20000226	143.73631	39.24191	310.70419	6.45222	0.1397827	2.2964955	87	3	1991-2000	0.60	M-v	3	Marsden	38780	1998 QK ₁
1998 QL ₁	14.1	0.15	20000226	88.92513	170.94050	207.22035	3.79590	0.1221071	2.6790173	56	5	1986-2000	0.72	M-v	1	Williams	38473	1998 QL ₁
1998 QR ₁	14.3	0.15	20000226	291.27007	291.02123	261.08120	5.50546	0.0873777	2.4559659	77	3	1995-2000	0.57	M-v	3	Williams	38780	1998 QR ₁
1998 QX ₁	14.4	0.15	20000226	84.16073	76.82904	308.24855	6.04589	0.3371526	2.8613043	48	2	1998-2000	0.49	M-v	4	Williams	38474	1998 QX ₁
1998 QU ₂	13.6	0.15	20000226	105.81637	202.73406	162.73071	15.62712	0.2106683	2.5649389	78	3	1994-2000	0.59	M-v	2	Williams	38780	1998 QU ₂
1998 QH ₃	13.7	0.15	20000226	84.61440	63.01591	334.79247	23.03961	0.2195540	2.6278611	56	2	1998-2000	0.49	M-v	3	Williams	38474	1998 QH ₃
1998 QQ ₃	14.9	0.15	20000226	76.32771	70.61202	331.42581	29.02165	0.2790530	2.7416947	49	2	1998-2000	0.60	M-v	4	Williams	38474	1998 QQ ₃
1998 QX ₃	13.4	0.15	20000226	44.86125	257.81332	143.32431	11.81861	0.1586736	3.1590751	45	2	1998-2000	0.66	M-v	3	Williams	37705	1998 QX ₃
1998 QE ₄	13.3	0.15	20000226	114.27814	217.15651	113.35785	10.74030	0.0907900	2.9902296	52	2	1998-2000	0.51	M-v	3	Williams	38054	1998 QE ₄
1998 QJ ₄	15.0	0.15	20000226	89.07859	359.84170	60.68112	3.47870	0.2060344	2.3665290	73	3	1991-2000	0.63	M-v	2	Williams	38780	1998 QJ ₄
1998 QQ ₅	16.0	0.15	20000226	272.41362	85.37052	177.17294	21.67287	0.0915309	1.9069558	51	3	1977-2000	0.70	M-v	2	Williams	32691	1998 QQ ₅
1998 QS ₅	14.3	0.15	20000226	83.56120	56.04696	338.40729	6.71608	0.2285230	2.7359964	86	2	1998-2000	0.60	M-v	3	Williams	38780	1998 QS ₅
1998 QP ₆	14.7	0.15	20000226	113.89437	12.39127	31.17220	3.23748	0.1011601	2.5523629	51	3	1996-2000	0.55	M-v	3	Williams	35629	1998 QP ₆
1998 QV ₇	14.0	0.15	20000226	158.81951	146.09783	145.16183	3.11040	0.1673258	2.4689737	61	3	1997-2000	0.62	M-v	3	Williams	38054	1998 QV ₇
1998 QK ₈	13.8	0.15	20000226	123.62227	182.14734	143.09423	14.56226	0.1501841	2.6120689	52	2	1998-2000	0.58	M-v	3	Williams	38054	1998 QK ₈
1998 QQ ₈	13.0	0.15	20000226	82.89185	231.75964	121.29089	6.86265	0.0743325	2.7993504	76	3	1997-2000	0.62	M-v	2	Williams	38780	1998 QQ ₈
1998 QX ₁₀	12.6	0.15	20000226	21.67034	284.91893	126.97253	10.73470	0.1055026	3.0319127	72	2	1998-2000	0.64	M-v	3	Williams	37708	1998 QX ₁₀
1998 QA ₁₁	15.0	0.15	20000226	239.09020	279.74805	349.83689	5.69874	0.0952664	1.9798970	48	3	1981-2000	0.40	M-v	3	Williams	38780	1998 QA ₁₁
1998 QS ₁₁	14.3	0.15	20000226	324.68590	237.70326	273.26808	4.30979	0.0642704	2.3160246	54	3	1995-2000	0.60	M-v	3	Williams	38780	1998 QS ₁₁
1998 QZ ₁₁	14.0	0.15	20000226	73.79741	105.55300	297.03068	10.77509	0.1847546	2.5701318	73	3	1990-2000	0.52	M-v	1	Williams	38780	1998 QZ ₁₁
1998 QC ₁₂	13.5	0.15	20000226	156.52010	11.28204	289.08069	8.25737	0.0721677	2.5281650	61	2	1998-2000	0.46	M-v	3	Williams	38780	1998 QC ₁₂
1998 QG ₁₂	14.6	0.15	20000226	246.56941	12.59038	207.82675	6.05482	0.0733991	2.3509221	48	3	1997-2000	0.59	M-v	3	Williams	37709	1998 QG ₁₂
1998 QT ₁₃	15.5	0.15	20000226	107.07767	246.37811	149.72385	2.24023	0.2485344	2.3225390	29	3	1991-2000	0.62	M-v	4	Williams	32692	1998 QT ₁₃
1998 QZ ₁₃	13.6	0.15	20000226	122.70919	120.21868	200.73698	3.48053	0.0921555	2.7489452	66	2	1998-2000	0.53	M-v	3	Williams	38055	1998 QZ ₁₃
1998 QB ₁₄	15.1	0.15	20000226	100.70274	206.84513	181.64485	5.74309	0.2369678	2.4649890	39	3	1975-2000	0.62	M-v	3	Williams	38780	1998 QB ₁₄
1998 QJ ₁₆	12.9	0.15	20000226	4.61846	173.21450	284.13350	7.21545	0.1855174	2.7915693	78	4	1949-2000	0.57	M-v	2	Williams	38780	1998 QJ ₁₆
1998 QT ₁₆	14.5	0.15	20000226	100.75509	33.32543	341.88456	3.28759	0.2030471	2.5483929	66	4	1986-2000	0.57	M-v	2	Williams	38781	1998 QT ₁₆
1998 QC ₁₇	13.7	0.15	20000226	282.64731	59.43146	127.79153	6.91531	0.0533520	2.3922058	73	3	1982-2000	0.66	M-v	2	Williams	38781	1998 QC ₁₇
1998 QE ₁₇	13.0	0.15	20000226	77.41588	72.09386	338.48963	10.65214	0.3043015	2.6261656	88	3	1943-2000	0.53	M-v	2	Williams	38781	1998 QE ₁₇
1998 QR ₁₇	13.3	0.15	20000226	143.83047	357.14286	304.09544	4.14203	0.0400969	2.7498939	69	2	1998-2000	0.54	M-v	3	Williams	38781	1998 QR ₁₇
1998 QB ₁₉	13.3	0.15	20000226	69.27145	242.97739	128.14052	11.04825	0.1159064	2.9940845	56	2	1998-2000	0.57	M-v	3	Williams	38781	1998 QB ₁₉
1998 QK ₁₉	13.7	0.15	20000226	164.19478	181.48693	122.27431	7.71658	0.1137100	2.4174585	63	4	1983-2000	0.55	M-v	2	Williams	38781	1998 QK ₁₉
1998 QO ₁₉	15.5	0.15	20000226	112.87100	249.46262	134.56649	5.03619	0.1767859	2.3319032	35	2	1998-2000	0.76	M-v	4	Williams	38475	1998 QO ₁₉
1998 QY ₁₉	14.6	0.15	20000226	33.16057	302.10809	162.92075	7.84956	0.1292236	2.3058267	68	3	1993-2000	0.72	M-v	2	Williams	38781	1998 QY ₁₉
1998 QG ₂₀	15.6	0.15	20000226	125.62380	115.76808	256.65021	4.06836	0.2334646	2.3566086	27	3	1980-2000	0.46	M-v	3	Williams	32761	1998 QG ₂₀
1998 QS ₂₀	15.8	0.15	20000226	150.47422	111.15739	248.69856	1.00181	0.1742401	2.1648795	42	2	1998-2000	0.53	M-v	4	Williams	38476	1998 QS ₂₀
1998 QW ₂₀	14.3	0.15	20000226	20.69160	285.10584	159.89720	8.78882	0.1322850	2.7446793	42	2	1998-2000	0.70	M-v	3	Williams	38781	1998 QW ₂₀
1998 QD ₂₁	14.6	0.15	20000226	10.64440	287.30583	182.59532	1.99404	0.0475626	2.4065125	53	2	1998-2000	0.69	M-v	4	Williams	38781	1998 QD ₂₁
1998 QX ₂₁	14.0	0.15	20000226	214.72405	298.65275	317.46569	5.40867	0.1100182	2.3586332	64	4	1951-2000	0.60	M-v	2	Williams	38781	1998 QX ₂₁
1998 QQ ₂₂	14.3	0.15	20000226	84.42715	323.20247	72.13219	4.15992	0.2108491	2.5884037	47	2	1998-2000	0.69	M-v	4	Williams	38781	1998 QQ ₂₂
1998 QS ₂₂	13.4	0.15	20000226	137.76281	249.20672	65.33898	4.45545	0.1060487	2.6430280	63	2	1998-2000	0.61	M-v	3	Williams	38055	1998 QS ₂₂
1998 QW ₂₂	14.2	0.15	20000226	50.11476	70.33482	14.26063	3.87148	0.0902720	2.2999660	94	3	1997-2000	0.66	M-v	2	Williams	38781	1998 QW ₂₂
1998 QE ₂₃	14.1	0.15	20000226	44.91090	30.21129	59.06381	3.26024	0.1696392	2.4038904	89	3	1980-2000	0.68	M-v	2	Williams	38781	1998 QE ₂₃
1998 QT ₂₃	12.9	0.15	20000226	16.58712	279.70164	151.34694	10.64687	0.0992523	3.0132277	65	2	1998-2000	0.62	M-v	3	Williams	38781	1998 QT ₂₃
1998 QW ₂₃	14.5	0.15	20000226	47.43468	286.22931	168.89458	8.46773	0.1325064	2.3015973	60	2	1998-2000	0.61	M-v	3	Williams	38476	1998 QW ₂₃
1998 QB ₂₄	14.5	0.15	20000226	93.09181	127.36044	272.79628	5.70649	0.1161069	2.3926501	62	2	1998-2000	0.60	M-v	3	Williams	38781	1998 QB ₂₄
1998 QV ₂₄	14.9	0.15	20000226	110.06661	223.51157	169.77008	4.00055	0.1640015	2.3149241	65	2	1998-2000	0.51	M-v	4	Williams	38476	1998 QV ₂₄
1998 QZ ₂₄	12.8	0.15	20000226	299.98985	340.35408	154.93003	7.07466	0.1457431	3.1739575	35	2	1998-2000	0.57	M-v	4	Williams	37714	1998 QZ ₂₄

1998 QS ₂₅	13.6	0.15	20000226	77.90878	286.94639	81.69049	3.26349	0.0476253	2.8732545	64	2	1998-2000	0.64	M-v	3	Williams	38055	1998 QS ₂₅
1998 QN ₂₆	14.6	0.15	20000226	84.44505	49.70189	329.16171	9.65641	0.2479763	2.6275774	56	2	1998-2000	0.57	M-v	3	Williams	38781	1998 QN ₂₆
1998 QS ₂₆	15.2	0.15	20000226	134.48772	128.40104	222.72831	3.26599	0.0725769	2.4206987	44	2	1998-2000	0.67	M-v	4	Williams	38476	1998 QS ₂₆
1998 QJ ₂₈	13.0	0.15	20000226	253.14792	312.76412	265.09315	33.57890	0.1798826	2.7601772	54	2	1998-2000	0.52	M-v	3	Williams	38781	1998 QJ ₂₈
1998 QM ₂₈	14.4	0.15	20000226	155.59128	264.10325	63.76619	0.29804	0.0813651	2.6466009	95	2	1998-2000	0.57	M-v	4	Williams	38781	1998 QM ₂₈
1998 QK ₂₉	15.6	0.15	20000226	71.13852	135.13847	282.11060	5.82098	0.1199844	2.4642041	22	2	1998-2000	0.52	M-v	4	Williams	38477	1998 QK ₂₉
1998 QT ₃₁	14.8	0.15	20000226	118.97531	278.11042	87.18716	3.31008	0.1962370	2.4574744	42	2	1998-2000	0.72	M-v	4	Williams	38477	1998 QT ₃₁
1998 QW ₃₁	14.3	0.15	20000226	132.28971	21.08997	349.38364	6.61504	0.2199878	2.2877280	90	3	1991-2000	0.65	M-v	2	Williams	38781	1998 QW ₃₁
1998 QE ₃₂	14.9	0.15	20000226	122.58516	241.47275	132.16610	7.11445	0.1292242	2.3123449	75	3	1991-2000	0.62	M-v	3	Williams	38781	1998 QE ₃₂
1998 QW ₃₂	13.7	0.15	20000226	90.12252	198.40749	162.11208	11.64344	0.0877362	2.8715202	50	4	1993-2000	0.68	M-v	1	Williams	38055	1998 QW ₃₂
1998 QJ ₃₃	14.4	0.15	20000226	127.84140	64.56026	304.18382	6.12494	0.1317596	2.3196331	57	3	1977-2000	0.77	M-v	3	Williams	38781	1998 QJ ₃₃
1998 QB ₃₅	14.0	0.15	20000226	1.53847	163.25637	317.42092	13.10443	0.1193083	2.5341710	62	3	1988-2000	0.59	M-v	3	Williams	38782	1998 QB ₃₅
1998 QS ₃₅	15.2	0.15	20000226	76.15033	64.57114	356.37477	6.08153	0.0932989	2.3404379	54	2	1998-2000	0.67	M-v	4	Williams	38478	1998 QS ₃₅
1998 QS ₃₆	14.9	0.15	20000226	84.15180	77.24833	318.28779	14.08028	0.1488500	2.6264819	53	2	1998-2000	0.57	M-v	3	Williams	38782	1998 QS ₃₆
1998 QW ₃₆	15.5	0.15	20000226	133.70650	77.56259	284.57876	5.42884	0.1355168	2.3356540	50	2	1998-2000	0.76	M-v	4	Williams	38478	1998 QW ₃₆
1998 QP ₃₇	14.2	0.15	20000226	278.94937	277.98489	289.19128	3.35804	0.1052403	2.2871823	53	2	1998-2000	0.71	M-v	4	Williams	38782	1998 QP ₃₇
1998 QS ₃₇	14.8	0.15	20000226	100.70213	165.87111	243.55697	1.94427	0.1255815	2.2572329	62	4	1987-2000	0.76	M-v	2	Williams	38782	1998 QS ₃₇
1998 QT ₃₇	15.2	0.15	20000226	106.09008	210.62911	164.38057	8.94912	0.3316427	2.6611634	40	3	1996-2000	0.57	M-v	3	Williams	33082	1998 QT ₃₇
1998 QY ₃₇	14.8	0.15	20000226	146.47514	14.88837	335.81879	5.72308	0.1787029	2.2937117	92	3	1991-2000	0.53	M-v	3	Williams	38782	1998 QY ₃₇
1998 QD ₃₈	13.7	0.15	20000226	79.70499	270.01133	103.37746	2.59816	0.0612205	2.8511401	60	3	1996-2000	0.55	M-v	3	Williams	38056	1998 QD ₃₈
1998 QL ₃₈	15.0	0.15	20000226	134.98921	36.74814	331.85195	5.57396	0.1544744	2.2774682	71	3	1991-2000	0.57	M-v	3	Williams	38782	1998 QL ₃₈
1998 QP ₃₈	14.0	0.15	20000226	67.88602	252.22908	175.27430	7.80753	0.2767346	2.6606141	82	3	1994-2000	0.67	M-v	1	Williams	38478	1998 QP ₃₈
1998 QR ₃₈	12.9	0.15	20000226	73.41590	51.97983	318.56199	9.07649	0.0996903	3.1291937	66	4	1982-2000	0.70	M-v	2	Williams	38782	1998 QR ₃₈
1998 QY ₃₈	15.4	0.15	20000226	124.51627	209.91821	172.94992	6.38289	0.2177442	2.3099163	68	3	1977-2000	0.59	M-v	3	Williams	33082	1998 QY ₃₈
1998 QG ₃₉	15.1	0.15	20000226	112.53651	10.95242	344.67081	8.94747	0.3111241	2.6945695	61	3	1996-2000	0.52	M-v	2	Williams	33082	1998 QG ₃₉
1998 QX ₃₉	14.7	0.15	20000226	155.33342	198.83253	147.41878	5.17629	0.1977338	2.2464466	93	3	1988-2000	0.50	M-v	2	Williams	38479	1998 QX ₃₉
1998 QE ₄₀	14.3	0.15	20000226	75.12099	224.07764	198.72074	3.11309	0.1727487	2.4750312	54	2	1998-2000	0.61	M-v	4	Williams	38479	1998 QE ₄₀
1998 QH ₄₀	14.7	0.15	20000226	104.26810	142.86576	259.23394	2.94728	0.2222262	2.3972194	44	3	1987-2000	0.75	M-v	2	Williams	38782	1998 QH ₄₀
1998 QM ₄₀	13.9	0.15	20000226	133.03348	16.56691	313.26449	11.22605	0.1884936	2.6563400	39	3	1995-2000	0.52	M-v	2	Williams	38479	1998 QM ₄₀
1998 QN ₄₀	14.6	0.15	20000226	55.96462	186.58980	250.94760	4.24421	0.0344268	2.3761723	54	2	1998-2000	0.56	M-v	3	Williams	38782	1998 QN ₄₀
1998 QY ₄₀	14.8	0.15	20000226	133.74387	192.49986	178.80180	5.72304	0.2065887	2.3052980	57	4	1977-2000	0.47	M-v	3	Williams	32975	1998 QY ₄₀
1998 QJ ₄₁	15.8	0.15	20000226	146.97523	21.27279	319.82612	1.95148	0.1789904	2.3684984	28	2	1998-2000	0.62	M-v	4	Williams	37720	1998 QJ ₄₁
1998 QS ₄₁	13.6	0.15	20000226	175.74511	195.41727	84.79929	1.68152	0.0467752	2.7150878	77	3	1997-2000	0.66	M-v	3	Williams	38056	1998 QS ₄₁
1998 QE ₄₂	14.4	0.15	20000226	147.81126	309.19302	40.99733	4.13475	0.1664995	2.2718869	57	3	1988-2000	0.62	M-v	3	Williams	38782	1998 QE ₄₂
1998 QY ₄₂	14.0	0.15	20000226	279.69843	38.08479	160.35039	10.72696	0.1352341	2.3878862	50	2	1998-2000	0.50	M-v	3	Williams	38480	1998 QY ₄₂
1998 QB ₄₃	14.0	0.15	20000226	19.95644	249.50467	218.34371	7.72734	0.2370922	2.7405491	80	3	1996-2000	0.62	M-v	2	Williams	38782	1998 QB ₄₃
1998 QE ₄₃	13.7	0.15	20000226	60.72207	281.09413	131.26361	3.15637	0.2031395	2.8605718	71	2	1998-2000	0.54	M-v	3	Williams	38480	1998 QE ₄₃
1998 QJ ₄₃	15.2	0.15	20000226	113.39563	265.83817	125.39346	7.06628	0.0077338	2.1987320	41	2	1998-2000	0.60	M-v	3	Williams	38480	1998 QJ ₄₃
1998 QP ₄₃	12.6	0.15	20000226	336.00794	111.47388	356.83307	16.92077	0.0976140	3.1554321	57	3	1993-2000	0.70	M-v	3	Williams	38056	1998 QP ₄₃
1998 QD ₄₄	15.4	0.15	20000226	154.65628	341.45627	2.83638	4.03837	0.1653707	2.2638323	77	3	1997-2000	0.44	M-v	3	Williams	38782	1998 QD ₄₄
1998 QE ₄₄	16.0	0.15	20000226	157.27654	343.23280	16.90922	2.55896	0.2065162	2.1514830	55	4	1995-2000	0.68	M-v	2	Williams	33083	1998 QE ₄₄
1998 QF ₄₄	14.6	0.15	20000226	82.62865	40.89089	1.02681	3.58689	0.1528633	2.5880165	77	3	1996-2000	0.60	M-v	3	Williams	38782	1998 QF ₄₄
1998 QK ₄₄	14.9	0.15	20000226	129.63958	306.30977	54.05930	1.93274	0.1874563	2.4192652	33	3	1993-2000	0.58	M-v	3	Williams	33083	1998 QK ₄₄
1998 QU ₄₄	14.8	0.15	20000226	115.45013	81.37952	294.21579	2.49838	0.1131282	2.4331269	67	2	1998-2000	0.58	M-v	3	Williams	38782	1998 QU ₄₄
1998 QC ₄₅	14.3	0.15	20000226	103.06294	143.92516	235.44146	5.37645	0.1559423	2.5917891	50	3	1990-2000	0.52	M-v	3	Williams	38480	1998 QC ₄₅
1998 QD ₄₅	14.2	0.15	20000226	108.53272	112.95773	283.58702	5.61859	0.1263214	2.3378295	75	3	1991-2000	0.61	M-v	2	Williams	38782	1998 QD ₄₅
1998 QP ₄₅	13.0	0.15	20000226	303.29998	340.04207	191.65537	12.25779	0.1712561	2.5881630	67	2	1998-2000	0.52	M-v	3	Williams	38782	1998 QP ₄₅
1998 QA ₄₆	14.9	0.15	20000226	205.92893	326.82102	324.98226	6.40822	0.0957055	2.2191451	52	3	1997-2000	0.57	M-v	3	Williams	38782	1998 QA ₄₆
1998 QN ₄₆	14.9	0.15	20000226	135.95679	190.54462	166.74712	2.80756	0.1801512	2.3820029	70	4	1976-2000	0.76	M-v	3	Williams	38783	1998 QN ₄₆
1998 QS ₄₇	15.4	0.15	20000226	130.74056	207.41187	156.23160	3.88825	0.2109944	2.4029855	38	2	1998-2000	0.62	M-v	4	Williams	37725	1998 QS ₄₇
1998 QT ₄₇	13.8	0.15	20000226	59.49420	267.48576	161.40815	12.93520	0.1685970	2.6408787	59	2	1998-2000	0.60	M-v	3	Williams	38783	1998 QT ₄₇
1998 QU ₄₇	13.5	0.15	20000226	29.00278	243.46595	189.74304	1.69901	0.0417377	2.8548909	60	3	1992-2000	0.62	M-v	3	Williams	38056	1998 QU ₄₇
1998 QW ₄₇	15.4	0.15	20000226	140.66859	61.85311	290.37873	2.25007	0.1521781	2.3779328	40	4	1994-2000	0.61	M-v	2	Williams	38783	1998 QW ₄₇

1998 QY ₄₇	14.8	0.15	20000226	77.99703	248.76499	178.41834	6.28780	0.0704690	2.3187340	58	3	1997-2000	0.64	M-v	2	Williams	38783	1998 QY ₄₇
1998 QB ₄₈	13.7	0.15	20000226	212.31132	76.75335	186.52723	9.19253	0.0102474	2.5709457	50	4	1980-2000	0.52	M-v	2	Williams	38783	1998 QB ₄₈
1998 QD ₄₈	15.6	0.15	20000226	115.86375	178.48564	225.79660	3.88108	0.1789660	2.2585943	47	4	1988-2000	0.85	M-v	2	Williams	35711	1998 QD ₄₈
1998 QU ₄₈	14.8	0.15	20000226	68.53003	259.84408	174.54614	4.42497	0.0255026	2.2985113	54	2	1998-2000	0.59	M-v	3	Williams	38783	1998 QU ₄₈
1998 QF ₄₉	13.5	0.15	20000226	65.54999	270.40328	148.24900	8.71980	0.2283716	2.7651703	120	3	1977-2000	0.49	M-v	1	Williams	38783	1998 QF ₄₉
1998 QO ₄₉	14.2	0.15	20000226	93.46650	238.04941	148.91341	15.81719	0.1255210	2.5912682	51	2	1998-2000	0.59	M-v	3	Williams	38783	1998 QO ₄₉
1998 QL ₅₀	15.3	0.15	20000226	110.78986	333.30328	60.02400	3.34131	0.1150817	2.3176124	52	3	1997-2000	0.65	M-v	3	Williams	38783	1998 QL ₅₀
1998 QO ₅₀	13.1	0.15	20000226	102.68099	201.03612	145.33586	9.99433	0.0790699	2.9709324	53	3	1997-2000	0.48	M-v	3	Williams	38057	1998 QO ₅₀
1998 QW ₅₀	13.9	0.15	20000226	34.25555	78.07779	351.96382	15.51672	0.2084915	3.1585019	51	3	1995-2000	0.69	M-v	2	Williams	38783	1998 QW ₅₀
1998 QY ₅₀	15.4	0.15	20000226	125.30726	29.52321	350.17424	6.55983	0.1213756	2.3080661	53	3	1977-2000	0.75	M-v	3	Williams	38783	1998 QY ₅₀
1998 QC ₅₁	14.8	0.15	20000226	117.11554	238.75442	159.32190	4.30596	0.1277088	2.2450006	73	3	1993-2000	0.61	M-v	3	Williams	38783	1998 QC ₅₁
1998 QK ₅₁	14.5	0.15	20000226	340.40887	347.49912	176.33486	5.62723	0.0392002	2.2700472	67	2	1998-2000	0.56	M-v	4	Williams	38783	1998 QK ₅₁
1998 QN ₅₁	14.8	0.15	20000226	297.99636	276.84555	300.09323	2.99540	0.0071962	2.1632740	68	2	1998-2000	0.58	M-v	4	Williams	38481	1998 QN ₅₁
1998 QS ₅₁	15.9	0.15	20000226	150.89030	108.81048	241.13904	2.67082	0.1263919	2.3063370	45	3	1997-2000	0.70	M-v	3	Williams	33084	1998 QS ₅₁
1998 QT ₅₁	14.2	0.15	20000226	179.30932	355.51599	316.79053	6.45762	0.1492907	2.3044793	85	4	1935-2000	0.66	M-v	3	Williams	38783	1998 QT ₅₁
1998 QH ₅₂	14.0	0.15	20000226	343.11080	190.27255	319.19932	7.55507	0.0547167	2.4548691	86	2	1998-2000	0.61	M-v	3	Williams	38783	1998 QH ₅₂
1998 QM ₅₂	14.7	0.15	20000226	88.88494	270.85212	143.59914	6.79255	0.0985212	2.3460974	74	3	1991-2000	0.66	M-v	2	Williams	38783	1998 QM ₅₂
1998 QL ₅₃	13.7	0.15	20000226	248.67336	32.39358	199.78576	13.78728	0.0997131	2.6209306	69	2	1998-2000	0.68	M-v	4	Williams	38783	1998 QL ₅₃
1998 QN ₅₃	12.2	0.15	20000226	195.91598	29.52750	216.45858	11.28693	0.2046393	3.1118781	94	2	1998-2000	0.67	M-v	3	Williams	37728	1998 QN ₅₃
1998 QR ₅₃	14.0	0.15	20000226	65.09710	75.08431	335.31806	8.58829	0.1424941	2.7473576	72	2	1998-2000	0.81	M-v	3	Williams	38783	1998 QR ₅₃
1998 QT ₅₄	14.2	0.15	20000226	79.29496	225.90192	203.88220	5.35827	0.0648423	2.4002403	48	2	1998-2000	0.56	M-v	3	Williams	38482	1998 QT ₅₄
1998 QX ₅₄	15.0	0.15	20000226	85.35341	248.34936	192.11045	7.60679	0.1052912	2.2789709	77	4	1981-2000	0.62	M-v	1	Williams	35711	1998 QX ₅₄
1998 QZ ₅₄	14.2	0.15	20000226	54.76577	129.21915	329.45488	6.11911	0.1111527	2.4466805	97	3	1996-2000	0.65	M-v	2	Williams	38783	1998 QZ ₅₄
1998 QD ₅₅	15.4	0.15	20000226	110.49058	222.13541	191.49477	5.55477	0.1489819	2.3116011	67	4	1993-2000	0.70	M-v	2	Williams	32977	1998 QD ₅₅
1998 QH ₅₅	14.9	0.15	20000226	111.10382	74.67581	340.29856	5.70864	0.0574369	2.2344732	80	3	1991-2000	0.73	M-v	3	Williams	38783	1998 QH ₅₅
1998 QT ₅₅	15.3	0.15	20000226	235.77272	245.16738	41.04411	2.08705	0.1656381	2.2251897	61	3	1997-2000	0.56	M-v	2	Williams	38783	1998 QT ₅₅
1998 QZ ₅₅	13.8	0.15	20000226	101.71885	72.33058	299.04530	2.70199	0.1322154	2.7678877	79	2	1998-2000	0.56	M-v	4	Williams	38783	1998 QZ ₅₅
1998 QL ₅₇	14.7	0.15	20000226	109.50025	199.22497	200.88141	1.47489	0.0207626	2.2569575	99	3	1996-2000	0.56	M-v	3	Williams	38783	1998 QL ₅₇
1998 QX ₅₇	14.7	0.15	20000226	68.22399	267.65488	177.06207	3.35784	0.1297903	2.3683754	80	3	1971-2000	0.56	M-v	2	Williams	38783	1998 QX ₅₇
1998 QC ₅₈	15.6	0.15	20000226	115.12201	211.49635	181.35397	1.02314	0.1859125	2.3920296	71	3	1995-2000	0.62	M-v	3	Williams	33085	1998 QC ₅₈
1998 QR ₅₈	15.1	0.15	20000226	90.68093	77.54044	353.27181	5.59005	0.1609795	2.3151669	69	4	1977-2000	0.60	M-v	2	Williams	35711	1998 QR ₅₈
1998 QO ₆₀	13.2	0.15	20000226	209.28944	283.51713	7.89387	11.21955	0.1865984	2.6702254	59	2	1998-2000	0.51	M-v	3	Williams	38784	1998 QO ₆₀
1998 QP ₆₀	15.0	0.15	20000226	112.07837	127.09773	248.37777	5.66756	0.1216398	2.4363398	70	2	1998-2000	0.52	M-v	3	Williams	38784	1998 QP ₆₀
1998 QK ₆₁	14.4	0.15	20000226	4.02402	339.91434	158.10259	6.81954	0.0353454	2.2849570	104	2	1998-2000	0.48	M-v	3	Williams	38784	1998 QK ₆₁
1998 QL ₆₃	15.7	0.15	20000226	221.59554	343.00529	273.94408	3.82530	0.0710808	2.5768154	31	2	1998-2000	0.74	M-v	4	Williams	38483	1998 QL ₆₃
1998 QZ ₆₉	14.0	0.15	20000226	83.28698	151.37549	211.94165	8.69452	0.0887545	2.9659109	52	3	1997-2000	0.67	M-v	3	Williams	38057	1998 QZ ₆₉
1998 QU ₇₀	14.8	0.15	20000226	58.58311	196.08570	230.63281	10.27114	0.1406896	2.5895336	37	3	1997-2000	0.82	M-v	3	Williams	38784	1998 QU ₇₀
1998 QU ₇₁	14.3	0.15	20000226	66.98412	145.54380	274.69507	9.56075	0.1737463	2.6083929	40	2	1998-2000	0.58	M-v	3	Williams	38784	1998 QU ₇₁
1998 QG ₇₃	12.1	0.15	20000226	346.65637	217.82212	246.96669	8.39795	0.0455793	3.0136883	96	4	1978-2000	0.60	M-v	2	Williams	38057	1998 QG ₇₃
1998 QJ ₇₃	14.1	0.15	20000226	353.99335	279.42663	204.67894	11.73874	0.1032061	2.6201024	39	2	1998-2000	0.67	M-v	4	Williams	38784	1998 QJ ₇₃
1998 QL ₇₃	13.3	0.15	20000226	353.20637	221.86328	237.13176	9.42704	0.0623640	3.0455583	83	2	1998-2000	0.62	M-v	3	Williams	38057	1998 QL ₇₃
1998 QO ₇₄	13.8	0.15	20000226	71.77156	130.39286	285.50855	11.45443	0.1392583	2.6093000	99	2	1998-2000	0.58	M-v	3	Williams	38784	1998 QO ₇₄
1998 QP ₇₄	14.1	0.15	20000226	335.56634	287.50832	218.84397	12.30280	0.0971829	2.5436363	38	2	1998-2000	0.71	M-v	3	Williams	38484	1998 QP ₇₄
1998 QB ₇₅	13.7	0.15	20000226	95.03806	103.64120	294.98060	11.61121	0.1785162	2.5456961	62	3	1986-2000	0.63	M-v	2	Williams	38784	1998 QB ₇₅
1998 QM ₇₆	12.8	0.15	20000226	298.89611	291.61228	245.04938	9.92196	0.1340421	2.6400532	88	3	1990-2000	0.53	M-v	3	Williams	38058	1998 QM ₇₆
1998 QT ₇₆	14.6	0.15	20000226	322.40690	273.16607	275.02614	5.92422	0.0860165	2.1952856	80	2	1998-2000	0.56	M-v	3	Williams	38784	1998 QT ₇₆
1998 QV ₇₇	14.7	0.15	20000226	101.72147	55.52607	325.86129	12.97340	0.1649639	2.6889877	40	2	1998-2000	0.65	M-v	3	Williams	38484	1998 QV ₇₇
1998 QX ₇₇	13.4	0.15	20000226	119.49855	40.79183	324.08376	13.65858	0.1494789	2.5984928	93	3	1996-2000	0.60	M-v	2	Williams	38784	1998 QX ₇₇
1998 QY ₇₇	14.6	0.15	20000226	33.33077	219.37136	260.62039	6.31053	0.0567368	2.2922851	61	3	1995-2000	0.63	M-v	3	Williams	38484	1998 QY ₇₇
1998 QF ₈₀	13.2	0.15	20000226	146.95862	41.19030	293.87837	11.69603	0.2654802	2.3440183	101	3	1955-2000	0.56	M-v	2	Williams	38784	1998 QF ₈₀
1998 QQ ₈₄	13.4	0.15	20000226	3.75778	214.15948	236.96854	12.98642	0.1280011	3.0903633	82	3	1996-2000	0.67	M-v	2	Williams	38784	1998 QQ ₈₄
1998 QF ₈₅	13.7	0.15	20000226	271.06040	261.83428	299.10778	13.91452	0.0507363	2.5631477	71	2	1998-2000	0.64	M-v	3	Williams	38784	1998 QF ₈₅
1998 QN ₈₅	13.5	0.15	20000226	332.46138	232.43929	268.17162	11.65147	0.1134381	2.6923271	74	2	1998-2000	0.66	M-v	3	Williams	38784	1998 QN ₈₅

1998 QW ₈₅	14.0	0.15	20000226	155.12235	100.05471	230.27851	6.60687	0.1405115	2.3915177	72	3	1987-2000	0.58	M-v	3	Williams	38784	1998 QW ₈₅
1998 QG ₈₆	13.5	0.15	20000226	30.63863	169.42533	286.43314	12.14142	0.1916203	2.7725880	104	3	1997-2000	0.60	M-v	2	Williams	38784	1998 QG ₈₆
1998 QN ₈₆	13.2	0.15	20000226	73.84614	118.47112	286.27324	8.08336	0.1597117	2.7592285	111	3	1989-2000	0.61	M-v	2	Williams	38784	1998 QN ₈₆
1998 QR ₈₆	13.7	0.15	20000226	111.16998	61.21032	299.85693	7.86050	0.2663875	2.7175029	70	2	1998-2000	0.66	M-v	3	Williams	38784	1998 QR ₈₆
1998 QW ₈₆	13.5	0.15	20000226	140.00821	50.12483	285.03809	13.26617	0.1893880	2.5685177	88	2	1998-2000	0.59	M-v	3	Williams	38784	1998 QW ₈₆
1998 QB ₈₇	13.0	0.15	20000226	53.37344	100.89395	303.11946	15.77485	0.1320671	3.1738828	61	3	1989-2000	0.54	M-v	2	Williams	38784	1998 QB ₈₇
1998 QA ₈₈	12.8	0.15	20000226	135.85933	36.91410	276.75524	9.75987	0.0950374	2.9842119	63	2	1998-2000	0.59	M-v	3	Williams	38784	1998 QA ₈₈
1998 QV ₈₈	14.5	0.15	20000226	152.79773	72.89879	262.30155	7.42237	0.2778803	2.3850785	48	6	1954-2000	0.75	M-v	2	Williams	38484	1998 QV ₈₈
1998 QM ₉₀	14.1	0.15	20000226	67.60327	168.77665	266.36992	13.06924	0.0317811	2.3933160	50	2	1998-2000	0.67	M-v	3	Williams	38485	1998 QM ₉₀
1998 QP ₉₀	15.0	0.15	20000226	157.00495	353.39985	12.93109	9.50793	0.1682059	2.1647971	95	3	1997-2000	0.77	M-v	3	Williams	38784	1998 QP ₉₀
1998 QY ₉₀	14.2	0.15	20000226	143.67481	173.93188	171.63252	11.89648	0.1268360	2.5223315	69	3	1990-2000	0.62	M-v	3	Williams	38785	1998 QY ₉₀
1998 QO ₉₁	13.3	0.15	20000226	157.50908	165.44463	166.08408	14.01100	0.1756187	2.5463638	50	2	1998-2000	0.65	M-v	3	Williams	38785	1998 QO ₉₁
1998 QS ₉₁	14.8	0.15	20000226	138.64262	18.63933	5.81825	8.45066	0.2383283	2.3393586	61	3	1993-2000	0.62	M-v	3	Williams	35712	1998 QS ₉₁
1998 QV ₉₁	15.0	0.15	20000226	127.04990	224.41510	175.20387	2.26320	0.2090677	2.3766390	42	3	1976-2000	0.76	M-v	3	Williams	34302	1998 QV ₉₁
1998 QC ₉₂	14.5	0.15	20000226	129.35884	223.49883	183.03029	2.26556	0.1610558	2.3044078	52	4	1993-2000	0.55	M-v	2	Williams	35631	1998 QC ₉₂
1998 QL ₉₂	13.7	0.15	20000226	128.42514	226.38225	177.74018	2.01612	0.2126882	2.3745269	65	4	1954-2000	0.68	M-v	2	Williams	35713	1998 QL ₉₂
1998 QM ₉₂	14.0	0.15	20000226	128.32227	101.40648	280.70287	3.62363	0.2520737	2.5724596	48	4	1981-2000	0.74	M-v	2	Williams	38785	1998 QM ₉₂
1998 QN ₉₂	12.9	0.15	20000226	117.20626	1.30027	8.50659	13.79955	0.1677477	2.9677539	69	3	1992-2000	0.67	M-v	3	Williams	38785	1998 QN ₉₂
1998 QO ₉₂	14.3	0.15	20000226	121.50572	262.99945	155.33941	2.42007	0.1182015	2.3148275	46	5	1989-2000	0.59	M-v	2	Williams	35441	1998 QO ₉₂
1998 QS ₉₂	13.4	0.15	20000226	175.36706	251.88655	91.97296	6.54805	0.2216468	2.2719671	66	4	1991-2000	0.51	M-v	2	Williams	38485	1998 QS ₉₂
1998 QU ₉₂	13.9	0.15	20000226	145.56811	305.87382	70.44786	6.77884	0.1615378	2.3954985	60	5	1976-2000	0.71	M-v	2	Williams	38785	1998 QU ₉₂
1998 QN ₉₃	13.2	0.15	20000226	108.08130	209.63162	203.40841	14.37962	0.1704789	2.6486875	40	7	1955-2000	0.69	M-v	2	Williams	38486	1998 QN ₉₃
1998 QP ₉₃	13.7	0.15	20000226	146.62149	269.27059	108.86615	6.95983	0.1206357	2.4127358	55	3	1982-2000	0.76	M-v	3	Williams	38785	1998 QP ₉₃
1998 QR ₉₃	13.0	0.15	20000226	120.84686	333.03534	58.04875	13.93793	0.1654514	2.6832264	63	3	1989-2000	0.63	M-v	2	Williams	38785	1998 QR ₉₃
1998 QT ₉₄	16.0	0.15	20000226	118.48461	161.66827	227.99846	1.34088	0.2044884	2.3098143	41	4	1977-2000	0.65	M-v	2	Williams	32720	1998 QT ₉₄
1998 QH ₉₅	14.8	0.15	20000226	63.68019	151.16850	273.15026	12.93686	0.1498479	2.5779827	37	2	1998-2000	0.63	M-v	4	Williams	38785	1998 QH ₉₅
1998 QA ₉₈	13.5	0.15	20000226	18.83765	187.33608	310.93263	6.59361	0.1618492	2.4516836	104	3	1997-2000	0.68	M-v	2	Williams	38785	1998 QA ₉₈
1998 QD ₉₈	15.2	0.15	20000226	167.50788	204.91996	135.28333	5.30148	0.1926239	2.2405062	60	3	1971-2000	0.60	M-v	3	Williams	38486	1998 QD ₉₈
1998 QK ₉₈	14.0	0.15	20000226	75.16717	340.83478	69.19920	5.58260	0.1697079	2.7857730	58	2	1998-2000	0.61	M-v	3	Williams	38486	1998 QK ₉₈
1998 QP ₉₈	14.6	0.15	20000226	139.44451	133.39605	256.19568	6.62543	0.2182408	2.3791190	45	4	1987-2000	0.67	M-v	2	Williams	33756	1998 QP ₉₈
1998 QS ₉₈	14.2	0.15	20000226	195.53585	287.91125	58.61325	3.45690	0.1568171	2.1672980	73	4	1982-2000	0.74	M-v	2	Williams	33756	1998 QS ₉₈
1998 QE ₉₉	13.2	0.15	20000226	23.83232	77.62909	356.31583	16.55689	0.1732490	3.3700104	58	3	1992-2000	0.72	M-v	2	Williams	38785	1998 QE ₉₉
1998 QJ ₉₉	14.8	0.15	20000226	130.24045	269.25759	99.30958	3.58746	0.2113549	2.4005071	75	3	1993-2000	0.78	M-v	3	Williams	38785	1998 QJ ₉₉
1998 QF ₁₀₀	14.4	0.15	20000226	45.16932	294.36635	154.80181	12.23744	0.1581575	2.6365298	84	2	1998-2000	0.63	M-v	3	Williams	38785	1998 QF ₁₀₀
1998 QH ₁₀₁	15.0	0.15	20000226	54.13902	1.70034	103.07791	2.08477	0.0233614	2.1571388	47	3	1997-2000	0.51	M-v	3	Williams	38785	1998 QH ₁₀₁
1998 QD ₁₀₂	13.4	0.15	20000226	323.54600	349.56064	155.62961	12.81221	0.1366185	2.8616742	51	2	1998-2000	0.71	M-v	3	Williams	37742	1998 QD ₁₀₂
1998 QN ₁₀₂	14.6	0.15	20000226	56.94494	67.02627	24.27264	3.48003	0.1499116	2.4271822	56	2	1998-2000	0.61	M-v	4	Williams	38487	1998 QN ₁₀₂
1998 QP ₁₀₂	12.9	0.15	20000226	203.71213	89.70979	154.07587	10.16692	0.0421596	3.0422045	73	2	1998-2000	0.68	M-v	3	Williams	38785	1998 QP ₁₀₂
1998 QR ₁₀₂	14.7	0.15	20000226	80.82345	358.88655	59.52704	4.17021	0.0622959	2.3958306	66	2	1998-2000	0.72	M-v	3	Williams	38487	1998 QR ₁₀₂
1998 QL ₁₀₃	15.1	0.15	20000226	3.18375	73.31782	83.30820	4.37288	0.0591010	2.1874513	75	4	1992-2000	0.63	M-v	3	Williams	38785	1998 QL ₁₀₃
1998 QM ₁₀₃	13.7	0.15	20000226	141.21289	227.21352	91.61665	3.24725	0.0609813	2.8887546	48	3	1982-2000	0.56	M-v	4	Williams	38785	1998 QM ₁₀₃
1998 QD ₁₀₄	13.8	0.15	20000226	51.68032	324.26540	137.26702	8.21897	0.2279490	2.5449308	55	2	1998-2000	0.63	M-v	3	Williams	38488	1998 QD ₁₀₄
1998 QF ₁₀₄	13.3	0.15	20000226	190.08435	272.25764	13.21657	14.94440	0.1004731	2.5356279	85	5	1978-2000	0.76	M-v	3	Williams	38785	1998 QF ₁₀₄
1998 QL ₁₀₅	14.7	0.15	20000226	332.69393	105.47913	69.82519	5.00844	0.1041785	2.2292817	69	2	1998-2000	0.69	M-v	3	Williams	38785	1998 QL ₁₀₅
1998 QP ₁₀₅	14.7	0.15	20000226	58.40800	24.04573	73.19553	4.44657	0.1159720	2.2959385	66	2	1998-2000	0.62	M-v	4	Williams	38488	1998 QP ₁₀₅
1998 QQ ₁₀₅	15.3	0.15	20000226	98.91072	7.31937	31.75592	7.02478	0.2142064	2.5295045	56	4	1978-2000	0.87	M-v	3	Williams	33563	1998 QQ ₁₀₅
1998 QW ₁₀₅	14.8	0.15	20000226	95.86416	268.32065	138.42750	9.80731	0.1686177	2.4639776	38	4	1993-2000	0.64	M-v	2	Williams	35713	1998 QW ₁₀₅
1998 QX ₁₀₆	15.5	0.15	20000226	104.52013	25.64151	28.62002	7.22056	0.1955425	2.3058754	33	3	1993-2000	0.76	M-v	4	Williams	33563	1998 QX ₁₀₆
1998 RS	13.5	0.15	20000226	81.59122	193.59800	185.99889	15.87261	0.1064941	3.0681077	69	2	1998-2000	0.57	M-v	3	Williams	38785	1998 RS
1998 RW	15.3	0.15	20000226	144.83197	39.73912	305.52889	5.86359	0.1413140	2.4462276	54	2	1998-2000	0.59	M-v	4	Williams	38489	1998 RW
1998 RA ₂	13.0	0.15	20000226	339.42082	279.78191	233.72054	10.48404	0.1374147	2.6654347	53	2	1998-2000	0.49	M-v	3	Williams	38489	1998 RA ₂
1998 RC ₂	13.9	0.15	20000226	56.86671	28.11887	2.11115	12.76279	0.1478113	3.1658417	59	2	1998-2000	0.74	M-v	3	Williams	37745	1998 RC ₂
1998 RD ₂	15.7	0.15	20000226	64.98913	303.30846	129.91685	3.00624	0.1460445	2.3732817	48	3	1993-2000	0.53	M-v	3	Williams	38785	1998 RD ₂

1998 RL ₂	15.7	0.15	20000226	236.12674	146.48486	125.46762	5.56037	0.1221345	2.1832015	53	2	1998-2000	0.69	M-v	4	Williams	38785	1998 RL ₂
1998 RQ ₂	15.2	0.15	20000226	103.15337	46.42678	17.71943	6.13002	0.0572168	2.1464419	78	4	1995-2000	0.65	M-v	2	Williams	38785	1998 RQ ₂
1998 RU ₂	16.4	0.15	20000226	33.96071	141.35108	334.97278	0.96207	0.1373047	2.3872285	35	2	1998-2000	0.50	M-v	4	Williams	38489	1998 RU ₂
1998 RJ ₄	16.3	0.15	20000226	238.29682	123.69323	182.28213	21.93094	0.0756217	1.9438774	52	3	1981-2000	0.65	M-v	3	Williams	35713	1998 RJ ₄
1998 RT ₄	14.6	0.15	20000226	90.36710	244.62733	170.68185	31.70299	0.4030128	2.7275196	46	4	1986-2000	0.73	M-v	1	Williams	35713	1998 RT ₄
1998 RC ₅	14.3	0.15	20000226	70.96864	81.94492	350.91745	6.10922	0.2339522	2.5615790	58	4	1990-2000	0.72	M-v	3	Williams	38786	1998 RC ₅
1998 RP ₅	13.6	0.15	20000226	305.33108	1.34959	185.59752	13.99212	0.1112437	2.5614663	67	3	1988-2000	0.66	M-v	3	Williams	38786	1998 RP ₅
1998 RQ ₅	15.2	0.15	20000226	193.95839	308.21817	13.34475	0.81582	0.0378501	2.2460057	80	3	1991-2000	0.68	M-v	4	Williams	38786	1998 RQ ₅
1998 RU ₅	14.3	0.15	20000226	95.75732	228.77437	176.59404	9.83779	0.0873782	2.5735411	49	2	1998-2000	0.64	M-v	3	Williams	38490	1998 RU ₅
1998 RL ₆	14.0	0.15	20000226	235.95175	264.51639	11.22476	2.65441	0.1026604	2.2955921	92	3	1997-2000	0.50	M-v	2	Marsden	38786	1998 RL ₆
1998 RL ₁₅	15.0	0.15	20000226	31.96022	289.96304	187.47291	0.72939	0.1370306	2.3887474	63	2	1998-2000	0.47	M-v	3	Williams	38490	1998 RL ₁₅
1998 RD ₁₇	13.2	0.15	20000226	75.72604	214.42790	161.25012	13.22592	0.1052053	2.8558019	52	2	1998-2000	0.57	M-v	3	Williams	37747	1998 RD ₁₇
1998 RL ₂₀	13.8	0.15	20000226	25.33936	319.92198	102.32912	7.45195	0.0568669	2.7625354	51	2	1998-2000	0.59	M-v	3	Williams	38786	1998 RL ₂₀
1998 RN ₂₂	14.4	0.15	20000226	66.39140	252.04073	173.13221	3.47064	0.1912534	2.5686725	79	2	1998-2000	0.54	M-v	3	Williams	38490	1998 RN ₂₂
1998 RW ₃₂	16.3	0.15	20000226	131.15531	236.69460	154.87844	0.27233	0.1378190	2.1709131	24	4	1994-2000	0.61	M-v	2	Williams	38491	1998 RW ₃₂
1998 RM ₃₄	14.7	0.15	20000226	328.85652	35.03984	140.05851	7.38458	0.0349123	2.2473349	96	3	1997-2000	0.50	M-v	3	Williams	38786	1998 RM ₃₄
1998 RE ₃₇	14.2	0.15	20000226	65.55871	115.33767	289.48082	5.11897	0.2192553	3.0337677	68	2	1998-2000	0.66	M-v	3	Williams	38786	1998 RE ₃₇
1998 RA ₃₉	14.4	0.15	20000226	85.72829	229.95945	159.91955	10.17531	0.1278075	2.7304734	43	3	1997-2000	0.45	M-v	3	Williams	38786	1998 RA ₃₉
1998 RJ ₄₀	14.9	0.15	20000226	24.88116	350.07933	126.07227	7.17782	0.0567085	2.3343536	83	2	1998-2000	0.62	M-v	3	Williams	38786	1998 RJ ₄₀
1998 RQ ₄₂	14.6	0.15	20000226	169.74202	33.05929	297.81435	4.35942	0.1281773	2.2813716	88	3	1991-2000	0.61	M-v	3	Williams	38786	1998 RQ ₄₂
1998 RB ₄₃	16.0	0.15	20000226	118.41456	62.22980	312.95592	4.24155	0.1445769	2.4735771	42	3	1994-2000	0.62	M-v	3	Williams	38786	1998 RB ₄₃
1998 RO ₄₄	13.0	0.15	20000226	288.34280	97.16940	61.25108	5.93941	0.0997331	3.2060885	91	3	1984-2000	0.58	M-v	3	Williams	38059	1998 RO ₄₄
1998 RP ₄₄	14.3	0.15	20000226	28.11689	332.31408	140.79788	8.25455	0.0625385	2.3843285	82	2	1998-2000	0.61	M-v	3	Williams	38786	1998 RP ₄₄
1998 RA ₄₅	13.7	0.15	20000226	43.16805	293.18313	164.25006	12.36522	0.2401974	2.6856279	104	2	1998-2000	0.54	M-v	3	Williams	38491	1998 RA ₄₅
1998 RJ ₄₆	14.5	0.15	20000226	17.46476	269.09257	202.61679	7.14477	0.1805547	2.7630565	47	2	1998-2000	0.54	M-v	3	Williams	38786	1998 RJ ₄₆
1998 RA ₄₇	15.8	0.15	20000226	52.80008	261.08634	209.97341	7.10399	0.1016472	2.2281096	30	3	1997-2000	0.73	M-v	3	Williams	35714	1998 RA ₄₇
1998 RK ₄₇	14.1	0.15	20000226	188.52029	351.59256	311.70639	6.22197	0.1364799	2.3330246	110	4	1987-2000	0.71	M-v	2	Williams	38786	1998 RK ₄₇
1998 RR ₄₇	15.2	0.15	20000226	100.84790	90.85613	317.08943	5.34656	0.1388348	2.4000683	56	3	1995-2000	0.60	M-v	3	Williams	35714	1998 RR ₄₇
1998 RS ₄₈	14.1	0.15	20000226	64.54151	178.12871	233.98524	1.84642	0.2143697	2.9652990	86	4	1978-2000	0.68	M-v	2	Williams	38786	1998 RS ₄₈
1998 RV ₄₈	15.6	0.15	20000226	76.17234	182.26138	235.70538	1.90307	0.0758230	2.5196523	29	3	1995-2000	0.78	M-v	2	Williams	35714	1998 RV ₄₈
1998 RJ ₄₉	14.6	0.15	20000226	31.69983	121.69317	341.95371	1.61761	0.0876599	2.5215447	86	2	1998-2000	0.56	M-v	3	Williams	38786	1998 RJ ₄₉
1998 RK ₄₉	14.4	0.15	20000226	101.86782	254.37319	169.60914	5.36136	0.1708209	2.2555183	61	6	1951-2000	0.75	M-v	2	Williams	35714	1998 RK ₄₉
1998 RJ ₅₀	13.7	0.15	20000226	61.39620	283.10448	126.40096	1.82844	0.2105744	3.0584753	87	4	1973-2000	0.60	M-v	1	Williams	38786	1998 RJ ₅₀
1998 RA ₅₂	14.6	0.15	20000226	38.93139	48.15943	55.14429	4.21900	0.1720298	2.5597983	49	3	1978-2000	0.60	M-v	3	Williams	38786	1998 RA ₅₂
1998 RF ₅₂	14.9	0.15	20000226	82.47159	40.66760	12.97397	12.71464	0.1675049	2.5706580	38	3	1996-2000	0.57	M-v	3	Williams	33564	1998 RF ₅₂
1998 RT ₅₃	14.9	0.15	20000226	338.35757	287.65118	246.66143	4.79248	0.0457914	2.2528699	52	3	1987-2000	0.72	M-v	3	Williams	38492	1998 RT ₅₃
1998 RM ₅₄	14.7	0.15	20000226	9.93604	216.01534	284.43613	3.86428	0.0399876	2.3220559	52	2	1998-2000	0.62	M-v	3	Williams	38492	1998 RM ₅₄
1998 RV ₅₄	14.9	0.15	20000226	72.82138	118.00759	317.36721	6.29528	0.0836191	2.4265927	49	4	1994-2000	0.71	M-v	1	Williams	38492	1998 RV ₅₄
1998 RZ ₅₄	15.0	0.15	20000226	144.61423	84.01816	300.56214	4.59741	0.1281590	2.1668233	40	3	1989-2000	0.60	M-v	3	Williams	33351	1998 RZ ₅₄
1998 RB ₅₅	14.3	0.15	20000226	356.29645	278.98071	245.43272	5.25899	0.0944680	2.2506104	75	3	1985-2000	0.63	M-v	3	Williams	38493	1998 RB ₅₅
1998 RL ₅₅	15.3	0.15	20000226	251.43571	297.20097	319.24778	4.53680	0.1254701	2.1930451	52	2	1998-2000	0.53	M-v	4	Williams	38493	1998 RL ₅₅
1998 RY ₅₅	15.4	0.15	20000226	158.66580	37.77812	319.72386	3.87479	0.1263250	2.2194647	56	3	1997-2000	0.49	M-v	3	Williams	35714	1998 RY ₅₅
1998 RZ ₅₅	13.7	0.15	20000226	286.10290	267.73336	321.22247	4.01519	0.0907818	2.1657416	127	2	1998-2000	0.54	M-v	3	Williams	38787	1998 RZ ₅₅
1998 RF ₅₆	14.8	0.15	20000226	139.61343	115.70964	259.63154	2.22973	0.0698690	2.2618001	51	2	1998-2000	0.63	M-v	4	Williams	38493	1998 RF ₅₆
1998 RJ ₅₆	14.6	0.15	20000226	109.79075	63.53449	333.00169	5.68996	0.0958451	2.3872939	76	2	1998-2000	0.54	M-v	3	Williams	38494	1998 RJ ₅₆
1998 RN ₅₆	13.9	0.15	20000226	17.44555	145.84038	350.11046	14.19806	0.1530300	2.4014290	61	2	1998-2000	0.55	M-v	3	Williams	38494	1998 RN ₅₆
1998 RT ₅₆	14.4	0.15	20000226	33.70414	250.45203	214.58871	3.09332	0.1323954	2.6040488	70	3	1973-2000	0.67	M-v	3	Williams	38787	1998 RT ₅₆
1998 RA ₅₇	14.9	0.15	20000226	128.93009	174.08638	316.35711	1.42622	0.1220108	2.2396446	56	4	1978-2000	0.60	M-v	2	Williams	35715	1998 RA ₅₇
1998 RB ₅₇	14.8	0.15	20000226	18.96493	163.78273	326.45218	2.13622	0.1336676	2.4116876	53	3	1994-2000	0.60	M-v	4	Williams	38787	1998 RB ₅₇
1998 RT ₅₇	15.1	0.15	20000226	40.36034	341.78277	128.72993	3.12944	0.1425789	2.4311488	63	2	1998-2000	0.63	M-v	4	Williams	38494	1998 RT ₅₇
1998 RY ₅₇	15.0	0.15	20000226	209.73482	174.25710	111.41108	1.90005	0.0324808	2.3899125	59	3	1997-2000	0.64	M-v	3	Williams	38787	1998 RY ₅₇
1998 RZ ₅₇	14.2	0.15	20000226	47.93822	107.94194	2.38913	6.31020	0.1148423	2.3131047	45	3	1991-2000	0.68	M-v	3	Williams	35715	1998 RZ ₅₇
1998 RA ₅₈	16.0	0.15	20000226	89.62255	275.75925	154.09338	2.50518	0.1781383	2.3604469	32	3	1995-2000	0.81	M-v	4	Williams	34022	1998 RA ₅₈

1998 RN ₅₈	13.7	0.15	20000226	94.78610	114.63288	275.69250	1.15165	0.1296528	2.6669763	108	2	1998-2000	0.61	M-v	3	Williams	38787	1998 RN ₅₈
1998 RQ ₅₈	12.9	0.15	20000226	180.26229	81.35353	185.72437	9.96910	0.0276330	3.2077532	59	2	1998-2000	0.61	M-v	3	Williams	38787	1998 RQ ₅₈
1998 RR ₅₉	15.2	0.15	20000226	214.66720	335.40466	311.50533	3.57462	0.0742431	2.3044125	36	3	1997-2000	0.64	M-v	3	Williams	38787	1998 RR ₅₉
1998 RF ₆₀	15.2	0.15	20000226	79.45785	107.26697	319.67943	3.39633	0.2230223	2.6207738	30	3	1991-2000	0.66	M-v	3	Williams	33351	1998 RF ₆₀
1998 RO ₆₀	14.9	0.15	20000226	196.16533	59.43397	253.20618	3.68689	0.1497259	2.2025795	59	3	1995-2000	0.73	M-v	3	Williams	38787	1998 RO ₆₀
1998 RE ₆₁	16.5	0.15	19980924	320.65543	224.62803	194.19282	11.36448	0.1702386	2.4815157	14	1	44 days	0.54			D Williams		1998 RE ₆₁
1998 RL ₆₁	14.6	0.15	20000226	241.77547	284.17568	336.23202	5.25565	0.1361478	2.2325579	70	4	1987-2000	0.56	M-v	1	Williams	38787	1998 RL ₆₁
1998 RQ ₆₁	14.2	0.15	20000226	69.94993	103.13050	329.68978	3.96922	0.1534024	2.5978382	79	3	1996-2000	0.63	M-v	2	Williams	38495	1998 RQ ₆₁
1998 RU ₆₁	14.6	0.15	20000226	351.74729	184.32543	338.46387	3.45472	0.0816481	2.3050492	69	3	1991-2000	0.67	M-v	4	Williams	38787	1998 RU ₆₁
1998 RD ₆₂	14.0	0.15	20000226	100.98510	85.24889	345.97311	4.14674	0.1667672	2.2466855	45	3	1991-2000	0.69	M-v	2	Williams	38787	1998 RD ₆₂
1998 RB ₆₃	14.8	0.15	20000226	81.77430	252.30734	155.95937	11.62472	0.1823078	2.6795000	53	2	1998-2000	0.66	M-v	4	Williams	38495	1998 RB ₆₃
1998 RH ₆₃	14.7	0.15	20000226	162.53575	242.00518	108.07001	3.14762	0.1873574	2.2080262	68	4	1995-2000	0.63	M-v	2	Williams	38787	1998 RH ₆₃
1998 RA ₆₄	14.0	0.15	20000226	12.47988	14.08373	120.97792	3.33986	0.1152049	2.4244178	92	4	1966-2000	0.60	M-v	2	Williams	38495	1998 RA ₆₄
1998 RX ₆₄	15.3	0.15	20000226	81.59571	247.08773	189.03537	2.29150	0.1510576	2.3944012	64	4	1983-2000	0.72	M-v	1	Williams	35715	1998 RX ₆₄
1998 RD ₆₅	14.2	0.15	20000226	96.84885	72.08877	294.12341	0.97561	0.0792163	2.9977803	34	2	1998-2000	0.66	M-v	5	Williams	37756	1998 RD ₆₅
1998 RE ₆₅	14.7	0.15	20000226	89.49773	128.30982	266.87230	0.96637	0.0912080	2.6965749	58	2	1998-2000	0.67	M-v	4	Williams	38787	1998 RE ₆₅
1998 RU ₆₅	15.6	0.15	20000226	135.81837	33.88790	333.77660	1.60946	0.1891228	2.3998704	44	3	1993-2000	0.60	M-v	4	Marsden	38787	1998 RU ₆₅
1998 RB ₆₆	14.5	0.15	20000226	16.95869	313.65041	190.90251	7.20025	0.0598695	2.2560021	53	2	1998-2000	0.59	M-v	3	Williams	38496	1998 RB ₆₆
1998 RO ₆₆	13.8	0.15	20000226	39.15247	103.11051	340.48403	7.08262	0.1883414	3.0892107	64	2	1998-2000	0.58	M-v	3	Williams	38787	1998 RO ₆₆
1998 RQ ₆₆	14.8	0.15	20000226	107.42810	162.43107	232.00241	3.11475	0.0299298	2.4547004	44	2	1998-2000	0.74	M-v	4	Williams	38787	1998 RQ ₆₆
1998 RV ₆₆	14.6	0.15	20000226	205.78703	47.98554	253.05504	3.32173	0.1783857	2.1929205	55	3	1988-2000	0.60	M-v	3	Williams	38788	1998 RV ₆₆
1998 RJ ₆₇	13.7	0.15	20000226	17.98673	252.33804	207.57309	11.07825	0.0265432	2.8643690	38	2	1998-2000	0.80	M-v	3	Williams	38496	1998 RJ ₆₇
1998 RO ₆₇	14.8	0.15	20000226	222.39843	61.52682	214.04595	6.31580	0.1056829	2.3452091	49	3	1997-2000	0.64	M-v	3	Williams	38788	1998 RO ₆₇
1998 RS ₆₈	14.1	0.15	20000226	131.50014	21.86946	1.63754	9.14761	0.1007589	2.3145048	73	4	1982-2000	0.55	M-v	2	Williams	38788	1998 RS ₆₈
1998 RX ₆₈	13.8	0.15	20000226	129.34566	350.74516	5.96779	9.90603	0.1437896	2.6057492	42	4	1977-2000	0.81	M-v	2	Williams	38060	1998 RX ₆₈
1998 RQ ₇₀	14.3	0.15	20000226	358.68377	336.15310	156.52970	11.80521	0.1204263	2.6578473	42	2	1998-2000	0.61	M-v	3	Williams	38497	1998 RQ ₇₀
1998 RW ₇₀	14.7	0.15	20000226	147.78837	243.49622	131.70411	4.48711	0.1469319	2.1981604	69	4	1990-2000	0.68	M-v	2	Williams	38788	1998 RW ₇₀
1998 RD ₇₁	14.8	0.15	20000226	78.15050	273.28182	151.98330	7.54712	0.1323628	2.5339056	80	3	1997-2000	0.57	M-v	3	Williams	38788	1998 RD ₇₁
1998 RE ₇₁	14.0	0.15	20000226	39.06975	302.73800	136.15977	5.61863	0.1672607	3.0561284	68	2	1998-2000	0.63	M-v	3	Williams	38788	1998 RE ₇₁
1998 RK ₇₁	15.0	0.15	20000226	39.05019	95.46037	28.67972	6.09425	0.0589711	2.2294017	60	2	1998-2000	0.61	M-v	4	Williams	38788	1998 RK ₇₁
1998 RM ₇₁	14.6	0.15	20000226	26.82876	306.23413	156.33465	5.58485	0.1217358	2.7608297	54	3	1989-2000	0.71	M-v	3	Williams	38788	1998 RM ₇₁
1998 RP ₇₁	15.4	0.15	20000226	118.39869	27.98767	25.84760	4.22234	0.1129789	2.1782231	38	4	1971-2000	0.70	M-v	2	Williams	35715	1998 RP ₇₁
1998 RV ₇₁	14.7	0.15	20000226	340.30561	43.24974	109.73544	1.59340	0.0754891	2.5661250	64	3	1978-2000	0.63	M-v	4	Williams	38497	1998 RV ₇₁
1998 RY ₇₁	15.0	0.15	20000226	149.13633	350.08018	17.70675	6.65085	0.1262258	2.2495171	58	2	1998-2000	0.62	M-v	3	Williams	38497	1998 RY ₇₁
1998 RA ₇₂	13.9	0.15	20000226	59.28021	323.62912	91.53657	1.26662	0.1960402	3.1106016	69	3	1996-2000	0.58	M-v	3	Williams	38788	1998 RA ₇₂
1998 RQ ₇₂	16.3	0.15	20000226	126.43205	357.89723	26.84007	2.62686	0.1931602	2.3834232	34	5	1976-2000	0.73	M-v	2	Williams	34927	1998 RQ ₇₂
1998 RY ₇₂	14.3	0.15	20000226	63.87100	257.03227	177.03093	2.47039	0.1104867	2.6496355	56	2	1998-2000	0.56	M-v	3	Williams	38497	1998 RY ₇₂
1998 RH ₇₃	14.6	0.15	20000226	123.30804	192.07893	198.38304	6.51382	0.1202860	2.3618716	59	4	1993-2000	0.72	M-v	2	Williams	38788	1998 RH ₇₃
1998 RW ₇₃	14.4	0.15	20000226	9.50979	202.40870	298.72733	4.10298	0.0826347	2.4586097	72	3	1981-2000	0.64	M-v	2	Williams	38497	1998 RW ₇₃
1998 RY ₇₃	15.0	0.15	20000226	155.84212	31.21587	322.67975	5.76328	0.1315528	2.3233852	67	2	1998-2000	0.64	M-v	3	Williams	38498	1998 RY ₇₃
1998 RB ₇₄	13.7	0.15	20000226	20.16537	162.07896	322.68034	7.16086	0.1081693	2.6237890	76	2	1998-2000	0.55	M-v	3	Marsden	38498	1998 RB ₇₄
1998 RC ₇₄	13.5	0.15	20000226	124.37433	123.62334	234.42788	6.42675	0.0936135	2.7270260	73	2	1998-2000	0.66	M-v	3	Williams	38788	1998 RC ₇₄
1998 RE ₇₄	15.3	0.15	20000226	125.57486	86.80771	308.99174	3.96416	0.1585991	2.3202853	42	3	1993-2000	0.71	M-v	3	Williams	33565	1998 RE ₇₄
1998 RF ₇₄	13.8	0.15	20000226	159.76890	353.29221	332.33598	5.99625	0.0335825	2.6736557	84	3	1996-2000	0.59	M-v	3	Williams	38788	1998 RF ₇₄
1998 RT ₇₄	14.6	0.15	20000226	3.96501	195.66391	314.16278	1.80521	0.1101737	2.4284376	64	4	1987-2000	0.64	M-v	3	Williams	38788	1998 RT ₇₄
1998 RX ₇₄	14.4	0.15	20000226	49.94437	142.04660	315.72171	1.41484	0.1616200	2.6440148	74	3	1991-2000	0.59	M-v	3	Williams	38788	1998 RX ₇₄
1998 RA ₇₅	14.1	0.15	20000226	59.30900	80.71454	4.25668	11.31808	0.1459986	2.6476263	76	2	1998-2000	0.64	M-v	3	Williams	38498	1998 RA ₇₅
1998 RG ₇₅	13.4	0.15	20000226	42.53619	279.46739	182.37298	13.04246	0.1291163	2.6187208	75	3	1996-2000	0.46	M-v	2	Williams	38788	1998 RG ₇₅
1998 RH ₇₅	13.9	0.15	20000226	285.94840	27.68115	181.66065	12.36996	0.1299301	2.4702681	50	2	1998-2000	0.60	M-v	4	Williams	38788	1998 RH ₇₅
1998 RK ₇₅	12.9	0.15	20000226	328.92485	150.33009	13.84808	11.48737	0.1061128	2.6653275	69	3	1985-2000	0.58	M-v	3	Williams	38788	1998 RK ₇₅
1998 RW ₇₅	13.1	0.15	20000226	313.11134	78.64385	80.41164	2.56776	0.1242101	3.0439068	74	3	1996-2000	0.57	M-v	3	Williams	38788	1998 RW ₇₅
1998 RH ₇₆	13.1	0.15	20000226	69.74917	335.82337	68.02665	3.23759	0.1043307	2.9443996	94	3	1989-2000	0.61	M-v	2	Williams	38788	1998 RH ₇₆
1998 RZ ₇₆	14.2	0.15	20000226	65.68959	263.98661	166.28565	13.30009	0.1430698	2.6845881	57	2	1998-2000	0.62	M-v	3	Williams	38499	1998 RZ ₇₆

1998 RB ₇₇	13.1	0.15	20000226	72.26623	282.44582	130.16759	4.70305	0.0915222	2.7551234	103	4	1989-2000	0.56	M-v	1	Williams	38788	1998 RB ₇₇
1998 RD ₇₇	14.6	0.15	20000226	53.18155	345.52267	134.58652	5.31378	0.1382419	2.2370627	45	2	1998-2000	0.65	M-v	4	Williams	38499	1998 RD ₇₇
1998 RJ ₇₇	14.5	0.15	20000226	138.66497	206.33251	145.96751	5.77474	0.0684411	2.5386334	74	3	1997-2000	0.63	M-v	3	Williams	38788	1998 RJ ₇₇
1998 RR ₇₇	14.5	0.15	20000226	6.33075	29.46961	132.62914	3.67774	0.1891104	2.2496814	69	2	1998-2000	0.69	M-v	4	Williams	38788	1998 RR ₇₇
1998 RY ₇₇	14.2	0.15	20000226	305.93910	52.41760	152.22207	5.26022	0.1107268	2.2949982	90	2	1998-2000	0.62	M-v	3	Williams	38788	1998 RY ₇₇
1998 RZ ₇₇	15.4	0.15	20000226	171.44848	221.39888	128.94692	3.25049	0.1766818	2.1643647	50	3	1995-2000	0.68	M-v	3	Williams	34302	1998 RZ ₇₇
1998 RC ₇₈	14.2	0.15	20000226	94.53585	252.86820	133.59135	4.46251	0.1059147	2.7980107	58	2	1998-2000	0.58	M-v	4	Williams	38789	1998 RC ₇₈
1998 RF ₇₈	13.1	0.15	20000226	31.24586	306.07805	124.30896	4.57737	0.0114067	3.1402979	76	2	1998-2000	0.58	M-v	3	Williams	38789	1998 RF ₇₈
1998 RL ₇₈	15.2	0.15	20000226	170.28363	283.80558	53.26213	4.53108	0.1700630	2.2716857	46	4	1981-2000	0.60	M-v	2	Williams	38789	1998 RL ₇₈
1998 RM ₇₈	13.7	0.15	20000226	340.01610	121.86406	40.58920	7.14460	0.0813257	2.4644880	60	3	1985-2000	0.60	M-v	3	Williams	38789	1998 RM ₇₈
1998 RO ₇₈	14.7	0.15	20000226	170.16315	228.33930	90.16095	3.47405	0.2183763	2.3783857	58	4	1994-2000	0.62	M-v	2	Williams	38789	1998 RO ₇₈
1998 RP ₇₈	14.8	0.15	20000226	124.60635	241.02209	150.63217	7.38558	0.1184257	2.3196169	60	2	1998-2000	0.73	M-v	4	Williams	38499	1998 RP ₇₈
1998 RY ₇₈	13.1	0.15	20000226	13.17681	343.42335	111.34655	6.29172	0.0781055	3.1549851	62	2	1998-2000	0.68	M-v	3	Williams	38789	1998 RY ₇₈
1998 RA ₇₉	15.3	0.15	20000226	118.40570	222.71909	151.11463	8.03783	0.1895742	2.5862520	52	3	1996-2000	0.59	M-v	3	Williams	38789	1998 RA ₇₉
1998 RK ₇₉	12.9	0.15	20000226	213.67555	155.40830	83.26975	5.95672	0.0714995	3.2138740	42	2	1998-2000	0.63	M-v	4	Williams	37763	1998 RK ₇₉
1998 RM ₇₉	15.7	0.15	20000226	174.99729	290.50254	55.69254	3.81406	0.2090386	2.1542450	61	3	1995-2000	0.51	M-v	2	Williams	35716	1998 RM ₇₉
1998 RW ₇₉	15.3	0.15	20000226	59.42781	282.59746	183.98844	5.42620	0.1916656	2.4395893	36	5	1977-2000	0.82	M-v	1	Williams	35716	1998 RW ₇₉
1998 RX ₇₉	13.4	0.15	20000226	91.32544	77.80897	340.98025	8.28875	0.1887460	2.5737880	78	3	1994-2000	0.64	M-v	2	Williams	38789	1998 RX ₇₉
1998 RZ ₇₉	13.1	0.15	20000226	37.48263	357.29108	92.50016	4.97541	0.0636927	2.7888593	120	3	1997-2000	0.55	M-v	2	Williams	38789	1998 RZ ₇₉
1998 RL ₈₀	14.7	0.15	20000226	30.17141	86.19410	56.00451	4.12219	0.0198648	2.1645339	60	4	1995-2000	0.76	M-v	2	Williams	38061	1998 RL ₈₀
1998 RO ₈₀	14.6	0.15	20000226	324.24178	184.07481	7.43603	6.66351	0.0967356	2.3521062	46	3	1994-2000	0.73	M-v	4	Williams	33353	1998 RO ₈₀
1998 SK ₁	13.5	0.15	20000226	31.40840	36.21780	64.03271	1.60269	0.1373145	3.1370502	107	3	1992-2000	0.60	M-v	2	Williams	38789	1998 SK ₁
1998 SN ₁	14.3	0.15	20000226	262.37016	49.19601	191.71244	7.05147	0.1035979	2.5295850	44	2	1998-2000	0.65	M-v	4	Williams	38789	1998 SN ₁
1998 SN ₂	14.4	0.15	20000226	100.66617	269.68487	119.69409	0.22659	0.1813871	3.0873302	57	3	1997-2000	0.49	M-v	2	Williams	38789	1998 SN ₂
1998 SQ ₂	14.4	0.15	20000226	153.50385	37.45832	296.58197	16.74811	0.3205184	2.5323957	40	3	1996-2000	0.61	M-v	3	Williams	38789	1998 SQ ₂
1998 SS ₂	13.3	0.15	20000226	169.54302	57.44535	259.25057	12.34404	0.1821569	2.5755615	107	2	1998-2000	0.55	M-v	3	Williams	38789	1998 SS ₂
1998 SU ₂	14.7	0.15	20000226	123.42424	6.99816	356.14897	1.69664	0.0409931	2.6776687	57	3	1985-2000	0.56	M-v	3	Williams	38789	1998 SU ₂
1998 SN ₃	15.0	0.15	20000226	18.51948	22.81192	90.68129	5.97479	0.1152448	2.7287384	61	2	1998-2000	0.59	M-v	3	Williams	38789	1998 SN ₃
1998 SG ₄	15.7	0.15	20000226	288.47450	291.23892	293.20901	2.92911	0.0899769	2.1620419	68	2	1998-2000	0.53	M-v	4	Williams	38789	1998 SG ₄
1998 SL ₄	14.7	0.15	20000226	218.14393	307.02398	347.98748	2.08191	0.1552921	2.1683282	109	3	1997-2000	0.60	M-v	3	Williams	38789	1998 SL ₄
1998 SG ₅	13.1	0.15	20000226	113.95473	179.49475	183.27500	12.77886	0.1726495	2.6692019	119	3	1979-2000	0.65	M-v	2	Williams	38789	1998 SG ₅
1998 SK ₈	14.2	0.15	20000226	19.45839	290.14275	190.00482	12.89197	0.1532336	2.7421764	49	2	1998-2000	0.60	M-v	3	Williams	38500	1998 SK ₈
1998 SH ₉	15.0	0.15	20000226	75.15016	232.99542	186.56903	4.81241	0.0909572	2.6990906	44	2	1998-2000	0.75	M-v	4	Williams	38500	1998 SH ₉
1998 SO ₉	14.1	0.15	20000226	91.59474	193.13877	202.34870	5.35841	0.1016907	2.8062905	81	2	1998-2000	0.57	M-v	3	Williams	38789	1998 SO ₉
1998 SF ₁₀	15.7	0.15	20000226	113.28140	3.54508	33.98154	5.48510	0.1738644	2.6073449	32	3	1996-2000	0.75	M-v	3	Williams	33354	1998 SF ₁₀
1998 SX ₁₂	13.5	0.15	20000226	119.84745	240.92752	149.34362	27.58357	0.0245503	2.6507424	62	2	1998-2000	0.53	M-v	3	Williams	38789	1998 SX ₁₂
1998 SB ₁₃	15.8	0.15	20000226	203.61375	150.15579	148.02256	6.46115	0.2144928	2.2363906	47	2	1998-2000	0.59	M-v	4	Williams	38500	1998 SB ₁₃
1998 SR ₁₄	14.9	0.15	20000226	113.69032	344.30391	54.44340	5.47407	0.1475985	2.4313732	64	3	1960-2000	0.75	M-v	3	Williams	33566	1998 SR ₁₄
1998 SX ₁₆	14.8	0.15	20000226	249.78610	75.31392	176.52954	5.08594	0.0527664	2.3635061	95	3	1997-2000	0.60	M-v	3	Williams	38789	1998 SX ₁₆
1998 SS ₁₉	14.5	0.15	20000226	78.90859	128.00463	273.37573	0.81389	0.1845825	2.6576010	39	2	1998-2000	0.50	M-v	4	Williams	38501	1998 SS ₁₉
1998 SP ₂₁	15.3	0.15	20000226	157.31626	112.45686	237.55406	1.90333	0.2340936	2.3674165	48	4	1987-2000	0.48	M-v	2	Williams	35716	1998 SP ₂₁
1998 SU ₂₁	14.8	0.15	20000226	52.14191	277.34910	186.28387	3.08770	0.1142762	2.2750291	75	3	1997-2000	0.72	M-v	3	Williams	38789	1998 SU ₂₁
1998 SX ₂₁	14.7	0.15	20000226	161.56414	186.35817	148.89615	2.62996	0.1844635	2.4192737	69	3	1993-2000	0.59	M-v	3	Williams	38789	1998 SX ₂₁
1998 SZ ₂₁	15.0	0.15	20000226	92.85577	53.63700	18.53605	2.37379	0.0825615	2.3352577	55	4	1993-2000	0.74	M-v	2	Williams	35716	1998 SZ ₂₁
1998 SH ₂₂	15.5	0.15	20000226	115.03417	58.60952	350.33395	6.31204	0.1840407	2.2715866	39	3	1981-2000	0.64	M-v	3	Williams	33566	1998 SH ₂₂
1998 SN ₂₂	13.4	0.15	20000226	353.87318	309.75490	191.44947	13.05722	0.0992983	2.6852540	87	4	1992-2000	0.63	M-v	3	Williams	38789	1998 SN ₂₂
1998 SV ₂₂	14.7	0.15	20000226	113.56170	206.26227	205.32506	5.90925	0.1049242	2.3876329	79	4	1994-2000	0.64	M-v	1	Williams	35716	1998 SV ₂₂
1998 SW ₂₂	14.1	0.15	20000226	125.22387	226.88630	160.95711	12.03143	0.1242727	2.7060748	61	3	1993-2000	0.50	M-v	3	Williams	38789	1998 SW ₂₂
1998 SW ₂₃	14.7	0.15	20000226	6.41308	94.12032	44.24988	7.72139	0.0390631	2.3841682	36	3	1993-2000	0.69	M-v	3	Williams	38061	1998 SW ₂₃
1998 SY ₂₃	16.2	0.15	19980904	344.12093	307.60465	68.37005	3.82648	0.2001757	2.3187511	24	1	13 days	0.70			Williams		1998 SY ₂₃
1998 SG ₂₄	14.6	0.15	20000226	87.19613	352.50002	61.91301	3.92004	0.0790228	2.4079921	76	4	1972-2000	0.58	M-v	2	Williams	38789	1998 SG ₂₄
1998 SJ ₂₄	13.3	0.15	20000226	90.85864	296.48959	76.99654	3.76410	0.0646509	2.8733444	74	2	1998-2000	0.50	M-v	3	Williams	38790	1998 SJ ₂₄
1998 SM ₂₄	14.6	0.15	20000226	76.23341	4.03414	44.70828	3.52699	0.1055292	2.6597304	55	2	1998-2000	0.66	M-v	4	Williams	38790	1998 SM ₂₄

1998 SQ ₂₄	15.0	0.15	20000226	79.13107	24.82405	33.58200	6.39636	0.1488317	2.5495614	60	3	1978-2000	0.68	M-v	3	Williams	38790	1998 SQ ₂₄
1998 SU ₂₄	14.2	0.15	20000226	80.05132	17.95148	72.42149	5.08620	0.1014965	2.2798505	51	3	1981-2000	0.68	M-v	2	Williams	38062	1998 SU ₂₄
1998 SV ₂₄	14.7	0.15	20000226	92.62215	322.75938	91.05789	4.37020	0.1458701	2.5676205	44	4	1977-2000	0.73	M-v	2	Williams	38790	1998 SV ₂₄
1998 SW ₂₄	14.7	0.15	20000226	98.61476	271.79457	140.35648	7.07123	0.0306063	2.4103525	51	2	1998-2000	0.52	M-v	3	Williams	38501	1998 SW ₂₄
1998 SA ₂₅	13.9	0.15	20000226	77.60050	316.82927	138.38300	5.93705	0.0496199	2.2956730	55	3	1993-2000	0.55	M-v	2	Williams	38790	1998 SA ₂₅
1998 SN ₂₅	13.8	0.15	20000226	36.09044	319.63634	140.00371	5.51563	0.0782376	2.7819642	107	3	1993-2000	0.61	M-v	2	Williams	38790	1998 SN ₂₅
1998 SJ ₂₆	12.8	0.15	20000226	43.48424	38.82387	46.34508	14.95307	0.1894242	3.1331785	53	2	1998-2000	0.60	M-v	3	Williams	38790	1998 SJ ₂₆
1998 SS ₂₆	13.9	0.15	20000226	95.95484	64.34986	17.10984	13.91771	0.1495548	2.5308200	54	4	1984-2000	0.59	M-v	2	Williams	38502	1998 SS ₂₆
1998 SN ₂₇	12.7	0.15	20000226	275.00600	296.70833	281.60802	27.11913	0.0986316	2.6510752	71	3	1987-2000	0.63	M-v	2	Williams	38790	1998 SN ₂₇
1998 SS ₂₇	12.5	0.15	20000226	200.06179	351.84148	305.13428	27.63744	0.0492973	2.6093503	85	2	1998-2000	0.56	M-v	3	Williams	38790	1998 SS ₂₇
1998 SP ₃₀	15.6	0.15	20000226	274.81174	223.53353	16.20721	2.29222	0.1045730	2.2159629	51	5	1977-2000	0.79	M-v	1	Williams	38790	1998 SP ₃₀
1998 SW ₃₂	14.7	0.15	20000226	61.49400	82.63420	5.40116	4.81929	0.2337200	2.5622363	75	4	1986-2000	0.71	M-v	1	Williams	35717	1998 SW ₃₂
1998 SM ₃₄	14.6	0.15	20000226	101.74512	50.90866	15.13728	10.58651	0.2237268	2.3439235	40	4	1973-2000	0.67	M-v	2	Williams	33567	1998 SM ₃₄
1998 SO ₃₅	14.3	0.15	20000226	227.76762	70.64464	205.91166	2.31817	0.0338945	2.7080712	51	2	1998-2000	0.49	M-v	4	Williams	38503	1998 SO ₃₅
1998 SZ ₃₆	15.2	0.15	20000226	305.55819	159.59787	39.97935	1.22302	0.0992098	2.4330801	50	3	1960-2000	0.68	M-v	4	Williams	38790	1998 SZ ₃₆
1998 SP ₃₇	14.8	0.15	20000226	85.57514	233.35281	218.59676	3.75155	0.1083999	2.3191351	46	3	1989-2000	0.69	M-v	3	Williams	34303	1998 SP ₃₇
1998 SR ₃₇	14.0	0.15	20000226	148.85778	132.75700	216.27765	5.35836	0.0841551	2.6248131	74	2	1998-2000	0.60	M-v	3	Williams	38790	1998 SR ₃₇
1998 SS ₃₇	15.6	0.15	20000226	211.48829	92.43683	217.58630	3.50714	0.1361586	2.2129211	43	3	1991-2000	0.79	M-v	3	Williams	38790	1998 SS ₃₇
1998 SU ₃₇	14.1	0.15	20000226	22.66268	296.20870	211.42157	6.91056	0.0537755	2.3483246	58	3	1975-2000	0.52	M-v	3	Williams	38062	1998 SU ₃₇
1998 SU ₄₀	15.4	0.15	20000226	69.28048	197.20769	237.85930	1.32160	0.0912033	2.4342409	47	3	1994-2000	0.80	M-v	3	Williams	35441	1998 SU ₄₀
1998 SQ ₄₂	15.6	0.15	20000226	75.58900	95.41964	350.10340	4.12865	0.1507306	2.4247795	42	3	1994-2000	0.85	M-v	3	Williams	33355	1998 SQ ₄₂
1998 SD ₄₃	14.4	0.15	20000226	344.89279	165.61073	17.65655	7.29391	0.1618075	2.2443762	59	3	1990-2000	0.72	M-v	3	Williams	38504	1998 SD ₄₃
1998 SE ₄₃	14.3	0.15	20000226	325.03685	187.88163	8.43885	7.02060	0.0411315	2.2852808	85	2	1998-2000	0.53	M-v	3	Williams	38790	1998 SE ₄₃
1998 SE ₄₄	12.8	0.15	20000226	27.52332	263.69302	171.44755	7.14434	0.1239643	3.1626986	74	2	1998-2000	0.58	M-v	3	Williams	38790	1998 SE ₄₄
1998 SE ₄₇	13.3	0.15	20000226	45.13979	53.82392	33.60219	5.76393	0.0673243	3.0012000	59	3	1993-2000	0.59	M-v	2	Williams	38790	1998 SE ₄₇
1998 SX ₄₇	15.4	0.15	20000226	31.19709	98.86921	18.84348	2.71851	0.0457819	2.6390100	31	2	1998-2000	0.60	M-v	4	Williams	38505	1998 SX ₄₇
1998 SN ₄₈	14.7	0.15	20000226	73.93970	82.27975	6.36069	1.63826	0.1886504	2.6227291	52	3	1994-2000	0.53	M-v	3	Williams	35717	1998 SN ₄₈
1998 SP ₄₈	14.8	0.15	20000226	319.77491	325.35518	225.36996	4.08353	0.0369670	2.5413026	45	3	1992-2000	0.45	M-v	3	Williams	38790	1998 SP ₄₈
1998 SD ₄₉	15.7	0.15	20000226	131.89538	194.05751	172.12071	2.94019	0.2057973	2.4160309	65	3	1995-2000	0.73	M-v	3	Williams	35717	1998 SD ₄₉
1998 SH ₄₉	14.1	0.15	20000226	176.78014	102.81078	201.80211	12.74950	0.1886252	2.5567720	67	3	1990-2000	0.51	M-v	3	Williams	37287	1998 SH ₄₉
1998 SN ₅₀	15.3	0.15	20000226	45.12103	240.33865	252.86057	1.42892	0.1510794	2.3741034	29	3	1989-2000	0.80	M-v	2	Williams	33707	1998 SN ₅₀
1998 SB ₅₁	14.9	0.15	20000226	175.56979	104.33349	221.84327	1.26486	0.2332661	2.3566652	56	5	1992-2000	0.62	M-v	1	Williams	35717	1998 SB ₅₁
1998 ST ₅₃	14.9	0.15	20000226	91.91542	79.02153	334.96596	6.98558	0.2383978	2.5358473	57	4	1986-2000	0.75	M-v	3	Williams	35717	1998 ST ₅₃
1998 SW ₅₃	15.3	0.15	20000226	227.99019	13.99843	270.89349	2.60428	0.0690601	2.1407045	63	4	1991-2000	0.68	M-v	3	Williams	38790	1998 SW ₅₃
1998 SY ₅₃	14.7	0.15	20000226	138.14152	159.30703	196.11626	9.28116	0.0989923	2.4440636	72	3	1997-2000	0.52	M-v	3	Williams	38790	1998 SY ₅₃
1998 SZ ₅₃	14.4	0.15	20000226	140.18279	44.03975	321.59415	3.76804	0.1224813	2.3316233	84	2	1998-2000	0.55	M-v	3	Williams	38505	1998 SZ ₅₃
1998 SB ₅₄	15.6	0.15	20000226	123.88910	165.57076	227.53329	2.80275	0.1393494	2.2908840	84	3	1997-2000	0.69	M-v	3	Williams	33567	1998 SB ₅₄
1998 SN ₅₄	14.0	0.15	20000226	305.27228	216.70379	340.99109	6.74294	0.0515309	2.3288801	96	3	1991-2000	0.61	M-v	3	Williams	38790	1998 SN ₅₄
1998 SP ₅₄	15.0	0.15	20000226	61.68108	261.73482	188.81267	4.21452	0.2236983	2.5441019	55	5	1992-2000	0.76	M-v	1	Williams	35718	1998 SP ₅₄
1998 SC ₅₅	14.8	0.15	20000226	94.81944	252.80708	172.81793	9.06521	0.2163711	2.3788192	51	4	1987-2000	0.59	M-v	2	Williams	33567	1998 SC ₅₅
1998 SV ₅₅	13.3	0.15	20000226	39.96984	249.36664	174.98873	1.46293	0.1293300	3.1836325	68	2	1998-2000	0.60	M-v	3	Williams	38790	1998 SV ₅₅
1998 SW ₅₅	15.1	0.15	20000226	79.43304	86.33632	354.45939	6.80608	0.1006285	2.2627443	63	2	1998-2000	0.62	M-v	4	Williams	38505	1998 SW ₅₅
1998 SC ₅₆	14.8	0.15	20000226	81.64640	200.66483	207.64106	3.46421	0.1434825	2.6387065	46	2	1998-2000	0.56	M-v	4	Williams	38506	1998 SC ₅₆
1998 SF ₅₇	14.6	0.15	20000226	147.30177	281.67517	60.75892	1.55279	0.2153185	2.4175872	59	2	1998-2000	0.69	M-v	4	Williams	38506	1998 SF ₅₇
1998 SL ₅₇	14.4	0.15	20000226	337.06952	147.40183	23.33856	4.48181	0.0834382	2.3068825	113	2	1998-2000	0.55	M-v	3	Williams	38790	1998 SL ₅₇
1998 SN ₅₇	13.4	0.15	20000226	93.44796	328.03164	56.33574	2.18673	0.1608102	2.7776497	98	3	1975-2000	0.54	M-v	2	Williams	38790	1998 SN ₅₇
1998 SO ₅₇	14.7	0.15	20000226	47.94658	18.37837	70.74061	2.39484	0.1098488	2.5728359	69	2	1998-2000	0.70	M-v	3	Williams	38507	1998 SO ₅₇
1998 SV ₅₇	14.9	0.15	20000226	50.81934	15.83625	99.32350	2.46444	0.1777980	2.3264578	41	5	1989-2000	0.78	M-v	1	Williams	38791	1998 SV ₅₇
1998 SD ₅₈	12.4	0.15	20000226	9.20650	278.79249	178.79130	9.68785	0.0439974	3.0171042	110	3	1993-2000	0.59	M-v	2	Williams	38791	1998 SD ₅₈
1998 SE ₅₈	13.6	0.15	20000226	246.33075	227.50099	358.12802	2.19978	0.1278421	2.6575925	76	3	1990-2000	0.64	M-v	2	Williams	38791	1998 SE ₅₈
1998 SH ₅₈	13.7	0.15	20000226	134.91068	170.05204	178.40327	8.30676	0.1756691	2.5731278	95	3	1997-2000	0.68	M-v	3	Williams	38791	1998 SH ₅₈
1998 SN ₅₈	15.1	0.15	20000226	156.43944	173.28699	167.49507	2.26506	0.2351908	2.3529079	63	4	1991-2000	0.64	M-v	2	Williams	38791	1998 SN ₅₈
1998 SR ₅₈	14.5	0.15	20000226	61.85712	274.36287	182.18728	6.44905	0.0526803	2.3055749	92	3	1997-2000	0.63	M-v	2	Williams	38791	1998 SR ₅₈

1998 ST ₅₈	14.7	0.15	20000226	206.69510	128.89505	172.61953	3.53503	0.1828577	2.1675225	84	2	1998-2000	0.54	M-v	4	Williams	38507	1998 ST ₅₈
1998 SO ₅₉	13.6	0.15	20000226	8.91236	117.26785	24.71718	9.78229	0.0797663	2.4382191	80	2	1998-2000	0.60	M-v	3	Williams	38508	1998 SO ₅₉
1998 SV ₅₉	15.3	0.15	20000226	93.71497	303.05072	102.73247	3.36107	0.2078995	2.6524721	43	3	1996-2000	0.71	M-v	3	Williams	33357	1998 SV ₅₉
1998 SG ₆₀	12.9	0.15	20000226	43.25959	333.30730	94.39704	2.52485	0.1676238	3.1989276	91	3	1981-2000	0.55	M-v	2	Williams	38791	1998 SG ₆₀
1998 SU ₆₀	15.4	0.15	20000226	210.69404	244.47146	66.56164	3.11986	0.0670315	2.1513791	59	5	1976-2000	0.68	M-v	2	Williams	38791	1998 SU ₆₀
1998 SY ₆₀	15.3	0.15	20000226	77.86569	306.17328	144.59308	3.80824	0.0653019	2.1904614	43	3	1997-2000	0.80	M-v	3	Williams	33034	1998 SY ₆₀
1998 SR ₆₁	13.8	0.15	20000226	28.12090	119.51141	337.13356	11.22994	0.0407806	2.7837477	55	2	1998-2000	0.67	M-v	3	Williams	38791	1998 SR ₆₁
1998 SS ₆₁	13.9	0.15	20000226	79.65455	210.87529	209.09013	12.46739	0.1153716	2.6069943	99	3	1994-2000	0.69	M-v	2	Williams	38791	1998 SS ₆₁
1998 SR ₆₂	14.9	0.15	20000226	176.84451	309.65844	41.33228	2.26121	0.2727543	2.3173048	36	4	1996-2000	0.75	M-v	2	Williams	36085	1998 SR ₆₂
1998 SZ ₆₂	15.5	0.15	20000226	127.14831	5.28364	4.54006	3.16022	0.2195688	2.5331303	55	4	1990-2000	0.63	M-v	3	Williams	35718	1998 SZ ₆₂
1998 SM ₆₃	13.6	0.15	20000226	73.62311	116.85567	324.53934	5.67985	0.0618354	2.3040824	114	3	1991-2000	0.60	M-v	1	Williams	38791	1998 SM ₆₃
1998 SQ ₆₃	14.7	0.15	20000226	159.80543	296.56079	56.49164	2.79672	0.0734508	2.3366171	64	3	1997-2000	0.56	M-v	3	Williams	38791	1998 SQ ₆₃
1998 ST ₆₃	13.6	0.15	20000226	85.63592	201.00145	211.98067	3.17319	0.2062167	2.6060458	94	2	1998-2000	0.59	M-v	4	Williams	38508	1998 ST ₆₃
1998 SY ₆₃	12.8	0.15	20000226	325.97563	145.78635	54.11648	6.97489	0.0938265	2.3150986	80	3	1979-2000	0.58	M-v	3	Williams	38791	1998 SY ₆₃
1998 SL ₆₄	14.4	0.15	20000226	321.41824	97.61088	108.46728	4.52251	0.0681523	2.2874119	70	2	1998-2000	0.67	M-v	4	Williams	38509	1998 SL ₆₄
1998 SM ₆₄	13.4	0.15	20000226	36.43161	280.40778	188.40765	21.57747	0.2781786	3.1585179	40	2	1998-2000	0.64	M-v	3	Williams	37774	1998 SM ₆₄
1998 SN ₆₄	13.7	0.15	20000226	166.85771	132.87336	187.15911	12.20318	0.2020337	2.5556885	64	3	1997-2000	0.76	M-v	3	Williams	38791	1998 SN ₆₄
1998 SZ ₆₄	14.3	0.15	20000226	281.07187	114.48216	128.40204	4.27368	0.0936605	2.2580399	65	4	1991-2000	0.52	M-v	2	Williams	38791	1998 SZ ₆₄
1998 SG ₆₅	14.5	0.15	20000226	158.97766	219.43595	140.03954	2.86496	0.1006791	2.3457411	74	4	1993-2000	0.75	M-v	2	Williams	38791	1998 SG ₆₅
1998 SU ₆₅	14.2	0.15	20000226	335.58248	119.81963	80.88000	4.66752	0.1494622	2.2267012	59	2	1998-2000	0.55	M-v	3	Williams	38791	1998 SU ₆₅
1998 SV ₆₅	13.2	0.15	20000226	302.76676	25.42355	187.21026	12.43284	0.1307847	2.24373128	83	4	1985-2000	0.64	M-v	3	Williams	38063	1998 SV ₆₅
1998 SE ₆₆	13.7	0.15	20000226	202.97917	258.51551	41.37082	11.13935	0.1409092	2.3965162	54	2	1998-2000	0.64	M-v	3	Williams	37774	1998 SE ₆₆
1998 SD ₆₇	14.1	0.15	20000226	174.70104	298.70737	48.58770	5.93874	0.1922633	2.2285791	76	3	1988-2000	0.66	M-v	3	Williams	38791	1998 SD ₆₇
1998 SE ₆₇	14.3	0.15	20000226	179.58806	207.48086	114.50271	4.92021	0.1880881	2.3908118	59	2	1998-2000	0.66	M-v	4	Williams	38791	1998 SE ₆₇
1998 SN ₆₇	14.2	0.15	20000226	49.40530	70.42156	40.65009	15.63828	0.1670818	2.6498974	41	3	1996-2000	0.90	M-v	2	Williams	38063	1998 SN ₆₇
1998 SS ₆₇	14.4	0.15	20000226	201.90486	238.24686	76.95977	5.38149	0.2037684	2.1923148	75	3	1991-2000	0.71	M-v	3	Williams	38791	1998 SS ₆₇
1998 SU ₆₇	13.9	0.15	20000226	351.37078	88.80387	78.62857	6.96950	0.1619414	2.6125185	57	2	1998-2000	0.54	M-v	3	Williams	38509	1998 SU ₆₇
1998 SQ ₇₀	13.6	0.15	20000226	103.66943	239.14353	135.54172	2.33686	0.1172686	2.9579679	77	4	1978-2000	0.72	M-v	4	Williams	38791	1998 SQ ₇₀
1998 SL ₇₁	14.4	0.15	20000226	66.64803	265.09099	155.83708	2.34980	0.1462126	3.0176879	72	3	1996-2000	0.69	M-v	3	Williams	38791	1998 SL ₇₁
1998 SX ₇₁	14.8	0.15	20000226	322.50595	156.80266	41.73595	4.26846	0.0763465	2.3575390	79	4	1987-2000	0.74	M-v	3	Williams	38510	1998 SX ₇₁
1998 SY ₇₂	14.4	0.15	20000226	323.22921	32.86245	176.52648	6.35215	0.0561350	2.2305422	56	3	1990-2000	0.72	M-v	4	Williams	38791	1998 SY ₇₂
1998 SA ₇₃	14.7	0.15	20000226	141.57345	353.42992	33.81750	6.93540	0.1779544	2.2775517	78	3	1991-2000	0.60	M-v	2	Williams	34304	1998 SA ₇₃
1998 SG ₇₃	15.1	0.15	20000226	61.70247	300.59510	160.64124	4.52306	0.2153241	2.6074869	41	5	1960-2000	0.84	M-v	1	Williams	35718	1998 SG ₇₃
1998 SM ₇₃	14.3	0.15	20000226	39.71707	301.66746	165.13037	5.39080	0.1210042	2.7232016	75	3	1989-2000	0.83	M-v	2	Williams	38791	1998 SM ₇₃
1998 SW ₇₃	14.4	0.15	20000226	190.53997	283.88593	35.29226	8.06595	0.1383882	2.3065087	59	5	1977-2000	0.69	M-v	2	Williams	35718	1998 SW ₇₃
1998 SB ₇₄	14.2	0.15	20000226	52.50529	304.72386	130.22651	3.56077	0.1548259	3.0975507	37	2	1998-2000	0.64	M-v	3	Williams	38791	1998 SB ₇₄
1998 SG ₇₄	15.3	0.15	20000226	87.89113	17.03369	62.35933	4.63219	0.1049712	2.3771504	43	3	1996-2000	0.88	M-v	3	Williams	33758	1998 SG ₇₄
1998 SK ₇₄	14.4	0.15	20000226	53.05321	332.08628	119.93245	4.56218	0.1502870	2.7841454	48	3	1993-2000	0.68	M-v	2	Williams	38791	1998 SK ₇₄
1998 SL ₇₄	13.5	0.15	20000226	4.66528	96.48905	37.07272	12.29674	0.0510235	2.7375903	55	3	1996-2000	0.77	M-v	3	Williams	38791	1998 SL ₇₄
1998 SV ₇₄	14.0	0.15	20000226	60.66442	8.89731	54.79364	6.01304	0.1427622	3.1046207	54	2	1998-2000	0.88	M-v	3	Williams	38510	1998 SV ₇₄
1998 SK ₇₅	14.0	0.15	20000226	325.73039	57.27168	131.97773	4.96427	0.0741002	2.4573482	100	3	1996-2000	0.62	M-v	3	Williams	38792	1998 SK ₇₅
1998 SW ₇₅	14.7	0.15	20000226	288.63215	101.20526	134.47503	3.09512	0.1296912	2.2062279	77	5	1978-2000	0.56	M-v	1	Williams	38792	1998 SW ₇₅
1998 SH ₇₉	14.1	0.15	20000226	167.43008	254.80191	76.60781	4.73190	0.1515748	2.2886277	102	3	1991-2000	0.56	M-v	2	Williams	38792	1998 SH ₇₉
1998 SZ ₇₉	15.2	0.15	20000226	61.45021	137.93064	314.93322	2.11374	0.1270821	2.3787225	53	3	1995-2000	0.58	M-v	3	Williams	35634	1998 SZ ₇₉
1998 SC ₁₀₃	15.4	0.15	20000226	88.15693	38.83089	34.25245	3.43851	0.0584359	2.2808989	38	2	1998-2000	0.67	M-v	4	Williams	38510	1998 SC ₁₀₃
1998 SH ₁₀₅	15.1	0.15	20000226	335.56291	53.63306	137.72195	4.79080	0.0701315	2.1678719	62	2	1998-2000	0.76	M-v	4	Williams	38792	1998 SH ₁₀₅
1998 SV ₁₀₅	14.3	0.15	20000226	43.72987	12.42600	104.15373	2.24610	0.1352407	2.4151305	45	4	1993-2000	0.71	M-v	2	Williams	38063	1998 SV ₁₀₅
1998 SM ₁₀₇	13.7	0.15	20000226	158.14887	356.00960	333.78521	2.67134	0.0966857	2.5722279	72	3	1994-2000	0.55	M-v	3	Williams	38792	1998 SM ₁₀₇
1998 SR ₁₀₇	14.0	0.15	20000226	344.10022	187.67530	351.51237	4.00421	0.0878446	2.2753515	80	2	1998-2000	0.52	M-v	3	Williams	38792	1998 SR ₁₀₇
1998 SA ₁₀₉	14.2	0.15	20000226	70.88025	149.53072	313.10493	3.65439	0.1146153	2.2923027	38	3	1993-2000	0.57	M-v	2	Williams	38792	1998 SA ₁₀₉
1998 SJ ₁₀₉	14.2	0.15	20000226	69.43553	226.52014	211.56655	14.67591	0.1853748	2.6857723	50	3	1996-2000	0.75	M-v	2	Williams	38063	1998 SJ ₁₀₉
1998 SA ₁₁₀	14.3	0.15	20000226	185.32366	339.45047	343.17240	6.94321	0.1341294	2.3083220	47	2	1998-2000	0.64	M-v	4	Williams	38511	1998 SA ₁₁₀
1998 SD ₁₁₀	14.2	0.15	20000226	328.67633	329.97043	224.87285	8.34496	0.0361084	2.2754620	66	3	1997-2000	0.58	M-v	3	Williams	38792	1998 SD ₁₁₀

1998 SQ ₁₁₀	14.8	0.15	20000226	232.31082	286.68620	353.45250	5.50140	0.1671037	2.1785580	34	2	1998-2000	0.61	M-v	4	Williams	38792	1998 SQ ₁₁₀
1998 SE ₁₁₁	15.2	0.15	20000226	107.22845	198.47616	219.21167	1.79313	0.1942936	2.3775095	53	3	1987-2000	0.58	M-v	3	Williams	35719	1998 SE ₁₁₁
1998 SR ₁₁₁	13.3	0.15	20000226	18.36505	104.09970	16.98245	13.42909	0.1007068	2.6743016	70	3	1996-2000	0.58	M-v	2	Williams	38792	1998 SR ₁₁₁
1998 SC ₁₁₂	14.4	0.15	20000226	315.49785	153.82392	37.76859	7.05651	0.0680651	2.4100699	50	2	1998-2000	0.81	M-v	4	Williams	37778	1998 SC ₁₁₂
1998 SD ₁₁₂	15.1	0.15	20000226	137.59360	239.94418	129.39712	2.90388	0.1855810	2.3980129	49	3	1997-2000	0.64	M-v	3	Williams	35634	1998 SD ₁₁₂
1998 SS ₁₁₃	15.9	0.15	20000226	138.27747	218.01617	154.68271	5.18101	0.2428755	2.3547225	34	4	1987-2000	0.74	M-v	3	Williams	34929	1998 SS ₁₁₃
1998 SR ₁₁₄	15.2	0.15	20000226	219.27812	170.16821	117.74447	3.00808	0.1348485	2.2513783	52	2	1998-2000	0.57	M-v	4	Williams	38792	1998 SR ₁₁₄
1998 SJ ₁₁₅	13.8	0.15	20000226	65.17313	103.35525	314.80211	1.00998	0.1023130	2.9455026	71	2	1998-2000	0.64	M-v	4	Williams	38792	1998 SJ ₁₁₅
1998 SM ₁₁₅	13.5	0.15	20000226	40.06386	110.77382	335.78571	0.39277	0.1871108	3.1395423	144	4	1976-2000	0.58	M-v	1	Williams	38792	1998 SM ₁₁₅
1998 SX ₁₁₅	14.5	0.15	20000226	1.70052	162.44464	343.10225	2.62473	0.0475453	2.5229515	98	2	1998-2000	0.50	M-v	4	Williams	38511	1998 SX ₁₁₅
1998 SY ₁₁₅	13.9	0.15	20000226	235.39962	242.29828	10.39675	13.44789	0.1468579	2.5281558	49	4	1990-2000	0.61	M-v	3	Williams	38792	1998 SY ₁₁₅
1998 SH ₁₁₆	13.5	0.15	20000226	90.24447	156.44233	241.65526	5.07678	0.0625341	2.7826715	82	3	1992-2000	0.54	M-v	2	Williams	38792	1998 SH ₁₁₆
1998 SM ₁₁₆	13.1	0.15	20000226	70.32015	193.70557	229.59607	5.42393	0.1046386	2.7974482	117	2	1998-2000	0.47	M-v	3	Williams	38792	1998 SM ₁₁₆
1998 SR ₁₁₆	13.6	0.15	20000226	37.88450	180.72952	293.18997	3.60368	0.0960455	2.5665174	81	3	1993-2000	0.62	M-v	2	Williams	38792	1998 SR ₁₁₆
1998 SE ₁₁₇	13.5	0.15	20000226	20.41279	276.66052	232.03743	7.05498	0.1568235	2.3984552	56	3	1985-2000	0.59	M-v	2	Williams	37780	1998 SE ₁₁₇
1998 SR ₁₁₇	13.8	0.15	20000226	108.07141	16.88305	5.22548	10.73126	0.0524791	2.7460523	53	3	1996-2000	0.70	M-v	3	Williams	38792	1998 SR ₁₁₇
1998 SS ₁₁₇	14.1	0.15	20000226	252.82150	307.03865	303.86066	2.64950	0.1581549	2.3313748	67	3	1991-2000	0.67	M-v	2	Williams	38792	1998 SS ₁₁₇
1998 SA ₁₁₈	13.4	0.15	20000226	70.02083	66.24745	4.86792	8.66480	0.1055701	2.6900888	46	2	1998-2000	0.44	M-v	3	Williams	38512	1998 SA ₁₁₈
1998 SD ₁₁₈	14.4	0.15	20000226	141.91477	92.03209	262.33712	1.60235	0.1603390	2.5233668	70	4	1988-2000	0.56	M-v	3	Williams	38512	1998 SD ₁₁₈
1998 SK ₁₁₈	13.8	0.15	20000226	246.21187	250.25703	10.78485	6.98849	0.1025560	2.3413020	44	3	1991-2000	0.67	M-v	3	Williams	38792	1998 SK ₁₁₈
1998 SR ₁₁₈	14.4	0.15	20000226	113.38607	199.47783	189.73630	2.36460	0.0564252	2.5436404	71	4	1980-2000	0.64	M-v	4	Williams	38792	1998 SR ₁₁₈
1998 SR ₁₁₉	14.7	0.15	20000226	86.28788	235.47949	174.50500	8.16775	0.2284642	2.7899277	50	4	1993-2000	0.64	M-v	2	Williams	35719	1998 SR ₁₁₉
1998 ST ₁₁₉	14.0	0.15	20000226	51.69944	41.35106	56.72136	4.83513	0.1290737	2.5979213	71	3	1997-2000	0.65	M-v	2	Williams	38792	1998 ST ₁₁₉
1998 SB ₁₂₁	14.2	0.15	20000226	38.80019	284.75403	177.58654	6.46690	0.1071228	2.6951652	43	2	1998-2000	0.58	M-v	3	Williams	38512	1998 SB ₁₂₁
1998 SF ₁₂₁	14.1	0.15	20000226	358.44200	231.65393	297.37706	4.23237	0.0772112	2.3153934	50	2	1998-2000	0.59	M-v	3	Williams	38513	1998 SF ₁₂₁
1998 SN ₁₂₁	14.1	0.15	20000226	74.28478	113.60178	289.44709	3.68412	0.1498972	3.1390927	63	2	1998-2000	0.65	M-v	4	Williams	38792	1998 SN ₁₂₁
1998 SC ₁₂₂	14.4	0.15	20000226	97.09597	65.72383	351.01720	4.34347	0.1542841	2.5322457	73	6	1954-2000	0.65	M-v	2	Williams	38792	1998 SC ₁₂₂
1998 SJ ₁₂₂	13.7	0.15	20000226	74.56940	181.95210	217.06723	5.69335	0.1375519	3.1671534	70	2	1998-2000	0.63	M-v	3	Williams	38792	1998 SJ ₁₂₂
1998 SW ₁₂₂	15.5	0.15	20000226	124.38884	114.73821	277.46817	0.70738	0.2159486	2.4181902	48	3	1987-2000	0.65	M-v	3	Williams	35719	1998 SW ₁₂₂
1998 SY ₁₂₂	15.4	0.15	20000226	125.56851	19.65903	13.41322	6.82920	0.1159706	2.3663798	44	3	1971-2000	0.67	M-v	3	Williams	33759	1998 SY ₁₂₂
1998 SD ₁₂₃	14.8	0.15	20000226	122.17752	36.26699	13.26927	4.62300	0.1209814	2.2641882	51	4	1981-2000	0.64	M-v	2	Williams	33569	1998 SD ₁₂₃
1998 SD ₁₂₄	14.7	0.15	20000226	269.31472	68.40172	172.11434	4.85241	0.1266277	2.3085050	48	2	1998-2000	0.72	M-v	4	Williams	38792	1998 SD ₁₂₄
1998 SL ₁₂₄	15.0	0.15	20000226	318.57205	33.31183	176.33951	5.86363	0.1192815	2.2075028	46	3	1997-2000	0.63	M-v	4	Williams	38513	1998 SL ₁₂₄
1998 SR ₁₂₄	14.6	0.15	20000226	16.40502	336.81124	153.27789	1.83946	0.0058425	2.4795977	97	4	1992-2000	0.68	M-v	2	Williams	38792	1998 SR ₁₂₄
1998 SU ₁₂₄	13.7	0.15	20000226	59.50604	285.03259	141.65763	2.80625	0.0478193	2.8327070	76	3	1996-2000	0.59	M-v	3	Williams	38792	1998 SU ₁₂₄
1998 SK ₁₂₅	14.4	0.15	20000226	167.10560	179.51313	155.14301	6.37237	0.1259069	2.3992614	47	3	1979-2000	0.68	M-v	4	Williams	38792	1998 SK ₁₂₅
1998 SN ₁₂₅	14.3	0.15	20000226	23.52694	70.55289	54.84037	6.62728	0.0615699	2.5081734	37	2	1998-2000	0.74	M-v	3	Williams	38513	1998 SN ₁₂₅
1998 SV ₁₂₆	14.2	0.15	20000226	62.18005	318.18938	104.06694	5.90729	0.0434186	2.8065418	60	3	1996-2000	0.72	M-v	3	Williams	38792	1998 SV ₁₂₆
1998 SU ₁₂₇	14.3	0.15	20000226	346.02828	330.91552	174.07393	14.14666	0.1060361	2.8851980	35	2	1998-2000	0.80	M-v	4	Williams	38513	1998 SU ₁₂₇
1998 SB ₁₂₉	13.8	0.15	20000226	259.13486	76.97999	166.61452	6.55935	0.1006066	2.4342683	69	2	1998-2000	0.64	M-v	4	Williams	38793	1998 SB ₁₂₉
1998 SL ₁₂₉	15.7	0.15	20000226	145.57369	195.51588	173.77748	2.54132	0.1763623	2.3433661	70	4	1993-2000	0.57	M-v	2	Williams	35719	1998 SL ₁₂₉
1998 SO ₁₂₉	13.3	0.15	20000226	98.00764	336.38855	45.27378	2.60914	0.0554219	2.9377389	99	3	1996-2000	0.58	M-v	3	Williams	38793	1998 SO ₁₂₉
1998 SW ₁₂₉	13.7	0.15	20000226	35.12802	94.68796	20.70877	13.13723	0.1428449	2.6762739	52	3	1996-2000	0.52	M-v	2	Williams	38793	1998 SW ₁₂₉
1998 SC ₁₃₀	15.4	0.15	20000226	153.43534	353.06121	12.31620	4.08884	0.1966956	2.2846373	64	3	1991-2000	0.63	M-v	3	Williams	35719	1998 SC ₁₃₀
1998 SS ₁₃₀	14.3	0.15	20000226	275.15051	262.10926	344.35087	2.55095	0.1306713	2.2052051	84	3	1991-2000	0.46	M-v	3	Williams	38793	1998 SS ₁₃₀
1998 ST ₁₃₀	13.8	0.15	20000226	328.76294	322.04693	204.02693	12.69184	0.0209923	2.7065182	60	2	1998-2000	0.77	M-v	4	Williams	38514	1998 ST ₁₃₀
1998 SB ₁₃₁	13.7	0.15	20000226	122.65766	79.88206	288.42230	1.72568	0.0539148	2.7322318	94	2	1998-2000	0.64	M-v	3	Williams	38793	1998 SB ₁₃₁
1998 SN ₁₃₁	13.6	0.15	20000226	40.82159	119.32569	340.52884	6.90594	0.0773889	2.7608431	111	2	1998-2000	0.48	M-v	3	Williams	38514	1998 SN ₁₃₁
1998 ST ₁₃₁	13.9	0.15	20000226	351.79169	257.05539	292.25247	4.92119	0.1234488	2.1829619	49	4	1991-2000	0.67	M-v	2	Williams	38793	1998 ST ₁₃₁
1998 SC ₁₃₂	15.4	0.15	20000226	218.48704	347.74891	304.58407	4.04018	0.1963055	2.2191634	46	2	1998-2000	0.67	M-v	4	Williams	38514	1998 SC ₁₃₂
1998 SE ₁₃₂	12.4	0.15	20000226	178.68717	80.84946	219.94175	12.46227	0.0697975	2.8484323	104	3	1992-2000	0.61	M-v	2	Williams	38793	1998 SE ₁₃₂
1998 SG ₁₃₂	13.9	0.15	20000226	288.78430	255.52632	338.89764	5.42431	0.1294444	2.2472290	138	4	1990-2000	0.51	M-v	2	Williams	38793	1998 SG ₁₃₂
1998 SJ ₁₃₂	14.3	0.15	20000226	44.91801	138.35905	316.60693	4.44639	0.0483882	2.7336844	88	3	1993-2000	0.67	M-v	2	Williams	38793	1998 SJ ₁₃₂

1998 SK ₁₃₂	13.8	0.15	20000226	344.02271	215.30338	315.74199	4.24323	0.0950537	2.5237578	94	3	1992-2000	0.64	M-v	3	Williams	38793	1998 SK ₁₃₂
1998 SS ₁₃₂	14.7	0.15	20000226	86.67035	84.34206	353.91972	7.36284	0.0835639	2.3961043	56	3	1994-2000	0.73	M-v	3	Williams	33362	1998 SS ₁₃₂
1998 ST ₁₃₂	13.8	0.15	20000226	39.81838	146.06424	307.37202	3.36043	0.0231799	2.7910757	94	3	1989-2000	0.62	M-v	3	Williams	38793	1998 ST ₁₃₂
1998 SU ₁₃₂	14.9	0.15	20000226	123.93713	151.17089	235.22098	4.45499	0.1024881	2.4876976	68	2	1998-2000	0.63	M-v	3	Williams	38514	1998 SU ₁₃₂
1998 SX ₁₃₂	14.1	0.15	20000226	274.20246	261.45491	330.42529	3.11449	0.0267899	2.5179803	110	3	1996-2000	0.58	M-v	2	Williams	38793	1998 SX ₁₃₂
1998 SG ₁₃₃	14.3	0.15	20000226	35.35951	263.24813	208.14536	13.07606	0.0473360	2.6045999	60	3	1977-2000	0.72	M-v	3	Williams	38793	1998 SG ₁₃₃
1998 SN ₁₃₃	14.2	0.15	20000226	49.65416	231.08947	212.21863	4.60342	0.2145092	3.1220086	44	2	1998-2000	0.72	M-v	3	Williams	38515	1998 SN ₁₃₃
1998 SS ₁₃₃	14.3	0.15	20000226	52.20594	79.23200	13.16430	3.64671	0.0682986	2.6542030	65	2	1998-2000	0.71	M-v	3	Williams	38515	1998 SS ₁₃₃
1998 SE ₁₃₄	14.3	0.15	20000226	128.73189	168.53395	196.71555	4.14311	0.1173764	2.6442452	65	2	1998-2000	0.61	M-v	4	Williams	38515	1998 SE ₁₃₄
1998 SN ₁₃₄	14.1	0.15	20000226	112.99547	12.01236	30.01142	5.05633	0.0807456	2.4325341	70	3	1960-2000	0.59	M-v	3	Williams	38793	1998 SN ₁₃₄
1998 SW ₁₃₄	14.4	0.15	20000226	108.84311	199.50549	182.43886	7.70492	0.0794776	2.7450017	38	2	1998-2000	0.69	M-v	4	Williams	38515	1998 SW ₁₃₄
1998 SN ₁₃₅	13.8	0.15	20000226	120.79468	356.39410	40.49584	7.74048	0.0538339	2.3742536	62	4	1987-2000	0.54	M-v	2	Williams	38793	1998 SN ₁₃₅
1998 SB ₁₃₆	15.1	0.15	20000226	156.03643	208.95386	137.40464	3.60744	0.1825133	2.4002940	42	4	1993-2000	0.67	M-v	2	Williams	35720	1998 SB ₁₃₆
1998 SV ₁₃₆	14.3	0.15	20000226	122.08286	309.98215	60.11730	8.18836	0.0612646	2.6551787	46	2	1998-2000	0.72	M-v	4	Williams	38516	1998 SV ₁₃₆
1998 SX ₁₃₇	13.5	0.15	20000226	41.20104	17.31963	68.93331	3.18167	0.0206865	2.8633053	78	3	1993-2000	0.63	M-v	2	Williams	38793	1998 SX ₁₃₇
1998 SC ₁₃₈	14.2	0.15	20000226	82.85817	225.65406	178.06162	1.96264	0.0655945	2.8998767	68	4	1971-2000	0.67	M-v	2	Williams	38793	1998 SC ₁₃₈
1998 SN ₁₃₈	13.9	0.15	20000226	25.70847	98.41962	14.67436	4.21705	0.2046749	3.1061048	74	3	1992-2000	0.63	M-v	2	Williams	38793	1998 SN ₁₃₈
1998 SY ₁₃₈	14.6	0.15	20000226	274.72124	229.96991	8.98637	7.28092	0.0782200	2.3919972	59	2	1998-2000	0.80	M-v	4	Williams	38793	1998 SY ₁₃₈
1998 SB ₁₃₉	13.7	0.15	20000226	120.78772	116.11245	252.19010	3.33611	0.0861829	2.7846056	86	3	1996-2000	0.55	M-v	3	Williams	38793	1998 SB ₁₃₉
1998 SC ₁₃₉	14.8	0.15	20000226	225.94521	48.57685	236.09438	4.16228	0.1216700	2.3216590	77	2	1998-2000	0.67	M-v	4	Williams	38793	1998 SC ₁₃₉
1998 SJ ₁₃₉	15.1	0.15	20000226	118.48398	70.82260	312.29532	3.40492	0.2751230	2.6067500	43	4	1960-2000	0.62	M-v	3	Williams	35720	1998 SJ ₁₃₉
1998 SK ₁₃₉	13.3	0.15	20000226	13.84502	243.75637	220.84089	14.55065	0.0347806	3.1666712	49	4	1984-2000	0.76	M-v	3	Williams	38516	1998 SK ₁₃₉
1998 SB ₁₄₀	14.3	0.15	20000226	261.92009	264.94095	345.12701	6.06446	0.0941869	2.3984047	49	2	1998-2000	0.51	M-v	4	Williams	38793	1998 SB ₁₄₀
1998 SE ₁₄₀	14.2	0.15	20000226	156.98823	344.75499	359.30096	9.31438	0.1095060	2.5458347	50	4	1992-2000	0.73	M-v	4	Williams	38793	1998 SE ₁₄₀
1998 SU ₁₄₀	15.6	0.15	20000226	146.53666	162.28895	212.59377	4.10907	0.1163845	2.3295331	38	3	1973-2000	0.91	M-v	4	Williams	34305	1998 SU ₁₄₀
1998 SO ₁₄₂	15.4	0.15	20000226	162.70860	286.24394	56.71611	7.11099	0.1410892	2.4122903	40	3	1997-2000	0.76	M-v	3	Williams	33760	1998 SO ₁₄₂
1998 ST ₁₄₂	14.9	0.15	20000226	206.91695	318.19965	356.65292	1.34864	0.1319709	2.2087072	93	4	1991-2000	0.56	M-v	2	Williams	38793	1998 ST ₁₄₂
1998 SF ₁₄₃	14.8	0.15	20000226	82.23455	213.50689	198.04781	5.74275	0.0585263	2.7838113	37	3	1996-2000	0.63	M-v	4	Williams	38517	1998 SF ₁₄₃
1998 SP ₁₄₃	14.0	0.15	20000226	13.02791	99.49227	23.67529	3.87939	0.0368974	2.7597084	55	3	1993-2000	0.73	M-v	3	Williams	38793	1998 SP ₁₄₃
1998 SY ₁₄₃	15.1	0.15	20000226	199.47728	330.65102	349.03270	2.30591	0.1464282	2.2212758	72	3	1997-2000	0.51	M-v	3	Williams	38794	1998 SY ₁₄₃
1998 SD ₁₄₄	14.1	0.15	20000226	37.96637	279.27309	199.38572	21.75458	0.0795104	2.5442508	42	3	1990-2000	0.81	M-v	3	Williams	38794	1998 SD ₁₄₄
1998 SE ₁₄₄	13.2	0.15	20000226	66.96896	58.43704	25.10975	8.83905	0.2149672	2.7931632	52	3	1984-2000	0.68	M-v	2	Williams	38064	1998 SE ₁₄₄
1998 SP ₁₄₄	13.8	0.15	20000226	111.87810	177.32620	206.31223	4.72764	0.0934964	2.7374487	54	2	1998-2000	0.56	M-v	4	Williams	38517	1998 SP ₁₄₄
1998 SQ ₁₄₄	13.5	0.15	20000226	95.26562	158.74298	236.95369	0.68624	0.0825527	2.8569923	86	3	1993-2000	0.65	M-v	4	Williams	38794	1998 SQ ₁₄₄
1998 SA ₁₄₅	13.4	0.15	20000226	115.45235	322.86437	21.48368	15.19124	0.2239320	3.1647117	61	2	1998-2000	0.73	M-v	3	Williams	38794	1998 SA ₁₄₅
1998 SM ₁₄₅	13.7	0.15	20000226	19.62876	121.66436	35.36854	6.92406	0.1284506	2.3376643	52	2	1998-2000	0.66	M-v	3	Williams	38517	1998 SM ₁₄₅
1998 SW ₁₄₅	14.3	0.15	20000226	22.46150	40.14229	112.45731	1.78036	0.1439021	2.3886575	58	4	1985-2000	0.74	M-v	2	Williams	38794	1998 SW ₁₄₅
1998 SZ ₁₄₅	14.5	0.15	20000226	158.58221	162.49664	194.39459	6.90161	0.2087564	2.3225780	45	2	1998-2000	0.67	M-v	3	Williams	38518	1998 SZ ₁₄₅
1998 SK ₁₄₆	12.8	0.15	20000226	59.35107	244.71809	185.61699	5.94773	0.1588985	3.1105348	84	3	1984-2000	0.56	M-v	2	Williams	38518	1998 SK ₁₄₆
1998 ST ₁₄₆	14.3	0.15	20000226	179.02280	286.05029	61.86614	2.31271	0.1644781	2.2002823	64	3	1997-2000	0.70	M-v	3	Williams	38794	1998 ST ₁₄₆
1998 SE ₁₄₇	13.8	0.15	20000226	49.38945	9.34935	73.51683	1.40955	0.1295341	3.0856150	84	3	1989-2000	0.71	M-v	2	Williams	38794	1998 SE ₁₄₇
1998 SU ₁₄₇	13.8	0.15	20000226	169.68247	256.51765	71.35741	3.41499	0.0480958	2.6666077	56	3	1994-2000	0.62	M-v	4	Williams	38794	1998 SU ₁₄₇
1998 SA ₁₄₈	15.1	0.15	20000226	89.15505	255.69526	173.21297	4.07373	0.1492883	2.5831112	46	5	1971-2000	0.72	M-v	2	Williams	35720	1998 SA ₁₄₈
1998 SS ₁₅₆	16.0	0.15	20000226	210.83136	43.37277	280.30300	1.82723	0.0787147	2.1010957	34	3	1997-2000	0.75	M-v	3	Williams	34025	1998 SS ₁₅₆
1998 SW ₁₅₆	14.4	0.15	20000226	161.51746	350.58835	336.92040	6.30449	0.1457497	2.5732860	45	2	1998-2000	0.72	M-v	4	Williams	38794	1998 SW ₁₅₆
1998 SE ₁₅₇	15.5	0.15	20000226	164.59139	303.55977	32.83163	1.62062	0.1212233	2.4135683	35	5	1993-2000	0.76	M-v	2	Williams	35720	1998 SE ₁₅₇
1998 SD ₁₅₉	13.6	0.15	20000226	43.88585	130.33880	323.23660	3.27621	0.0539256	2.7318333	97	2	1998-2000	0.53	M-v	3	Williams	38794	1998 SD ₁₅₉
1998 SS ₁₆₁	14.9	0.15	20000226	103.96832	276.16849	145.09373	2.50700	0.2023470	2.4269812	54	3	1994-2000	0.76	M-v	3	Williams	34305	1998 SS ₁₆₁
1998 SX ₁₆₁	14.6	0.15	20000226	116.87288	243.31554	146.68484	3.99133	0.1721663	2.5224453	52	2	1998-2000	0.70	M-v	4	Williams	38518	1998 SX ₁₆₁
1998 SA ₁₆₃	13.9	0.15	20000226	330.27758	336.53437	198.15923	5.74853	0.0957203	2.6731517	70	3	1996-2000	0.64	M-v	3	Williams	38794	1998 SA ₁₆₃
1998 SU ₁₆₃	13.3	0.15	20000226	221.30795	223.83766	51.60961	9.65659	0.1467680	2.5539123	57	3	1997-2000	0.72	M-v	3	Williams	38794	1998 SU ₁₆₃
1998 SC ₁₆₄	14.2	0.15	20000226	226.78687	138.86899	149.12220	4.61567	0.1498182	2.3240493	64	2	1998-2000	0.55	M-v	4	Williams	38519	1998 SC ₁₆₄
1998 SK ₁₆₄	12.9	0.15	20000226	329.12135	83.30185	104.07838	7.54794	0.1447484	2.6636324	110	3	1994-2000	0.61	M-v	2	Williams	38794	1998 SK ₁₆₄

1998 TA	13.5	0.15	20000226	256.67680	258.09648	0.31862	7.34518	0.0894919	2.3149708	145	2	1998-2000	0.60	M-v	3	Williams	38794	1998 TA
1998 TD	14.9	0.15	20000226	213.02208	300.78217	347.70675	4.67728	0.1841893	2.2868777	42	2	1998-2000	0.65	M-v	4	Williams	38519	1998 TD
1998 TF	13.3	0.15	20000226	20.59799	122.79193	16.90509	7.90234	0.1776755	2.7168145	95	2	1998-2000	0.53	M-v	3	Williams	38794	1998 TF
1998 TZ	16.0	0.15	20000226	269.44988	215.77562	43.75834	1.86408	0.1738611	2.1615189	24	3	1995-2000	0.47	M-v	3	Williams	38520	1998 TZ
1998 TU ₁	14.0	0.15	20000226	119.52786	161.33842	216.45227	13.07639	0.1820681	2.5832600	65	3	1994-2000	0.65	M-v	2	Williams	38794	1998 TU ₁
1998 TZ ₁	13.8	0.15	20000226	135.29842	207.10833	171.68391	12.74041	0.0133505	2.5678271	72	5	1973-2000	0.65	M-v	2	Williams	38794	1998 TZ ₁
1998 TC ₂	14.2	0.15	20000226	29.08655	105.83951	349.54927	4.47121	0.1223810	3.2083042	40	2	1998-2000	0.62	M-v	4	Williams	38794	1998 TC ₂
1998 TP ₂	13.3	0.15	20000226	126.52770	82.04975	283.65754	1.76882	0.2339290	2.6868985	90	3	1982-2000	0.57	M-v	2	Williams	38794	1998 TP ₂
1998 TX ₂	14.1	0.15	20000226	346.48597	147.21332	6.76585	4.20747	0.1454772	3.0639430	48	4	1960-2000	0.57	M-v	2	Williams	38794	1998 TX ₂
1998 TD ₅	14.9	0.15	20000226	110.99779	333.88866	80.88270	4.33572	0.1271068	2.4629384	43	4	1992-2000	0.60	M-v	4	Williams	35721	1998 TD ₅
1998 TK ₅	14.0	0.15	20000226	69.98773	45.78071	59.25037	7.23812	0.0834850	2.4113146	43	3	1977-2000	0.61	M-v	2	Williams	38065	1998 TK ₅
1998 TN ₅	12.4	0.15	20000226	328.01052	315.68236	212.98102	13.17755	0.0937463	3.1177988	84	2	1998-2000	0.53	M-v	3	Williams	38794	1998 TN ₅
1998 TT ₅	12.6	0.15	20000226	3.03133	82.51424	62.30868	11.93123	0.2066190	3.1812698	57	3	1995-2000	0.61	M-v	2	Williams	38065	1998 TT ₅
1998 TA ₆	13.3	0.15	20000226	30.51801	308.63672	183.92888	12.68115	0.1156383	2.6619614	51	3	1997-2000	0.50	M-v	2	Williams	38794	1998 TA ₆
1998 TC ₆	14.8	0.15	20000226	132.08279	235.92678	160.36445	2.99619	0.0348721	2.3987985	59	3	1990-2000	0.57	M-v	4	Williams	38794	1998 TC ₆
1998 TQ ₆	13.8	0.15	20000226	170.37010	242.43757	113.15274	7.75299	0.1424878	2.3492120	76	2	1998-2000	0.48	M-v	3	Williams	38794	1998 TQ ₆
1998 TS ₆	15.6	0.15	20000226	176.62113	1.08030	25.92593	22.33858	0.0699020	1.9159327	42	3	1997-2000	0.53	M-v	3	Williams	33570	1998 TS ₆
1998 TV ₆	12.6	0.15	20000226	267.36310	3.04461	214.82109	15.59993	0.0461717	3.1854310	88	3	1981-2000	0.66	M-v	3	Williams	38794	1998 TV ₆
1998 TH ₉	15.5	0.15	20000226	143.29730	168.52739	209.10822	1.61528	0.1535451	2.3658888	43	3	1995-2000	0.59	M-v	4	Williams	35721	1998 TH ₉
1998 TC ₁₀	13.5	0.15	20000226	55.39936	9.07741	62.43673	1.53735	0.1434835	3.2355623	70	2	1998-2000	0.57	M-v	3	Williams	38794	1998 TC ₁₀
1998 TJ ₁₀	14.1	0.15	20000226	64.79014	18.85990	50.55476	2.06983	0.1550835	3.0650898	61	3	1982-2000	0.57	M-v	3	Williams	38520	1998 TJ ₁₀
1998 TH ₁₆	14.3	0.15	20000226	182.72177	255.72423	93.82932	5.14849	0.0490806	2.3136170	49	2	1998-2000	0.63	M-v	4	Williams	38521	1998 TH ₁₆
1998 TK ₁₆	14.3	0.15	20000226	86.22027	302.34172	148.24315	7.08976	0.0815658	2.3703028	27	3	1979-2000	0.72	M-v	3	Williams	33571	1998 TK ₁₆
1998 TR ₁₇	15.1	0.15	20000226	151.80536	169.49094	182.04724	1.32458	0.1132088	2.6225004	47	4	1993-2000	0.79	M-v	2	Williams	38794	1998 TR ₁₇
1998 TZ ₁₇	12.6	0.15	20000226	342.60791	176.92251	342.93551	13.80083	0.0976123	2.6647687	46	2	1998-2000	0.69	M-v	3	Williams	38521	1998 TZ ₁₇
1998 TD ₂₇	13.4	0.15	20000226	253.98818	211.42005	39.71838	6.24466	0.0457388	2.7620393	82	3	1995-2000	0.51	M-v	3	Williams	38795	1998 TD ₂₇
1998 TR ₂₈	14.2	0.15	20000226	156.77708	93.47749	248.52959	1.57460	0.0849005	2.6669183	43	2	1998-2000	0.59	M-v	5	Williams	38521	1998 TR ₂₈
1998 TG ₃₀	15.8	0.15	20000226	146.42721	352.38385	31.04957	1.60699	0.2065124	2.3054219	66	4	1991-2000	0.60	M-v	3	Williams	36085	1998 TG ₃₀
1998 TL ₃₀	14.7	0.15	20000226	108.45859	179.00273	215.00121	2.01448	0.1858898	2.7246603	37	3	1993-2000	0.64	M-v	4	Williams	35721	1998 TL ₃₀
1998 TN ₃₀	15.0	0.15	20000226	164.37248	105.57295	236.82079	0.41906	0.2002550	2.4250431	49	4	1979-2000	0.65	M-v	2	Williams	38795	1998 TN ₃₀
1998 TT ₃₀	14.1	0.15	20000226	253.43858	259.13146	17.15465	5.28382	0.1600533	2.2143190	65	3	1997-2000	0.42	M-v	3	Williams	38795	1998 TT ₃₀
1998 TV ₃₀	14.2	0.15	20000226	173.72567	345.91116	345.04284	2.13047	0.1374131	2.5488927	82	3	1986-2000	0.66	M-v	4	Marsden	38795	1998 TV ₃₀
1998 TQ ₃₁	14.7	0.15	20000226	253.21415	61.34638	200.11708	7.10993	0.0985087	2.2839509	34	2	1998-2000	0.63	M-v	4	Williams	38795	1998 TQ ₃₁
1998 TT ₃₁	13.9	0.15	20000226	87.17836	327.43958	67.21814	10.63540	0.1306553	3.0375855	27	3	1996-2000	0.49	M-v	3	Williams	35721	1998 TT ₃₁
1998 TZ ₃₁	14.6	0.15	20000226	97.40303	111.16576	286.98214	3.79687	0.1842912	2.8409238	23	3	1995-2000	0.63	M-v	4	Williams	33306	1998 TZ ₃₁
1998 TA ₃₂	13.7	0.15	20000226	219.89743	2.28553	279.77549	2.87470	0.0557176	2.6169868	70	2	1998-2000	0.65	M-v	4	Williams	38795	1998 TA ₃₂
1998 TD ₃₂	14.5	0.15	20000226	31.85302	171.38730	333.07656	4.21606	0.0853905	2.3697668	41	3	1978-2000	0.66	M-v	3	Williams	38795	1998 TD ₃₂
1998 TG ₃₂	14.8	0.15	20000226	138.02264	80.81047	323.99170	2.10303	0.0698278	2.2046480	31	4	1985-2000	0.53	M-v	2	Williams	35721	1998 TG ₃₂
1998 TJ ₃₂	14.1	0.15	20000226	82.95957	163.80229	236.10101	4.48771	0.1629976	3.1102353	37	2	1998-2000	0.65	M-v	4	Williams	38521	1998 TJ ₃₂
1998 TM ₃₂	14.4	0.15	20000226	226.95138	342.90757	297.94761	1.30726	0.1133770	2.4117661	77	2	1998-2000	0.59	M-v	4	Williams	38795	1998 TM ₃₂
1998 TW ₃₂	13.5	0.15	20000226	130.96717	168.80430	206.23773	14.89475	0.0861832	2.5802620	51	3	1994-2000	0.60	M-v	3	Williams	38795	1998 TW ₃₂
1998 TD ₃₃	15.6	0.15	20000226	181.07738	153.83749	196.97487	2.66617	0.1948831	2.1638778	49	3	1997-2000	0.61	M-v	3	Williams	35721	1998 TD ₃₃
1998 TN ₃₃	13.5	0.15	20000226	109.61767	293.82060	89.96869	3.16656	0.0718758	2.8896297	65	3	1995-2000	0.52	M-v	3	Williams	38795	1998 TN ₃₃
1998 TD ₃₄	13.4	0.15	20000226	101.10227	190.47619	195.78193	10.05869	0.1049917	2.9989373	53	3	1996-2000	0.62	M-v	3	Williams	38795	1998 TD ₃₄
1998 TE ₃₄	15.1	0.15	20000226	237.44162	149.27354	131.55093	3.72701	0.1848480	2.2448222	48	2	1998-2000	0.56	M-v	4	Williams	38522	1998 TE ₃₄
1998 TG ₃₄	14.4	0.15	20000226	205.42348	122.62715	183.62022	6.61358	0.1928388	2.3027021	49	3	1997-2000	0.47	M-v	3	Williams	38795	1998 TG ₃₄
1998 TJ ₃₄	13.5	0.15	20000226	96.13893	212.83202	173.38710	5.96015	0.1618541	3.0931921	70	2	1998-2000	0.60	M-v	4	Williams	38795	1998 TJ ₃₄
1998 TR ₃₄	14.4	0.15	20000226	65.86438	26.60229	73.33433	5.49018	0.1691401	2.5977252	39	4	1990-2000	0.57	M-v	1	Williams	33761	1998 TR ₃₄
1998 UX ₁	13.0	0.15	20000226	142.93300	209.02742	142.95815	11.11721	0.1269858	3.0134627	83	2	1998-2000	0.53	M-v	3	Williams	38795	1998 UX ₁
1998 UO ₂	14.0	0.15	20000226	216.04584	242.84645	26.71396	12.99818	0.1589766	2.7403356	41	3	1992-2000	0.56	M-v	3	Williams	38795	1998 UO ₂
1998 UQ ₂	14.9	0.15	20000226	139.74119	11.66083	0.75817	2.33734	0.2069571	2.4504549	65	4	1994-2000	0.58	M-v	2	Williams	35636	1998 UQ ₂
1998 UC ₃	14.1	0.15	20000226	111.43135	55.08101	327.56961	1.27716	0.0680344	2.8610461	86	3	1993-2000	0.66	M-v	4	Marsden	38795	1998 UC ₃
1998 UA ₄	13.1	0.15	20000226	193.11864	244.83383	111.24845	12.14741	0.1637624	2.8878400	51	4	1987-2000	0.69	M-v	1	Williams	35721	1998 UA ₄

1998 UE ₄	14.3	0.15	20000226	166.95055	234.38626	127.14627	9.86456	0.2341722	2.3408477	41	4	1955–2000	0.61	M-v	2	Williams	35636	1998 UE ₄
1998 UW ₅	16.0	0.15	20000226	21.64727	44.36694	100.51408	4.11726	0.1230348	2.5362442	19	3	1996–2000	0.44	M-v	4	Williams	33308	1998 UW ₅
1998 UO ₆	14.9	0.15	20000226	129.47253	225.88902	137.58040	2.74173	0.0876796	2.8445892	50	2	1998–2000	0.49	M-v	4	Marsden	38795	1998 UO ₆
1998 UP ₆	13.2	0.15	20000226	172.72365	299.87087	23.74638	17.56197	0.2552450	2.6028846	78	4	1981–2000	0.67	M-v	2	Williams	38795	1998 UP ₆
1998 US ₆	14.7	0.15	20000226	76.76957	26.20414	39.60549	5.17072	0.1107452	2.6599366	48	3	1996–2000	0.62	M-v	4	Williams	38795	1998 US ₆
1998 UT ₆	14.0	0.15	20000226	113.92828	351.97305	37.33307	1.71939	0.1108516	2.9445049	88	2	1998–2000	0.59	M-v	4	Williams	38522	1998 UT ₆
1998 UX ₆	15.6	0.15	20000226	188.83669	49.18927	282.67970	3.56961	0.1460180	2.2704910	39	3	1993–2000	0.65	M-v	4	Williams	34026	1998 UX ₆
1998 UW ₇	14.3	0.15	20000226	66.88887	295.02937	170.27423	7.79765	0.1158460	2.5456172	37	3	1990–2000	0.72	M-v	4	Williams	35722	1998 UW ₇
1998 UX ₇	12.8	0.15	20000226	124.85818	150.60556	202.31074	11.43187	0.1211487	3.2107541	36	2	1998–2000	0.60	M-v	4	Williams	37795	1998 UX ₇
1998 UB ₈	14.5	0.15	20000226	167.01244	280.20693	50.91509	2.21666	0.1688328	2.6467893	44	3	1996–2000	0.60	M-v	4	Williams	33761	1998 UB ₈
1998 UE ₈	13.2	0.15	20000226	48.13664	281.06039	170.39368	1.76497	0.1360953	3.2199655	80	3	1992–2000	0.50	M-v	3	Williams	38522	1998 UE ₈
1998 UK ₈	14.4	0.15	19981103	292.53829	323.40862	173.47878	4.75767	0.1273988	2.4527254	16	1	31 days	0.71			Williams		1998 UK ₈
1998 UO ₈	13.7	0.15	20000226	144.22866	93.35374	250.37736	3.33271	0.0854646	2.7875604	65	3	1966–2000	0.61	M-v	4	Williams	38523	1998 UO ₈
1998 UR ₈	14.7	0.15	20000226	122.12795	49.51829	325.22449	2.06178	0.1553499	2.6720801	52	3	1993–2000	0.67	M-v	4	Williams	33310	1998 UR ₈
1998 UB ₉	14.6	0.15	20000226	61.62811	234.10829	218.80837	2.05112	0.0394763	2.6375658	49	2	1998–2000	0.51	M-v	4	Williams	38523	1998 UB ₉
1998 UF ₉	15.5	0.15	20000226	350.85899	162.36710	5.84788	4.71243	0.0804784	2.2379389	59	4	1980–2000	0.33	M-v	1	Williams	38795	1998 UF ₉
1998 US ₁₃	15.0	0.15	20000226	88.64388	344.79580	60.92210	3.05399	0.1087398	2.9420060	31	3	1996–2000	0.51	M-v	4	Marsden	38523	1998 US ₁₃
1998 UF ₁₄	13.3	0.15	20000226	133.18049	283.94773	69.43663	3.05744	0.0938925	2.9356479	70	3	1996–2000	0.57	M-v	3	Williams	38795	1998 UF ₁₄
1998 UE ₁₅	15.0	0.15	20000226	205.88909	208.20441	120.83426	8.86405	0.2356229	2.1682711	32	3	1988–2000	0.65	M-v	3	Williams	35722	1998 UE ₁₅
1998 UG ₁₅	14.6	0.15	20000226	281.95988	105.43960	114.06257	7.50961	0.0551103	2.3323589	50	2	1998–2000	0.44	M-v	3	Williams	38795	1998 UG ₁₅
1998 UH ₁₅	13.3	0.15	20000226	175.21421	127.04754	193.49008	13.15323	0.2141992	2.6368348	60	3	1972–2000	0.57	M-v	3	Williams	38523	1998 UH ₁₅
1998 UP ₁₅	14.3	0.15	20000226	23.15492	74.65568	84.63228	3.13115	0.0982786	2.4429398	49	5	1977–2000	0.79	M-v	2	Williams	38795	1998 UP ₁₅
1998 UQ ₁₅	13.1	0.15	20000226	97.08565	324.97893	86.98386	3.55296	0.0753210	2.7805321	63	3	1979–2000	0.51	M-v	3	Williams	38795	1998 UQ ₁₅
1998 UX ₁₅	15.2	0.15	20000226	82.02163	41.57708	48.40347	2.56953	0.1188866	2.5303303	38	3	1978–2000	0.71	M-v	3	Williams	34536	1998 UX ₁₅
1998 UB ₁₆	14.2	0.15	20000226	300.76369	154.22180	51.87111	12.70455	0.1355428	2.6610935	49	2	1998–2000	0.61	M-v	3	Williams	38795	1998 UB ₁₆
1998 UB ₁₇	13.9	0.15	20000226	184.28869	241.73575	97.39794	24.38171	0.2631005	2.2746359	28	3	1994–2000	0.76	M-v	3	Williams	38795	1998 UB ₁₇
1998 UG ₁₇	14.4	0.15	20000226	119.82954	66.84012	310.10685	4.39428	0.0815969	2.7173573	64	3	1993–2000	0.70	M-v	4	Williams	38795	1998 UG ₁₇
1998 UF ₁₈	15.2	0.15	20000226	56.77540	328.76455	164.54293	7.78271	0.1038841	2.3508075	34	4	1983–2000	0.64	M-v	1	Williams	34594	1998 UF ₁₈
1998 UO ₁₈	15.5	0.15	20000226	156.16987	13.14471	2.32166	2.24064	0.2199960	2.3698684	42	3	1994–2000	0.80	M-v	4	Williams	35722	1998 UO ₁₈
1998 UP ₁₈	14.2	0.15	20000226	133.44379	157.61045	261.43134	5.49957	0.0846778	2.3148625	54	4	1980–2000	0.78	M-v	2	Williams	35722	1998 UP ₁₈
1998 UW ₁₈	13.2	0.15	20000226	84.01857	8.29726	41.06529	5.77608	0.1501531	3.1728134	69	4	1994–2000	0.57	M-v	1	Williams	38795	1998 UW ₁₈
1998 UX ₁₈	13.5	0.15	20000226	85.64614	27.87279	35.27220	2.92641	0.0364682	2.8606358	63	3	1990–2000	0.55	M-v	3	Williams	38524	1998 UX ₁₈
1998 UY ₁₈	15.3	0.15	20000226	72.05540	183.30746	263.48691	3.21490	0.0924736	2.5507321	24	4	1996–2000	0.85	M-v	1	Williams	36820	1998 UY ₁₈
1998 UF ₁₉	15.4	0.15	20000226	123.26460	238.12971	162.48376	2.84089	0.1759134	2.4706160	34	3	1990–2000	0.61	M-v	4	Williams	33311	1998 UF ₁₉
1998 UR ₁₉	14.8	0.15	20000226	144.53152	329.67282	40.99755	14.60375	0.2132469	2.3453870	50	3	1997–2000	0.68	M-v	3	Williams	35722	1998 UR ₁₉
1998 UW ₁₉	13.9	0.15	20000226	109.06795	1.35044	20.53829	1.82459	0.0589817	3.1100792	84	3	1995–2000	0.73	M-v	3	Williams	38795	1998 UW ₁₉
1998 UX ₁₉	13.7	0.15	20000226	43.97388	0.85381	96.91821	0.17916	0.1261689	3.1461673	54	2	1998–2000	0.46	M-v	3	Williams	38524	1998 UX ₁₉
1998 UY ₁₉	12.0	0.15	20000226	257.89361	4.11990	233.35642	16.86092	0.1548397	3.1088486	69	2	1998–2000	0.64	M-v	3	Williams	38795	1998 UY ₁₉
1998 UZ ₁₉	14.5	0.15	20000226	128.91378	358.56925	16.33274	1.54727	0.1735734	2.7297834	44	3	1993–2000	0.57	M-v	4	Williams	38795	1998 UZ ₁₉
1998 UM ₂₀	13.6	0.15	20000226	57.72307	337.07298	91.43522	2.61798	0.1737875	3.2234356	78	3	1977–2000	0.66	M-v	2	Williams	38795	1998 UM ₂₀
1998 UU ₂₀	14.9	0.15	20000226	204.42484	276.32654	48.22009	5.94670	0.1844497	2.2173403	59	2	1998–2000	0.54	M-v	4	Williams	38524	1998 UU ₂₀
1998 UZ ₂₀	15.8	0.15	20000226	169.94031	315.34375	43.15769	6.27254	0.1328893	2.3317550	44	3	1993–2000	0.70	M-v	4	Williams	35722	1998 UZ ₂₀
1998 UC ₂₁	15.7	0.15	19981103	357.34555	191.63365	221.20233	3.87517	0.2331881	2.5878007	26	1	39 days	0.80			Williams		1998 UC ₂₁
1998 UP ₂₁	13.7	0.15	20000226	46.61027	257.06303	178.77032	9.03887	0.0997915	3.0012085	41	3	1977–2000	0.61	M-v	2	Williams	38795	1998 UP ₂₁
1998 UU ₂₂	13.7	0.15	20000226	109.29418	152.85391	234.31314	9.64148	0.0930648	2.9758554	81	2	1998–2000	0.63	M-v	3	Williams	38524	1998 UU ₂₂
1998 UX ₂₂	15.3	0.15	20000226	109.03270	354.09337	61.90215	3.21813	0.1225393	2.5837540	53	3	1994–2000	0.74	M-v	4	Williams	35722	1998 UX ₂₂
1998 UY ₂₂	15.9	0.15	20000226	162.87091	333.04907	39.10273	3.68665	0.2073055	2.2623441	32	3	1991–2000	0.77	M-v	4	Williams	35722	1998 UY ₂₂
1998 UZ ₂₂	15.8	0.15	19981123	8.51985	180.50625	223.72360	2.45772	0.1931586	2.2953505	23	1	46 days	0.55			Williams		1998 UZ ₂₂
1998 UB ₂₃	14.9	0.15	20000226	152.02476	343.22666	42.05078	4.93359	0.1668444	2.3104641	47	4	1993–2000	0.72	M-v	3	Williams	35723	1998 UB ₂₃
1998 UC ₂₃	14.0	0.15	20000226	155.44582	88.34510	283.72267	5.52202	0.1389914	2.3690800	36	3	1994–2000	0.67	M-v	3	Williams	35723	1998 UC ₂₃
1998 UR ₂₃	14.8	0.15	20000226	262.44226	95.99735	155.60493	6.38838	0.1880545	2.1945649	42	2	1998–2000	0.69	M-v	4	Williams	38796	1998 UR ₂₃
1998 UT ₂₃	14.3	0.15	20000226	317.15337	78.56312	132.59908	6.10743	0.0991849	2.2356436	70	2	1998–2000	0.62	M-v	4	Williams	38796	1998 UT ₂₃
1998 UA ₂₄	16.1	0.15	19981014	331.62245	342.05914	84.47367	6.86342	0.1958943	2.3573415	12	1	30 days	0.43			Williams		1998 UA ₂₄

1998 UE ₂₄	14.7	0.15	20000226	132.20695	313.09325	79.59671	7.67427	0.0938768	2.3350464	37	5	1991–2000	0.77	M-v	2	Williams	36085	1998 UE ₂₄
1998 UM ₂₄	14.0	0.15	20000226	219.41235	65.86921	222.85836	8.85881	0.1614200	2.5671347	45	3	1984–2000	0.78	M-v	3	Williams	38796	1998 UM ₂₄
1998 UO ₂₄	14.2	0.15	20000226	89.49191	227.97695	203.06639	6.47340	0.1243054	2.7008246	38	4	1989–2000	0.81	M-v	2	Williams	38796	1998 UO ₂₄
1998 UR ₂₄	14.6	0.15	20000226	97.37939	295.71324	93.08269	2.40385	0.2333326	3.1604319	52	3	1992–2000	0.76	M-v	3	Williams	35723	1998 UR ₂₄
1998 UC ₂₆	14.5	0.15	20000226	217.43218	101.66604	181.42699	7.08677	0.0319124	2.7770183	37	3	1993–2000	0.75	M-v	3	Williams	38796	1998 UC ₂₆
1998 UJ ₂₆	14.2	0.15	20000226	79.95836	272.54685	134.87749	5.85547	0.1821485	3.1612166	32	3	1992–2000	0.78	M-v	4	Williams	33574	1998 UJ ₂₆
1998 UM ₂₆	14.2	0.15	20000226	224.71858	169.64337	126.67263	4.92680	0.1695504	2.2545723	68	3	1991–2000	0.63	M-v	3	Williams	38796	1998 UM ₂₆
1998 UA ₂₇	13.6	0.15	20000226	292.44781	133.74174	110.84081	4.65951	0.1413288	2.2265854	81	3	1991–2000	0.61	M-v	3	Williams	38796	1998 UA ₂₇
1998 UZ ₂₇	13.6	0.15	20000226	260.29715	107.81372	140.36033	6.20761	0.0889592	2.6431564	88	2	1998–2000	0.62	M-v	3	Williams	38796	1998 UZ ₂₇
1998 UU ₂₈	13.2	0.15	20000226	134.15621	274.93515	75.21208	10.82966	0.1028356	3.0632868	48	3	1982–2000	0.63	M-v	3	Williams	38796	1998 UU ₂₈
1998 UG ₂₉	14.3	0.15	20000226	280.50146	82.96043	161.17126	6.97083	0.0802065	2.4714804	33	2	1998–2000	0.65	M-v	4	Williams	38526	1998 UG ₂₉
1998 UH ₂₉	16.6	0.15	19981014	19.85238	232.20341	132.89195	5.64590	0.2217519	2.3932475	12	1	29 days	1.38			Williams		1998 UH ₂₉
1998 UT ₂₉	14.5	0.15	20000226	164.96794	188.84619	152.71035	7.95582	0.1448156	2.5633671	40	2	1998–2000	0.72	M-v	4	Williams	38526	1998 UT ₂₉
1998 UY ₂₉	15.6	0.15	19981103	343.95418	340.40257	82.58320	7.38559	0.0503880	2.2539486	13	1	31 days	0.79			Williams		1998 UY ₂₉
1998 UH ₃₁	12.1	0.15	20000226	122.97016	347.75042	62.13238	14.31053	0.1390443	2.6276929	58	5	1951–2000	0.72	M-v	2	Williams	38796	1998 UH ₃₁
1998 UM ₃₂	13.6	0.15	20000226	154.88862	288.88977	63.42020	10.89967	0.1146130	2.9734178	44	3	1996–2000	0.61	M-v	3	Williams	35723	1998 UM ₃₂
1998 UG ₃₄	14.3	0.15	20000226	196.57633	327.59859	329.31980	2.23852	0.1687538	2.4434068	58	4	1990–2000	0.64	M-v	3	Williams	38796	1998 UG ₃₄
1998 UQ ₃₄	16.4	0.15	19981103	33.87670	277.44142	58.85620	6.92879	0.2126574	2.1977246	16	1	19 days	0.48			Williams		1998 UQ ₃₄
1998 UV ₃₅	15.3	0.15	20000226	256.52764	224.57387	45.22766	4.72996	0.0714789	2.2212294	44	4	1988–2000	0.71	M-v	1	Williams	38796	1998 UV ₃₅
1998 UP ₃₉	14.1	0.15	20000226	77.00385	232.38089	216.39689	11.85210	0.2644145	2.6435109	61	4	1981–2000	0.67	M-v	2	Williams	35723	1998 UP ₃₉
1998 UJ ₄₀	13.4	0.15	20000226	311.91161	323.52659	234.46811	11.16721	0.1131287	2.6076296	48	2	1998–2000	0.55	M-v	3	Williams	38796	1998 UJ ₄₀
1998 UC ₄₁	14.0	0.15	20000226	277.21379	34.06497	202.33342	3.75224	0.0752999	2.4419522	45	2	1998–2000	0.79	M-v	4	Williams	38526	1998 UC ₄₁
1998 UF ₄₁	13.5	0.15	20000226	108.26013	176.28947	194.31101	9.56462	0.1434478	2.9888476	54	2	1998–2000	0.77	M-v	3	Williams	38796	1998 UF ₄₁
1998 UE ₄₃	13.7	0.15	20000226	110.12800	125.90677	261.23073	4.56084	0.0479148	2.7867580	47	2	1998–2000	0.64	M-v	4	Williams	38526	1998 UE ₄₃
1998 UJ ₄₃	13.9	0.15	20000226	329.01905	261.53393	291.41067	4.70894	0.0399664	2.4594618	58	3	1997–2000	0.56	M-v	3	Williams	38526	1998 UJ ₄₃
1998 US ₄₇	14.0	0.15	19981103	42.82631	302.65520	47.44883	22.48913	0.1452877	3.1416925	11	1	19 days	0.41			Williams		1998 US ₄₇
1998 VA	13.2	0.15	20000226	86.67538	44.47579	41.63056	17.72459	0.1493619	2.5999189	79	5	1976–2000	0.60	M-v	2	Williams	38527	1998 VA
1998 VE	15.6	0.15	20000226	144.72772	99.29365	271.38026	1.12183	0.2257823	2.4627962	69	3	1990–2000	0.61	M-v	3	Williams	35723	1998 VE
1998 VA ₁	15.3	0.15	19981103	328.21051	35.05321	50.90350	14.44597	0.1637303	2.5813545	19	1	15 days	0.61			Williams		1998 VA ₁
1998 VG ₂	15.7	0.15	20000226	131.76728	342.58966	18.94026	3.10388	0.2740819	2.3470170	56	3	1997–2000	0.71	M-v	2	Williams	35723	1998 VG ₂
1998 VL ₃	16.1	0.15	20000226	84.00761	22.09577	43.30672	2.20421	0.0653725	2.8378006	20	3	1995–2000	0.42	M-v	5	Marsden	33514	1998 VL ₃
1998 VN ₅	13.1	0.15	20000226	85.46800	25.66077	22.22728	10.67386	0.1417269	3.1636704	72	3	1997–2000	0.50	M-v	3	Williams	38527	1998 VN ₅
1998 VS ₅	13.8	0.15	20000226	32.71376	94.60319	27.05366	22.40705	0.0186540	2.6494238	34	2	1998–2000	0.56	M-v	3	Williams	38796	1998 VS ₅
1998 VX ₅	13.5	0.15	20000226	138.11899	318.38433	32.23467	2.81325	0.1674194	3.0103354	60	3	1996–2000	0.58	M-v	3	Williams	38796	1998 VX ₅
1998 VZ ₅	15.1	0.15	20000226	220.37767	257.36964	77.90224	7.27648	0.1353485	2.2890754	73	2	1998–2000	0.71	M-v	4	Williams	38796	1998 VZ ₅
1998 VD ₆	14.1	0.15	20000226	226.85539	243.44200	51.02965	10.44626	0.0970214	2.5372334	48	2	1998–2000	0.53	M-v	4	Williams	38528	1998 VD ₆
1998 VQ ₇	13.7	0.15	20000226	223.04921	212.55152	70.10289	7.36430	0.1030754	2.3751194	62	3	1990–2000	0.57	M-v	2	Williams	38796	1998 VQ ₇
1998 VC ₈	13.8	0.15	20000226	82.97472	212.40337	189.58937	10.76435	0.1268114	2.9871069	60	2	1998–2000	0.66	M-v	3	Williams	38796	1998 VC ₈
1998 VJ ₈	14.7	0.15	20000226	86.73336	265.16134	152.87630	2.21138	0.2066973	2.7546710	58	4	1979–2000	0.61	M-v	2	Williams	34537	1998 VJ ₈
1998 VW ₈	14.5	0.15	20000226	224.99293	325.63091	322.05876	4.06911	0.1668668	2.3115369	68	2	1998–2000	0.57	M-v	4	Williams	38796	1998 VW ₈
1998 VX ₈	14.0	0.15	20000226	236.57346	18.14826	261.55798	6.11404	0.1113675	2.3482807	52	3	1987–2000	0.58	M-v	3	Williams	38528	1998 VX ₈
1998 VU ₉	14.3	0.15	20000226	89.80847	127.84450	297.88604	2.58551	0.0849672	2.5181267	63	3	1992–2000	0.68	M-v	4	Williams	38796	1998 VU ₉
1998 VN ₁₁	14.3	0.15	20000226	247.67028	176.84122	108.09568	1.98323	0.1445771	2.1400709	84	3	1979–2000	0.52	M-v	2	Williams	38796	1998 VN ₁₁
1998 VW ₁₂	14.2	0.15	20000226	87.43926	259.55232	136.04424	1.97289	0.1981222	3.1145896	40	3	1976–2000	0.63	M-v	5	Williams	38796	1998 VW ₁₂
1998 VB ₁₃	15.6	0.15	20000226	137.85931	241.78539	155.22287	1.16381	0.1571698	2.2877703	31	3	1993–2000	0.66	M-v	3	Williams	34308	1998 VB ₁₃
1998 VD ₁₃	13.7	0.15	20000226	139.24185	304.41396	44.99628	3.25358	0.0715216	2.8893879	58	2	1998–2000	0.60	M-v	3	Williams	38796	1998 VD ₁₃
1998 VQ ₁₃	15.1	0.15	20000226	99.57168	106.85488	309.97716	1.83890	0.1822802	2.6164653	26	4	1991–2000	0.80	M-v	1	Williams	38529	1998 VQ ₁₃
1998 VZ ₁₃	14.1	0.15	20000226	120.93318	166.48993	256.73639	5.32016	0.1010901	2.2511107	46	5	1954–2000	0.68	M-v	2	Williams	35724	1998 VZ ₁₃
1998 VV ₁₄	14.6	0.15	20000226	234.05643	304.31223	349.33276	1.85456	0.1065254	2.2532564	52	2	1998–2000	0.47	M-v	4	Williams	38529	1998 VV ₁₄
1998 VA ₁₅	14.7	0.15	20000226	65.95305	215.04924	245.27629	1.78949	0.1615548	2.6194227	31	4	1991–2000	0.86	M-v	2	Williams	38529	1998 VA ₁₅
1998 VP ₁₅	14.4	0.15	20000226	300.68919	18.06276	211.65291	4.38980	0.1620738	2.3054062	56	3	1980–2000	0.72	M-v	4	Williams	38796	1998 VP ₁₅
1998 VM ₁₆	12.6	0.15	20000226	1.81240	67.77458	64.78716	13.45254	0.1483811	3.2209302	58	3	1975–2000	0.58	M-v	3	Williams	38796	1998 VM ₁₆
1998 VP ₁₆	14.2	0.15	20000226	319.76076	98.34416	85.92180	9.41829	0.0702462	2.7541499	28	3	1980–2000	0.64	M-v	3	Williams	38529	1998 VP ₁₆

1998 VR ₁₇	14.8	0.15	20000226	181.84512	309.25824	12.82081	2.48947	0.2244895	2.3973224	36	4	1994-2000	0.72	M-v	2	Williams	38797	1998 VR ₁₇
1998 VM ₁₈	13.6	0.15	20000226	272.46666	4.45322	242.70247	13.29226	0.0852370	2.4751593	46	2	1998-2000	0.65	M-v	4	Williams	38530	1998 VM ₁₈
1998 VX ₁₈	14.9	0.15	20000226	216.49882	70.92512	255.77604	4.13473	0.0611011	2.1753649	43	4	1981-2000	0.67	M-v	2	Williams	35724	1998 VX ₁₈
1998 VB ₂₀	14.7	0.15	20000226	211.08839	244.29240	61.15252	7.75416	0.1445512	2.3419556	45	3	1997-2000	0.76	M-v	3	Williams	34595	1998 VB ₂₀
1998 VH ₂₁	13.9	0.15	20000226	209.71831	271.66528	22.76797	5.45073	0.0283391	2.7484723	39	2	1998-2000	0.65	M-v	4	Williams	38530	1998 VH ₂₁
1998 VN ₂₁	15.6	0.15	20000226	135.66313	52.76555	314.33791	2.73938	0.2597469	2.5698273	31	4	1969-2000	0.72	M-v	2	Williams	38797	1998 VN ₂₁
1998 VS ₂₁	14.1	0.15	20000226	247.84758	329.22924	291.85845	3.39064	0.0328316	2.6939129	63	2	1998-2000	0.62	M-v	4	Williams	38797	1998 VS ₂₁
1998 VM ₂₂	14.7	0.15	19981103	18.14129	124.51752	242.77634	6.35890	0.3242725	2.7639235	19	1	15 days	0.33			Williams		1998 VM ₂₂
1998 VR ₂₃	14.8	0.15	20000226	147.13026	292.57430	59.01225	6.52926	0.0645291	2.7993966	27	3	1996-2000	0.63	M-v	4	Williams	33516	1998 VR ₂₃
1998 VQ ₂₅	14.3	0.15	20000226	307.36613	173.32271	58.75927	4.38353	0.0819129	2.2995343	63	2	1998-2000	0.60	M-v	4	Williams	38797	1998 VQ ₂₅
1998 VJ ₂₆	15.0	0.15	20000226	156.76357	56.96371	301.16060	1.57093	0.1831456	2.4427640	61	4	1992-2000	0.59	M-v	2	Williams	35637	1998 VJ ₂₆
1998 VR ₂₇	12.4	0.15	20000226	350.59662	270.79088	239.65244	5.30937	0.0885763	3.1473486	83	3	1983-2000	0.62	M-v	3	Williams	38797	1998 VR ₂₇
1998 VN ₂₈	14.6	0.15	20000226	80.87007	39.72206	69.69547	5.44989	0.1256904	2.3606088	50	4	1980-2000	0.59	M-v	2	Williams	35724	1998 VN ₂₈
1998 VV ₂₈	14.4	0.15	20000226	127.91944	125.40028	286.92384	5.50735	0.1187528	2.3724130	24	5	1954-2000	0.64	M-v	2	Williams	35724	1998 VV ₂₈
1998 VO ₂₉	14.7	0.15	20000226	98.25488	84.28182	313.94485	2.05899	0.2770194	2.9899917	34	3	1984-2000	0.58	M-v	4	Williams	35724	1998 VO ₂₉
1998 VQ ₂₉	13.0	0.15	20000226	161.01921	85.80827	257.16803	11.85892	0.2016173	2.6179269	66	2	1998-2000	0.59	M-v	3	Williams	38797	1998 VQ ₂₉
1998 VN ₃₀	14.7	0.15	20000226	169.62287	94.14366	265.14294	6.10388	0.1754155	2.3592994	43	4	1987-2000	0.68	M-v	2	Williams	34931	1998 VN ₃₀
1998 VT ₃₀	14.6	0.15	20000226	177.17209	92.72750	277.86753	4.45777	0.1697513	2.1854405	44	5	1982-2000	0.71	M-v	2	Williams	35724	1998 VT ₃₀
1998 VG ₃₁	14.3	0.15	20000226	181.09098	321.42396	9.15836	6.08049	0.0804478	2.6160526	56	2	1998-2000	0.44	M-v	4	Williams	38530	1998 VG ₃₁
1998 VH ₃₁	14.5	0.15	20000226	155.64436	324.34936	62.18277	1.91274	0.2093934	2.3409933	31	4	1969-2000	0.48	M-v	2	Williams	35724	1998 VH ₃₁
1998 VQ ₃₁	13.2	0.15	20000226	125.26503	154.04959	243.46130	12.72712	0.1639353	2.6590413	46	5	1983-2000	0.67	M-v	2	Williams	38530	1998 VQ ₃₁
1998 VK ₃₂	14.3	0.15	20000226	154.50174	123.23540	225.54362	15.33357	0.3281981	2.6066390	35	3	1997-2000	0.67	M-v	3	Williams	35637	1998 VK ₃₂
1998 VN ₃₂	13.4	0.15	20000226	101.73108	320.59623	92.76113	3.25297	0.0720928	2.9107456	69	2	1998-2000	0.62	M-v	4	Williams	38531	1998 VN ₃₂
1998 VS ₃₂	11.9	0.15	20000226	316.60545	164.75099	91.60395	15.28560	0.0873689	3.1473370	46	5	1971-2000	0.68	M-v	2	Williams	38797	1998 VS ₃₂
1998 VV ₃₂	12.5	0.15	20000226	351.47609	124.37471	95.42484	19.79298	0.0446702	3.1550971	44	3	1997-2000	0.71	M-v	2	Williams	35442	1998 VV ₃₂
1998 VX ₃₂	15.2	0.15	20000226	172.25620	289.73668	54.70901	3.09083	0.1352104	2.5285638	52	4	1978-2000	0.72	M-v	3	Williams	34932	1998 VX ₃₂
1998 VE ₃₃	13.8	0.15	20000226	256.13870	59.98228	220.44338	12.99005	0.1465466	2.5656717	49	4	1981-2000	0.57	M-v	2	Williams	38797	1998 VE ₃₃
1998 VY ₃₃	13.9	0.15	20000226	113.32234	137.47417	269.99264	1.53683	0.2177976	2.6656882	73	5	1982-2000	0.64	M-v	1	Williams	35724	1998 VY ₃₃
1998 VD ₃₄	14.6	0.15	19981123	324.02498	216.92641	241.05850	8.15116	0.0773223	2.7273693	18	1	27 days	0.78			Williams		1998 VD ₃₄
1998 VR ₃₄	14.2	0.15	20000226	219.20881	331.72524	315.06260	1.13169	0.0366115	2.8733920	60	4	1996-2000	0.53	M-v	1	Williams	38797	1998 VR ₃₄
1998 VV ₃₄	13.7	0.15	20000226	183.29609	358.51979	352.36051	7.03132	0.1435871	2.2200061	75	3	1990-2000	0.61	M-v	3	Williams	38797	1998 VV ₃₄
1998 VS ₃₅	14.8	0.15	20000226	355.22456	267.30273	300.81362	1.66310	0.1373528	2.4093414	20	4	1990-2000	0.72	M-v	2	Williams	35638	1998 VS ₃₅
1998 VX ₃₆	14.8	0.15	20000226	223.44788	306.97255	340.16233	2.72971	0.1530122	2.3574950	27	3	1994-2000	0.74	M-v	4	Williams	38531	1998 VX ₃₆
1998 VZ ₃₆	12.7	0.15	20000226	226.27072	41.97830	223.46343	12.81390	0.1310529	2.6944031	55	3	1980-2000	0.60	M-v	2	Williams	38531	1998 VZ ₃₆
1998 VE ₃₇	13.9	0.15	20000226	66.09116	83.76435	9.08304	9.06931	0.1814893	2.7717572	65	4	1981-2000	0.71	M-v	1	Williams	38066	1998 VE ₃₇
1998 VL ₃₇	13.8	0.15	20000226	208.09782	260.70360	27.96425	13.49546	0.1506662	2.6220158	36	3	1971-2000	0.63	M-v	3	Williams	38797	1998 VL ₃₇
1998 VZ ₃₇	14.1	0.15	20000226	6.85298	107.04768	54.83388	13.56755	0.1272909	2.6101118	36	3	1996-2000	0.69	M-v	3	Williams	38797	1998 VZ ₃₇
1998 VQ ₃₈	13.4	0.15	20000226	18.48244	269.00885	241.61301	8.45791	0.0749214	2.5868723	62	3	1997-2000	0.71	M-v	3	Williams	38797	1998 VQ ₃₈
1998 VC ₄₄	14.2	0.15	20000226	139.61633	217.96838	176.06793	4.28994	0.1399228	2.4873056	50	3	1986-2000	0.76	M-v	3	Williams	35725	1998 VC ₄₄
1998 VD ₄₄	14.4	0.15	20000226	132.15682	340.44123	71.30407	7.49205	0.1124180	2.4153284	50	5	1983-2000	0.55	M-v	1	Williams	35725	1998 VD ₄₄
1998 WB	13.3	0.15	20000226	95.83007	261.74825	127.00700	22.57187	0.1318552	3.1312067	42	2	1998-2000	0.53	M-v	3	Williams	38797	1998 WB
1998 WE	13.2	0.15	20000226	38.75192	352.15207	118.82043	2.51832	0.1391702	3.2173963	73	2	1998-2000	0.53	M-v	3	Williams	38531	1998 WE
1998 WF	14.8	0.15	20000226	113.96825	243.11210	132.15950	5.90691	0.3030069	2.6332289	42	3	1991-2000	0.64	M-v	2	Williams	34932	1998 WF
1998 WH	14.1	0.15	20000226	352.57560	130.40340	77.97402	5.79826	0.1513904	2.4124936	38	4	1978-2000	0.57	M-v	2	Williams	38797	1998 WH
1998 WP	13.5	0.15	20000226	155.16523	110.67354	246.57664	10.77015	0.2726985	2.6582621	51	3	1989-2000	0.70	M-v	3	Williams	38797	1998 WP
1998 WQ	13.6	0.15	20000226	211.66644	128.27376	195.18419	5.94735	0.2170150	2.2812143	60	3	1939-2000	0.54	M-v	3	Williams	38797	1998 WQ
1998 WK ₁	14.5	0.15	20000226	175.22710	350.14033	336.19096	15.14069	0.1441127	2.5189052	68	3	1974-2000	0.69	M-v	3	Williams	38531	1998 WK ₁
1998 WM ₁	13.2	0.15	20000226	215.16025	58.50515	255.89008	4.70557	0.1930915	2.5356746	48	3	1985-2000	0.57	M-v	3	Williams	38532	1998 WM ₁
1998 WN ₁	14.4	0.15	20000226	224.71338	106.19224	218.55486	4.51415	0.1575052	2.2903552	38	6	1980-2000	0.69	M-v	1	Williams	35725	1998 WN ₁
1998 WO ₁	13.0	0.15	20000226	154.26722	190.91060	152.22459	2.62627	0.1917635	3.1602616	75	5	1975-2000	0.57	M-v	1	Williams	38797	1998 WO ₁
1998 WQ ₁	13.8	0.15	20000226	73.64096	251.62896	196.18541	1.14878	0.1376445	3.1494777	55	5	1994-2000	0.71	M-v	1	Williams	35725	1998 WQ ₁
1998 WU ₁	14.6	0.15	20000226	233.69044	236.46332	82.87627	11.67367	0.0779074	2.3735733	32	2	1998-2000	0.71	M-v	4	Williams	38532	1998 WU ₁
1998 WK ₂	15.0	0.15	20000226	128.31612	184.62152	215.08447	2.16234	0.1778430	2.5379015	33	3	1994-2000	0.56	M-v	4	Williams	35725	1998 WK ₂

1998 WE ₃	14.3	0.15	20000226	96.40060	77.69295	339.41471	4.49714	0.0290219	2.7407291	44	3	1993–2000	0.54	M-v	4	Williams	38797	1998 WE ₃
1998 WG ₃	13.8	0.15	20000226	184.44294	96.84865	266.23375	3.14526	0.0054626	2.7557598	28	3	1993–2000	0.71	M-v	4	Williams	34029	1998 WG ₃
1998 WJ ₃	13.0	0.15	20000226	40.07804	70.15550	92.86499	14.00091	0.1127502	2.6930661	46	3	1977–2000	0.63	M-v	2	Williams	33765	1998 WJ ₃
1998 WK ₃	14.3	0.15	20000226	160.43460	97.86756	271.51234	0.78437	0.2157156	2.6376605	26	6	1976–2000	0.86	M-v	1	Williams	35725	1998 WK ₃
1998 WS ₃	14.3	0.15	20000226	26.03669	125.55719	58.01170	4.54401	0.0814424	2.1810824	56	6	1987–2000	0.75	M-v	1	Williams	34029	1998 WS ₃
1998 WU ₃	13.9	0.15	20000226	161.84016	308.14880	53.28609	7.06204	0.1823454	2.4468752	57	3	1990–2000	0.68	M-v	3	Williams	38797	1998 WU ₃
1998 WH ₄	13.3	0.15	20000226	93.76108	0.04653	72.63740	4.30873	0.0619900	2.6847644	72	3	1996–2000	0.61	M-v	3	Williams	38797	1998 WH ₄
1998 WX ₄	9.3	0.15	20000226	60.90146	285.14979	120.55677	28.74924	0.0235518	5.2906468	65	3	1992–2000	0.57	M-v	2	Williams	38797	1998 WX ₄
1998 WE ₅	13.7	0.15	20000226	103.10438	242.71835	152.53346	14.23318	0.1462022	3.1597652	33	3	1987–2000	0.75	M-v	4	Williams	35725	1998 WE ₅
1998 WH ₅	13.7	0.15	20000226	36.43514	320.11657	175.32035	24.26727	0.1392496	3.1696011	24	2	1998–2000	0.62	M-v	4	Williams	38532	1998 WH ₅
1998 WL ₅	13.9	0.15	20000226	42.78710	73.00164	38.49212	2.29987	0.0596895	2.9254358	63	2	1998–2000	0.48	M-v	3	Williams	38532	1998 WL ₅
1998 WN ₅	14.4	0.15	20000226	153.92734	344.79374	356.27652	0.90559	0.1092164	2.9712368	54	3	1992–2000	0.63	M-v	4	Williams	38797	1998 WN ₅
1998 WO ₅	14.2	0.15	20000226	73.50016	125.19124	329.72445	5.82480	0.0900889	2.4636216	49	4	1990–2000	0.60	M-v	1	Williams	38067	1998 WO ₅
1998 WW ₅	14.5	0.15	20000226	222.09481	305.01702	358.35631	5.57338	0.1406917	2.3396655	52	3	1987–2000	0.53	M-v	3	Williams	38532	1998 WW ₅
1998 WC ₆	14.5	0.15	20000226	208.43599	225.28272	96.53129	4.34325	0.1889456	2.2197040	58	4	1988–2000	0.62	M-v	1	Williams	38797	1998 WC ₆
1998 WK ₆	14.2	0.15	20000226	104.36149	225.37904	191.39245	2.11247	0.1990461	2.6939432	60	4	1980–2000	0.70	M-v	2	Williams	35725	1998 WK ₆
1998 WN ₆	13.0	0.15	20000226	314.53089	66.98949	179.51129	10.07810	0.0646979	3.0197164	31	5	1985–2000	0.74	M-v	1	Williams	38797	1998 WN ₆
1998 WY ₆	14.7	0.15	20000226	345.90994	219.84401	342.58606	5.99604	0.0362193	2.4043014	31	2	1998–2000	0.49	M-v	3	Williams	38533	1998 WY ₆
1998 WE ₇	13.8	0.15	20000226	304.70251	167.18974	66.91775	15.42508	0.1338341	2.5351474	60	2	1998–2000	0.60	M-v	4	Williams	38533	1998 WE ₇
1998 WF ₇	14.1	0.15	20000226	236.58867	218.97516	69.61631	8.05254	0.2105408	2.4200084	38	2	1998–2000	0.60	M-v	4	Williams	38533	1998 WF ₇
1998 WG ₇	13.8	0.15	20000226	216.09706	216.08974	97.16617	6.10118	0.2307085	2.3790990	62	5	1986–2000	0.62	M-v	1	Williams	38797	1998 WG ₇
1998 WS ₇	14.1	0.15	20000226	109.66256	26.80668	19.19384	13.01272	0.1570897	2.6027993	53	3	1960–2000	0.54	M-v	3	Williams	35726	1998 WS ₇
1998 WB ₈	14.1	0.15	20000226	38.43469	141.74793	25.46298	1.12524	0.1441275	2.3248804	38	3	1996–2000	0.53	M-v	3	Williams	35726	1998 WB ₈
1998 WC ₈	13.3	0.15	20000226	109.98974	290.19022	108.26202	8.82090	0.2628086	2.7316192	49	4	1989–2000	0.72	M-v	2	Williams	38797	1998 WC ₈
1998 WD ₈	13.6	0.15	20000226	87.78644	33.63466	70.09454	6.21386	0.0243137	2.7426866	40	3	1993–2000	0.71	M-v	3	Williams	38797	1998 WD ₈
1998 WJ ₈	12.3	0.15	20000226	146.36543	257.35537	80.02470	17.20755	0.0797680	3.1255163	101	3	1996–2000	0.46	M-v	2	Williams	38797	1998 WJ ₈
1998 WK ₉	14.4	0.15	20000226	109.65723	301.05115	103.32206	4.84725	0.0969287	2.7986561	81	3	1996–2000	0.59	M-v	3	Williams	38797	1998 WK ₉
1998 WL ₉	14.6	0.15	20000226	35.82872	183.81088	311.18030	4.37408	0.1584390	3.1757036	51	3	1988–2000	0.77	M-v	2	Williams	34310	1998 WL ₉
1998 WN ₉	15.4	0.15	19981123	340.02438	17.63506	64.20830	7.42567	0.0796273	2.3934851	31	1	25 days	0.68			Williams		1998 WN ₉
1998 WO ₉	14.9	0.15	20000226	200.81711	270.83431	67.44765	5.12871	0.0697792	2.2995167	54	3	1997–2000	0.57	M-v	3	Williams	38797	1998 WO ₉
1998 WR ₉	14.4	0.15	20000226	177.92217	109.14235	217.53538	1.36053	0.1065929	2.7431455	51	3	1993–2000	0.71	M-v	4	Williams	38797	1998 WR ₉
1998 WS ₉	13.5	0.15	20000226	242.73707	221.60582	69.41677	6.79501	0.1000077	2.3576449	98	2	1998–2000	0.57	M-v	3	Williams	38797	1998 WS ₉
1998 WL ₁₀	13.7	0.15	20000226	66.77088	248.71447	188.10501	4.38088	0.1346813	3.1039042	38	2	1998–2000	0.55	M-v	4	Williams	38534	1998 WL ₁₀
1998 WM ₁₀	13.8	0.15	20000226	48.38142	332.62157	126.70684	3.64623	0.0607851	2.9970532	53	2	1998–2000	0.48	M-v	3	Williams	38534	1998 WM ₁₀
1998 WW ₁₀	14.4	0.15	20000226	153.67174	284.29222	77.75738	4.38244	0.1243470	2.5674638	91	3	1973–2000	0.64	M-v	3	Williams	38798	1998 WW ₁₀
1998 WY ₁₀	14.9	0.15	19981123	58.52063	275.86592	72.87148	6.59575	0.0991211	2.5090498	15	1	5 days	0.58		E	Williams		1998 WY ₁₀
1998 WF ₁₁	13.7	0.15	20000226	113.15110	267.39572	124.89806	3.18159	0.0727975	2.8960229	61	3	1996–2000	0.64	M-v	4	Williams	38798	1998 WF ₁₁
1998 WP ₁₁	13.3	0.15	20000226	196.39471	237.89158	70.62402	14.63334	0.1596550	2.6302281	48	2	1998–2000	0.62	M-v	4	Williams	38798	1998 WP ₁₁
1998 WD ₁₂	14.5	0.15	20000226	324.18070	56.23875	166.79579	2.34545	0.1645389	2.3821516	59	3	1997–2000	0.68	M-v	3	Williams	38067	1998 WD ₁₂
1998 WE ₁₂	13.1	0.15	20000226	319.40192	98.52010	95.41258	3.28099	0.0361480	2.8991573	91	3	1996–2000	0.57	M-v	3	Williams	38534	1998 WE ₁₂
1998 WY ₁₃	14.4	0.15	20000226	194.95651	305.83483	25.43437	2.32360	0.2032799	2.3100409	52	2	1998–2000	0.59	M-v	4	Williams	38535	1998 WY ₁₃
1998 WH ₁₄	14.1	0.15	20000226	123.28961	155.43454	230.31714	5.31626	0.1161756	2.8002033	47	3	1996–2000	0.69	M-v	4	Williams	38535	1998 WH ₁₄
1998 WM ₁₄	15.3	0.15	20000226	212.45427	127.10631	191.92995	1.87562	0.1884309	2.2524764	51	4	1984–2000	0.52	M-v	3	Williams	34933	1998 WM ₁₄
1998 WQ ₁₄	13.5	0.15	20000226	331.91633	307.88459	229.89674	8.13324	0.0629964	3.0826060	48	2	1998–2000	0.72	M-v	4	Williams	38798	1998 WQ ₁₄
1998 WD ₁₅	14.3	0.15	20000226	80.26552	300.24384	130.68542	3.07941	0.0669908	2.9242115	61	4	1995–2000	0.54	M-v	1	Williams	38798	1998 WD ₁₅
1998 WP ₁₅	12.7	0.15	20000226	60.93883	3.84653	74.18693	17.18808	0.0557732	3.1979027	70	2	1998–2000	0.62	M-v	3	Williams	38798	1998 WP ₁₅
1998 WC ₁₆	13.0	0.15	20000226	188.56948	233.53704	74.92486	11.43718	0.0981106	2.9782412	67	2	1998–2000	0.61	M-v	3	Williams	38535	1998 WC ₁₆
1998 WQ ₁₆	13.3	0.15	20000226	106.42949	319.97912	62.11837	8.26188	0.1729510	3.1864398	68	5	1975–2000	0.66	M-v	1	Williams	34933	1998 WQ ₁₆
1998 WS ₁₆	13.4	0.15	20000226	207.18546	242.90516	59.36949	2.82010	0.0491097	2.8574121	86	3	1996–2000	0.66	M-v	2	Williams	38798	1998 WS ₁₆
1998 WT ₁₆	14.4	0.15	20000226	168.82677	111.11293	237.10004	13.37707	0.1528008	2.5342910	43	3	1994–2000	0.64	M-v	4	Williams	35726	1998 WT ₁₆
1998 WZ ₁₆	14.3	0.15	20000226	138.79127	297.08052	79.75749	3.05575	0.0842232	2.7191475	46	3	1982–2000	0.55	M-v	4	Williams	38535	1998 WZ ₁₆
1998 WA ₁₇	13.7	0.15	20000226	18.86495	292.35428	200.87147	1.62970	0.0914897	3.1495112	73	3	1992–2000	0.53	M-v	2	Williams	38536	1998 WA ₁₇
1998 WG ₁₇	14.5	0.15	20000226	225.27039	118.32818	173.26727	0.39336	0.1506507	2.5742210	43	3	1992–2000	0.60	M-v	2	Williams	38798	1998 WG ₁₇

1998 WK ₁₇	12.5	0.15	20000226	326.89361	299.23654	244.81961	21.44284	0.1024128	3.1743461	52	4	1952-2000	0.70	M-v	2	Williams	38067	1998 WK ₁₇
1998 WZ ₁₇	13.4	0.15	20000226	26.80750	206.43421	285.66047	4.96777	0.1162189	3.0628694	51	2	1998-2000	0.78	M-v	3	Williams	38536	1998 WZ ₁₇
1998 WJ ₁₈	14.0	0.15	20000226	272.04263	344.72689	293.21421	4.50098	0.0995872	2.2483653	33	3	1994-2000	0.75	M-v	4	Williams	33766	1998 WJ ₁₈
1998 WJ ₁₉	14.4	0.15	20000226	269.28824	55.09214	206.40270	2.17751	0.1658203	2.4582620	46	3	1994-2000	0.48	M-v	4	Williams	38798	1998 WJ ₁₉
1998 WD ₂₀	12.8	0.15	20000226	85.69212	12.83936	54.44463	1.78518	0.1641923	3.1190633	42	3	1976-2000	0.57	M-v	4	Williams	33526	1998 WD ₂₀
1998 WT ₂₀	14.0	0.15	20000226	317.00923	30.02022	206.71015	4.23439	0.1356060	2.1989156	46	3	1991-2000	0.61	M-v	3	Williams	38798	1998 WT ₂₀
1998 WZ ₂₁	14.3	0.15	20000226	130.85434	226.82577	162.61780	0.99482	0.0193630	2.6552346	69	3	1993-2000	0.52	M-v	4	Williams	38798	1998 WZ ₂₁
1998 WX ₂₂	14.4	0.15	20000226	191.80659	95.66260	212.70339	2.10911	0.2150114	2.6792272	38	4	1992-2000	0.69	M-v	2	Williams	38798	1998 WX ₂₂
1998 WL ₂₃	13.8	0.15	20000226	62.10045	201.80856	246.13410	0.82735	0.0275623	2.9006308	76	2	1998-2000	0.59	M-v	3	Williams	38537	1998 WL ₂₃
1998 WF ₂₄	15.3	0.15	20000226	208.97624	65.34030	258.26488	2.46852	0.1124408	2.3211626	47	4	1987-2000	0.59	M-v	1	Williams	35727	1998 WF ₂₄
1998 WF ₂₈	16.8	0.15	19981123	36.68867	140.85085	219.48881	1.24836	0.2058843	2.3200721	12	1	9 days	0.28			Williams		1998 WF ₂₈
1998 WQ ₂₈	13.9	0.15	19981103	239.93431	120.93476	60.59193	24.53934	0.0838916	3.1252475	12	1	12 days	0.42			Williams		1998 WQ ₂₈
1998 WU ₃₀	13.2	0.15	20000226	88.39049	295.17221	120.33319	14.56952	0.0767083	3.0685646	55	2	1998-2000	0.58	M-v	3	Williams	38798	1998 WU ₃₀
1998 WY ₃₀	15.0	0.15	20000226	250.98098	288.51577	5.13953	6.09292	0.2038132	2.1969436	50	3	1991-2000	0.58	M-v	3	Williams	38798	1998 WY ₃₀
1998 WZ ₃₀	13.4	0.15	20000226	186.76589	21.54392	335.34506	9.17147	0.2176703	2.4222115	62	4	1989-2000	0.67	M-v	2	Williams	34598	1998 WZ ₃₀
1998 WE ₃₁	13.3	0.15	20000226	54.69011	297.89666	132.05400	19.74935	0.1185414	3.2320047	45	2	1998-2000	0.50	M-v	3	Williams	38798	1998 WE ₃₁
1998 XN	13.6	0.15	20000226	287.83980	283.12112	294.96373	9.23683	0.1027774	3.3680674	56	2	1998-2000	0.54	M-v	4	Williams	38798	1998 XN
1998 XY	14.8	0.15	19981123	28.08514	225.32355	149.40963	0.99304	0.1806215	3.0890695	12	1	15 days	0.37			Williams		1998 XY
1998 XL ₁	15.2	0.15	19981123	313.31081	264.34095	216.81625	3.61020	0.1736219	2.8411700	15	1	20 days	0.55			Williams		1998 XL ₁
1998 XR ₃	14.1	0.15	20000226	117.93049	122.53110	294.80421	2.71423	0.0699436	2.7295833	47	5	1979-2000	0.49	M-v	1	Williams	35727	1998 XR ₃
1998 XW ₃	11.9	0.15	20000226	26.81752	63.99111	64.68450	10.34406	0.0369141	3.0451558	69	3	1997-2000	0.52	M-v	2	Williams	38798	1998 XW ₃
1998 XB ₅	15.0	0.15	20000226	223.56926	146.74622	181.70218	5.76880	0.1644269	2.2569561	47	4	1984-2000	0.61	M-v	1	Williams	34032	1998 XB ₅
1998 XL ₅	12.1	0.15	20000226	183.28805	175.86857	142.79414	11.12795	0.0944207	2.9889400	92	2	1998-2000	0.57	M-v	3	Williams	38798	1998 XL ₅
1998 XM ₅	12.7	0.15	20000226	2.76633	6.17749	153.20850	13.93797	0.0887483	3.0914673	70	2	1998-2000	0.56	M-v	3	Williams	38798	1998 XM ₅
1998 XS ₅	15.9	0.15	19981123	328.87543	294.83621	162.20409	1.24217	0.1115654	2.4174047	18	1	33 days	0.24			Williams		1998 XS ₅
1998 XZ ₈	12.7	0.15	20000226	112.73156	78.42244	310.83922	16.96363	0.3207491	3.1040978	95	5	1979-2000	0.69	M-v	2	Williams	38798	1998 XZ ₈
1998 XK ₉	13.9	0.15	20000226	144.11191	285.22747	88.35646	6.82922	0.0754463	2.7693862	54	2	1998-2000	0.68	M-v	4	Williams	38538	1998 XK ₉
1998 XQ ₉	14.8	0.15	20000226	205.69506	96.14590	228.30246	4.19816	0.2581808	2.2549424	29	3	1997-2000	0.53	M-v	4	Williams	33713	1998 XQ ₉
1998 XQ ₁₂	12.4	0.15	20000226	253.34499	129.36747	126.28878	14.27695	0.1314726	3.0143932	82	3	1997-2000	0.48	M-v	3	Williams	38798	1998 XQ ₁₂
1998 XV ₁₂	13.5	0.15	20000226	57.94075	334.20692	112.32917	6.80891	0.1043673	3.3295212	70	3	1994-2000	0.68	M-v	3	Williams	38798	1998 XV ₁₂
1998 XK ₁₃	16.1	0.15	19981123	22.04994	308.89445	74.93038	3.81925	0.2011308	2.3712551	12	1	23 days	0.14			Williams		1998 XK ₁₃
1998 XY ₁₆	13.3	0.15	20000226	181.63275	194.03393	166.86394	5.49494	0.0583577	3.1023299	59	5	1991-2000	0.52	M-v	1	Williams	35728	1998 XY ₁₆
1998 XE ₁₇	12.5	0.15	20000226	78.44787	258.61829	171.34479	3.78634	0.0404638	3.1704640	80	3	1978-2000	0.42	M-v	4	Williams	38538	1998 XE ₁₇
1998 XN ₂₁	13.4	0.15	20000226	119.72053	288.57158	116.94579	2.70828	0.2106609	3.2133822	64	3	1991-2000	0.65	M-v	3	Williams	35728	1998 XN ₂₁
1998 XG ₂₅	15.9	0.15	20000226	112.27765	224.35945	173.38774	2.26926	0.0696839	2.8927890	25	4	1996-2000	0.34	M-v	1	Williams	35728	1998 XG ₂₅
1998 XH ₂₅	14.8	0.15	20000226	315.66944	126.91239	85.94970	6.65784	0.0861513	2.6930091	29	3	1996-2000	0.60	M-v	4	Williams	38538	1998 XH ₂₅
1998 XP ₂₇	13.5	0.15	20000226	225.75517	261.89143	44.51720	6.96895	0.1351000	2.3954244	72	4	1983-2000	0.59	M-v	2	Williams	38798	1998 XP ₂₇
1998 XS ₃₃	14.3	0.15	20000226	197.90930	314.32491	14.00127	2.65331	0.1769535	2.5169726	45	4	1992-2000	0.68	M-v	4	Williams	38539	1998 XS ₃₃
1998 XZ ₄₃	13.0	0.15	20000226	75.60797	34.08109	68.96627	13.61322	0.0818416	2.8804301	57	3	1949-2000	0.69	M-v	2	Williams	38799	1998 XZ ₄₃
1998 XX ₄₆	12.5	0.15	20000226	270.99842	358.91834	283.62752	12.47602	0.1626621	2.6111231	46	3	1970-2000	0.63	M-v	3	Williams	38799	1998 XX ₄₆
1998 XG ₄₈	12.5	0.15	20000226	149.53315	308.74502	67.20127	11.53388	0.1322809	2.9861638	41	6	1976-2000	0.75	M-v	2	Williams	38067	1998 XG ₄₈
1998 XV ₄₉	12.4	0.15	20000226	313.14713	196.98731	33.50651	12.45664	0.1094563	3.1588081	44	4	1990-2000	0.68	M-v	1	Williams	35728	1998 XV ₄₉
1998 XL ₅₀	14.1	0.15	20000226	156.74642	314.25330	76.00163	3.57294	0.0821537	2.7215093	23	3	1977-2000	0.78	M-v	5	Williams	33716	1998 XL ₅₀
1998 XB ₅₁	13.3	0.15	20000226	37.68534	198.11099	309.60389	8.74590	0.0392285	3.0145734	37	4	1990-2000	0.58	M-v	1	Williams	34934	1998 XB ₅₁
1998 XC ₅₁	12.9	0.15	20000226	330.74046	267.00892	302.15298	11.77267	0.0334093	3.1858138	33	3	1971-2000	0.66	M-v	3	Williams	38539	1998 XC ₅₁
1998 XN ₅₇	14.1	0.15	20000226	139.11433	240.33758	144.37539	2.84051	0.2118149	2.6748389	45	4	1989-2000	0.59	M-v	1	Williams	34033	1998 XN ₅₇
1998 XT ₆₂	12.4	0.15	20000226	4.54571	200.72004	333.77081	17.39810	0.0730103	3.1240815	65	3	1994-2000	0.73	M-v	3	Williams	38799	1998 XT ₆₂
1998 XW ₆₂	13.3	0.15	20000226	98.76739	55.28258	26.63307	18.27524	0.0798468	3.0066272	48	5	1974-2000	0.62	M-v	1	Williams	38067	1998 XW ₆₂
1998 XK ₆₃	14.9	0.15	20000226	193.55034	50.82318	293.29861	7.29149	0.2049612	2.2246275	34	3	1991-2000	0.64	M-v	3	Williams	36086	1998 XK ₆₃
1998 XK ₆₅	15.5	0.15	19981123	5.72904	44.94949	8.16511	2.10944	0.2050843	2.4377799	16	1	27 days	1.04			Williams		1998 XK ₆₅
1998 XS ₇₃	12.0	0.15	20000226	36.08518	174.33754	308.29298	7.68425	0.1539350	4.0040418	72	3	1996-2000	0.59	M-v	2	Williams	38799	1998 XS ₇₃
1998 XF ₇₇	14.7	0.15	20000226	124.21833	267.27845	144.39657	13.43335	0.1606823	2.7281040	22	3	1997-2000	0.67	M-v	4	Williams	33974	1998 XF ₇₇
1998 XO ₇₇	13.5	0.15	20000226	127.01319	295.57541	98.65921	13.48794	0.1636595	2.6322896	48	3	1997-2000	0.62	M-v	3	Williams	38799	1998 XO ₇₇

1998 XW ₈₂	12.6	0.15	20000226	109.46884	225.41562	179.38000	10.25676	0.1030505	2.9854672	56	3	1992–2000	0.61	M-v	4	Williams	38799	1998 XW ₈₂
1998 XF ₈₃	13.9	0.15	20000226	65.35821	285.83095	170.15865	10.16982	0.0838593	3.0596359	43	4	1995–2000	0.57	M-v	1	Williams	38799	1998 XF ₈₃
1998 XQ ₈₃	13.2	0.15	20000226	57.72921	298.55199	193.32132	11.99254	0.1288889	2.6781124	34	3	1993–2000	0.69	M-v	3	Williams	35728	1998 XQ ₈₃
1998 XO ₈₉	9.8	0.15	20000226	20.23288	208.55972	263.68196	19.52903	0.0362521	5.1582646	63	3	1997–2000	0.76	M-v	3	Williams	38799	1998 XO ₈₉
1998 XC ₉₂	12.8	0.15	20000226	117.10297	159.85847	257.73434	9.83144	0.0325888	3.0443131	28	2	1998–2000	0.69	M-v	4	Williams	37808	1998 XC ₉₂
1998 XF ₉₃	12.4	0.15	20000226	159.08299	89.67978	275.15388	8.20091	0.1082306	3.0527004	41	3	1997–2000	0.63	M-v	3	Williams	38539	1998 XF ₉₃
1998 YC ₁	13.1	0.15	20000226	15.76797	320.50238	194.53380	4.29752	0.0397995	3.1789359	78	2	1998–2000	0.50	M-v	3	Williams	38799	1998 YC ₁
1998 YK ₁	13.6	0.15	20000226	154.97982	259.54434	126.05020	3.60282	0.0657195	2.8746710	51	4	1981–2000	0.53	M-v	2	Williams	35640	1998 YK ₁
1998 YL ₁	12.7	0.15	20000226	264.89637	301.03138	320.44435	11.77371	0.1581780	2.6651950	128	2	1998–2000	0.75	M-v	3	Williams	38799	1998 YL ₁
1998 YY ₂	15.7	0.15	20000226	347.13242	34.51209	179.52978	3.16515	0.0426746	2.2265914	34	4	1991–2000	0.52	M-v	2	Williams	35729	1998 YY ₂
1998 YA ₃	14.2	0.15	20000226	150.33504	196.83036	183.24007	1.46194	0.0559895	2.7533985	43	3	1995–2000	0.72	M-v	5	Williams	35729	1998 YA ₃
1998 YD ₃	14.1	0.15	20000226	202.00948	316.95888	50.43845	3.16784	0.1374445	2.2868032	39	7	1982–2000	0.69	M-v	2	Williams	34313	1998 YD ₃
1998 YO ₃	14.8	0.15	20000226	218.45594	242.30682	94.73656	7.64537	0.1436649	2.3317218	45	3	1980–2000	0.63	M-v	3	Williams	34035	1998 YO ₃
1998 YT ₃	13.0	0.15	20000226	340.64219	59.95431	151.01421	2.53603	0.0155039	2.9015786	53	3	1977–2000	0.53	M-v	3	Williams	38067	1998 YT ₃
1998 YH ₄	14.4	0.15	20000226	264.23715	167.94889	119.60376	8.43331	0.1343095	2.2298398	36	3	1994–2000	0.51	M-v	3	Williams	38799	1998 YH ₄
1998 YE ₅	13.1	0.15	20000226	324.14015	154.15227	105.30579	2.75879	0.1929146	3.1628336	47	5	1983–2000	0.70	M-v	1	Williams	38799	1998 YE ₅
1998 YC ₆	13.0	0.15	20000226	272.16129	356.79882	251.61556	13.97158	0.1311057	2.7639187	73	2	1998–2000	0.62	M-v	3	Williams	38799	1998 YC ₆
1998 YU ₆	12.0	0.15	20000226	178.88678	54.17709	267.64208	13.24471	0.1016608	3.2106985	53	3	1992–2000	0.60	M-v	3	Williams	38799	1998 YU ₆
1998 YB ₇	13.0	0.15	20000226	112.81599	97.87319	296.06510	12.76388	0.2066961	2.6499866	76	3	1991–2000	0.67	M-v	2	Williams	38799	1998 YB ₇
1998 YG ₇	13.1	0.15	20000226	9.68380	229.39939	321.07155	9.94944	0.0552785	3.0551051	40	3	1996–2000	0.79	M-v	3	Williams	34036	1998 YG ₇
1998 YM ₇	13.8	0.15	20000226	166.54439	27.23049	331.26869	13.82414	0.2224846	2.5322681	40	2	1998–2000	0.65	M-v	4	Williams	38539	1998 YM ₇
1998 YC ₈	13.1	0.15	20000226	146.58078	87.34576	281.15965	11.68648	0.2258680	2.5804092	84	3	1985–2000	0.63	M-v	3	Marsden	38799	1998 YC ₈
1998 YL ₈	13.0	0.15	20000226	167.47191	277.14875	94.96339	12.17361	0.2522606	2.5187001	90	3	1991–2000	0.57	M-v	3	Williams	38067	1998 YL ₈
1998 YR ₈	13.3	0.15	20000226	15.34880	345.50261	142.17042	13.27029	0.0303731	3.1263851	75	2	1998–2000	0.47	M-v	3	Williams	38799	1998 YR ₈
1998 YS ₈	14.6	0.15	20000226	116.45789	246.31641	158.62312	14.40810	0.0840464	2.6425147	30	3	1993–2000	0.54	M-v	3	Williams	35729	1998 YS ₈
1998 YT ₈	13.6	0.15	20000226	131.68649	267.98142	105.75184	3.34810	0.0987838	2.9089833	84	4	1996–2000	0.60	M-v	1	Williams	38539	1998 YT ₈
1998 YV ₈	14.1	0.15	20000226	135.92082	153.36780	215.03026	3.07560	0.1657024	2.8107146	45	3	1993–2000	0.56	M-v	4	Williams	35729	1998 YV ₈
1998 YD ₁₀	13.6	0.15	20000226	124.98402	319.83803	92.62394	3.28644	0.0843644	2.9083790	47	4	1950–2000	0.67	M-v	3	Williams	38067	1998 YD ₁₀
1998 YE ₁₀	12.5	0.15	20000226	228.91976	214.81700	95.19209	17.74242	0.2108887	2.7274723	44	2	1998–2000	0.68	M-v	4	Williams	38799	1998 YE ₁₀
1998 YV ₁₁	13.8	0.15	20000226	269.62841	215.87877	77.99755	9.03266	0.3417954	2.2867378	38	4	1983–2000	0.71	M-v	2	Williams	38799	1998 YV ₁₁
1998 YW ₁₁	13.2	0.15	20000226	313.66792	273.65844	310.72947	8.33220	0.0845255	3.2219399	29	3	1996–2000	0.59	M-v	4	Williams	38540	1998 YW ₁₁
1998 YF ₁₂	12.7	0.15	20000226	260.97053	203.58514	95.91464	11.10317	0.0821890	3.0089511	54	3	1997–2000	0.59	M-v	3	Williams	38799	1998 YF ₁₂
1998 YP ₁₂	12.7	0.15	20000226	192.20064	57.59776	300.48083	1.84082	0.0868495	3.0032648	68	5	1986–2000	0.64	M-v	1	Williams	35729	1998 YP ₁₂
1998 YE ₁₄	16.4	0.15	19981123	43.91659	215.55729	138.61032	2.99820	0.2307826	2.3436434	20	1	34 days	0.51		D	Williams		1998 YE ₁₄
1998 YU ₁₄	15.7	0.15	19981123	256.21051	19.80115	153.55370	3.58358	0.0546239	2.3133712	13	1	34 days	0.84			Williams		1998 YU ₁₄
1998 YW ₁₈	16.4	0.15	19981123	358.97269	250.37221	173.26859	2.24404	0.1646359	2.4769550	14	1	35 days	0.45			Williams		1998 YW ₁₈
1998 YJ ₂₂	13.8	0.15	20000226	100.47557	302.07472	161.64283	5.77498	0.0159889	2.7348862	54	5	1992–2000	0.73	M-v	1	Williams	35730	1998 YJ ₂₂
1998 YN ₂₂	13.4	0.15	20000226	80.24387	349.05604	136.59687	9.93173	0.0386458	2.7242243	41	4	1992–2000	0.76	M-v	1	Williams	35080	1998 YN ₂₂
1998 YU ₂₇	12.9	0.15	20000226	209.89912	52.18881	290.14243	11.10693	0.2774705	2.6602358	35	4	1975–2000	0.84	M-v	2	Williams	34037	1998 YU ₂₇
1998 YH ₃₀	14.2	0.15	19990102	31.08907	343.32936	119.73945	23.06534	0.0651846	2.6562919	21	1	56 days	0.63		D	Williams		1998 YH ₃₀
1999 AA	12.7	0.15	20000226	172.76556	348.49110	350.59678	10.23686	0.0939350	2.9935377	75	4	1987–2000	0.52	M-v	1	Williams	38540	1999 AA
1999 AD	14.1	0.15	20000226	130.26576	237.28265	190.95103	3.67362	0.1043561	2.2651697	29	4	1972–2000	0.71	M-v	2	Williams	35730	1999 AD
1999 AS	13.5	0.15	20000226	220.44462	284.23446	54.04008	4.78589	0.1444385	2.6272903	23	3	1996–2000	0.80	M-v	3	Williams	34314	1999 AS
1999 AL ₂	12.5	0.15	20000226	138.93339	75.63676	332.18761	8.96272	0.0971281	3.0183744	55	5	1955–2000	0.79	M-v	2	Williams	34936	1999 AL ₂
1999 AC ₃	14.2	0.15	20000226	200.81600	212.13906	132.43110	14.79167	0.2018829	2.6455091	45	4	1984–2000	0.49	M-v	1	Williams	36541	1999 AC ₃
1999 AK ₃	13.5	0.15	20000226	75.78671	176.05452	243.71198	13.50631	0.1640782	2.7522861	47	3	1991–2000	0.71	M-v	2	Williams	38799	1999 AK ₃
1999 AC ₄	13.8	0.15	20000226	26.84259	148.73582	25.33569	1.91835	0.1701290	3.1615090	35	5	1991–2000	0.52	M-v	1	Williams	35730	1999 AC ₄
1999 AC ₆	13.5	0.15	20000226	134.13436	271.20595	97.96482	17.20476	0.3175619	2.6214929	37	3	1995–2000	0.69	M-v	3	Williams	36086	1999 AC ₆
1999 AM ₆	13.3	0.15	20000226	131.06925	80.07434	323.40111	5.63381	0.0446953	2.3677597	32	4	1992–2000	0.70	M-v	3	Williams	38799	1999 AM ₆
1999 AC ₁₀	12.4	0.15	20000226	249.87066	34.61116	278.91974	8.98039	0.0904365	2.9817514	35	5	1991–2000	0.64	M-v	1	Williams	35730	1999 AC ₁₀
1999 AL ₂₁	14.7	0.15	20000226	220.40688	197.58499	147.85478	3.14047	0.1978192	2.4346923	23	3	1982–2000	0.66	M-v	3	Williams	35731	1999 AL ₂₁
1999 AF ₂₄	12.9	0.15	20000226	7.35194	80.66679	115.42935	11.51321	0.1168311	2.6435273	58	4	1955–2000	0.82	M-v	1	Williams	38068	1999 AF ₂₄
1999 AJ ₂₄	13.4	0.15	20000226	211.15314	30.36246	302.96908	13.38645	0.1537082	3.1127117	26	3	1996–2000	0.53	M-v	4	Williams	35731	1999 AJ ₂₄

1999 AL ₂₄	14.6	0.15	20000226	103.13984	288.82432	148.65588	27.57381	0.2073144	2.5866137	11	3	1991–2000	0.51	M-v	3	Williams	33981	1999 AL ₂₄
1999 BO ₁	13.0	0.15	20000226	304.17380	173.68359	108.23231	9.11563	0.1852786	2.5686927	62	5	1992–2000	0.66	M-v	1	Williams	38799	1999 BO ₁
1999 BN ₅	14.1	0.15	20000226	133.83694	210.20360	141.19829	5.97877	0.3415591	2.6646678	61	2	1998–2000	0.58	M-v	3	Williams	38542	1999 BN ₅
1999 BP ₉	13.7	0.15	20000226	326.58088	119.09600	135.63031	9.89427	0.2625552	2.7628061	24	3	1991–2000	0.68	M-v	3	Williams	34231	1999 BP ₉
1999 BN ₁₂	13.1	0.15	20000226	123.70652	49.50199	35.72858	6.26804	0.1804339	2.5291389	70	6	1953–2000	0.66	M-v	2	Williams	38543	1999 BN ₁₂
1999 BZ ₂₀	13.8	0.15	19981213	101.81661	236.91816	107.11462	11.45247	0.1922375	2.6684796	15	1	55 days	0.65			Williams		1999 BZ ₂₀
1999 BP ₂₅	13.6	0.15	20000226	274.07213	134.60331	165.25165	3.65548	0.0811490	2.6668438	34	6	1982–2000	0.62	M-v	1	Williams	35443	1999 BP ₂₅
1999 BY ₂₅	12.6	0.15	20000226	214.73213	7.69228	333.02848	15.90607	0.0603636	3.1426866	44	5	1977–2000	0.61	M-v	1	Williams	38799	1999 BY ₂₅
1999 CX ₁	13.0	0.15	20000226	220.84346	245.80443	120.95476	16.08211	0.1910781	2.5723571	36	5	1988–2000	0.48	M-v	2	Williams	34938	1999 CX ₁
1999 CL ₃	12.5	0.15	20000226	148.11643	311.19286	112.34917	10.99692	0.0603029	3.0418139	43	4	1980–2000	0.61	M-v	3	Williams	34938	1999 CL ₃
1999 CA ₄	12.2	0.15	20000226	295.25315	278.73842	17.19520	10.13509	0.1027390	3.0171547	39	4	1991–2000	0.62	M-v	2	Williams	35732	1999 CA ₄
1999 CF ₄	14.4	0.15	20000226	114.11273	275.86821	156.01072	12.86628	0.0678737	2.5978648	27	3	1993–2000	0.55	M-v	3	Williams	35732	1999 CF ₄
1999 CC ₅	12.6	0.15	20000226	299.83568	180.25628	108.98886	15.98218	0.1735528	2.5805928	59	5	1950–2000	0.64	M-v	2	Williams	38544	1999 CC ₅
1999 CG ₁₇	12.5	0.15	20000226	0.16505	86.93033	116.03738	11.46672	0.0489210	3.0175865	61	4	1995–2000	0.69	M-v	1	Williams	38799	1999 CG ₁₇
1999 CS ₁₉	12.9	0.15	20000226	242.88336	6.25408	314.33669	9.75778	0.0677004	2.9998931	46	7	1986–2000	0.65	M-v	1	Williams	38799	1999 CS ₁₉
1999 CJ ₃₅	13.0	0.15	20000226	247.59711	323.35059	1.23120	10.38165	0.0946204	3.0049850	31	4	1991–2000	0.55	M-v	1	Williams	34242	1999 CJ ₃₅
1999 CB ₄₃	13.1	0.15	20000226	309.42294	190.17747	91.53069	1.96804	0.1437762	3.0923573	34	6	1974–2000	0.71	M-v	1	Williams	34543	1999 CB ₄₃
1999 CZ ₆₁	13.3	0.15	20000226	74.53006	306.26673	180.95783	11.43810	0.0707710	3.1198050	40	4	1994–2000	0.90	M-v	1	Williams	34940	1999 CZ ₆₁
1999 CG ₆₂	12.0	0.15	20000226	272.55203	121.33234	177.60420	16.63113	0.0190488	2.9440102	33	2	1999–2000	0.49	M-v	4	Williams	38799	1999 CG ₆₂
1999 CC ₆₃	13.0	0.15	20000226	340.46596	13.91964	225.92051	5.05594	0.1365253	3.1771171	32	4	1994–2000	0.74	M-v	1	Williams	34546	1999 CC ₆₃
1999 CJ ₇₈	13.0	0.15	20000226	165.06211	200.67009	189.82819	7.84225	0.2090567	3.1819344	23	4	1979–2000	0.59	M-v	2	Williams	34941	1999 CJ ₇₈
1999 CY ₈₂	13.5	0.15	20000226	123.37882	51.63895	357.76598	8.44991	0.1651066	3.1066887	38	3	1994–2000	0.68	M-v	4	Williams	35733	1999 CY ₈₂
1999 CA ₉₇	13.4	0.15	20000226	276.03486	146.50716	162.98327	2.10370	0.0821695	2.9662864	40	5	1976–2000	0.77	M-v	1	Williams	35734	1999 CA ₉₇
1999 CM ₁₃₆	13.8	0.15	20000226	295.57696	317.96290	305.61036	7.27446	0.0817118	3.2269346	24	4	1996–2000	0.61	M-v	2	Williams	38546	1999 CM ₁₃₆
1999 CM ₁₃₈	15.6	0.15	20000226	15.00195	68.40933	81.32484	2.71139	0.0546978	2.7322103	11	1	86 days	0.57	M-v	6	Williams		1999 CM ₁₃₈
1999 CT ₁₄₇	15.3	0.15	20000226	107.96067	316.61237	59.96504	2.05541	0.1746662	3.1717151	12	1	87 days	0.34	M-v	5	Williams		1999 CT ₁₄₇
1999 DC	11.9	0.15	20000226	96.30953	252.52379	196.41220	5.73575	0.1214664	3.9925541	40	6	1972–2000	0.67	M-v	1	Williams	38068	1999 DC
1999 GJ ₄	15.2	0.15	20000226	69.87208	211.79437	148.37030	34.58054	0.8079856	1.3386457	172	5	1955–2000	0.64	M-v	3	Williams	38800	1999 GJ ₄
1999 HU ₁₁	7.0	0.15	19990502	0.06796	148.56074	55.61074	0.32218	0.0000000	43.8176106	13	1	39 days	0.15		E	Marsden		1999 HU ₁₁
1999 HJ ₁₂	7.3	0.15	19990502	0.00000	97.35805	122.34702	4.54459	0.0000000	44.0366358	12	1	49 days	0.36		E	Marsden		1999 HJ ₁₂
1999 LD ₃₁	13.5	0.15	20000226	0.82597	102.18788	296.98427	160.19362	0.9026335	24.4194889	258	2	1999–2000	0.52	M-v	0	Williams	38800	1999 LD ₃₁
1999 LE ₃₁	12.4	0.15	20000226	18.04719	32.65269	292.02513	151.88167	0.4720200	8.1625140	99	2	1999–2000	0.61	M-v	3	Williams	36088	1999 LE ₃₁
1999 NC ₅	16.5	0.15	20000226	351.39595	295.17751	128.95259	45.74535	0.3939948	2.0295192	46	2	1983–2000	0.54	M-v	3	Williams	38069	1999 NC ₅
1999 NJ ₃₁	15.4	0.15	20000226	70.23042	275.96483	7.44128	2.24358	0.1925653	2.3973690	15	1	23 days	1.66	M-v	6	Williams		1999 NJ ₃₁
1999 NC ₄₃	15.9	0.15	20000226	17.20465	120.27489	312.03934	7.11419	0.5795967	1.7593826	145	2	1999–2000	0.47	M-v	3	Williams	38801	1999 NC ₄₃
1999 NG ₆₁	15.3	0.15	20000226	72.61050	96.73821	188.69796	7.20083	0.1811795	2.2574035	19	1	79 days	0.58	M-v	4 D	Williams		1999 NG ₆₁
1999 OW ₃	14.6	0.15	20000226	132.73677	35.00042	196.84177	35.46042	0.7796568	2.0897181	67	1	232 days	0.46	M-v	4	Williams	38070	1999 OW ₃
1999 RE ₂	14.7	0.15	20000226	25.76687	215.84870	192.47474	8.47025	0.2443061	2.3781657	72	1	181 days	0.55	M-v	3	Williams	38801	1999 RE ₂
1999 RL ₃	12.8	0.15	20000226	0.49126	69.73822	36.21884	15.39655	0.0785053	2.5867815	52	1	173 days	0.38	M-v	3	Williams	38801	1999 RL ₃
1999 RX ₃	15.4	0.15	19990830	310.97915	91.24516	300.10414	8.90012	0.1549267	2.5779001	21	1	10 days	0.57		D	Williams		1999 RX ₃
1999 RU ₈	17.2	0.15	19990830	30.78649	127.85053	166.67939	8.05802	0.2284985	2.2647169	16	1	10 days	0.29		D	Williams		1999 RU ₈
1999 RV ₁₀	14.2	0.15	19990830	303.35472	86.51768	318.52307	16.90033	0.1409457	3.0591964	13	1	7 days	0.55		D	Nakano		1999 RV ₁₀
1999 RF ₁₂	15.5	0.15	19990830	8.39513	357.81126	328.16817	5.98701	0.1923617	2.5074823	22	1	7 days	0.34		D	Nakano		1999 RF ₁₂
1999 RS ₂₀	16.0	0.15	19990830	16.29956	51.34703	266.36049	1.73418	0.3068648	2.6084667	53	1	2 days	0.47		E	Williams		1999 RS ₂₀
1999 RH ₂₇	16.8	0.15	20000226	14.47203	95.36580	343.90154	4.39667	0.5766015	2.8840438	617	1	184 days	0.49	M-v	3	Williams	38801	1999 RH ₂₇
1999 RW ₂₇	12.9	0.15	20000226	18.49907	41.75104	21.69753	14.06167	0.2855995	2.6066956	72	2	1978–2000	0.48	M-v	2	Williams	38072	1999 RW ₂₇
1999 RM ₂₈	16.6	0.15	20000226	11.68226	301.69948	136.19236	30.53038	0.3241164	1.8169940	47	1	194 days	0.50	M-v	4	Williams	38801	1999 RM ₂₈
1999 RC ₃₂	18.2	0.15	20000226	34.50253	82.67888	352.51539	30.96848	0.4319030	1.8390166	136	1	186 days	0.56	M-v	3	Williams	38801	1999 RC ₃₂
1999 RT ₃₅	15.3	0.15	20000226	66.11214	325.54226	6.80384	8.21723	0.1390725	2.3690356	72	3	1994–2000	0.58	M-v	2	Williams	38074	1999 RT ₃₅
1999 RN ₃₆	13.3	0.15	20000226	52.99000	152.74737	217.14169	12.85144	0.1883853	2.5716424	91	2	1998–2000	0.57	M-v	3	Williams	38802	1999 RN ₃₆
1999 RJ ₇₉	16.4	0.15	19990830	16.95413	311.49245	9.80452	5.50726	0.0946639	2.6690999	11	1	6 days	0.50			Williams		1999 RJ ₇₉
1999 RY ₉₀	16.3	0.15	20000226	44.62049	352.43424	11.40334	6.52721	0.2760404	2.2298070	34	1	86 days	0.43	M-v	4	Williams		1999 RY ₉₀
1999 RA ₂₁₆	7.1	0.15	19991009	0.00000	161.01881	191.77650	0.80202	0.0000000	43.4884787	10	1	62 days	0.32		E	Marsden		1999 RA ₂₁₆

2000 MAR. 20

M.P.C. 39551

1999 RB ₂₁₆	7.3	0.15	19991009	334.58358	231.66051	175.68996	13.04297	0.3544127	48.4801863	11	1	62 days	0.68	E	Marsden	1999 RB ₂₁₆
1999 RC ₂₁₆	7.3	0.15	19991009	180.14907	344.28641	190.53760	0.58829	0.0806812	44.4027676	10	1	62 days	0.36	E	Marsden	1999 RC ₂₁₆
1999 SP ₃	14.6	0.15	20000226	38.71588	99.88880	295.71829	26.67762	0.4081695	2.6456004	57	1	162 days	0.49	M-v	3	Williams 38806 1999 SP ₃
1999 SY ₅	13.8	0.15	20000226	34.58501	272.36667	130.55732	23.23507	0.3203119	2.3276802	40	1	157 days	0.46	M-v	3	Williams 38806 1999 SY ₅
1999 SK ₁₀	19.4	0.15	20000226	22.97199	268.83348	198.08677	6.95901	0.4407598	1.7632500	90	1	167 days	0.43	M-v	4	Williams 38806 1999 SK ₁₀
1999 TU ₄	14.5	0.15	20000226	75.72446	297.63406	17.74550	15.90148	0.1926179	2.6309083	46	1	89 days	0.37	M-v	4	Williams 1999 TU ₄
1999 TB ₅	18.7	0.15	20000226	25.39703	238.55914	195.78484	30.45611	0.3927663	1.9675970	95	1	153 days	0.47	M-v	3	Williams 38806 1999 TB ₅
1999 TC ₅	18.5	0.15	20000226	15.50113	282.54286	192.61525	29.09396	0.5476644	2.0156587	59	1	163 days	0.50	M-v	3	Williams 38807 1999 TC ₅
1999 TV ₅	13.7	0.15	20000226	62.75032	136.86988	221.97277	11.22135	0.2079303	2.5749740	95	3	1974–2000	0.55	M-v	2	Williams 38807 1999 TV ₅
1999 TC ₉	14.6	0.15	20000226	43.06617	358.64294	11.22568	3.88277	0.1814516	2.5807655	84	1	126 days	0.46	M-v	3	Marsden 38086 1999 TC ₉
1999 TR ₉	15.0	0.15	20000226	28.71867	22.26319	19.10695	2.55230	0.2464365	2.3441384	91	3	1981–2000	0.50	M-v	2	Williams 38807 1999 TR ₉
1999 TX ₉	13.7	0.15	20000226	39.54344	12.89521	50.11049	26.40724	0.2760864	2.3142380	64	1	160 days	0.51	M-v	3	Williams 38807 1999 TX ₉
1999 TB ₁₀	18.0	0.15	20000226	338.08378	137.24416	2.01071	15.95257	0.2313475	1.3630306	50	1	144 days	0.46	M-v	4	Marsden 1999 TB ₁₀
1999 TD ₁₁	14.9	0.15	20000226	37.31487	77.26756	351.94203	1.94662	0.2988710	2.5587229	70	2	1992–2000	0.52	M-v	3	Williams 38807 1999 TD ₁₁
1999 TP ₁₁	14.5	0.15	20000226	33.21547	330.58854	71.11636	7.31821	0.0951641	2.2516721	71	1	173 days	0.43	M-v	3	Williams 38087 1999 TP ₁₁
1999 TK ₁₂	17.9	0.15	20000226	9.18372	111.98347	359.24747	24.48052	0.3931178	1.6829484	85	1	143 days	0.64	M-v	4	Marsden 38808 1999 TK ₁₂
1999 TN ₁₂	17.3	0.15	20000226	68.16490	150.16083	212.44596	37.25464	0.3915708	1.8862422	54	1	157 days	0.56	M-v	4	Williams 38087 1999 TN ₁₂
1999 TZ ₁₂	13.6	0.15	20000226	68.39113	274.25139	81.46243	4.69495	0.1900257	2.2517483	100	3	1992–2000	0.46	M-v	2	Williams 38808 1999 TZ ₁₂
1999 TY ₁₅	13.9	0.15	20000226	14.91971	203.60429	199.65886	5.69933	0.1453181	2.5648745	71	1	224 days	0.58	M-v	3	Williams 38088 1999 TY ₁₅
1999 TY ₁₆	16.2	0.15	20000226	52.08477	156.81429	241.97843	60.43901	0.4053977	2.0975780	72	1	143 days	0.61	M-v	4	Williams 38088 1999 TY ₁₆
1999 TJ ₁₈	13.2	0.15	20000226	15.11051	195.93413	224.58130	10.82316	0.0499185	3.0459067	75	2	1998–2000	0.52	M-v	3	Williams 38089 1999 TJ ₁₈
1999 TY ₁₈	14.5	0.15	20000226	4.15186	229.71306	215.86854	1.37607	0.1832489	2.3870946	105	5	1982–2000	0.44	M-v	1	Williams 38808 1999 TY ₁₈
1999 TS ₂₁	15.3	0.15	20000226	37.10385	333.09305	50.11522	18.52940	0.2107479	3.1551634	32	1	67 days	0.48	M-v	4	Williams 1999 TS ₂₁
1999 TS ₂₅	17.0	0.15	19991009	2.12875	4.81614	16.74303	7.11690	0.1669561	2.3868725	29	1	45 days	0.46			Williams 1999 TS ₂₅
1999 TW ₂₆	15.1	0.15	19991009	54.27816	300.51106	17.87442	5.81059	0.1869174	3.0387300	31	1	44 days	0.59			Williams 1999 TW ₂₆
1999 TR ₂₇	14.6	0.15	20000226	12.32375	24.71084	32.39820	6.27445	0.1998391	3.1211829	42	1	95 days	0.46	M-v	4	Williams 1999 TR ₂₇
1999 TW ₂₇	14.7	0.15	20000226	35.55344	111.43612	293.67095	1.30048	0.2071167	2.3968354	69	1	153 days	0.50	M-v	3	Williams 38809 1999 TW ₂₇
1999 UY ₁	14.1	0.15	20000226	89.87688	121.37551	218.10990	7.58355	0.1089051	2.2797767	104	3	1994–2000	0.48	M-v	2	Williams 38092 1999 UY ₁
1999 UP ₃	13.6	0.15	20000226	22.15054	3.36859	52.94289	4.82295	0.1425968	2.7093807	96	3	1972–2000	0.48	M-v	2	Williams 38810 1999 UP ₃
1999 US ₃	13.7	0.15	20000226	15.90642	181.42226	268.32483	28.99322	0.5196075	2.7589747	405	2	1994–2000	0.44	M-v	0	Williams 38810 1999 US ₃
1999 UC ₄	15.4	0.15	20000226	76.12174	287.47260	33.92864	8.36810	0.1545199	2.4828269	49	3	1991–1999	0.51	M-v	3	Williams 38810 1999 UC ₄
1999 UW ₄	16.4	0.15	20000226	35.56966	2.72493	346.07680	2.93011	0.2511836	2.2180385	20	1	111 days	0.26	M-v	6 D	Nakano 1999 UW ₄
1999 UU ₅	16.6	0.15	19991009	47.67304	314.75391	2.57470	3.92979	0.2416280	2.3867683	25	1	44 days	0.79			Williams 1999 UU ₅
1999 UN ₇	14.8	0.15	19991009	300.20111	236.39532	208.75896	8.66732	0.0631003	3.1649851	22	1	42 days	0.48			Williams 1999 UN ₇
1999 UX ₇	14.9	0.15	20000226	212.36663	173.63751	49.81989	7.01039	0.0619504	2.3821673	60	1	99 days	0.52	M-v	4	Marsden 1999 UX ₇
1999 UQ ₁₀	13.9	0.15	20000226	122.21634	298.91656	38.05996	25.37164	0.1444329	1.8363612	35	1	117 days	0.59	M-v	4	Williams 38811 1999 UQ ₁₀
1999 UG ₁₁	13.6	0.15	20000226	17.53759	133.82373	319.40389	24.01666	0.3407292	3.1728672	60	2	1998–2000	0.64	M-v	3	Williams 38811 1999 UG ₁₁
1999 UO ₁₃	14.0	0.15	19991009	12.35361	143.82257	215.27812	6.58420	0.0243578	3.0452411	35	1	59 days	0.53			Williams 1999 UO ₁₃
1999 UU ₁₃	14.2	0.15	20000226	284.40850	265.47835	236.19867	4.43813	0.1351004	2.2945335	47	1	137 days	0.58	M-v	4	Williams 1999 UU ₁₃
1999 UM ₂₃	15.9	0.15	20000226	18.15399	184.69077	215.62324	20.17251	0.3643983	2.6818667	40	1	65 days	0.59	M-v	4	Williams 1999 UM ₂₃
1999 US ₂₅	17.0	0.15	19991118	25.60872	338.20044	29.04461	4.81434	0.2814784	2.5351698	31	1	40 days	0.49			Williams 1999 US ₂₅
1999 UN ₃₅	14.4	0.15	20000226	14.15222	283.10254	141.18174	10.43286	0.1631484	2.5975031	39	1	126 days	0.50	M-v	3	Williams 38098 1999 UN ₃₅
1999 UP ₃₅	15.5	0.15	20000226	131.26226	60.78906	228.57636	6.23670	0.1165968	2.3829251	34	2	1998–1999	0.62	M-v	4	Williams 38569 1999 UP ₃₅
1999 UA ₃₈	17.0	0.15	19991029	27.38264	320.83070	31.31033	7.76599	0.2710523	2.5335458	25	1	31 days	0.58			Williams 1999 UA ₃₈
1999 VJ	14.1	0.15	20000226	76.46522	333.88567	54.65214	15.74425	0.1330233	2.6291126	52	3	1990–2000	0.58	M-v	3	Williams 38813 1999 VJ
1999 VR	13.9	0.15	20000226	48.50804	326.76502	44.07982	1.76318	0.2211849	3.0882416	76	1	123 days	0.56	M-v	4	Williams 38813 1999 VR
1999 VZ	13.3	0.15	20000226	322.50184	100.40454	54.13746	23.28080	0.2717301	2.3372980	104	2	1992–2000	0.47	M-v	3	Williams 38813 1999 VZ
1999 VT ₁	12.9	0.15	20000226	37.30649	194.53970	204.84810	9.95799	0.0425508	3.0038775	64	3	1995–2000	0.57	M-v	2	Williams 38098 1999 VT ₁
1999 VC ₂	14.4	0.15	20000226	287.96486	116.43443	64.79793	7.46155	0.1698363	2.3108609	66	1	128 days	0.49	M-v	4	Williams 38813 1999 VC ₂
1999 VH ₂	14.2	0.15	20000226	33.91825	75.79528	320.54532	2.74898	0.1691674	2.5922724	66	1	122 days	0.59	M-v	4	Williams 38813 1999 VH ₂
1999 VO ₂	13.3	0.15	20000226	68.37888	276.90745	115.98519	27.55347	0.3250493	2.6740172	68	3	1990–2000	0.49	M-v	1	Williams 38813 1999 VO ₂
1999 VX ₂	14.3	0.15	20000226	40.54899	142.57276	264.49386	6.17878	0.0892624	2.2887357	80	1	151 days	0.58	M-v	3	Williams 38813 1999 VX ₂
1999 VY ₂	13.6	0.15	20000226	42.72673	120.86341	272.15920	7.84066	0.1706150	2.8117485	68	2	1998–2000	0.59	M-v	3	Williams 38813 1999 VY ₂

1999 VZ ₅	13.2	0.15	20000226	21.71995	340.44614	80.59958	11.82685	0.0887879	2.9955974	52	1	121 days	0.59	M-v	3	Williams	38813	1999 VZ ₅
1999 VA ₆	14.5	0.15	20000226	3.41714	223.82251	229.92856	12.53476	0.2238269	2.7299715	59	2	1990–2000	0.57	M-v	3	Williams	38813	1999 VA ₆
1999 VB ₆	14.9	0.15	20000226	53.25664	275.73057	110.10474	1.93752	0.1949075	2.3255445	71	4	1981–2000	0.60	M-v	2	Williams	38813	1999 VB ₆
1999 VD ₆	13.8	0.15	20000226	31.28678	302.53674	104.52682	2.02321	0.1783881	3.0909615	68	3	1995–2000	0.54	M-v	2	Williams	38813	1999 VD ₆
1999 VJ ₆	14.3	0.15	20000226	15.92101	6.35713	74.17781	5.34973	0.1045470	2.2848630	68	1	121 days	0.42	M-v	3	Williams	38814	1999 VJ ₆
1999 VK ₆	12.6	0.15	20000226	94.23425	101.44453	239.93613	13.56856	0.1012040	2.9964546	86	3	1992–2000	0.59	M-v	2	Williams	38100	1999 VK ₆
1999 VN ₆	19.5	0.15	20000226	21.55616	43.39270	58.18557	19.49690	0.3700989	1.7334738	149	1	113 days	0.55	M-v	4	Williams	38100	1999 VN ₆
1999 VS ₆	18.9	0.15	20000226	21.13832	89.25384	35.38020	27.97262	0.2230804	1.1978129	99	1	116 days	0.55	M-v	3	Marsden	38100	1999 VS ₆
1999 VS ₇	13.9	0.15	20000226	318.83524	265.66080	226.97132	13.87355	0.1038502	2.6287618	82	4	1973–2000	0.68	M-v	1	Williams	38100	1999 VS ₇
1999 VB ₈	15.3	0.15	20000226	15.21031	292.12427	151.80394	2.28199	0.1831731	2.3899128	67	3	1995–2000	0.57	M-v	2	Williams	38814	1999 VB ₈
1999 VF ₈	13.1	0.15	20000226	40.44112	321.42122	92.89266	12.14260	0.2370948	3.1119821	67	1	123 days	0.46	M-v	3	Williams	38814	1999 VF ₈
1999 VH ₈	12.6	0.15	20000226	292.05783	93.42628	118.67186	10.87968	0.0438213	2.9827212	88	1	120 days	0.50	M-v	4	Williams	38814	1999 VH ₈
1999 VJ ₈	12.8	0.15	20000226	106.42192	77.45859	292.75972	12.19823	0.2152358	2.6520396	116	2	1998–2000	0.56	M-v	3	Williams	38814	1999 VJ ₈
1999 VO ₈	14.7	0.15	20000226	3.09363	251.73300	193.89586	5.89948	0.1140982	2.3895586	59	1	127 days	0.47	M-v	4	Williams	38101	1999 VO ₈
1999 VT ₈	13.5	0.15	20000226	36.25010	264.62120	128.41057	14.87433	0.2529229	3.1281239	51	3	1988–2000	0.66	M-v	2	Williams	38814	1999 VT ₈
1999 VA ₉	12.6	0.15	20000226	4.91924	255.26362	176.85690	15.49842	0.3064614	2.6469356	40	1	145 days	0.41	M-v	3	Williams	38814	1999 VA ₉
1999 VE ₉	14.5	0.15	20000226	39.94930	350.91692	97.29302	1.32853	0.2154762	2.4330167	88	2	1976–2000	0.46	M-v	3	Williams	38814	1999 VE ₉
1999 VR ₉	13.8	0.15	20000226	45.37917	307.51280	101.21725	6.75728	0.2762142	2.5579096	74	4	1962–2000	0.56	M-v	2	Williams	38814	1999 VR ₉
1999 VZ ₉	13.5	0.15	20000226	325.46933	196.91811	285.48396	7.28897	0.0986161	2.2730388	72	4	1980–2000	0.59	M-v	1	Williams	38101	1999 VZ ₉
1999 VH ₁₀	13.2	0.15	20000226	265.22164	69.33161	124.21867	2.12007	0.0889724	2.7989647	74	4	1989–2000	0.62	M-v	2	Williams	38814	1999 VH ₁₀
1999 VL ₁₀	14.3	0.15	20000226	72.24196	134.66379	221.56062	8.26917	0.2553387	2.3174032	72	2	1998–2000	0.65	M-v	4	Williams	38814	1999 VL ₁₀
1999 VM ₁₀	14.2	0.15	20000226	7.49997	9.05775	85.43740	8.40598	0.2856350	2.6332545	74	2	1996–2000	0.52	M-v	3	Williams	38814	1999 VM ₁₀
1999 VQ ₁₀	10.0	0.15	20000226	2.45628	183.24980	258.69264	8.44502	0.0396724	5.1782591	77	2	1998–2000	0.46	M-v	3	Williams	38814	1999 VQ ₁₀
1999 VS ₁₀	13.5	0.15	20000226	42.11557	300.87960	107.81928	7.45426	0.1034164	2.3588520	58	1	121 days	0.55	M-v	3	Williams	38814	1999 VS ₁₀
1999 VW ₁₀	13.7	0.15	20000226	289.60475	69.20144	113.22902	8.44546	0.1288787	2.2378848	63	2	1998–2000	0.55	M-v	3	Williams	38814	1999 VW ₁₀
1999 VG ₁₁	14.1	0.15	20000226	212.19643	157.32157	71.09118	7.14128	0.0697938	2.3737833	76	2	1998–2000	0.61	M-v	3	Williams	38814	1999 VG ₁₁
1999 VQ ₁₁	17.5	0.15	20000226	24.46370	352.98418	26.95755	7.94073	0.5953544	2.8096048	93	1	110 days	0.55	M-v	4	Williams	38814	1999 VQ ₁₁
1999 VD ₁₂	13.5	0.15	20000226	7.58442	182.57531	241.87158	13.89367	0.2048582	3.1618055	83	1	152 days	0.53	M-v	3	Williams	38815	1999 VD ₁₂
1999 VP ₁₂	14.2	0.15	20000226	15.23518	266.65680	164.42681	3.52176	0.1411797	2.5179307	52	2	1991–2000	0.52	M-v	3	Williams	38815	1999 VP ₁₂
1999 VQ ₁₂	12.6	0.15	20000226	274.14018	321.42656	218.16743	11.91374	0.1080230	2.6679585	74	4	1988–2000	0.56	M-v	1	Williams	38815	1999 VQ ₁₂
1999 VR ₁₂	12.0	0.15	20000226	83.74812	265.63551	77.25821	10.81111	0.1068827	3.0193160	80	2	1978–2000	0.52	M-v	4	Williams	38815	1999 VR ₁₂
1999 VV ₁₂	11.3	0.15	20000226	261.81616	114.15168	73.77508	21.52755	0.0961890	3.1497261	79	2	1988–2000	0.54	M-v	3	Williams	38815	1999 VV ₁₂
1999 VJ ₁₄	14.1	0.15	20000226	9.97666	59.02096	56.49340	23.13189	0.2400052	2.3238691	37	1	115 days	0.55	M-v	3	Williams	38815	1999 VJ ₁₄
1999 VC ₁₉	14.8	0.15	20000226	203.89863	355.78167	259.81020	6.13033	0.0864166	2.2830448	60	1	114 days	0.67	M-v	4	Williams		1999 VC ₁₉
1999 VS ₁₉	13.2	0.15	20000226	21.84299	184.68188	230.55228	11.56509	0.1460308	3.1366715	72	1	142 days	0.48	M-v	3	Williams	38815	1999 VS ₁₉
1999 VA ₂₀	15.2	0.15	20000226	154.50718	210.84279	55.85312	14.36460	0.1485857	2.6315363	28	1	96 days	0.67	M-v	5	Marsden		1999 VA ₂₀
1999 VR ₂₀	13.3	0.15	20000226	203.28160	15.06537	223.05590	14.24672	0.0705711	2.5961257	90	3	1978–2000	0.55	M-v	3	Williams	38104	1999 VR ₂₀
1999 VU ₂₀	14.1	0.15	20000226	308.01403	106.80911	48.24830	4.09342	0.0818469	2.2501914	73	4	1982–2000	0.59	M-v	2	Williams	38815	1999 VU ₂₀
1999 VB ₂₁	14.2	0.15	20000226	325.63298	62.50839	84.82649	7.98599	0.1385195	2.3368087	85	1	121 days	0.57	M-v	4	Williams	38815	1999 VB ₂₁
1999 VK ₂₁	14.0	0.15	20000226	29.26487	150.27644	327.13423	5.53416	0.1770130	2.5312885	89	2	1998–2000	0.57	M-v	3	Williams	38815	1999 VK ₂₁
1999 VN ₂₁	14.1	0.15	20000226	19.36141	4.53142	48.44005	5.83238	0.1624174	2.6333826	104	2	1969–2000	0.54	M-v	2	Williams	37830	1999 VN ₂₁
1999 VP ₂₂	15.2	0.15	20000226	23.97593	82.89481	326.82191	3.33295	0.2498955	2.3080863	70	2	1994–2000	0.52	M-v	2	Williams	38105	1999 VP ₂₂
1999 VE ₂₃	12.8	0.15	20000226	30.30256	330.02487	64.81806	9.83275	0.2018165	2.5874014	68	2	1978–2000	0.40	M-v	2	Williams	38816	1999 VE ₂₃
1999 VL ₂₃	14.8	0.15	20000226	15.85446	211.05199	222.20738	23.59925	0.2643194	2.2636214	76	1	187 days	0.47	M-v	3	Williams	38105	1999 VL ₂₃
1999 VR ₂₃	14.3	0.15	20000226	67.41265	275.94695	71.43147	6.68593	0.2081710	2.4462131	95	2	1998–2000	0.58	M-v	3	Williams	38816	1999 VR ₂₃
1999 VV ₂₃	13.0	0.15	20000226	336.36753	304.31674	176.48949	9.45560	0.1760568	2.4322836	65	4	1989–2000	0.56	M-v	1	Williams	38816	1999 VV ₂₃
1999 VW ₂₃	12.9	0.15	20000226	42.76009	218.79027	170.03627	9.48815	0.1708173	2.7797113	69	4	1971–2000	0.52	M-v	1	Williams	38816	1999 VW ₂₃
1999 VX ₂₃	14.9	0.15	20000226	36.51345	130.85598	274.05545	6.26748	0.1892654	2.5830326	47	1	116 days	0.61	M-v	4	Williams	38816	1999 VX ₂₃
1999 VN ₂₄	13.3	0.15	20000226	2.93602	286.32525	176.50221	22.97050	0.2945297	2.3165160	54	1	176 days	0.44	M-v	3	Williams	38816	1999 VN ₂₄
1999 VO ₂₄	13.1	0.15	20000226	28.57701	167.20707	228.86534	11.30267	0.1878693	2.6731835	97	3	1964–2000	0.56	M-v	2	Williams	38816	1999 VO ₂₄
1999 VT ₂₄	14.4	0.15	20000226	50.09108	268.02753	126.36829	2.77525	0.1870126	2.4166350	75	2	1995–2000	0.42	M-v	4	Williams	38816	1999 VT ₂₄
1999 VV ₂₄	14.4	0.15	20000226	81.81208	98.88051	252.60311	9.40098	0.2365190	2.2799355	49	1	113 days	0.45	M-v	4	Williams	38816	1999 VV ₂₄
1999 VW ₂₄	11.6	0.15	20000226	302.81538	258.48758	258.60698	19.63773	0.0675700	3.1545411	73	3	1992–2000	0.63	M-v	3	Williams	38816	1999 VW ₂₄

2000 MAR. 20

M.P.C. 39553

1999 VX ₂₄	14.7	0.15	20000226	43.80594	193.08700	211.59816	3.74347	0.2095999	2.2972080	66	4	1978–2000	0.58	M-v	3	Williams	38816	1999 VX ₂₄
1999 VY ₂₄	13.9	0.15	20000226	307.37544	197.79071	328.66545	3.13308	0.1469671	2.5641562	65	4	1972–2000	0.75	M-v	3	Williams	38816	1999 VY ₂₄
1999 VZ ₂₄	13.5	0.15	20000226	6.46564	15.60168	77.16053	10.42229	0.1347280	2.7560445	61	1	122 days	0.71	M-v	3	Williams	38816	1999 VZ ₂₄
1999 VG ₂₅	13.9	0.15	20000226	23.72406	41.14456	35.09422	3.94031	0.0717429	2.3783481	61	4	1973–2000	0.64	M-v	2	Williams	38571	1999 VG ₂₅
1999 VF ₂₈	14.1	0.15	20000226	13.67375	196.77260	235.65633	5.12855	0.1468912	2.3364496	109	1	149 days	0.42	M-v	3	Williams	38816	1999 VF ₂₈
1999 VP ₂₈	14.9	0.15	20000226	359.70283	202.47514	248.97999	1.58329	0.1571610	2.3868595	74	3	1993–2000	0.55	M-v	2	Williams	38817	1999 VP ₂₈
1999 VR ₂₈	17.0	0.15	19991118	46.02801	100.14889	242.23888	1.92335	0.2555687	2.3867459	32	1	34 days	0.61			Williams		1999 VR ₂₈
1999 VQ ₃₀	14.5	0.15	20000226	11.63464	195.25376	237.25736	14.31907	0.1143734	2.8518164	63	1	151 days	0.67	M-v	3	Williams	38108	1999 VQ ₃₀
1999 VC ₃₁	13.6	0.15	20000226	19.27437	195.07224	235.70787	3.83966	0.1243931	2.3668483	72	2	1977–2000	0.51	M-v	3	Williams	38817	1999 VC ₃₁
1999 VB ₃₂	16.2	0.15	19991029	81.34277	269.79729	44.70075	3.84786	0.1261252	2.3396955	16	1	13 days	0.62			Williams		1999 VB ₃₂
1999 VM ₃₄	13.5	0.15	20000226	343.46209	228.34083	248.30312	12.55463	0.1275238	2.5869025	73	2	1998–2000	0.53	M-v	3	Williams	38817	1999 VM ₃₄
1999 VO ₃₄	14.1	0.15	20000226	52.63442	136.80443	247.87094	11.12087	0.1620936	2.6793799	53	1	123 days	0.45	M-v	4	Williams	38817	1999 VO ₃₄
1999 VP ₃₄	13.3	0.15	20000226	52.55196	139.22523	248.97491	11.80049	0.1143604	2.7400361	54	1	123 days	0.51	M-v	4	Williams	38817	1999 VP ₃₄
1999 VW ₃₄	13.9	0.15	20000226	37.48662	133.42062	263.91907	2.42288	0.2173279	2.9679668	69	3	1989–2000	0.56	M-v	2	Williams	38573	1999 VW ₃₄
1999 VZ ₃₄	14.5	0.15	20000226	197.55704	190.83192	65.65432	4.21332	0.0733401	2.1396851	72	2	1998–2000	0.59	M-v	3	Williams	38817	1999 VZ ₃₄
1999 VU ₃₅	14.0	0.15	20000226	30.61848	337.92649	78.56278	2.00697	0.1393369	2.5576232	78	3	1984–2000	0.55	M-v	2	Williams	38817	1999 VU ₃₅
1999 VD ₃₆	13.8	0.15	20000226	0.19852	208.12495	247.54376	13.29752	0.0978177	2.5952873	81	1	152 days	0.41	M-v	3	Williams	38817	1999 VD ₃₆
1999 VG ₃₆	14.6	0.15	20000226	25.35057	178.89754	248.17560	6.07111	0.1633457	2.4463561	67	2	1979–2000	0.47	M-v	3	Williams	38817	1999 VG ₃₆
1999 VP ₃₆	13.0	0.15	20000226	318.74472	55.99743	83.23127	2.13156	0.1084521	3.1734615	74	3	1996–2000	0.68	M-v	3	Williams	38817	1999 VP ₃₆
1999 VM ₃₇	13.7	0.15	20000226	113.84969	87.84469	241.34854	8.83172	0.1064789	2.4844183	66	1	123 days	0.39	M-v	4	Williams	38817	1999 VM ₃₇
1999 VY ₃₇	13.3	0.15	20000226	291.50775	89.40230	78.00557	5.88435	0.1419313	3.0402965	46	3	1996–2000	0.59	M-v	3	Williams	38817	1999 VY ₃₇
1999 VZ ₃₈	14.6	0.15	20000226	57.20357	139.05502	239.62730	2.41330	0.1691097	2.3317606	61	1	126 days	0.48	M-v	4	Williams	38818	1999 VZ ₃₈
1999 VL ₄₀	14.4	0.15	20000226	6.57397	246.70605	265.50799	19.91005	0.3077593	2.2833889	60	1	149 days	0.52	M-v	4	Williams	38818	1999 VL ₄₀
1999 VV ₄₃	14.2	0.15	20000226	61.14914	287.26495	29.55188	13.63870	0.2855899	3.1822167	34	1	64 days	0.48	M-v	5	Williams		1999 VV ₄₃
1999 VC ₄₄	16.8	0.15	19991029	15.01145	142.55213	229.28096	4.80223	0.1595916	2.2898510	22	1	13 days	0.47			Williams		1999 VC ₄₄
1999 VJ ₄₄	16.4	0.15	19991029	358.77229	171.50652	222.45611	17.31177	0.1934397	2.6357194	29	1	13 days	0.52			Williams		1999 VJ ₄₄
1999 VM ₄₄	15.4	0.15	19991029	12.97079	127.28968	253.39871	4.29582	0.0380227	2.7237993	27	1	13 days	0.83			Williams		1999 VM ₄₄
1999 VE ₄₅	16.3	0.15	19991029	290.62067	221.24628	247.93253	5.70010	0.0729490	2.3247410	27	1	12 days	0.53			Williams		1999 VE ₄₅
1999 VN ₄₆	17.2	0.15	19991029	28.16523	130.08256	234.67576	19.69240	0.1636344	1.8975147	24	1	13 days	0.54			Williams		1999 VN ₄₆
1999 VN ₄₈	15.1	0.15	20000226	55.68418	116.07102	236.85942	9.82547	0.2196642	2.6964518	49	1	125 days	0.47	M-v	4	Williams		1999 VN ₄₈
1999 VQ ₄₉	15.5	0.15	19991029	93.45774	240.92799	41.44794	8.81268	0.2834629	2.3729666	30	1	51 days	0.61			Williams		1999 VQ ₄₉
1999 VU ₄₉	16.6	0.15	19991118	28.95668	323.81136	40.35841	6.84337	0.2536679	2.5378436	28	1	37 days	0.39			Williams		1999 VU ₄₉
1999 VE ₅₀	14.9	0.15	20000226	334.96794	173.48859	306.42354	2.25991	0.0991573	2.1616221	63	2	1992–2000	0.48	M-v	3	Williams	38114	1999 VE ₅₀
1999 VM ₅₀	16.6	0.15	19991118	12.76257	80.91017	315.28906	1.34772	0.2156213	2.3609274	22	1	34 days	0.60			Williams		1999 VM ₅₀
1999 VO ₅₀	13.1	0.15	20000226	358.28952	71.09200	9.12902	1.96364	0.0347598	2.9081227	115	2	1998–2000	0.54	M-v	3	Williams	38818	1999 VO ₅₀
1999 VB ₅₂	15.3	0.15	19991029	114.32568	41.21717	243.36255	7.61664	0.1015623	2.7661595	24	1	13 days	1.20			Williams		1999 VB ₅₂
1999 VL ₅₂	14.8	0.15	19991029	39.11202	73.25117	289.40307	2.70007	0.1846086	2.6958914	20	1	13 days	0.89			Williams		1999 VL ₅₂
1999 VO ₅₂	14.1	0.15	20000226	68.30856	294.22617	72.70166	11.72761	0.1957859	2.5670347	40	1	122 days	0.57	M-v	4	Williams	38818	1999 VO ₅₂
1999 VX ₅₂	14.4	0.15	20000226	338.93087	255.64900	246.28228	5.25067	0.1092028	2.2793368	37	1	123 days	0.42	M-v	4	Williams	38819	1999 VX ₅₂
1999 VY ₅₂	13.4	0.15	20000226	20.83686	185.54025	253.76075	13.47624	0.3753698	2.7757306	57	2	1976–2000	0.29	M-v	2	Williams	38819	1999 VY ₅₂
1999 VH ₅₃	14.1	0.15	20000226	288.16467	98.47302	78.49687	6.94349	0.0676757	2.4401360	45	2	1982–2000	0.69	M-v	5	Williams	38115	1999 VH ₅₃
1999 VP ₅₄	17.3	0.15	19991118	347.47906	218.84997	201.50461	1.38170	0.1398526	2.1877353	20	1	8 days	0.59		D	Nakano		1999 VP ₅₄
1999 VE ₆₃	16.4	0.15	20000226	55.79090	313.55605	47.17647	5.20780	0.2524931	2.3972091	30	1	66 days	0.58	M-v	5	Williams		1999 VE ₆₃
1999 VF ₆₅	16.1	0.15	20000226	16.31235	1.08856	63.36313	0.87828	0.2282908	2.5334118	44	1	93 days	0.56	M-v	4	Marsden	38119	1999 VF ₆₅
1999 VZ ₆₅	14.5	0.15	20000226	325.48447	269.21998	212.53174	5.16091	0.0711016	2.2421232	85	1	146 days	0.53	M-v	4	Williams	38119	1999 VZ ₆₅
1999 VY ₇₁	13.3	0.15	20000226	17.44624	310.79367	153.90993	12.75950	0.1063711	2.6503050	69	2	1998–2000	0.46	M-v	3	Williams	38820	1999 VY ₇₁
1999 VK ₇₂	14.7	0.15	20000226	351.67824	32.52786	114.59319	4.38593	0.1427674	2.4353062	65	1	105 days	0.48	M-v	4	Williams	38820	1999 VK ₇₂
1999 VM ₇₂	13.3	0.15	20000226	152.45710	240.02693	109.82180	7.23469	0.1760447	2.4409571	69	1	118 days	0.57	M-v	4	Williams	38820	1999 VM ₇₂
1999 VX ₇₂	15.3	0.15	20000226	77.71347	311.81313	22.93804	5.42127	0.2613741	2.4702934	33	3	1991–1999	0.63	M-v	4	Williams	38577	1999 VX ₇₂
1999 VY ₇₂	13.0	0.15	20000226	51.87556	253.56765	111.32293	22.24841	0.3104709	2.3632334	60	3	1992–2000	0.67	M-v	2	Williams	38820	1999 VY ₇₂
1999 VL ₇₇	17.3	0.15	19991118	18.93973	14.96096	9.40539	2.59274	0.1999659	2.3809425	39	1	35 days	0.71			Williams		1999 VL ₇₇
1999 VQ ₇₇	15.8	0.15	19991118	56.42821	36.18140	313.40944	1.90051	0.1129343	2.4230168	33	1	35 days	0.50			Williams		1999 VQ ₇₇
1999 VR ₇₇	16.1	0.15	19991118	242.61115	224.90486	307.04955	2.38021	0.0664526	2.2469656	36	1	40 days	0.61			Williams		1999 VR ₇₇

1999 VS ₇₇	15.8	0.15	19991029	30.19852	82.06863	286.70849	2.45059	0.1314739	3.0013648	21	1	13 days	0.49		Williams	1999 VS ₇₇
1999 VU ₇₇	14.1	0.15	20000226	26.74152	350.68542	35.44864	7.88348	0.2955935	3.9871366	36	1	63 days	0.70	M-v 5	Williams	1999 VU ₇₇
1999 VW ₇₇	17.5	0.15	19991118	13.28145	4.77298	30.25821	3.39783	0.2187470	2.3302150	29	1	40 days	0.70		Williams	1999 VW ₇₇
1999 VB ₇₉	13.9	0.15	19991029	71.44614	291.25404	33.11471	8.11628	0.0150631	3.1447381	31	1	18 days	0.55		Williams	1999 VB ₇₉
1999 VD ₇₉	15.0	0.15	19991029	331.18666	153.34451	280.25916	2.49233	0.1013222	2.6664301	18	1	12 days	0.48		Williams	1999 VD ₇₉
1999 VE ₇₉	15.5	0.15	19991029	207.28562	314.12316	239.58086	5.23629	0.0470211	2.3798427	19	1	12 days	0.68		Williams	1999 VE ₇₉
1999 VG ₇₉	17.0	0.15	19991029	19.58875	72.67920	295.37436	1.47170	0.2092371	2.3885308	36	1	18 days	0.57		Williams	1999 VG ₇₉
1999 VK ₇₉	16.4	0.15	19991029	351.53327	209.37389	201.19620	2.81203	0.1936975	2.7250835	16	1	8 days	0.63		D Williams	1999 VK ₇₉
1999 VS ₇₉	15.9	0.15	19991029	323.78543	126.64749	312.74164	1.97376	0.0571193	2.5389844	31	1	18 days	0.67		Williams	1999 VS ₇₉
1999 VE ₈₀	16.9	0.15	19991029	23.42506	328.14869	38.44462	9.38555	0.1455698	2.2468439	36	1	27 days	0.53		Williams	1999 VE ₈₀
1999 VU ₈₀	16.3	0.15	19991029	67.07789	292.44596	31.99118	9.81547	0.1068765	2.6050446	19	1	12 days	0.65		Williams	1999 VU ₈₀
1999 VD ₈₁	13.7	0.15	20000226	23.58080	291.23688	130.86244	3.94424	0.1732841	2.8815786	40	1	121 days	0.47	M-v 3	Williams	38821 1999 VD ₈₁
1999 VC ₈₂	17.4	0.15	19991009	336.09440	26.41353	34.17679	15.58157	0.2591224	2.6406558	20	1	44 days	0.49		Williams	1999 VC ₈₂
1999 VP ₈₂	13.2	0.15	20000226	25.57630	290.84478	115.93098	10.01825	0.0950708	3.0768986	43	1	125 days	0.61	M-v 3	Williams	38123 1999 VP ₈₂
1999 VG ₈₅	16.9	0.15	19991029	152.05715	24.08844	223.98197	6.34394	0.1011411	2.3146494	17	1	11 days	0.57		Williams	1999 VG ₈₅
1999 VR ₈₅	15.1	0.15	19991009	25.05778	23.63401	337.10621	1.47461	0.1291599	3.0757722	26	1	41 days	0.52		Williams	1999 VR ₈₅
1999 VS ₈₅	16.8	0.15	19991029	328.29617	103.16629	337.15989	2.24910	0.1414198	2.3605219	27	1	18 days	0.50		Williams	1999 VS ₈₅
1999 VT ₈₅	14.2	0.15	20000226	131.91635	22.00152	262.09865	3.02700	0.0713939	2.7998448	35	2	1998–1999	0.57	M-v 5	Williams	38578 1999 VT ₈₅
1999 VX ₈₅	16.2	0.15	20000226	123.54612	38.93580	252.77641	1.70475	0.1799978	2.1322049	27	3	1996–1999	0.64	M-v 4	Williams	38578 1999 VX ₈₅
1999 VY ₈₅	16.2	0.15	19991029	346.26517	28.93276	26.77707	5.05957	0.1330820	2.3752792	20	1	12 days	0.58		Williams	1999 VY ₈₅
1999 VA ₈₆	16.5	0.15	20000226	68.51499	309.78997	30.35922	5.65790	0.2531287	2.3412490	38	1	69 days	0.53	M-v 5	Williams	1999 VA ₈₆
1999 VB ₈₆	15.4	0.15	19991029	345.80506	73.66290	342.26991	1.73821	0.1011671	2.9514233	23	1	12 days	0.57		Williams	1999 VB ₈₆
1999 VD ₈₆	16.9	0.15	19991029	10.37353	32.65151	347.35395	1.77870	0.2524056	2.2380514	23	1	12 days	0.39		Williams	1999 VD ₈₆
1999 VE ₈₆	16.0	0.15	19991029	289.21002	114.85129	10.48212	2.59337	0.1439612	2.3806439	30	1	59 days	0.73		Williams	1999 VE ₈₆
1999 VH ₈₇	14.7	0.15	20000226	65.85213	315.88880	122.66540	24.28663	0.0905415	1.9271971	55	1	130 days	0.56	M-v 3	Williams	38822 1999 VH ₈₇
1999 VM ₈₇	14.2	0.15	20000226	36.24799	133.62529	253.24349	4.75016	0.0589057	2.7480534	48	1	93 days	0.44	M-v 3	Williams	1999 VM ₈₇
1999 VT ₈₇	13.4	0.15	20000226	72.61913	229.19242	121.11712	11.01898	0.1235536	3.0478663	39	1	125 days	0.64	M-v 4	Williams	38123 1999 VT ₈₇
1999 VC ₈₈	14.9	0.15	19991029	356.07730	6.15273	59.22174	14.96417	0.0762691	2.7204990	17	1	13 days	0.49		Williams	1999 VC ₈₈
1999 VL ₈₈	16.2	0.15	19991118	5.54917	354.23484	47.60525	15.06246	0.3085215	3.1396875	29	1	37 days	0.40		Williams	1999 VL ₈₈
1999 VS ₈₈	15.2	0.15	19991029	301.02701	247.89332	228.88351	10.57339	0.1497527	3.1551136	17	1	13 days	0.29		Williams	1999 VS ₈₈
1999 VV ₈₈	16.6	0.15	19991029	10.09745	130.28295	260.01191	0.85144	0.0637918	2.8850257	15	1	13 days	0.59		Williams	1999 VV ₈₈
1999 VW ₈₈	15.4	0.15	19991118	358.72067	21.08341	26.75614	1.99949	0.0559474	2.8476961	32	1	33 days	0.64		Williams	1999 VW ₈₈
1999 VX ₈₈	16.5	0.15	19991029	46.44438	297.56614	39.92102	7.18395	0.1790298	2.4222277	23	1	12 days	0.49		Williams	1999 VX ₈₈
1999 VB ₈₉	17.2	0.15	19991029	9.45916	342.20705	47.02436	10.57992	0.2096858	2.5640107	22	1	15 days	0.48		Williams	1999 VB ₈₉
1999 VN ₉₀	16.6	0.15	19991029	8.03437	343.65913	36.47536	2.01136	0.1424911	2.2439198	28	1	27 days	0.49		Williams	1999 VN ₉₀
1999 VU ₉₀	14.7	0.15	20000226	15.31444	7.81984	40.45670	5.09822	0.1475698	2.6063286	43	1	96 days	0.55	M-v 4	Williams	1999 VU ₉₀
1999 VC ₉₆	15.9	0.15	19991029	31.84088	307.28580	40.48425	6.00999	0.1899976	2.5642847	29	1	45 days	0.53		Williams	1999 VC ₉₆
1999 VH ₉₆	14.4	0.15	20000226	3.81294	201.11731	217.12297	4.80767	0.1439991	3.2051136	24	1	77 days	0.61	M-v 5	Williams	1999 VH ₉₆
1999 VX ₁₀₀	17.1	0.15	19991118	23.20412	113.43522	264.95652	0.22784	0.2010163	2.4409220	19	1	25 days	0.43		Williams	1999 VX ₁₀₀
1999 VT ₁₀₁	18.0	0.15	19991029	8.04876	333.00205	58.12558	2.29169	0.2838825	2.6069089	18	1	8 days	0.99		Williams	1999 VT ₁₀₁
1999 VU ₁₀₁	14.5	0.15	19991029	200.52364	345.36892	232.59013	8.33733	0.2110867	2.6727106	28	1	8 days	0.58		Williams	1999 VU ₁₀₁
1999 VM ₁₀₃	17.3	0.15	19991029	12.91765	96.88541	287.06854	0.53100	0.2130827	2.2822408	16	1	12 days	0.59		Williams	1999 VM ₁₀₃
1999 VU ₁₀₃	18.3	0.15	19991029	24.19886	308.61051	59.74383	0.83149	0.2192005	2.2741572	22	1	8 days	0.67		Williams	1999 VU ₁₀₃
1999 VX ₁₀₃	15.5	0.15	19991029	225.27794	329.64956	233.79877	8.66510	0.2728428	2.4122937	21	1	8 days	0.64		Williams	1999 VX ₁₀₃
1999 VZ ₁₀₃	16.3	0.15	19991029	43.53758	290.35946	59.48944	4.98826	0.1877653	3.1865178	16	1	8 days	0.66		Williams	1999 VZ ₁₀₃
1999 VE ₁₀₄	18.1	0.15	19991029	346.10171	38.30235	26.15475	0.55729	0.1221771	2.0926286	20	1	8 days	0.55		Williams	1999 VE ₁₀₄
1999 VF ₁₀₄	16.5	0.15	19991029	293.31089	259.46777	232.50742	7.01510	0.1456307	2.3518000	27	1	8 days	0.49		Williams	1999 VF ₁₀₄
1999 VH ₁₀₄	15.3	0.15	19991029	68.75920	276.96920	52.97563	8.67710	0.0976587	2.3833631	22	1	7 days	0.50		E Williams	1999 VH ₁₀₄
1999 VJ ₁₀₄	16.7	0.15	19991029	54.56972	288.84805	49.00231	4.10352	0.1626217	2.3559502	20	1	7 days	0.52		E Williams	1999 VJ ₁₀₄
1999 VK ₁₀₄	17.6	0.15	19991118	357.21709	183.90844	234.94515	7.23326	0.0803932	2.2604280	18	1	28 days	0.48		Williams	1999 VK ₁₀₄
1999 VX ₁₀₄	16.8	0.15	19991029	140.96510	195.36127	61.73631	3.28421	0.2125002	2.4173879	15	1	8 days	0.55		Williams	1999 VX ₁₀₄
1999 VY ₁₀₄	16.1	0.15	19991029	302.88170	58.80161	54.10034	14.21121	0.0542235	2.8676563	17	1	8 days	0.55		Williams	1999 VY ₁₀₄
1999 VJ ₁₀₅	15.7	0.15	19991029	98.45644	64.26132	246.02718	1.91472	0.0330384	2.8941157	17	1	7 days	0.50		E Williams	1999 VJ ₁₀₅

2000 MAR. 20

M.P.C. 39555

1999 VE ₁₀₆	13.9	0.15	19991029	193.59642	170.98023	54.92688	11.53433	0.1756328	3.1088109	18	1	7 days	0.63	E	Williams	1999 VE ₁₀₆	
1999 VJ ₁₀₆	16.2	0.15	19991029	23.08778	328.08298	53.73807	9.13244	0.1516552	3.0782507	17	1	7 days	0.58	E	Williams	1999 VJ ₁₀₆	
1999 VP ₁₀₆	15.1	0.15	20000226	183.74500	31.97356	223.04013	1.84692	0.1733889	2.3599523	43	4	1995–1999	0.68	M-v	2	Williams	38578 1999 VP ₁₀₆
1999 VW ₁₀₇	14.1	0.15	19991118	277.50231	86.06576	64.36427	4.96770	0.0566659	3.1568732	20	1	29 days	0.53	D	Nakano	1999 VW ₁₀₇	
1999 VZ ₁₀₈	16.0	0.15	19991118	1.18047	2.51340	57.91415	10.15835	0.1219599	2.8382522	17	1	26 days	0.56		Williams	1999 VZ ₁₀₈	
1999 VP ₁₀₉	16.3	0.15	19991118	339.64944	197.13305	253.80140	0.59304	0.1462961	2.3845760	19	1	29 days	0.42	D	Nakano	1999 VP ₁₀₉	
1999 VN ₁₁₃	15.7	0.15	20000226	89.40128	7.28872	317.38561	1.61195	0.2342401	2.3470172	36	1	63 days	0.53	M-v	5	Williams	1999 VN ₁₁₃
1999 VO ₁₁₃	14.2	0.15	19991118	226.26050	148.41426	42.97612	7.05509	0.0525959	3.2184438	30	1	39 days	0.42		Williams	1999 VO ₁₁₃	
1999 VP ₁₁₃	15.9	0.15	20000226	205.97085	283.48015	314.81260	1.02066	0.0960643	2.1351756	35	2	1998–1999	0.66	M-v	5	Williams	38579 1999 VP ₁₁₃
1999 VR ₁₁₃	16.2	0.15	20000226	68.61083	40.18671	318.01612	2.89808	0.2019156	2.2246720	31	1	64 days	0.50	M-v	5	Williams	1999 VR ₁₁₃
1999 VU ₁₁₃	15.0	0.15	19991029	15.98724	101.34139	294.83279	4.05989	0.0533800	2.7509371	18	1	13 days	0.36		Williams	1999 VU ₁₁₃	
1999 VN ₁₁₉	16.0	0.15	19991009	43.74053	20.20747	304.00137	1.87038	0.1913880	2.3885225	27	1	45 days	0.45		Williams	1999 VN ₁₁₉	
1999 VU ₁₁₉	16.1	0.15	19991009	32.19250	0.45572	334.82359	1.79417	0.2297689	2.3553648	37	1	45 days	0.44		Williams	1999 VU ₁₁₉	
1999 VE ₁₂₃	15.5	0.15	19991118	23.19912	303.59016	82.79176	3.02769	0.1074411	2.9887640	14	1	11 days	0.24	D	Nakano	1999 VE ₁₂₃	
1999 VS ₁₂₉	17.1	0.15	19991029	322.88360	81.77991	18.29403	3.42587	0.2994507	2.3505786	20	1	5 days	0.42	E	Williams	1999 VS ₁₂₉	
1999 VA ₁₃₁	14.9	0.15	19991029	271.90899	264.48522	230.97885	8.73570	0.0329113	3.1453052	17	1	12 days	0.63		Williams	1999 VA ₁₃₁	
1999 VW ₁₃₃	15.4	0.15	19991029	0.95477	162.99952	238.49875	4.75483	0.0356907	2.7286812	31	1	18 days	0.54		Williams	1999 VW ₁₃₃	
1999 VX ₁₃₃	15.7	0.15	19991029	295.65046	243.66125	234.88281	5.72943	0.1087887	2.5775950	29	1	12 days	0.55		Williams	1999 VX ₁₃₃	
1999 VD ₁₃₄	17.0	0.15	19991029	335.09680	198.61154	234.04247	5.38123	0.1041649	2.3781922	19	1	6 days	0.93	E	Williams	1999 VD ₁₃₄	
1999 VP ₁₃₅	16.2	0.15	19991029	334.48350	212.93982	230.11986	6.17614	0.2824323	2.7218996	17	1	12 days	0.42		Williams	1999 VP ₁₃₅	
1999 VQ ₁₃₅	15.7	0.15	19991029	323.93482	189.35712	250.50127	5.49070	0.0736330	2.9237947	20	1	18 days	0.91		Williams	1999 VQ ₁₃₅	
1999 VR ₁₃₅	15.9	0.15	20000226	9.69174	179.11911	246.90296	4.60455	0.1194643	2.4019490	39	1	65 days	0.61	M-v	5	Williams	1999 VR ₁₃₅
1999 VB ₁₃₇	15.2	0.15	19991029	220.73917	325.40485	231.15191	10.29395	0.0868062	3.0373220	15	1	8 days	0.68		Williams	1999 VB ₁₃₇	
1999 VC ₁₃₇	15.6	0.15	19991029	268.84049	89.19428	55.97417	10.32970	0.0261885	3.1041310	16	1	8 days	0.61		Williams	1999 VC ₁₃₇	
1999 VJ ₁₃₇	16.3	0.15	19991029	347.62971	17.45100	51.13437	2.98970	0.2246063	2.7814886	14	1	7 days	0.67	E	Williams	1999 VJ ₁₃₇	
1999 VZ ₁₃₇	15.6	0.15	19991029	271.29321	73.91086	63.29219	7.86033	0.0316174	2.5685147	15	1	3 days	0.74	E	Williams	1999 VZ ₁₃₇	
1999 VG ₁₃₉	14.0	0.15	20000226	229.61670	299.01515	246.42854	5.23724	0.0694208	3.1940748	35	3	1996–1999	0.39	M-v	3	Williams	38580 1999 VG ₁₃₉
1999 VK ₁₄₀	16.7	0.15	19991029	19.85872	120.12303	239.98407	2.61778	0.2662685	2.6168813	21	1	12 days	0.33		Williams	1999 VK ₁₄₀	
1999 VP ₁₄₃	16.5	0.15	19991118	36.67082	56.27228	297.43616	2.02655	0.2031150	2.2400553	33	1	31 days	0.42		Williams	1999 VP ₁₄₃	
1999 VS ₁₄₃	16.9	0.15	19991029	359.39600	145.24569	255.15026	4.08070	0.2303723	2.3695134	25	1	13 days	0.49		Williams	1999 VS ₁₄₃	
1999 VV ₁₄₃	16.9	0.15	19991029	347.78821	33.83358	25.44937	6.13335	0.1953346	2.6626320	18	1	5 days	0.68	E	Williams	1999 VV ₁₄₃	
1999 VX ₁₄₃	15.7	0.15	19991029	44.99809	107.87710	238.90119	6.97120	0.1104266	2.7009926	23	1	12 days	0.66		Williams	1999 VX ₁₄₃	
1999 VY ₁₄₃	15.4	0.15	19991029	162.60624	211.95285	25.79607	6.81397	0.0688545	2.3804350	22	1	13 days	0.53		Williams	1999 VY ₁₄₃	
1999 VZ ₁₄₃	16.7	0.15	19991029	48.59381	297.61631	39.73801	12.44851	0.1613200	2.4761497	18	1	5 days	0.86	E	Williams	1999 VZ ₁₄₃	
1999 VD ₁₄₄	15.7	0.15	19991029	237.04662	221.97423	309.00001	1.51362	0.0499718	2.6125503	14	1	5 days	0.70	E	Williams	1999 VD ₁₄₄	
1999 VK ₁₄₄	15.8	0.15	19991029	1.03056	47.36388	353.32865	3.22803	0.1233977	2.7414377	20	1	5 days	0.60	E	Williams	1999 VK ₁₄₄	
1999 VL ₁₄₄	15.1	0.15	19991029	42.29746	56.83916	281.40681	4.41943	0.2338177	3.1397670	21	1	13 days	0.41		Williams	1999 VL ₁₄₄	
1999 VP ₁₄₄	17.0	0.15	19991118	358.97282	25.01801	26.57506	6.66455	0.1288557	2.2459054	36	1	45 days	0.70		Williams	1999 VP ₁₄₄	
1999 VM ₁₄₇	14.7	0.15	19991029	25.91304	158.31879	216.29235	9.21186	0.0950820	3.1375572	17	1	12 days	0.63		Williams	1999 VM ₁₄₇	
1999 VH ₁₄₈	14.3	0.15	19991029	118.59470	48.26195	221.02242	13.84016	0.2057323	2.6484763	20	1	3 days	0.61	E	Williams	1999 VH ₁₄₈	
1999 VK ₁₄₈	15.6	0.15	19991029	340.84222	286.74376	148.30619	1.90133	0.2321254	2.8940638	19	1	3 days	0.54	E	Williams	1999 VK ₁₄₈	
1999 VA ₁₅₀	15.6	0.15	19991029	25.52075	129.01507	239.88976	2.98242	0.1009750	2.6730870	28	1	12 days	0.47		Williams	1999 VA ₁₅₀	
1999 VD ₁₅₀	15.9	0.15	19991029	357.99364	5.11757	38.67750	8.81540	0.2662161	3.1340304	27	1	12 days	0.46		Williams	1999 VD ₁₅₀	
1999 VC ₁₅₁	15.1	0.15	19991029	26.57157	336.67167	40.63753	11.83243	0.1251571	2.9937873	20	1	7 days	0.78		Williams	1999 VC ₁₅₁	
1999 VF ₁₅₁	17.4	0.15	19991029	351.74305	144.23406	277.36251	1.55882	0.1804156	2.3136375	18	1	7 days	0.51	E	Williams	1999 VF ₁₅₁	
1999 VO ₁₅₁	14.7	0.15	19991118	182.83397	335.79039	261.39921	3.29138	0.1044660	3.1610780	22	1	23 days	0.63	D	Williams	1999 VO ₁₅₁	
1999 VF ₁₅₅	16.9	0.15	19991029	347.64113	193.66786	228.72024	12.83107	0.2331885	2.6638402	16	1	4 days	0.33		Williams	1999 VF ₁₅₅	
1999 WB	14.0	0.15	20000226	63.06619	134.49116	232.73224	13.78396	0.1394054	2.6524089	90	2	1998–2000	0.56	M-v	3	Williams	38828 1999 WB
1999 WG	14.2	0.15	20000226	69.10520	96.81517	274.81940	10.02676	0.1847418	2.5991899	56	1	111 days	0.65	M-v	4	Williams	38828 1999 WG
1999 WA ₁	12.6	0.15	20000226	21.19458	321.37602	88.53957	15.45625	0.0889510	3.0229593	66	2	1994–2000	0.58	M-v	3	Williams	38828 1999 WA ₁
1999 WC ₁	13.8	0.15	20000226	49.29982	218.20846	163.04901	16.41716	0.2882054	2.6133406	41	1	120 days	0.52	M-v	4	Williams	38828 1999 WC ₁
1999 WA ₂	15.5	0.15	20000226	84.24701	75.22012	293.86893	34.62070	0.4341305	1.9662671	69	1	112 days	0.46	M-v	3	Williams	38828 1999 WA ₂
1999 WM ₂	14.9	0.15	20000226	325.09790	61.80738	71.84243	4.49739	0.0653270	2.3030135	54	2	1994–2000	0.62	M-v	4	Williams	37844 1999 WM ₂

1999 WN ₂	14.6	0.15	20000226	99.28613	266.18048	79.33784	3.14677	0.0598514	2.3465650	80	2	1992-2000	0.60	M-v	4	Williams	38829	1999 WN ₂
1999 WC ₃	14.8	0.15	20000226	330.96988	49.04547	86.86684	3.57460	0.1612146	2.4015902	58	1	108 days	0.52	M-v	4	Williams	38829	1999 WC ₃
1999 WK ₃	14.5	0.15	20000226	55.64439	155.84334	234.69377	12.37477	0.1837668	2.3440858	45	1	122 days	0.50	M-v	4	Williams	38124	1999 WK ₃
1999 WM ₃	13.2	0.15	20000226	98.26973	62.63016	273.49252	8.34638	0.1202030	3.0319045	66	2	1998-2000	0.56	M-v	3	Williams	38829	1999 WM ₃
1999 WN ₃	13.1	0.15	20000226	78.63755	220.84754	145.69796	3.37925	0.0733680	3.2148965	51	2	1998-2000	0.55	M-v	3	Williams	37846	1999 WN ₃
1999 WO ₃	14.3	0.15	20000226	331.49709	263.58974	233.86249	5.13471	0.0844836	2.3028575	63	2	1960-2000	0.53	M-v	4	Williams	38829	1999 WO ₃
1999 WU ₃	13.9	0.15	20000226	289.04201	330.19605	209.26723	6.80557	0.0690915	2.3745409	67	3	1995-2000	0.54	M-v	2	Williams	38829	1999 WU ₃
1999 WW ₃	13.9	0.15	20000226	31.49546	316.39464	106.45474	7.59466	0.1628983	2.4504059	58	3	1981-2000	0.54	M-v	2	Williams	38829	1999 WW ₃
1999 WX ₃	14.8	0.15	20000226	32.77202	211.50510	211.81997	4.97033	0.1867816	2.2978629	55	2	1978-2000	0.50	M-v	3	Williams	38829	1999 WX ₃
1999 WY ₃	13.6	0.15	20000226	221.81246	143.29166	101.63120	3.61299	0.1213931	2.1919759	57	4	1978-2000	0.62	M-v	3	Williams	37847	1999 WY ₃
1999 WE ₄	13.9	0.15	20000226	313.46981	323.30567	193.67247	5.19560	0.0718587	2.2575835	61	4	1975-2000	0.51	M-v	2	Williams	38829	1999 WE ₄
1999 WJ ₄	13.9	0.15	20000226	29.14798	64.27432	356.25715	1.53857	0.0460152	2.8518865	68	3	1996-2000	0.64	M-v	3	Williams	38125	1999 WJ ₄
1999 WL ₄	14.4	0.15	20000226	23.95005	338.89255	96.75313	3.69521	0.1424372	2.3967039	53	2	1998-2000	0.52	M-v	3	Williams	38829	1999 WL ₄
1999 WP ₄	13.8	0.15	20000226	274.08135	98.87558	94.49181	7.77597	0.0492749	2.3144970	75	2	1998-2000	0.56	M-v	3	Williams	38829	1999 WP ₄
1999 WW ₄	12.2	0.15	20000226	148.64687	202.79123	101.03101	11.50904	0.0398903	3.1668162	58	5	1988-2000	0.59	M-v	1	Williams	38829	1999 WW ₄
1999 WB ₅	14.7	0.15	20000226	335.36612	341.41474	156.91372	3.00813	0.1291622	2.4125093	48	3	1989-2000	0.60	M-v	3	Williams	38829	1999 WB ₅
1999 WD ₅	13.6	0.15	20000226	27.05866	178.22227	250.87555	12.03473	0.1609281	2.6864007	54	1	144 days	0.55	M-v	3	Williams	38829	1999 WD ₅
1999 WY ₅	13.7	0.15	20000226	14.25030	321.55081	108.67609	24.55109	0.2733851	2.3137561	46	1	161 days	0.47	M-v	3	Williams	38829	1999 WY ₅
1999 WH ₇	15.7	0.15	20000226	19.80765	163.89617	265.97667	1.57116	0.1635342	2.5839386	29	1	63 days	0.49	M-v	4	Williams		1999 WH ₇
1999 WR ₇	14.3	0.15	20000226	329.95296	50.66197	83.72539	5.18711	0.1121942	2.4822926	62	3	1997-2000	0.58	M-v	3	Williams	38829	1999 WR ₇
1999 WW ₇	14.2	0.15	20000226	42.77161	153.49752	271.90270	1.03206	0.1226503	2.5401659	44	2	1995-2000	0.48	M-v	4	Williams	38830	1999 WW ₇
1999 WY ₇	13.6	0.15	20000226	346.23997	237.84880	267.93230	11.99065	0.1776720	2.7150810	59	1	114 days	0.54	M-v	4	Williams	38830	1999 WY ₇
1999 WU ₈	14.3	0.15	20000226	99.29762	205.84210	129.44093	4.72012	0.1556433	2.3104824	97	3	1997-2000	0.53	M-v	2	Williams	38830	1999 WU ₈
1999 WW ₈	12.8	0.15	20000226	355.72186	15.50440	82.88544	16.15334	0.2297788	3.1836004	77	1	120 days	0.41	M-v	3	Williams	38830	1999 WW ₈
1999 WX ₈	12.3	0.15	20000226	312.22163	54.78733	83.57151	17.21625	0.0792972	3.1853025	69	2	1990-2000	0.52	M-v	3	Williams	38830	1999 WX ₈
1999 WY ₈	13.6	0.15	20000226	358.32440	336.60719	117.49843	6.27947	0.0896495	2.5901230	72	1	122 days	0.48	M-v	3	Williams	38830	1999 WY ₈
1999 WD ₉	13.9	0.15	20000226	358.35362	250.67677	204.07713	6.83804	0.0675413	2.3780137	63	2	1997-2000	0.54	M-v	3	Williams	38126	1999 WD ₉
1999 WQ ₉	13.0	0.15	20000226	16.49871	336.27385	106.83279	8.94389	0.2468568	2.7502023	40	1	95 days	0.48	M-v	3	Williams	38830	1999 WQ ₉
1999 WR ₉	12.1	0.15	20000226	304.52981	246.20461	285.89078	6.93845	0.0900890	3.4178188	52	2	1998-2000	0.48	M-v	3	Williams	38830	1999 WR ₉
1999 WV ₉	12.0	0.15	20000226	56.72410	324.30870	79.29352	11.20581	0.1001382	2.9923857	79	3	1978-2000	0.65	M-v	1	Williams	38830	1999 WV ₉
1999 WX ₉	14.1	0.15	20000226	13.05716	187.55150	271.27918	12.31064	0.1045846	2.6408572	44	1	113 days	0.54	M-v	3	Williams	38830	1999 WX ₉
1999 WB ₁₀	13.9	0.15	20000226	333.84160	254.22737	254.30673	16.58381	0.2319273	2.9380488	39	1	111 days	0.43	M-v	4	Williams		1999 WB ₁₀
1999 WC ₁₀	13.6	0.15	20000226	358.84620	73.13255	42.43886	4.58258	0.1729774	3.2293557	47	2	1998-2000	0.55	M-v	3	Williams	38830	1999 WC ₁₀
1999 WD ₁₀	14.0	0.15	20000226	344.86451	63.81579	77.73859	3.80851	0.1808518	2.6097539	33	1	94 days	0.54	M-v	4	Williams	38830	1999 WD ₁₀
1999 WE ₁₀	13.0	0.15	20000226	222.68199	171.56241	82.16713	8.09363	0.0691941	2.7682672	40	1	99 days	0.52	M-v	4	Williams	38830	1999 WE ₁₀
1999 WM ₁₁	14.0	0.15	20000226	65.91813	65.55062	289.88754	6.41061	0.2449742	2.8003886	46	2	1995-2000	0.49	M-v	5	Williams	38127	1999 WM ₁₁
1999 WO ₁₁	13.3	0.15	20000226	335.59361	191.83230	284.26311	8.36659	0.0727916	2.9849595	62	2	1998-2000	0.52	M-v	3	Williams	38830	1999 WO ₁₁
1999 WR ₁₃	13.5	0.15	20000226	293.19324	73.04806	103.09766	8.03793	0.1517549	2.8397100	40	1	108 days	0.63	M-v	5	Williams	38830	1999 WR ₁₃
1999 WU ₁₃	18.5	0.15	19991118	14.52260	179.85561	207.03023	0.84513	0.2008125	2.3552309	14	1	26 days	0.39		D	Williams		1999 WU ₁₃
1999 WP ₁₄	15.0	0.15	19991118	262.33772	284.65706	235.99186	13.57783	0.0711670	3.1310892	28	1	26 days	0.29			Williams		1999 WP ₁₄
1999 WT ₁₆	14.8	0.15	20000226	19.74944	2.40805	29.15813	9.97235	0.1698765	2.7549296	29	1	65 days	0.51	M-v	4	Williams		1999 WT ₁₆
1999 WF ₁₈	13.4	0.15	20000226	57.83866	315.27418	116.33532	14.34353	0.1477454	2.5652035	58	1	120 days	0.54	M-v	4	Williams	38831	1999 WF ₁₈
1999 WR ₁₈	16.6	0.15	19991029	6.14120	342.97277	51.10907	1.14927	0.1853416	3.1070515	32	1	49 days	0.39			Williams		1999 WR ₁₈
1999 WV ₁₈	17.8	0.15	19991118	20.54134	318.75018	62.49438	3.18764	0.1727167	2.4658694	14	1	25 days	0.28			Williams		1999 WV ₁₈
1999 WF ₁₉	17.6	0.15	19991118	352.59774	175.74304	244.39005	1.15847	0.1572425	2.3307056	38	1	36 days	0.40			Williams		1999 WF ₁₉
1999 WW ₁₉	16.7	0.15	20000226	22.14593	70.24474	3.68911	7.85369	0.4872740	2.9962002	22	1	74 days	0.48	M-v	4	Williams		1999 WW ₁₉
1999 XW	12.2	0.15	20000226	44.94771	325.72507	80.99122	13.08231	0.1218649	3.2050409	52	2	1982-2000	0.67	M-v	4	Williams	38831	1999 XW
1999 XY	14.8	0.15	20000226	18.71669	174.48377	273.81154	4.47217	0.2014064	2.3689130	56	1	122 days	0.40	M-v	3	Williams	38831	1999 XY
1999 XZ	14.1	0.15	20000226	335.04590	204.13358	301.94531	3.56567	0.1535878	2.3731463	53	4	1982-2000	0.57	M-v	2	Williams	38831	1999 XZ
1999 XA ₁	13.4	0.15	20000226	335.57778	202.22773	287.56009	8.69125	0.0411569	2.9765461	35	1	109 days	0.55	M-v	4	Williams	38831	1999 XA ₁
1999 XE ₁	13.5	0.15	20000226	49.90659	224.07983	190.16205	4.14999	0.1162136	2.5259840	63	4	1991-2000	0.64	M-v	1	Williams	38831	1999 XE ₁
1999 XF ₁	14.1	0.15	20000226	11.89592	354.82973	108.38821	7.98804	0.0678647	2.3127297	46	1	92 days	0.61	M-v	4	Williams	38831	1999 XF ₁
1999 XG ₁	13.5	0.15	20000226	235.15301	134.53206	109.30464	7.73971	0.0722989	2.3644987	46	3	1994-2000	0.65	M-v	3	Williams	38831	1999 XG ₁

1999 XK ₁	13.1	0.15	20000226	156.24744	191.14140	120.26383	10.58431	0.0778720	2.6199095	37	1	93 days	0.48	M-v	4	Williams	38831	1999 XK ₁
1999 XL ₁	13.3	0.15	20000226	331.75176	248.15334	263.93788	12.96716	0.1561525	3.0388696	45	2	1988–2000	0.57	M-v	3	Williams	38831	1999 XL ₁
1999 XZ ₁	13.5	0.15	20000226	50.99587	183.12155	199.49510	9.09306	0.1689086	2.7698693	45	1	137 days	0.54	M-v	4	Williams	38831	1999 XZ ₁
1999 XA ₂	13.9	0.15	20000226	44.62412	280.11748	113.06921	14.18592	0.1852844	2.5829449	49	2	1994–2000	0.61	M-v	3	Williams	38831	1999 XA ₂
1999 XG ₂	13.7	0.15	20000226	61.09974	116.83078	251.88897	8.40073	0.2173446	2.6445815	67	2	1986–2000	0.54	M-v	4	Williams	38831	1999 XG ₂
1999 XS ₃	14.8	0.15	20000226	343.08478	33.44319	83.08521	7.91927	0.1733947	2.3915119	59	1	121 days	0.50	M-v	4	Williams	38831	1999 XS ₃
1999 XX ₅	13.2	0.15	20000226	252.15281	144.22429	54.88418	5.95032	0.0911836	2.7573416	78	1	126 days	0.46	M-v	4	Williams	38831	1999 XX ₅
1999 XK ₆	16.7	0.15	19991118	18.55265	335.06830	59.87452	3.30712	0.1937627	2.3754250	36	1	35 days	0.41			Williams		1999 XK ₆
1999 XN ₆	15.1	0.15	19991118	346.87075	42.64413	35.02285	3.88183	0.1337975	2.5620991	31	1	42 days	0.43			Williams		1999 XN ₆
1999 XQ ₆	16.1	0.15	19991118	26.99624	326.08102	44.88191	5.29316	0.2953105	2.5773674	23	1	32 days	0.31			Williams		1999 XQ ₆
1999 XJ ₇	13.9	0.15	20000226	45.27982	297.03449	99.52149	7.50710	0.1033991	2.3367085	66	2	1998–2000	0.56	M-v	3	Williams	38832	1999 XJ ₇
1999 XK ₇	13.4	0.15	20000226	49.47889	157.44283	226.27701	13.25605	0.1904293	2.5730061	60	2	1998–2000	0.52	M-v	3	Williams	37859	1999 XK ₇
1999 XN ₇	14.4	0.15	20000226	342.12702	344.54977	140.82414	2.71112	0.1686218	2.3857842	55	1	121 days	0.40	M-v	4	Williams	38832	1999 XN ₇
1999 XO ₇	12.7	0.15	20000226	37.01964	67.83677	3.81366	12.38273	0.1557804	2.6629444	39	1	117 days	0.41	M-v	4	Williams	38832	1999 XO ₇
1999 XP ₇	13.2	0.15	20000226	26.48110	19.66228	66.10039	7.97425	0.2526827	2.5601941	53	1	117 days	0.34	M-v	3	Williams	38832	1999 XP ₇
1999 XS ₇	13.3	0.15	20000226	58.04577	1.68007	45.26801	14.60809	0.1793814	2.7263648	38	1	161 days	0.48	M-v	4	Williams	38832	1999 XS ₇
1999 XT ₇	13.5	0.15	20000226	43.05082	79.07112	341.22063	12.62513	0.1806206	2.5525249	50	1	132 days	0.54	M-v	4	Williams	38832	1999 XT ₇
1999 XC ₈	14.4	0.15	20000226	51.57364	301.73250	107.31761	1.59583	0.0868173	2.3442466	34	2	1991–2000	0.48	M-v	5	Williams	37860	1999 XC ₈
1999 XG ₈	14.9	0.15	20000226	66.94844	143.83829	241.67171	4.78185	0.1715920	2.2755275	60	1	123 days	0.48	M-v	4	Williams	38131	1999 XG ₈
1999 XL ₈	14.6	0.15	20000226	339.08909	263.02747	230.41749	3.17626	0.1422566	2.2636483	76	3	1980–2000	0.43	M-v	2	Williams	38832	1999 XL ₈
1999 XH ₁₂	12.6	0.15	20000226	70.30830	234.55271	163.38065	5.39439	0.0643550	2.8136737	38	1	91 days	0.41	M-v	4	Williams	38832	1999 XH ₁₂
1999 XL ₁₂	14.6	0.15	20000226	48.18789	258.91561	145.30468	4.54777	0.2718302	2.5558057	45	1	112 days	0.49	M-v	4	Williams	38832	1999 XL ₁₂
1999 XM ₁₂	13.3	0.15	20000226	298.56618	299.42022	256.34625	12.56295	0.1463264	2.5432184	37	1	91 days	0.40	M-v	4	Williams	38832	1999 XM ₁₂
1999 XP ₁₂	14.4	0.15	20000226	70.03240	217.51377	182.36453	5.29300	0.0748037	2.4157478	54	3	1997–2000	0.57	M-v	2	Williams	38832	1999 XP ₁₂
1999 XT ₁₂	13.0	0.15	20000226	247.20975	75.97955	130.96108	10.51833	0.0247125	2.9919276	43	1	121 days	0.46	M-v	4	Williams	38832	1999 XT ₁₂
1999 XJ ₁₃	14.5	0.15	20000226	39.82265	219.45662	181.22030	6.74643	0.0827859	2.3905084	41	1	137 days	0.58	M-v	4	Williams	38833	1999 XJ ₁₃
1999 XS ₁₃	13.5	0.15	20000226	8.93988	249.46943	189.83225	8.50180	0.1737715	2.6203843	76	4	1969–2000	0.57	M-v	2	Williams	38833	1999 XS ₁₃
1999 XT ₁₃	14.1	0.15	20000226	47.14566	277.52135	138.82076	7.05808	0.1791946	2.3629956	59	3	1982–2000	0.52	M-v	2	Williams	38833	1999 XT ₁₃
1999 XF ₁₄	14.6	0.15	20000226	347.09338	247.68148	249.42939	10.76453	0.1466760	2.6940613	29	1	109 days	0.68	M-v	4	Williams		1999 XF ₁₄
1999 XK ₁₄	12.6	0.15	20000226	321.54066	255.18373	336.87129	12.69033	0.2952357	2.8411621	72	1	96 days	0.50	M-v	4	Williams	38833	1999 XK ₁₄
1999 XL ₁₄	12.4	0.15	20000226	165.39915	217.07976	136.16210	10.99528	0.1234839	2.9923075	77	3	1964–2000	0.53	M-v	3	Williams	38582	1999 XL ₁₄
1999 XD ₁₅	14.3	0.15	20000226	48.10708	129.53003	319.78002	24.09767	0.2323123	2.2677252	40	1	94 days	0.50	M-v	4	Williams	38833	1999 XD ₁₅
1999 XF ₁₅	15.0	0.15	20000226	29.51020	158.58777	309.51488	24.51296	0.2640070	2.3160476	44	1	96 days	0.57	M-v	4	Williams	38833	1999 XF ₁₅
1999 XV ₁₅	13.7	0.15	20000226	35.23554	315.90874	97.60478	8.95755	0.3837499	2.7489612	71	1	116 days	0.58	M-v	4	Williams	38833	1999 XV ₁₅
1999 XX ₁₅	14.8	0.15	20000226	85.95410	276.33020	100.58329	2.42803	0.1712033	2.2507102	93	4	1992–2000	0.57	M-v	2	Williams	38833	1999 XX ₁₅
1999 XY ₁₅	14.4	0.15	20000226	339.05388	22.99473	147.17415	3.11809	0.1226795	2.4499417	96	2	1998–2000	0.60	M-v	3	Williams	38833	1999 XY ₁₅
1999 XZ ₁₅	14.7	0.15	20000226	42.96746	180.98241	260.92770	2.45948	0.2056633	2.4207750	103	1	115 days	0.55	M-v	4	Williams	38833	1999 XZ ₁₅
1999 XB ₁₆	13.6	0.15	20000226	326.72758	167.40081	9.96444	10.67070	0.1458903	2.4696509	84	2	1998–2000	0.41	M-v	3	Williams	38833	1999 XB ₁₆
1999 XD ₁₆	13.4	0.15	20000226	87.94903	329.42900	30.41778	11.80297	0.3776490	2.6410602	36	1	80 days	0.54	M-v	4	Williams		1999 XD ₁₆
1999 XS ₁₆	14.9	0.15	20000226	337.17216	99.18729	77.45628	10.08005	0.5358941	2.9406672	44	1	103 days	0.41	M-v	4	Williams	38833	1999 XS ₁₆
1999 XU ₁₆	15.9	0.15	19991208	62.14890	99.67226	250.59065	7.27192	0.2217587	2.2240154	21	1	57 days	0.55			Williams		1999 XU ₁₆
1999 XX ₁₈	14.7	0.15	20000226	357.05136	227.07789	203.50496	6.62506	0.2272832	2.2934026	49	1	137 days	0.56	M-v	4	Williams		1999 XX ₁₈
1999 XM ₁₉	14.6	0.15	20000226	28.24626	169.05684	202.74696	11.77022	0.1952009	2.6424153	43	1	137 days	0.54	M-v	3	Williams		1999 XM ₁₉
1999 XB ₂₀	13.9	0.15	20000226	40.07127	323.04584	53.16655	13.58336	0.1973739	2.6304052	54	1	178 days	0.48	M-v	3	Williams	38133	1999 XB ₂₀
1999 XV ₂₁	15.1	0.15	20000226	50.18220	303.33921	126.74799	11.39640	0.2108524	2.3696823	49	1	136 days	0.45	M-v	4	Williams	38834	1999 XV ₂₁
1999 XW ₂₁	13.5	0.15	20000226	292.66451	298.04941	283.21896	12.00844	0.1190657	2.6302932	50	1	115 days	0.50	M-v	4	Williams	38834	1999 XW ₂₁
1999 XX ₂₁	14.7	0.15	20000226	12.92943	263.81210	221.03741	3.38721	0.2143784	2.6072718	64	1	109 days	0.55	M-v	3	Williams	38834	1999 XX ₂₁
1999 XZ ₂₁	13.6	0.15	20000226	281.09760	95.35508	136.80103	12.66674	0.1100301	2.5481096	86	4	1993–2000	0.54	M-v	2	Marsden	38834	1999 XZ ₂₁
1999 XA ₂₂	13.9	0.15	20000226	316.58895	281.72155	278.47542	8.27587	0.1403816	2.7677424	41	1	95 days	0.48	M-v	4	Williams	38834	1999 XA ₂₂
1999 XD ₂₂	13.9	0.15	20000226	7.71376	353.29254	141.82846	9.79466	0.1015555	2.7216257	55	1	95 days	0.47	M-v	4	Williams	38834	1999 XD ₂₂
1999 XE ₂₂	15.1	0.15	20000226	46.59716	308.28685	134.54195	7.79465	0.1558174	2.3428128	64	1	90 days	0.63	M-v	4	Williams	38834	1999 XE ₂₂
1999 XF ₂₂	13.4	0.15	20000226	311.07994	278.05844	288.49568	11.05687	0.1184761	2.6222239	26	1	92 days	0.40	M-v	4	Williams	38834	1999 XF ₂₂
1999 XJ ₂₂	16.2	0.15	20000226	56.02644	159.73545	205.77251	4.28395	0.2270700	2.3374281	43	1	65 days	0.50	M-v	4	Williams		1999 XJ ₂₂

1999 XD ₂₃	16.0	0.15	19991118	10.10490	151.57875	231.83800	12.45796	0.2640305	2.6673218	31	1	33 days	0.51		Williams	1999 XD ₂₃
1999 XE ₂₃	15.3	0.15	20000226	34.54994	345.86311	34.67974	4.47067	0.2608763	2.6064619	43	1	97 days	0.54	M-v 3	Williams	1999 XE ₂₃
1999 XG ₂₃	14.2	0.15	20000226	20.00252	6.80128	33.70721	9.67509	0.1754943	2.7504075	38	1	76 days	0.61	M-v 4	Williams	1999 XG ₂₃
1999 XS ₂₃	15.3	0.15	19991029	315.91897	10.52035	82.79420	4.34119	0.0548516	2.7021794	35	1	48 days	0.56		Williams	1999 XS ₂₃
1999 XG ₂₄	15.4	0.15	19991118	67.18868	80.57298	235.67630	21.54658	0.2177071	2.3976211	31	1	34 days	0.50		Williams	1999 XG ₂₄
1999 XA ₂₅	13.6	0.15	20000226	332.49559	52.28177	61.00479	10.24322	0.0793793	2.4841340	75	2	1978-2000	0.52	M-v 3	Williams	38834 1999 XA ₂₅
1999 XZ ₂₅	14.8	0.15	20000226	88.54184	260.63105	79.17408	8.82403	0.1837148	2.2338878	77	2	1998-2000	0.62	M-v 4	Williams	38835 1999 XZ ₂₅
1999 XQ ₂₆	15.0	0.15	19991118	331.67296	160.07679	279.23898	0.84482	0.0425390	2.8923223	37	1	33 days	0.49		Williams	1999 XQ ₂₆
1999 XY ₂₇	15.9	0.15	19991118	217.78035	151.11605	36.99610	9.22882	0.0295907	2.3629283	35	1	39 days	0.54		Williams	1999 XY ₂₇
1999 XA ₂₈	15.4	0.15	19991118	311.22052	217.97181	253.30393	4.71227	0.1556056	2.6047897	25	1	34 days	0.45		Williams	1999 XA ₂₈
1999 XH ₂₉	12.9	0.15	20000226	283.58150	80.17580	91.73354	10.93966	0.1321249	3.2199231	62	2	1984-2000	0.68	M-v 4	Williams	38583 1999 XH ₂₉
1999 XS ₂₉	13.5	0.15	20000226	47.48004	189.19799	198.36181	6.92942	0.1622272	3.1753069	65	5	1976-2000	0.55	M-v 1	Williams	38835 1999 XS ₂₉
1999 XF ₃₀	14.4	0.15	20000226	351.31607	2.25581	108.09236	7.50380	0.0743382	2.3262637	39	1	121 days	0.35	M-v 4	Williams	38136 1999 XF ₃₀
1999 XM ₃₀	13.4	0.15	20000226	11.89970	331.77953	111.89871	9.20440	0.1996389	2.7966753	73	4	1977-2000	0.65	M-v 2	Williams	38835 1999 XM ₃₀
1999 XT ₃₀	13.9	0.15	20000226	85.97550	236.96855	116.46613	10.26432	0.1691549	2.7342353	43	2	1998-2000	0.65	M-v 3	Williams	38835 1999 XT ₃₀
1999 XK ₃₁	12.9	0.15	20000226	40.41579	292.78095	133.66823	10.61113	0.0666121	2.9762586	39	1	90 days	0.37	M-v 4	Williams	1999 XK ₃₁
1999 XP ₃₁	12.5	0.15	20000226	131.37587	225.91741	114.47635	16.02309	0.1390668	2.5622432	51	1	90 days	0.62	M-v 4	Williams	38835 1999 XP ₃₁
1999 XT ₃₁	14.5	0.15	20000226	47.90109	189.56727	244.77850	1.24964	0.2308123	2.6684576	70	2	1998-2000	0.55	M-v 3	Williams	38835 1999 XT ₃₁
1999 XU ₃₁	14.0	0.15	20000226	344.57834	226.90266	297.02106	8.82891	0.0765000	2.5822583	52	1	122 days	0.60	M-v 4	Williams	38835 1999 XU ₃₁
1999 XX ₃₁	13.3	0.15	20000226	347.57360	42.33570	125.72434	11.26028	0.2553329	2.7917108	80	1	136 days	0.53	M-v 3	Williams	38835 1999 XX ₃₁
1999 XY ₃₁	15.0	0.15	20000226	40.26590	243.82184	206.33884	1.57263	0.1691147	2.4414107	54	1	110 days	0.65	M-v 4	Williams	38835 1999 XY ₃₁
1999 XA ₃₂	11.9	0.15	20000226	291.04052	288.95896	290.44233	12.65193	0.1066129	3.1407592	99	7	1976-2000	0.61	M-v 2	Williams	38835 1999 XA ₃₂
1999 XB ₃₂	14.8	0.15	20000226	55.57871	183.02000	248.03978	2.89645	0.1303839	2.5723301	42	2	1998-2000	0.60	M-v 3	Williams	38584 1999 XB ₃₂
1999 XC ₃₂	14.5	0.15	20000226	71.01536	155.69514	260.52787	5.40260	0.1063788	2.3698864	46	1	90 days	0.54	M-v 4	Williams	38835 1999 XC ₃₂
1999 XD ₃₂	15.0	0.15	20000226	8.60123	234.61486	256.51194	4.11179	0.0739200	2.2897343	77	2	1998-2000	0.52	M-v 3	Williams	38835 1999 XD ₃₂
1999 XJ ₃₂	15.0	0.15	20000226	16.84702	322.58247	150.29116	3.75249	0.1527157	2.2893066	43	1	101 days	0.53	M-v 4	Williams	38835 1999 XJ ₃₂
1999 XM ₃₂	14.9	0.15	20000226	29.32661	182.08460	269.84790	5.53896	0.2128949	2.5636482	42	1	84 days	0.54	M-v 4	Williams	38835 1999 XM ₃₂
1999 XT ₃₂	14.6	0.15	20000226	358.25810	209.48069	294.35286	6.77082	0.2571410	2.8575524	68	1	110 days	0.45	M-v 3	Williams	38836 1999 XT ₃₂
1999 XU ₃₂	15.1	0.15	20000226	55.21177	182.74933	241.93012	1.99238	0.1705994	2.4290342	45	3	1994-2000	0.72	M-v 4	Williams	38584 1999 XU ₃₂
1999 XV ₃₂	13.3	0.15	20000226	78.42221	108.42328	286.48829	10.20650	0.1963683	2.6136776	90	2	1998-2000	0.51	M-v 3	Williams	38836 1999 XV ₃₂
1999 XW ₃₂	13.7	0.15	20000226	332.86618	254.71211	280.83715	7.48900	0.1604644	2.9767184	51	1	90 days	0.50	M-v 4	Williams	38836 1999 XW ₃₂
1999 XX ₃₂	13.1	0.15	20000226	120.36941	74.57287	289.75760	13.82794	0.1208060	2.6282554	47	1	110 days	0.44	M-v 4	Williams	38836 1999 XX ₃₂
1999 XY ₃₂	14.6	0.15	20000226	357.28240	225.91958	278.84989	7.27276	0.1393655	2.5267980	43	1	83 days	0.45	M-v 3	Williams	38836 1999 XY ₃₂
1999 XZ ₃₂	14.2	0.15	20000226	343.15718	223.73567	292.03654	10.17349	0.0368579	2.6007932	48	2	1993-2000	0.57	M-v 4	Williams	38584 1999 XZ ₃₂
1999 XB ₃₃	14.7	0.15	20000226	33.01392	340.37025	112.23021	3.85909	0.2127319	2.4390823	53	1	109 days	0.35	M-v 4	Williams	38836 1999 XB ₃₃
1999 XC ₃₃	14.4	0.15	20000226	308.56811	264.07786	300.88153	4.26307	0.1366340	2.2653415	78	2	1998-2000	0.54	M-v 3	Williams	38836 1999 XC ₃₃
1999 XE ₃₃	15.3	0.15	20000226	11.15332	34.84276	92.24009	2.21011	0.1256351	2.4245586	38	1	89 days	0.58	M-v 4	Williams	38836 1999 XE ₃₃
1999 XF ₃₃	14.2	0.15	20000226	342.31548	47.95354	114.13459	8.24977	0.1047463	2.6399211	49	1	89 days	0.47	M-v 4	Williams	38836 1999 XF ₃₃
1999 XG ₃₃	13.8	0.15	20000226	15.44941	198.06290	280.65888	5.76239	0.2523279	2.5653624	76	2	1998-2000	0.73	M-v 3	Williams	38836 1999 XG ₃₃
1999 XH ₃₃	15.0	0.15	20000226	67.82010	280.58877	125.46621	6.73412	0.2264146	2.2522820	99	1	117 days	0.47	M-v 4	Williams	38836 1999 XH ₃₃
1999 XJ ₃₃	14.4	0.15	20000226	29.44855	178.36822	262.21118	2.86778	0.3759495	3.0304344	77	1	90 days	0.35	M-v 4	Williams	38836 1999 XJ ₃₃
1999 XK ₃₃	16.0	0.15	20000226	338.54636	55.81861	112.57285	24.51074	0.0610188	1.9531963	42	2	1998-2000	0.59	M-v 3	Williams	38836 1999 XK ₃₃
1999 XL ₃₃	14.9	0.15	20000226	340.18857	242.86795	285.75094	2.71563	0.1101603	2.2164506	57	1	110 days	0.47	M-v 4	Williams	38836 1999 XL ₃₃
1999 XM ₃₃	15.1	0.15	20000226	39.35243	321.63835	125.39091	4.29123	0.1863238	2.5748619	71	3	1997-2000	0.54	M-v 2	Williams	38836 1999 XM ₃₃
1999 XN ₃₃	14.1	0.15	20000226	80.89244	120.78358	276.35537	1.86390	0.1909897	2.4246007	80	4	1987-2000	0.63	M-v 1	Williams	38836 1999 XN ₃₃
1999 XO ₃₃	13.1	0.15	20000226	2.95533	19.02469	119.03386	14.76032	0.0915087	2.6189645	101	1	136 days	0.36	M-v 3	Williams	38836 1999 XO ₃₃
1999 XP ₃₃	14.9	0.15	20000226	51.34596	332.21588	105.13979	5.27895	0.1366165	2.3301738	62	1	91 days	0.50	M-v 4	Williams	38836 1999 XP ₃₃
1999 XS ₃₃	13.7	0.15	20000226	96.56262	282.57027	109.70202	7.38587	0.1152795	2.3499501	51	1	109 days	0.44	M-v 4	Williams	38836 1999 XS ₃₃
1999 XV ₃₃	14.5	0.15	20000226	100.51893	139.81453	244.29310	1.13472	0.1525643	2.1472991	75	3	1992-2000	0.59	M-v 3	Williams	38836 1999 XV ₃₃
1999 XX ₃₃	15.2	0.15	20000226	20.31364	5.25328	113.48258	2.89730	0.1856505	2.3299827	45	2	1997-2000	0.53	M-v 4	Williams	38585 1999 XX ₃₃
1999 XA ₃₄	12.8	0.15	20000226	304.85200	244.12694	317.70556	9.54833	0.0580601	3.0256958	84	1	116 days	0.51	M-v 4	Williams	38836 1999 XA ₃₄
1999 XB ₃₄	15.0	0.15	20000226	13.70955	37.87933	91.03526	4.15686	0.0931815	2.3055781	58	1	96 days	0.52	M-v 4	Williams	38836 1999 XB ₃₄
1999 XC ₃₄	13.8	0.15	20000226	118.82938	263.01603	108.49606	7.56773	0.1359446	2.3222070	92	3	1997-2000	0.57	M-v 2	Williams	38836 1999 XC ₃₄

1999 XD ₃₄	13.9	0.15	20000226	251.30657	298.04833	325.59097	5.80260	0.1148181	2.4098176	77	3	1990–2000	0.49	M-v	2	Williams	38585	1999 XD ₃₄
1999 XF ₃₄	13.2	0.15	20000226	343.70215	54.94264	121.12189	25.84250	0.2424570	2.7165169	55	1	130 days	0.51	M-v	3	Williams	38836	1999 XF ₃₄
1999 XG ₃₄	14.4	0.15	20000226	300.70555	100.51168	119.13375	6.78511	0.1294870	2.2868670	52	1	94 days	0.47	M-v	4	Williams	38836	1999 XG ₃₄
1999 XH ₃₄	14.6	0.15	20000226	17.23752	359.20865	122.74187	6.63135	0.2082136	2.7353417	65	2	1998–2000	0.54	M-v	3	Williams	38836	1999 XH ₃₄
1999 XJ ₃₄	13.2	0.15	20000226	16.98169	20.26501	118.83597	13.86947	0.1406876	2.6464347	63	1	129 days	0.47	M-v	3	Williams	38836	1999 XJ ₃₄
1999 XK ₃₄	15.3	0.15	20000226	63.35107	195.21368	231.57966	2.16128	0.1284667	2.2364212	48	1	96 days	0.41	M-v	5	Williams	38836	1999 XK ₃₄
1999 XL ₃₄	15.2	0.15	20000226	41.79351	270.85217	179.25785	2.47917	0.1381150	2.3982971	65	3	1991–2000	0.61	M-v	4	Williams	38836	1999 XL ₃₄
1999 XN ₃₄	13.3	0.15	20000226	336.48936	252.53033	288.89885	18.92430	0.3074660	3.1131755	59	1	111 days	0.43	M-v	3	Williams	38836	1999 XN ₃₄
1999 XP ₃₄	14.1	0.15	20000226	310.97541	270.63949	296.10746	10.48537	0.1974041	2.5933211	64	1	110 days	0.43	M-v	4	Williams	38836	1999 XP ₃₄
1999 XR ₃₄	15.0	0.15	20000226	79.87641	172.79265	232.93747	1.33735	0.1145136	2.2396557	63	1	90 days	0.49	M-v	4	Williams	38836	1999 XR ₃₄
1999 XT ₃₄	14.1	0.15	20000226	10.35916	191.80194	299.26413	9.96761	0.1076568	2.6265956	71	1	111 days	0.44	M-v	3	Williams	38836	1999 XT ₃₄
1999 XU ₃₄	13.7	0.15	20000226	67.15943	129.54182	299.27212	21.40316	0.0550417	2.6134073	40	1	111 days	0.52	M-v	4	Williams	38836	1999 XU ₃₄
1999 XV ₃₄	14.5	0.15	20000226	52.00923	327.48161	115.31404	7.04640	0.1002505	2.3640516	47	1	89 days	0.40	M-v	4	Williams	38836	1999 XV ₃₄
1999 XX ₃₄	14.4	0.15	20000226	49.91153	128.93251	303.55949	4.09291	0.2331872	2.6053850	71	2	1998–2000	0.55	M-v	3	Williams	38836	1999 XX ₃₄
1999 XZ ₃₄	12.5	0.15	20000226	105.47664	278.13262	113.92741	10.78496	0.1405546	3.0270950	45	1	117 days	0.49	M-v	4	Williams	38836	1999 XZ ₃₄
1999 XA ₃₅	14.4	0.15	20000226	344.93373	61.71688	108.60892	5.67804	0.2234070	2.5714541	63	2	1998–2000	0.54	M-v	3	Williams	38836	1999 XA ₃₅
1999 XB ₃₅	12.6	0.15	20000226	260.86520	130.14242	124.38322	14.30559	0.0253129	3.1303631	48	1	97 days	0.41	M-v	4	Williams	38836	1999 XB ₃₅
1999 XH ₃₅	14.9	0.15	19991118	52.45699	101.89804	251.52280	25.22756	0.2227835	3.0779302	13	1	24 days	0.48			Williams		1999 XH ₃₅
1999 XP ₃₅	18.5	0.15	20000226	37.32407	198.08251	263.54558	21.10406	0.1840529	1.4346268	62	1	89 days	0.52	M-v	4	Williams	38137	1999 XP ₃₅
1999 XQ ₃₅	14.4	0.15	20000226	5.02961	84.61539	78.83735	28.33650	0.3709359	2.6240510	43	1	102 days	0.58	M-v	4	Williams		1999 XQ ₃₅
1999 XS ₃₅	17.2	0.15	20000226	1.64244	333.15862	49.02451	19.47370	0.9475108	18.0555147	206	1	88 days	0.52	M-v	2	Marsden	38137	1999 XS ₃₅
1999 XW ₃₅	13.3	0.15	20000226	356.08907	38.64164	76.11200	16.66594	0.2007603	2.5413381	73	1	128 days	0.53	M-v	3	Williams	38837	1999 XW ₃₅
1999 XE ₃₆	14.1	0.15	20000226	1.63698	258.92863	219.34711	4.06756	0.2134739	2.8596555	42	3	1991–2000	0.61	M-v	3	Williams	38837	1999 XE ₃₆
1999 XC ₃₇	14.7	0.15	20000226	64.16542	174.73944	191.10452	7.86618	0.2117658	2.2166789	67	2	1998–2000	0.54	M-v	3	Williams	38837	1999 XC ₃₇
1999 XD ₃₇	13.8	0.15	20000226	23.93714	321.96088	93.58056	13.00446	0.1859375	2.6670442	57	1	124 days	0.47	M-v	3	Williams	38837	1999 XD ₃₇
1999 XE ₃₇	12.3	0.15	20000226	72.28656	252.27301	101.29628	11.34092	0.1324187	3.0214922	63	1	137 days	0.43	M-v	4	Williams	38837	1999 XE ₃₇
1999 XF ₃₇	12.7	0.15	20000226	98.65136	175.05861	154.56024	15.14768	0.1280430	2.6102110	64	3	1990–2000	0.49	M-v	2	Williams	38837	1999 XF ₃₇
1999 XH ₃₇	13.6	0.15	20000226	311.69074	334.49488	164.47129	14.81921	0.0339636	2.5902436	53	3	1990–2000	0.64	M-v	3	Williams	38837	1999 XH ₃₇
1999 XJ ₃₇	13.4	0.15	20000226	62.66262	275.73195	82.95744	16.46851	0.1965759	2.6713039	69	2	1998–2000	0.56	M-v	3	Williams	38837	1999 XJ ₃₇
1999 XK ₃₇	12.6	0.15	20000226	314.96572	22.36500	119.93263	15.61411	0.1222655	2.6023902	46	1	97 days	0.50	M-v	4	Williams	38837	1999 XK ₃₇
1999 XL ₃₇	13.3	0.15	20000226	21.08006	296.71718	126.41170	15.42825	0.0856877	2.6113743	55	1	124 days	0.57	M-v	3	Williams	38837	1999 XL ₃₇
1999 XP ₃₇	13.7	0.15	20000226	336.37724	272.07771	223.59049	8.14205	0.0992563	2.7568327	51	3	1994–2000	0.54	M-v	3	Williams	37886	1999 XP ₃₇
1999 XP ₃₈	12.3	0.15	20000226	293.18329	121.00283	100.02929	11.10961	0.0821894	2.9444455	58	1	117 days	0.52	M-v	4	Williams	38837	1999 XP ₃₈
1999 XQ ₃₈	13.5	0.15	20000226	54.09063	344.90282	78.36323	9.37492	0.2915427	2.6790350	39	1	117 days	0.52	M-v	4	Williams	38837	1999 XQ ₃₈
1999 XR ₃₈	13.8	0.15	20000226	38.46491	329.85803	102.12433	13.73033	0.3019383	3.0884413	25	1	107 days	0.50	M-v	4	Williams		1999 XR ₃₈
1999 XA ₃₉	14.6	0.15	20000226	354.81003	240.73088	267.54226	12.86083	0.2197415	2.6755588	32	1	87 days	0.52	M-v	4	Williams	38837	1999 XA ₃₉
1999 XZ ₃₉	14.0	0.15	20000226	68.03824	276.71279	110.86621	10.30391	0.1429750	2.5619276	38	1	89 days	0.47	M-v	4	Williams		1999 XZ ₃₉
1999 XD ₄₀	14.3	0.15	20000226	59.67680	328.77626	106.00302	13.01775	0.1051016	2.3859378	46	1	98 days	0.51	M-v	4	Williams	38837	1999 XD ₄₀
1999 XG ₄₀	13.8	0.15	20000226	65.00022	8.48612	346.95812	1.97302	0.0797663	2.9324894	42	1	83 days	0.44	M-v	5	Marsden		1999 XG ₄₀
1999 XN ₄₀	15.0	0.15	20000226	32.92221	30.83706	3.05176	1.59224	0.0970716	2.9424359	31	1	67 days	0.58	M-v	5	Williams		1999 XN ₄₀
1999 XS ₄₀	15.1	0.15	19991118	305.54830	232.72649	242.37602	11.39955	0.1084274	3.0263459	25	1	35 days	0.56			Williams		1999 XS ₄₀
1999 XX ₄₀	16.6	0.15	19991118	14.93717	349.03185	41.89533	4.00995	0.1659730	2.2775125	33	1	41 days	0.48			Williams		1999 XX ₄₀
1999 XZ ₄₁	13.6	0.15	20000226	41.17220	150.76821	240.19371	12.57321	0.0967034	2.6071129	69	3	1978–2000	0.56	M-v	3	Williams	37888	1999 XZ ₄₁
1999 XJ ₄₃	17.0	0.15	19991118	355.74458	44.13191	16.84973	0.90520	0.1384307	2.3626612	37	1	34 days	0.58			Williams		1999 XJ ₄₃
1999 XK ₄₃	15.8	0.15	19991118	65.58390	270.03481	40.91009	4.16950	0.3348123	2.3390041	32	1	35 days	0.51			Williams		1999 XK ₄₃
1999 XN ₄₃	17.4	0.15	19991118	33.56055	112.78475	254.50381	5.18228	0.1905975	2.2795850	28	1	37 days	2.05			Williams		1999 XN ₄₃
1999 XY ₄₃	17.2	0.15	19991118	319.60693	140.66447	330.92661	1.86241	0.1730570	2.3260397	29	1	29 days	0.68			Williams		1999 XY ₄₃
1999 XC ₄₄	16.6	0.15	19991118	321.51085	113.80614	346.01678	2.06301	0.0665241	2.3504006	31	1	39 days	0.50			Williams		1999 XC ₄₄
1999 XK ₄₄	16.3	0.15	19991118	3.81512	58.09404	352.01550	1.13743	0.1884563	2.6291984	30	1	35 days	0.53			Williams		1999 XK ₄₄
1999 XT ₄₄	15.9	0.15	19991118	255.72090	127.16305	50.75400	3.05807	0.1589400	2.3490179	31	1	33 days	0.51			Williams		1999 XT ₄₄
1999 XU ₄₄	16.0	0.15	19991118	286.25586	85.45748	55.13199	6.06160	0.0965582	2.2912297	35	1	39 days	0.53			Williams		1999 XU ₄₄
1999 XO ₄₅	16.5	0.15	19991118	40.18535	306.04948	48.58876	8.50921	0.2348184	2.7614276	32	1	35 days	0.62			Williams		1999 XO ₄₅
1999 XW ₄₅	17.2	0.15	19991118	324.92118	138.07102	327.29102	1.60709	0.1683439	2.3913996	21	1	24 days	0.57			Williams		1999 XW ₄₅

1999 XX ₄₅	14.8	0.15	19991118	101.81391	239.58892	57.50798	13.32180	0.1761125	2.6971289	41	1	40 days	0.87		Williams	1999 XX ₄₅	
1999 XE ₄₆	14.5	0.15	19991118	185.82604	185.31683	48.62553	5.59335	0.1086028	2.2204241	41	1	39 days	0.43	D	Nakano	1999 XE ₄₆	
1999 XG ₄₆	14.4	0.15	19991118	157.59253	211.10873	47.42734	2.78866	0.0526254	2.9843191	20	1	35 days	0.53	D	Nakano	1999 XG ₄₆	
1999 XF ₄₇	16.4	0.15	19991118	318.05236	68.54187	45.25356	3.70443	0.1434202	2.3639760	34	1	41 days	0.68		Williams	1999 XF ₄₇	
1999 XD ₄₉	16.5	0.15	19991118	41.76916	105.13459	257.50208	4.68090	0.1745024	2.2489675	16	1	24 days	0.54		Williams	1999 XD ₄₉	
1999 XG ₅₂	16.3	0.15	19991118	33.57252	71.56586	310.30648	1.45287	0.1081988	2.6967136	23	1	24 days	0.60		Williams	1999 XG ₅₂	
1999 XM ₅₂	13.6	0.15	20000226	89.58636	296.96122	54.53918	4.93496	0.0501805	2.6862238	52	1	122 days	0.49	M-v	4	Williams	38839 1999 XM ₅₂
1999 XS ₅₂	14.7	0.15	19991118	49.75214	285.63164	55.40208	3.47737	0.3087496	3.2187912	21	1	29 days	0.45		Williams	1999 XS ₅₂	
1999 XV ₅₂	16.7	0.15	19991118	57.47382	293.83078	49.48894	1.79489	0.2103394	2.3649174	20	1	29 days	0.59		Williams	1999 XV ₅₂	
1999 XR ₅₅	14.5	0.15	20000226	303.08882	264.50757	255.75530	10.41627	0.1426410	2.6879283	30	1	64 days	0.47	M-v	5	Williams	1999 XR ₅₅
1999 XV ₅₅	16.8	0.15	19991208	351.99609	187.75763	256.15338	7.87327	0.2152575	2.4018364	30	1	52 days	0.53		Williams	1999 XV ₅₅	
1999 XZ ₅₅	13.9	0.15	19991118	47.84853	314.20930	41.37597	1.68402	0.2209117	3.2284470	23	1	35 days	0.44		Williams	1999 XZ ₅₅	
1999 XQ ₅₆	14.4	0.15	20000226	295.66659	99.61680	75.47031	5.78246	0.1492543	2.2542553	54	2	1982–2000	0.50	M-v	4	Williams	37898 1999 XQ ₅₆
1999 XY ₅₈	15.2	0.15	19991208	258.20878	284.41165	252.71909	13.27818	0.0411119	2.7170604	23	1	52 days	0.65		Williams	1999 XY ₅₈	
1999 XK ₆₀	13.7	0.15	20000226	17.47667	202.95981	224.18271	2.62951	0.1461016	3.2132323	51	2	1998–2000	0.50	M-v	3	Williams	37901 1999 XK ₆₀
1999 XW ₆₁	16.8	0.15	19991118	315.49996	82.99041	30.75011	2.62868	0.1433916	2.2793758	26	1	40 days	0.72		Williams	1999 XW ₆₁	
1999 XB ₆₂	16.1	0.15	19991118	273.67049	254.01904	259.61033	3.13155	0.0697087	2.2812645	29	1	29 days	0.70		Williams	1999 XB ₆₂	
1999 XG ₆₂	16.4	0.15	19991118	50.05092	113.30343	242.64638	5.79545	0.1516765	2.4016591	32	1	56 days	0.61		Williams	1999 XG ₆₂	
1999 XL ₆₄	13.5	0.15	20000226	351.36028	297.59830	165.12532	0.41916	0.1546170	3.2067676	54	1	122 days	0.54	M-v	4	Williams	38839 1999 XL ₆₄
1999 XS ₆₄	14.6	0.15	20000226	255.04285	309.47980	259.71383	5.45499	0.1152480	2.2919309	45	1	122 days	0.58	M-v	4	Williams	38839 1999 XS ₆₄
1999 XN ₆₈	14.2	0.15	20000226	152.89146	107.24053	192.33837	1.67898	0.0532377	2.4131673	38	2	1995–2000	0.46	M-v	4	Williams	38840 1999 XN ₆₈
1999 XR ₆₈	13.6	0.15	20000226	115.02641	236.69791	93.37951	6.66208	0.0751293	2.7341093	38	2	1998–2000	0.58	M-v	3	Williams	37905 1999 XR ₆₈
1999 XF ₇₁	14.4	0.15	20000226	148.50995	205.71062	92.56089	8.15790	0.1588567	2.2519328	45	2	1998–2000	0.49	M-v	3	Williams	37907 1999 XF ₇₁
1999 XS ₇₁	12.7	0.15	20000226	50.42631	297.80824	90.70647	6.74197	0.1622798	3.2023985	42	1	122 days	0.52	M-v	4	Williams	38840 1999 XS ₇₁
1999 XV ₇₁	14.9	0.15	20000226	318.29990	279.43115	236.93012	1.20313	0.1360694	2.3764790	26	1	116 days	0.46	M-v	4	Williams	1999 XV ₇₁
1999 XH ₇₂	12.7	0.15	20000226	53.16860	314.22079	80.45472	11.61460	0.0928560	2.9956555	23	1	88 days	0.38	M-v	5	Williams	38840 1999 XH ₇₂
1999 XZ ₇₂	14.9	0.15	20000226	40.74657	158.73202	249.05153	6.39622	0.1763394	2.5945013	38	1	96 days	0.42	M-v	4	Williams	38840 1999 XZ ₇₂
1999 XY ₇₃	14.3	0.15	20000226	31.44977	180.78937	244.32221	1.40569	0.2019646	2.3647476	45	2	1988–2000	0.66	M-v	4	Williams	38840 1999 XY ₇₃
1999 XG ₇₄	15.0	0.15	20000226	352.50526	244.83073	238.23639	3.20220	0.2424930	2.6445754	42	1	88 days	0.51	M-v	4	Williams	38840 1999 XG ₇₄
1999 XU ₇₅	13.7	0.15	20000226	27.82120	337.10408	85.11591	11.93383	0.2163819	3.1421111	38	1	90 days	0.38	M-v	4	Williams	38840 1999 XU ₇₅
1999 XW ₇₅	13.6	0.15	20000226	293.45282	285.45179	264.12728	24.36058	0.2098711	3.1350970	26	1	89 days	0.56	M-v	5	Williams	1999 XW ₇₅
1999 XY ₇₅	13.4	0.15	20000226	332.37669	358.06243	144.45103	2.09438	0.1829374	3.2066267	24	1	88 days	0.41	M-v	5	Williams	1999 XY ₇₅
1999 XO ₇₆	15.1	0.15	20000226	342.10668	234.41675	258.83916	3.79419	0.1025410	2.2587771	38	3	1997–2000	0.61	M-v	3	Williams	38840 1999 XO ₇₆
1999 XU ₇₇	13.6	0.15	20000226	44.04267	311.47496	92.85423	8.16863	0.2173880	2.7933137	34	1	115 days	0.37	M-v	4	Williams	1999 XU ₇₇
1999 XB ₇₈	14.6	0.15	20000226	28.63220	159.02769	257.04956	4.28367	0.2419478	2.6335935	51	3	1982–2000	0.79	M-v	3	Williams	38840 1999 XB ₇₈
1999 XG ₇₈	14.0	0.15	19991118	141.52677	29.12590	253.99721	13.03429	0.0640705	2.5620075	18	1	24 days	0.56		Williams	1999 XG ₇₈	
1999 XB ₈₀	15.1	0.15	19991208	54.62732	114.39857	252.12503	10.76858	0.1484114	2.6809051	20	1	54 days	0.56		Williams	1999 XB ₈₀	
1999 XO ₈₂	11.5	0.15	20000226	329.28293	25.17404	98.83534	7.39318	0.1133756	5.2353354	41	3	1994–2000	0.68	M-v	3	Williams	37912 1999 XO ₈₂
1999 XU ₈₂	13.5	0.15	20000226	338.65337	230.84446	265.61066	8.00650	0.0981256	2.7811796	61	2	1998–2000	0.57	M-v	3	Williams	38841 1999 XU ₈₂
1999 XX ₈₂	13.5	0.15	20000226	3.54670	208.73762	257.28371	8.93160	0.1490570	3.0621806	52	2	1998–2000	0.70	M-v	3	Williams	38841 1999 XX ₈₂
1999 XG ₈₃	12.3	0.15	20000226	47.45513	302.79761	97.39158	19.49488	0.2508641	3.0966268	48	1	94 days	0.49	M-v	4	Williams	38841 1999 XG ₈₃
1999 XP ₈₃	14.8	0.15	20000226	338.14632	267.89680	239.02139	1.62617	0.1281213	2.3897405	30	1	88 days	0.47	M-v	4	Williams	1999 XP ₈₃
1999 XY ₈₃	14.8	0.15	20000226	5.89879	243.35475	228.11277	2.46014	0.1635646	2.6215392	25	1	88 days	0.46	M-v	4	Williams	1999 XY ₈₃
1999 XC ₈₄	14.0	0.15	20000226	186.26026	186.53090	102.21663	12.59401	0.1192376	2.3074553	41	1	93 days	0.45	M-v	4	Williams	1999 XC ₈₄
1999 XK ₈₄	14.6	0.15	20000226	27.16671	194.91198	254.28714	6.22752	0.0687852	2.2754269	46	2	1977–2000	0.58	M-v	3	Williams	38841 1999 XK ₈₄
1999 XR ₈₅	14.6	0.15	20000226	350.84025	307.53507	190.96932	1.60297	0.1545162	2.3918700	55	4	1993–2000	0.49	M-v	1	Williams	38842 1999 XR ₈₅
1999 XO ₈₆	15.2	0.15	20000226	46.33448	230.66632	190.14563	1.79315	0.1966847	2.3603320	41	2	1995–2000	0.58	M-v	4	Williams	38842 1999 XO ₈₆
1999 XZ ₈₆	13.8	0.15	20000226	345.96265	222.03103	285.66556	10.99050	0.1883053	2.6581627	74	2	1998–2000	0.52	M-v	3	Williams	38842 1999 XZ ₈₆
1999 XO ₈₇	14.4	0.15	20000226	266.07832	319.32324	252.29015	6.08469	0.0577340	2.2557087	34	3	1997–2000	0.50	M-v	2	Williams	37917 1999 XO ₈₇
1999 XA ₈₈	13.6	0.15	20000226	286.13568	82.87447	112.94982	6.84300	0.0818305	2.3891846	41	2	1998–2000	0.63	M-v	4	Williams	38590 1999 XA ₈₈
1999 XJ ₉₀	14.0	0.15	20000226	335.57391	85.76476	78.64670	2.75846	0.2800946	3.0311627	46	1	112 days	0.63	M-v	4	Williams	38843 1999 XJ ₉₀
1999 XS ₉₀	14.5	0.15	20000226	306.16095	80.52445	101.57688	8.03870	0.0671785	2.2922908	52	1	93 days	0.53	M-v	4	Williams	1999 XS ₉₀
1999 XF ₉₁	13.7	0.15	20000226	304.61314	66.60417	119.59100	2.55404	0.1009814	3.0889589	42	2	1995–2000	0.56	M-v	4	Marsden	38591 1999 XF ₉₁

1999 XN ₉₁	13.4	0.15	20000226	187.19079	138.59544	155.24992	2.32902	0.0559908	3.0214856	41	3	1996–2000	0.72	M-v	3	Williams	38591	1999 XN ₉₁
1999 XJ ₉₃	14.2	0.15	20000226	4.01262	208.48106	278.85434	11.73652	0.2517822	2.5818827	49	1	115 days	0.35	M-v	3	Williams	38843	1999 XJ ₉₃
1999 XL ₉₃	15.0	0.15	20000226	53.67433	333.10240	89.33081	5.41698	0.1249880	2.1766339	69	1	113 days	0.64	M-v	4	Williams	38843	1999 XL ₉₃
1999 XM ₉₃	14.3	0.15	20000226	84.31231	80.13010	305.49924	3.18462	0.1236199	2.6623230	67	2	1998–2000	0.56	M-v	3	Marsden	38843	1999 XM ₉₃
1999 XO ₉₃	15.1	0.15	20000226	13.39044	30.00792	83.71782	6.33192	0.1035179	2.2892556	52	1	115 days	0.62	M-v	4	Williams	38844	1999 XO ₉₃
1999 XU ₉₃	14.6	0.15	20000226	19.59465	359.62069	102.28681	12.27927	0.1723067	2.6996984	48	1	119 days	0.55	M-v	3	Williams	38844	1999 XU ₉₃
1999 XG ₉₄	14.4	0.15	20000226	148.73464	35.46007	296.69013	6.04518	0.1316139	2.3579696	50	2	1998–2000	0.68	M-v	3	Williams	38844	1999 XG ₉₄
1999 XM ₉₄	15.0	0.15	20000226	356.89847	231.28935	270.47237	1.16156	0.1712364	2.3293470	54	1	102 days	0.50	M-v	3	Williams	38844	1999 XM ₉₄
1999 XT ₉₄	14.6	0.15	20000226	40.69684	26.71497	57.93026	1.61539	0.1695448	2.4288442	60	1	109 days	0.46	M-v	4	Williams	38844	1999 XT ₉₄
1999 XU ₉₄	14.7	0.15	20000226	14.71217	79.13481	41.54518	1.79570	0.1544161	2.5386930	61	1	109 days	0.53	M-v	4	Williams	38844	1999 XU ₉₄
1999 XZ ₉₄	14.5	0.15	20000226	339.79038	67.70742	102.07234	4.58477	0.1896955	2.6065479	63	1	109 days	0.44	M-v	4	Williams	38844	1999 XZ ₉₄
1999 XB ₉₅	12.3	0.15	20000226	107.21027	289.59126	88.21672	18.55284	0.1839261	3.1644035	55	3	1994–2000	0.61	M-v	3	Williams	38592	1999 XB ₉₅
1999 XE ₉₆	13.4	0.15	20000226	37.93598	145.96828	261.64314	8.23385	0.0597933	2.6335731	47	1	111 days	0.53	M-v	4	Williams	38844	1999 XE ₉₆
1999 XF ₉₆	15.1	0.15	20000226	45.31907	117.66920	275.28226	4.32276	0.2397215	2.3497579	42	1	151 days	0.50	M-v	4	Williams	38844	1999 XF ₉₆
1999 XJ ₉₆	15.7	0.15	20000226	42.92625	134.51641	271.55005	3.13331	0.1655686	2.3148741	36	1	91 days	0.58	M-v	4	Williams		1999 XJ ₉₆
1999 XQ ₉₆	10.2	0.15	20000226	345.80634	201.46953	260.14423	29.53528	0.1084747	5.1802721	43	1	111 days	0.45	M-v	4	Williams	38845	1999 XQ ₉₆
1999 XT ₉₆	13.1	0.15	20000226	354.30457	208.68649	259.80871	19.39341	0.2326092	3.1951211	60	1	152 days	0.46	M-v	3	Williams	38845	1999 XT ₉₆
1999 XB ₉₇	14.3	0.15	20000226	302.85535	256.90995	273.43413	5.72149	0.1239133	2.3942080	43	2	1998–2000	0.65	M-v	4	Williams	38845	1999 XB ₉₇
1999 XL ₉₇	12.6	0.15	20000226	215.04297	331.57077	271.72489	8.10076	0.1432642	3.1742102	31	1	116 days	0.56	M-v	4	Williams		1999 XL ₉₇
1999 XJ ₉₈	15.4	0.15	20000226	20.10929	182.94240	260.23252	4.97710	0.1700609	2.3566369	33	2	1993–2000	0.47	M-v	3	Williams	38845	1999 XJ ₉₈
1999 XK ₉₈	12.5	0.15	20000226	246.38585	321.24889	263.28205	11.65785	0.1287247	2.6544069	69	3	1993–2000	0.58	M-v	2	Williams	38845	1999 XK ₉₈
1999 XM ₉₈	13.8	0.15	20000226	325.44743	69.62696	75.15002	5.09972	0.0456356	2.2406430	31	1	109 days	0.39	M-v	4	Williams		1999 XM ₉₈
1999 XT ₉₈	12.8	0.15	20000226	19.18035	0.00749	80.29165	12.05122	0.0285715	3.0519302	59	2	1997–2000	0.62	M-v	3	Williams	38845	1999 XT ₉₈
1999 XW ₉₈	14.1	0.15	20000226	329.86386	236.99164	263.54520	12.29513	0.1012201	2.7344318	47	2	1998–2000	0.57	M-v	3	Williams	38845	1999 XW ₉₈
1999 XY ₉₈	14.5	0.15	20000226	0.90619	103.20101	8.26251	2.21002	0.1648935	2.3926717	54	1	122 days	0.55	M-v	4	Williams	38845	1999 XY ₉₈
1999 XZ ₉₈	14.4	0.15	20000226	319.75076	250.83647	269.57399	3.79941	0.1399185	2.4337820	26	1	109 days	0.60	M-v	5	Williams		1999 XZ ₉₈
1999 XC ₉₉	14.6	0.15	20000226	307.25104	239.24689	292.36162	4.23006	0.1099045	2.3541321	42	4	1980–2000	0.66	M-v	2	Williams	38845	1999 XC ₉₉
1999 XO ₉₉	14.1	0.15	20000226	55.98883	322.64369	76.46576	4.94716	0.1406133	2.5710773	35	1	114 days	0.45	M-v	4	Williams	38845	1999 XO ₉₉
1999 XR ₉₉	14.3	0.15	20000226	245.84415	305.09745	279.14582	3.55210	0.1885149	2.2179703	52	3	1995–2000	0.71	M-v	3	Williams	38845	1999 XR ₉₉
1999 XB ₁₀₀	14.3	0.15	20000226	311.71170	259.49622	278.14059	3.91951	0.1710261	2.3609926	62	4	1982–2000	0.59	M-v	2	Williams	38845	1999 XB ₁₀₀
1999 XE ₁₀₀	12.9	0.15	20000226	25.40184	350.54411	81.84331	8.63383	0.1848463	3.2071016	73	3	1997–2000	0.63	M-v	3	Williams	38845	1999 XE ₁₀₀
1999 XK ₁₀₀	13.7	0.15	20000226	59.90278	304.10351	87.42983	4.34220	0.1788560	2.6695802	46	4	1990–2000	0.62	M-v	1	Williams	37929	1999 XK ₁₀₀
1999 XQ ₁₀₀	14.4	0.15	20000226	4.97129	196.82549	272.95031	13.44720	0.1325896	2.5701927	31	1	110 days	0.43	M-v	3	Williams	38846	1999 XQ ₁₀₀
1999 XT ₁₀₀	13.3	0.15	20000226	37.39279	136.84026	276.47038	23.73788	0.2670722	3.1806745	57	1	110 days	0.47	M-v	3	Williams	38846	1999 XT ₁₀₀
1999 XV ₁₀₀	14.3	0.15	19991228	46.37416	102.71788	286.34426	5.46859	0.2250379	2.5256002	42	1	55 days	0.50			Williams		1999 XV ₁₀₀
1999 XB ₁₀₁	14.5	0.15	20000226	316.98720	237.55791	287.44903	5.15630	0.0448591	2.3140090	48	1	88 days	0.43	M-v	4	Williams		1999 XB ₁₀₁
1999 XF ₁₀₁	14.3	0.15	20000226	318.07528	227.19966	311.89373	3.87445	0.1946018	2.6184397	35	1	88 days	0.58	M-v	4	Williams	38846	1999 XF ₁₀₁
1999 XK ₁₀₁	14.9	0.15	20000226	28.89416	140.20443	295.76299	4.94295	0.2729514	2.5603972	47	1	109 days	0.54	M-v	4	Williams	38846	1999 XK ₁₀₁
1999 XZ ₁₀₁	14.4	0.15	20000226	68.45606	86.05351	300.39508	4.83965	0.2249564	2.5576937	55	1	89 days	0.52	M-v	4	Williams		1999 XZ ₁₀₁
1999 XZ ₁₀₂	13.8	0.15	20000226	46.10872	317.48313	85.14780	4.80853	0.2940424	2.8738744	35	1	90 days	0.37	M-v	4	Williams		1999 XZ ₁₀₂
1999 XG ₁₀₃	15.6	0.15	20000226	36.32608	87.14079	349.77931	1.50207	0.1680094	2.2408907	38	1	109 days	0.51	M-v	4	Williams	38846	1999 XG ₁₀₃
1999 XP ₁₀₃	14.5	0.15	20000226	54.71267	118.46852	291.62211	11.77934	0.1773129	2.6780406	33	1	79 days	0.46	M-v	4	Williams	38846	1999 XP ₁₀₃
1999 XV ₁₀₃	15.0	0.15	20000226	341.82309	211.17917	292.25122	3.69286	0.0591805	2.2082822	35	1	88 days	0.51	M-v	5	Williams		1999 XV ₁₀₃
1999 XC ₁₀₄	15.4	0.15	20000226	41.83801	349.79590	77.98432	9.15750	0.2227177	2.2320707	49	1	113 days	0.56	M-v	4	Williams	38847	1999 XC ₁₀₄
1999 XD ₁₀₄	14.4	0.15	20000226	19.65080	165.50238	291.58070	12.39910	0.2360991	2.6342650	73	1	114 days	0.44	M-v	3	Williams	38847	1999 XD ₁₀₄
1999 XS ₁₀₄	14.4	0.15	20000226	316.81279	113.57443	56.25827	5.29822	0.0609041	2.2024973	69	1	121 days	0.54	M-v	4	Williams	38847	1999 XS ₁₀₄
1999 XD ₁₀₅	13.4	0.15	20000226	17.65594	277.77175	140.94477	10.67330	0.0810258	3.0051293	26	1	119 days	0.59	M-v	4	Williams	38847	1999 XD ₁₀₅
1999 XE ₁₀₅	14.0	0.15	20000226	39.26972	228.48814	162.52667	9.84239	0.2068111	2.7455358	45	2	1994–2000	0.62	M-v	3	Williams	37931	1999 XE ₁₀₅
1999 XK ₁₀₅	13.1	0.15	20000226	41.44325	127.31007	274.50817	9.72860	0.1190951	3.0422877	67	2	1998–2000	0.54	M-v	3	Williams	38847	1999 XK ₁₀₅
1999 XR ₁₀₅	14.4	0.15	20000226	335.04985	261.30274	234.74621	12.31031	0.1453245	2.7254207	55	1	113 days	0.56	M-v	4	Williams		1999 XR ₁₀₅
1999 XB ₁₀₆	13.7	0.15	20000226	46.11356	276.91274	116.49786	13.60651	0.3774283	2.7395450	81	3	1991–2000	0.52	M-v	2	Williams	38847	1999 XB ₁₀₆
1999 XC ₁₀₆	14.7	0.15	20000226	53.90735	162.73921	251.26596	0.39982	0.1818185	2.4150627	57	1	113 days	0.49	M-v	4	Williams	38847	1999 XC ₁₀₆
1999 XC ₁₀₇	14.6	0.15	20000226	37.28564	326.28878	62.83791	3.29495	0.2157833	2.4028830	53	3	1988–2000	0.73	M-v	2	Williams	38847	1999 XC ₁₀₇

1999 XP ₁₀₇	14.7	0.15	19991118	323.16374	209.00370	244.72595	3.78442	0.1314289	3.1858411	32	1	38 days	0.87		Williams	1999 XP ₁₀₇
1999 XX ₁₀₇	16.1	0.15	19991118	1.57059	154.63706	252.30112	3.97654	0.2475127	2.7002090	35	1	44 days	0.56		Williams	1999 XX ₁₀₇
1999 XY ₁₀₇	15.2	0.15	19991029	255.27744	45.08384	104.17771	2.53032	0.0117512	2.5884476	37	1	53 days	0.44		Williams	1999 XY ₁₀₇
1999 XB ₁₀₈	14.0	0.15	20000226	44.32292	317.43489	55.64928	17.48179	0.1360085	3.1421879	54	1	78 days	0.45	M-v 4	Williams	1999 XB ₁₀₈
1999 XC ₁₀₈	15.9	0.15	19991029	33.87691	267.04983	88.87612	3.73922	0.1705039	2.6470970	36	1	53 days	0.50		Williams	1999 XC ₁₀₈
1999 XT ₁₀₈	15.7	0.15	19991118	20.67653	16.35285	5.08860	3.19933	0.1669659	2.6378397	30	1	44 days	0.50		Williams	1999 XT ₁₀₈
1999 XL ₁₀₉	13.7	0.15	20000226	2.33498	3.53082	75.45563	9.45272	0.2425575	3.0862931	59	1	136 days	0.44	M-v 3	Williams	38847 1999 XL ₁₀₉
1999 XS ₁₀₉	14.4	0.15	20000226	20.28359	325.81009	97.59265	4.04277	0.1948404	2.3953718	82	4	1991–2000	0.61	M-v 2	Williams	38848 1999 XS ₁₀₉
1999 XL ₁₁₀	17.1	0.15	19991118	286.94483	245.00423	255.54923	2.60220	0.0979625	2.3153845	20	1	28 days	0.57		Williams	1999 XL ₁₁₀
1999 XW ₁₁₀	15.9	0.15	19991118	309.04206	213.18903	267.91145	3.86875	0.1678709	2.4297190	43	1	39 days	0.50		Williams	1999 XW ₁₁₀
1999 XY ₁₁₀	14.2	0.15	20000226	304.91648	318.33332	188.20534	4.63445	0.1036083	2.5234903	62	3	1995–2000	0.58	M-v 2	Williams	38848 1999 XY ₁₁₀
1999 XG ₁₁₁	13.6	0.15	20000226	333.56916	114.26274	49.93712	13.52476	0.1159930	2.6967527	34	1	101 days	0.37	M-v 4	Williams	38848 1999 XG ₁₁₁
1999 XJ ₁₁₁	14.2	0.15	20000226	252.47791	172.07805	86.35225	26.47854	0.1916997	2.2649342	56	1	89 days	0.51	M-v 4	Williams	1999 XJ ₁₁₁
1999 XD ₁₁₃	12.8	0.15	20000226	293.46027	255.23284	269.27895	23.56344	0.2146888	2.2999683	45	1	159 days	0.52	M-v 4	Williams	38848 1999 XD ₁₁₃
1999 XA ₁₁₅	14.2	0.15	20000226	22.40661	131.12881	279.01730	13.11884	0.3430338	2.7518347	38	1	164 days	0.42	M-v 3	Williams	38848 1999 XA ₁₁₅
1999 XK ₁₁₅	15.7	0.15	19991118	130.00024	250.98840	29.13491	4.37493	0.1382806	2.3018309	18	1	29 days	0.65		Williams	1999 XK ₁₁₅
1999 XO ₁₁₅	17.1	0.15	19991118	346.54578	31.60528	45.92785	6.69652	0.0871067	2.1968732	25	1	42 days	0.54		Williams	1999 XO ₁₁₅
1999 XN ₁₁₆	14.5	0.15	19991118	302.87589	72.50554	38.43569	12.56460	0.0381190	3.0428807	31	1	40 days	0.51		Williams	1999 XN ₁₁₆
1999 XA ₁₁₇	14.6	0.15	20000226	24.63923	146.73827	270.24338	5.73298	0.1121303	2.3493215	49	1	123 days	0.54	M-v 3	Williams	38848 1999 XA ₁₁₇
1999 XB ₁₁₇	14.6	0.15	20000226	35.45602	346.20860	47.87811	14.13003	0.1855864	2.7267726	52	1	135 days	0.52	M-v 3	Williams	1999 XB ₁₁₇
1999 XD ₁₁₇	15.9	0.15	19991118	38.06901	317.47418	39.77177	7.49158	0.2185569	2.3595917	39	1	40 days	0.61		Williams	1999 XD ₁₁₇
1999 XM ₁₁₇	14.2	0.15	20000226	320.03904	135.12878	358.34203	4.23028	0.1456736	2.5746390	54	1	122 days	0.43	M-v 4	Williams	38848 1999 XM ₁₁₇
1999 XY ₁₁₇	16.7	0.15	19991118	333.45318	157.51521	290.53848	2.42057	0.1180355	2.2369121	32	1	40 days	0.65		Williams	1999 XY ₁₁₇
1999 XD ₁₁₈	14.1	0.15	20000226	109.05882	282.83309	37.71781	5.02704	0.1389964	2.1918989	67	3	1994–2000	0.50	M-v 1	Williams	38848 1999 XD ₁₁₈
1999 XJ ₁₁₈	14.5	0.15	20000226	101.80164	284.14954	37.34006	7.40834	0.1269431	2.7588528	41	1	68 days	0.57	M-v 5	Williams	1999 XJ ₁₁₈
1999 XW ₁₁₈	17.4	0.15	19991118	15.41693	336.07878	56.43068	3.32728	0.2269258	2.3457724	36	1	40 days	0.54		Williams	1999 XW ₁₁₈
1999 XY ₁₁₈	13.9	0.15	20000226	8.43431	184.36750	258.95265	3.53095	0.1185955	2.2933462	51	1	122 days	0.32	M-v 3	Williams	38849 1999 XY ₁₁₈
1999 XZ ₁₁₈	16.7	0.15	19991118	2.09125	21.26781	33.23885	2.08317	0.2194479	2.7373047	21	1	32 days	0.72		Williams	1999 XZ ₁₁₈
1999 XE ₁₁₉	17.6	0.15	19991118	26.18863	350.32355	24.70039	5.13651	0.2125609	2.3600365	28	1	40 days	0.69		Williams	1999 XE ₁₁₉
1999 XK ₁₁₉	15.8	0.15	19991118	7.05882	19.72846	27.31550	5.24542	0.0924248	2.5767954	33	1	39 days	0.49		Williams	1999 XK ₁₁₉
1999 XP ₁₁₉	16.2	0.15	19991118	339.03264	41.26337	44.97678	9.36922	0.1810315	2.4557356	31	1	40 days	0.52		Williams	1999 XP ₁₁₉
1999 XX ₁₁₉	15.8	0.15	19991118	36.64319	348.13384	23.50570	4.07823	0.1064753	2.2899700	29	1	40 days	0.69		Williams	1999 XX ₁₁₉
1999 XL ₁₂₀	15.4	0.15	20000226	207.88214	195.12476	42.41810	10.03978	0.0400913	2.3768344	25	1	68 days	0.50	M-v 4	Williams	1999 XL ₁₂₀
1999 XQ ₁₂₀	16.1	0.15	19991118	65.54334	298.53100	33.17002	4.17237	0.1859667	2.2494412	27	1	40 days	0.73		Williams	1999 XQ ₁₂₀
1999 XT ₁₂₀	13.7	0.15	20000226	270.73860	274.72283	260.32643	12.57583	0.0150881	2.4550555	52	1	122 days	0.48	M-v 4	Williams	38849 1999 XT ₁₂₀
1999 XZ ₁₂₀	14.9	0.15	20000226	60.00805	40.96895	319.78109	2.85750	0.2355628	2.6549688	28	3	1986–1999	0.58	M-v 3	Williams	38596 1999 XZ ₁₂₀
1999 XA ₁₂₁	15.3	0.15	19991118	93.96585	276.90481	45.70077	9.27934	0.0296878	2.6569161	27	1	40 days	0.59		Williams	1999 XA ₁₂₁
1999 XB ₁₂₁	16.2	0.15	19991118	29.99970	335.49579	44.95776	7.24748	0.1334822	2.3276016	23	1	40 days	0.36		Williams	1999 XB ₁₂₁
1999 XN ₁₂₁	15.5	0.15	19991118	62.07017	282.44551	50.31366	9.91608	0.2431989	2.7207556	21	1	40 days	0.56		Williams	1999 XN ₁₂₁
1999 XG ₁₂₂	14.7	0.15	20000226	293.23794	268.63931	254.20530	21.24353	0.1872347	2.3860499	25	1	62 days	0.59	M-v 5	Marsden	1999 XG ₁₂₂
1999 XA ₁₂₆	16.5	0.15	20000226	35.17176	20.41540	31.12565	6.02318	0.1311653	2.2764644	21	1	68 days	0.42	M-v 4	Williams	1999 XA ₁₂₆
1999 XP ₁₂₆	13.6	0.15	20000226	15.09896	160.15226	271.52473	8.92921	0.2610924	2.7649949	78	3	1990–2000	0.57	M-v 2	Williams	38849 1999 XP ₁₂₆
1999 XS ₁₂₆	14.6	0.15	20000226	356.54473	40.72521	52.20451	13.57144	0.1129832	2.8039105	35	1	61 days	0.56	M-v 5	Williams	1999 XS ₁₂₆
1999 XZ ₁₂₆	14.0	0.15	20000226	207.84149	189.71350	46.14860	9.90686	0.0161150	2.9699228	27	1	62 days	0.39	M-v 4	Williams	1999 XZ ₁₂₆
1999 XJ ₁₂₇	13.2	0.15	20000226	51.73535	263.81598	107.13813	14.37426	0.1871219	2.9449512	46	1	93 days	0.58	M-v 4	Williams	1999 XJ ₁₂₇
1999 XQ ₁₂₇	14.6	0.15	20000226	61.98413	269.52022	113.30347	5.44091	0.1573791	2.2864271	51	1	121 days	0.48	M-v 4	Williams	38849 1999 XQ ₁₂₇
1999 XT ₁₂₇	14.2	0.15	20000226	82.35293	137.00372	208.22833	8.70074	0.1239489	2.5157230	61	3	1991–2000	0.46	M-v 1	Williams	37946 1999 XT ₁₂₇
1999 XU ₁₂₇	13.7	0.15	20000226	234.74250	61.12606	158.08953	5.45565	0.0972070	2.4300836	48	3	1989–2000	0.59	M-v 3	Williams	37946 1999 XU ₁₂₇
1999 XW ₁₂₇	12.3	0.15	20000226	53.22128	30.83141	43.18044	14.27026	0.1291516	2.5962700	43	1	109 days	0.28	M-v 4	Williams	38850 1999 XW ₁₂₇
1999 XH ₁₂₈	16.3	0.15	19991118	20.67125	61.57170	334.24599	1.76374	0.1888046	2.4589055	17	1	29 days	0.33		Williams	1999 XH ₁₂₈
1999 XP ₁₂₈	14.4	0.15	20000226	156.10961	238.83663	46.83333	4.52623	0.1382259	2.7229100	46	3	1997–2000	0.74	M-v 3	Williams	38596 1999 XP ₁₂₈
1999 XQ ₁₃₂	13.8	0.15	20000226	342.80707	194.01989	297.06131	13.41088	0.0798321	2.3631191	35	3	1982–2000	0.52	M-v 2	Williams	38597 1999 XQ ₁₃₂
1999 XJ ₁₃₃	12.6	0.15	20000226	345.93342	79.48211	53.44506	13.93954	0.1232822	2.5981094	33	1	76 days	0.54	M-v 5	Williams	1999 XJ ₁₃₃

2000 MAR. 20

M.P.C. 39563

1999 XW ₁₃₃	13.5	0.15	20000226	342.59668	116.39230	16.87234	10.68728	0.0670371	3.0532441	60	2	1998–2000	0.66	M-v	4	Williams	38850	1999 XW ₁₃₃
1999 XA ₁₃₄	15.5	0.15	20000226	26.64165	123.14202	328.42612	7.93472	0.1279755	2.3270124	49	1	83 days	0.55	M-v	4	Williams	38850	1999 XA ₁₃₄
1999 XB ₁₃₄	14.0	0.15	20000226	0.11999	180.02345	305.77178	16.43889	0.2159504	2.7636277	72	2	1998–2000	0.53	M-v	3	Williams	38850	1999 XB ₁₃₄
1999 XM ₁₃₄	14.3	0.15	20000226	5.56153	70.51020	50.30595	13.72843	0.1437923	2.5975728	36	1	102 days	0.69	M-v	4	Williams	38850	1999 XM ₁₃₄
1999 XJ ₁₃₅	13.9	0.15	20000226	309.13869	278.70637	264.43311	26.13855	0.1633161	2.5689681	30	1	91 days	0.49	M-v	5	Williams	38850	1999 XJ ₁₃₅
1999 XO ₁₃₅	16.2	0.15	20000226	352.15423	253.83398	254.34605	20.19041	0.5053107	3.1456047	35	1	80 days	0.45	M-v	4	Williams	38850	1999 XO ₁₃₅
1999 XG ₁₃₆	14.7	0.15	20000226	65.12295	349.02380	75.08450	23.99865	0.0928947	1.9685761	31	1	75 days	0.33	M-v	4	Williams		1999 XG ₁₃₆
1999 XM ₁₃₆	15.5	0.15	20000226	45.08571	86.64531	317.90549	26.47622	0.4216454	2.6265043	47	1	84 days	0.44	M-v	4	Williams	38850	1999 XM ₁₃₆
1999 XO ₁₃₆	14.2	0.15	20000226	327.34763	92.62937	98.48051	7.43873	0.1411892	2.2573157	59	1	117 days	0.46	M-v	4	Williams	38850	1999 XO ₁₃₆
1999 XR ₁₃₆	13.2	0.15	20000226	69.63708	85.17048	316.77596	11.74930	0.2711508	2.6171372	91	1	124 days	0.48	M-v	4	Williams	38850	1999 XR ₁₃₆
1999 XS ₁₃₆	12.4	0.15	20000226	357.48244	215.39162	299.72998	15.90842	0.1311273	2.5684943	64	1	130 days	0.53	M-v	3	Williams	38850	1999 XS ₁₃₆
1999 XT ₁₃₆	13.8	0.15	20000226	44.92706	294.50993	93.09141	10.59126	0.1863545	2.7234766	77	2	1990–2000	0.55	M-v	3	Williams	38850	1999 XT ₁₃₆
1999 XU ₁₃₆	14.8	0.15	20000226	32.79471	286.84211	124.14739	5.86763	0.2019351	2.3887825	54	1	120 days	0.52	M-v	3	Williams	38850	1999 XU ₁₃₆
1999 XX ₁₃₆	14.0	0.15	20000226	86.02749	241.50233	114.24517	9.84548	0.1258519	2.3196783	66	2	1998–2000	0.53	M-v	3	Williams	38850	1999 XX ₁₃₆
1999 XA ₁₃₇	13.5	0.15	20000226	47.23129	296.73799	96.73696	10.54936	0.0881922	2.9708021	50	3	1997–2000	0.56	M-v	2	Williams	37951	1999 XA ₁₃₇
1999 XK ₁₄₁	17.1	0.15	20000226	18.10371	173.71265	259.82359	43.70704	0.3413904	2.5324189	63	1	75 days	0.51	M-v	4	Williams		1999 XK ₁₄₁
1999 XO ₁₄₁	17.7	0.15	20000226	183.35808	192.29168	111.36066	2.93666	0.1746164	1.6704023	30	1	73 days	0.63	M-v	5	Williams	38851	1999 XO ₁₄₁
1999 XP ₁₄₁	14.5	0.15	20000226	40.54130	141.44994	298.92408	24.74869	0.2437471	2.2451463	38	1	120 days	0.34	M-v	3	Williams	38851	1999 XP ₁₄₁
1999 XU ₁₄₁	14.8	0.15	20000226	339.38067	83.64592	98.89760	28.65600	0.3537482	2.6347430	36	1	101 days	0.56	M-v	4	Williams		1999 XU ₁₄₁
1999 XD ₁₄₂	15.2	0.15	20000226	344.00203	69.01085	57.80752	17.20709	0.2196408	2.5660004	24	1	60 days	0.56	M-v	5	Williams		1999 XD ₁₄₂
1999 XG ₁₄₂	13.7	0.15	20000226	37.85607	341.56813	77.76617	31.41578	0.1564434	2.6651938	34	1	115 days	0.51	M-v	4	Williams	38851	1999 XG ₁₄₂
1999 XT ₁₄₂	13.4	0.15	20000226	321.34952	217.83498	286.62536	30.04317	0.0439680	2.8001167	40	1	82 days	0.55	M-v	4	Williams	38851	1999 XT ₁₄₂
1999 XV ₁₄₂	15.2	0.15	20000226	326.31353	234.27377	288.20278	23.34873	0.1984162	2.3127524	39	1	83 days	0.53	M-v	4	Williams	38851	1999 XV ₁₄₂
1999 XF ₁₄₃	13.4	0.15	20000226	84.35714	210.87326	133.84774	10.85085	0.1873573	2.6541406	58	3	1990–2000	0.55	M-v	1	Williams	38851	1999 XF ₁₄₃
1999 XJ ₁₄₃	13.5	0.15	20000226	92.79273	135.21761	200.24634	13.55687	0.2090127	2.6648613	70	3	1971–2000	0.60	M-v	2	Williams	38851	1999 XJ ₁₄₃
1999 XK ₁₄₃	12.6	0.15	20000226	123.22649	212.81311	103.79186	17.90585	0.0858956	2.8957789	48	1	121 days	0.50	M-v	4	Williams	38851	1999 XK ₁₄₃
1999 XL ₁₄₃	13.5	0.15	20000226	353.49513	291.95643	172.44835	9.10448	0.1245680	2.7679117	70	3	1996–2000	0.61	M-v	3	Williams	38851	1999 XL ₁₄₃
1999 XO ₁₄₃	15.2	0.15	20000226	15.87315	258.78037	231.97244	8.68449	0.1887981	2.2379779	39	1	90 days	0.50	M-v	4	Williams		1999 XO ₁₄₃
1999 XE ₁₄₄	13.7	0.15	20000226	62.62425	240.21681	139.51676	3.38509	0.1364861	2.6275637	48	1	121 days	0.48	M-v	4	Williams	38852	1999 XE ₁₄₄
1999 XF ₁₄₄	13.1	0.15	20000226	338.64852	82.93832	65.75558	13.30700	0.1387336	2.5706761	41	3	1976–2000	0.53	M-v	2	Williams	38852	1999 XF ₁₄₄
1999 XH ₁₄₄	13.6	0.15	20000226	56.07711	342.07039	62.15311	14.98733	0.1916167	2.7042989	51	2	1997–2000	0.55	M-v	3	Williams	38852	1999 XH ₁₄₄
1999 XQ ₁₄₄	13.9	0.15	20000226	161.73993	13.46664	277.63816	13.51143	0.0568424	2.4302860	63	2	1998–2000	0.54	M-v	3	Williams	38852	1999 XQ ₁₄₄
1999 XY ₁₄₄	15.1	0.15	19991118	4.64686	169.85880	231.59055	8.84656	0.0811745	3.4880103	18	1	32 days	0.54			Williams		1999 XY ₁₄₄
1999 XB ₁₄₈	17.8	0.15	19991118	12.39248	159.42012	241.65896	4.65493	0.1584819	2.2863443	19	1	31 days	0.39			Williams		1999 XB ₁₄₈
1999 XZ ₁₄₈	16.6	0.15	19991118	247.24728	290.76040	248.02596	2.93979	0.0820442	2.3303144	23	1	34 days	0.56			Williams		1999 XZ ₁₄₈
1999 XA ₁₄₉	16.0	0.15	19991118	85.60089	268.12263	56.43236	2.83172	0.0639774	2.8670488	19	1	34 days	0.32			Williams		1999 XA ₁₄₉
1999 XU ₁₅₀	17.1	0.15	19991118	359.37592	173.60708	246.55545	6.55868	0.0963788	2.3932301	18	1	29 days	0.37			Williams		1999 XU ₁₅₀
1999 XU ₁₅₁	16.3	0.15	20000226	63.97379	102.13390	305.58882	4.83587	0.1201936	2.6384414	14	1	60 days	0.22	M-v	5	Marsden		1999 XU ₁₅₁
1999 XW ₁₅₁	15.4	0.15	20000226	328.93994	237.36310	294.24874	3.75255	0.1926215	2.3081836	27	1	88 days	0.34	M-v	4	Williams		1999 XW ₁₅₁
1999 XX ₁₅₁	14.3	0.15	20000226	333.81962	201.95989	318.67820	1.59343	0.1492285	2.3730487	85	2	1998–2000	0.64	M-v	4	Williams	38852	1999 XX ₁₅₁
1999 XG ₁₅₃	14.7	0.15	19991118	94.75231	283.29990	30.10647	2.78765	0.1943901	2.4226091	16	1	30 days	0.58			Williams		1999 XG ₁₅₃
1999 XL ₁₅₃	13.4	0.15	20000226	203.33828	185.21727	62.18387	11.62779	0.0500145	2.9688643	31	1	62 days	0.49	M-v	5	Williams		1999 XL ₁₅₃
1999 XN ₁₅₃	13.8	0.15	20000226	54.39664	151.50367	258.43237	8.19228	0.1750019	2.7495461	56	2	1998–2000	0.51	M-v	3	Williams	38852	1999 XN ₁₅₃
1999 XP ₁₅₃	16.1	0.15	20000226	21.61627	225.38393	243.53709	5.59159	0.1929744	2.3203553	22	1	83 days	0.64	M-v	4	Williams		1999 XP ₁₅₃
1999 XA ₁₅₄	12.6	0.15	20000226	137.16924	197.13625	113.96520	11.36608	0.0649521	2.9968464	41	1	122 days	0.55	M-v	4	Williams	38852	1999 XA ₁₅₄
1999 XC ₁₅₄	15.3	0.15	20000226	336.61502	33.66950	108.96060	5.81428	0.1659250	2.3812869	26	1	87 days	0.58	M-v	5	Williams		1999 XC ₁₅₄
1999 XP ₁₅₅	14.1	0.15	20000226	23.66040	187.96220	243.98199	14.35697	0.0715018	2.6817632	30	1	123 days	0.46	M-v	3	Williams	38852	1999 XP ₁₅₅
1999 XT ₁₅₅	15.1	0.15	20000226	37.24886	162.79481	239.18673	7.26144	0.3215074	2.5576013	50	1	156 days	0.51	M-v	3	Williams	38852	1999 XT ₁₅₅
1999 XZ ₁₅₆	14.1	0.15	20000226	74.13493	183.85956	200.06304	3.74346	0.0665454	2.2846312	27	1	111 days	0.36	M-v	4	Williams		1999 XZ ₁₅₆
1999 XK ₁₅₇	14.1	0.15	20000226	167.40470	191.27040	106.80041	8.56913	0.0281958	2.2523733	49	3	1991–2000	0.60	M-v	3	Williams	38852	1999 XK ₁₅₇
1999 XT ₁₅₇	13.3	0.15	20000226	82.75289	124.29181	247.79030	10.11481	0.0644289	3.0581034	44	2	1998–2000	0.63	M-v	3	Williams	38852	1999 XT ₁₅₇
1999 XC ₁₅₈	12.7	0.15	20000226	146.14281	205.77604	104.90817	11.41881	0.0871651	2.9995008	26	1	87 days	0.48	M-v	5	Williams		1999 XC ₁₅₈
1999 XD ₁₅₈	13.5	0.15	20000226	71.77186	245.83842	128.04456	4.10422	0.1862333	2.7493064	30	1	110 days	0.46	M-v	4	Williams		1999 XD ₁₅₈

1999 XE ₁₅₈	14.7	0.15	20000226	316.33534	296.14246	235.24586	4.51301	0.1557090	2.2907965	30	1	88 days	0.39	M-v	6	Williams	1999 XE ₁₅₈
1999 XJ ₁₅₉	14.3	0.15	20000226	69.24486	276.94901	114.18263	7.24102	0.1067244	2.2862638	38	1	91 days	0.46	M-v	4	Williams	38853 1999 XJ ₁₅₉
1999 XR ₁₅₉	13.5	0.15	20000226	70.53953	266.57537	118.70184	5.70693	0.1225355	2.7312843	54	3	1997-2000	0.49	M-v	3	Williams	38853 1999 XR ₁₅₉
1999 XA ₁₆₀	11.1	0.15	20000226	4.04768	3.75143	100.93258	20.99190	0.1096526	3.1454176	49	1	92 days	0.40	M-v	3	Williams	38853 1999 XA ₁₆₀
1999 XC ₁₆₀	13.4	0.15	20000226	286.60239	301.10998	257.48568	13.27850	0.1155568	2.6137943	33	1	88 days	0.45	M-v	5	Williams	1999 XC ₁₆₀
1999 XO ₁₆₁	13.8	0.15	19991118	114.37651	35.16099	264.95051	11.48251	0.1544356	2.7017284	18	1	30 days	0.52			Williams	1999 XO ₁₆₁
1999 XP ₁₆₁	15.6	0.15	19991118	292.80247	92.85718	57.34450	6.56613	0.1348717	2.3423828	19	1	31 days	0.54			Williams	1999 XP ₁₆₁
1999 XJ ₁₆₂	14.7	0.15	20000226	27.10382	68.58142	8.47965	10.96682	0.2453376	2.6446431	37	1	117 days	0.45	M-v	4	Williams	38853 1999 XJ ₁₆₂
1999 XW ₁₆₂	16.2	0.15	20000226	341.04143	31.72515	121.25331	2.96816	0.1564024	2.3324984	29	2	1993-2000	0.48	M-v	5	Williams	38600 1999 XW ₁₆₂
1999 XA ₁₆₃	15.0	0.15	20000226	49.21183	179.27674	250.47070	1.54595	0.0759459	2.2340912	55	3	1977-2000	0.60	M-v	2	Williams	38600 1999 XA ₁₆₃
1999 XG ₁₆₃	15.9	0.15	20000226	331.84059	49.64019	113.71952	3.49325	0.1506371	2.3515768	45	2	1995-2000	0.39	M-v	4	Williams	38853 1999 XG ₁₆₃
1999 XV ₁₆₃	12.9	0.15	20000226	171.66271	215.39330	102.77281	13.26146	0.1076240	2.7296573	46	1	109 days	0.55	M-v	4	Williams	38853 1999 XV ₁₆₃
1999 XW ₁₆₃	14.3	0.15	20000226	30.15836	147.00176	307.01316	10.76612	0.1819449	2.5729661	75	2	1998-2000	0.56	M-v	3	Williams	38853 1999 XW ₁₆₃
1999 XY ₁₆₃	13.7	0.15	20000226	303.89889	213.65461	286.00637	3.37372	0.0727177	2.7181018	30	1	122 days	0.52	M-v	5	Williams	1999 XY ₁₆₃
1999 XE ₁₆₄	14.6	0.15	20000226	38.00871	27.87654	52.77954	2.79408	0.2635623	2.6632470	64	3	1977-2000	0.65	M-v	2	Williams	38853 1999 XE ₁₆₄
1999 XF ₁₆₄	13.1	0.15	20000226	247.27023	158.03125	126.01251	24.00290	0.2024738	2.3964945	33	1	95 days	0.51	M-v	4	Williams	38853 1999 XF ₁₆₄
1999 XJ ₁₆₄	14.2	0.15	20000226	300.19747	282.75795	295.79238	22.16961	0.2546667	2.3347245	44	2	1990-2000	0.57	M-v	4	Williams	38853 1999 XJ ₁₆₄
1999 XL ₁₆₄	14.0	0.15	20000226	97.63078	279.23987	85.82995	8.55747	0.2463931	2.3256800	72	2	1998-2000	0.50	M-v	3	Williams	38853 1999 XL ₁₆₄
1999 XN ₁₆₄	12.8	0.15	20000226	132.55117	246.13549	98.23465	10.04422	0.1697380	2.7698078	43	1	109 days	0.53	M-v	4	Williams	38853 1999 XN ₁₆₄
1999 XO ₁₆₄	14.0	0.15	20000226	165.46384	231.19676	90.16641	8.32565	0.1929629	2.2083888	49	1	87 days	0.57	M-v	4	Williams	38853 1999 XO ₁₆₄
1999 XP ₁₆₄	12.2	0.15	20000226	227.29932	173.83528	101.65062	15.40595	0.1301068	2.9831477	33	1	107 days	0.42	M-v	4	Williams	1999 XP ₁₆₄
1999 XQ ₁₆₄	15.7	0.15	20000226	1.51359	197.75337	300.79353	17.81715	0.0734037	1.9300446	47	1	89 days	0.58	M-v	4	Williams	38853 1999 XQ ₁₆₄
1999 XR ₁₆₄	15.2	0.15	20000226	53.32629	338.17375	83.15872	8.56771	0.2296721	2.3094325	31	1	85 days	0.47	M-v	4	Williams	1999 XR ₁₆₄
1999 XT ₁₆₄	15.0	0.15	20000226	352.79959	97.28007	55.81351	4.57721	0.2143991	2.6543974	32	1	109 days	0.62	M-v	4	Williams	38853 1999 XT ₁₆₄
1999 XU ₁₆₄	15.3	0.15	20000226	354.48753	201.24375	309.37234	8.00828	0.2042122	2.4306857	57	1	110 days	0.43	M-v	3	Williams	38854 1999 XU ₁₆₄
1999 XV ₁₆₄	13.7	0.15	20000226	36.84806	349.81017	87.99547	5.99113	0.2834864	2.7762655	42	1	107 days	0.48	M-v	4	Williams	38854 1999 XV ₁₆₄
1999 XW ₁₆₄	14.7	0.15	20000226	31.39123	1.45871	96.78250	8.28619	0.1745188	2.3862416	48	2	1995-2000	0.43	M-v	3	Williams	38854 1999 XW ₁₆₄
1999 XX ₁₆₄	14.6	0.15	20000226	353.44463	200.76717	313.29013	10.54517	0.2028177	2.5685315	72	1	94 days	0.50	M-v	3	Williams	38854 1999 XX ₁₆₄
1999 XY ₁₆₄	14.5	0.15	20000226	0.75243	120.63789	21.46613	3.41060	0.1191656	2.4300535	76	2	1998-2000	0.59	M-v	3	Williams	38854 1999 XY ₁₆₄
1999 XB ₁₆₅	14.7	0.15	20000226	46.22418	77.03321	4.64367	4.49454	0.1718544	2.3061244	47	2	1981-2000	0.60	M-v	4	Williams	38601 1999 XB ₁₆₅
1999 XC ₁₆₅	13.9	0.15	20000226	36.92645	98.41310	351.16842	7.13923	0.2028810	2.8003014	55	1	88 days	0.44	M-v	4	Williams	38854 1999 XC ₁₆₅
1999 XD ₁₆₅	13.9	0.15	20000226	49.67775	107.71872	323.52025	12.94752	0.2155491	2.5302468	84	3	1996-2000	0.55	M-v	2	Marsden	38854 1999 XD ₁₆₅
1999 XE ₁₆₅	13.4	0.15	20000226	89.03142	43.02811	4.30234	5.38446	0.0648537	2.4141438	87	3	1987-2000	0.61	M-v	2	Williams	38854 1999 XE ₁₆₅
1999 XJ ₁₆₅	14.0	0.15	20000226	53.41960	111.13481	324.67509	12.01403	0.1687813	2.5635077	79	2	1998-2000	0.61	M-v	3	Williams	38854 1999 XJ ₁₆₅
1999 XK ₁₆₅	14.6	0.15	20000226	40.60376	32.99672	62.66509	5.16002	0.1410531	2.5575916	60	2	1996-2000	0.52	M-v	4	Williams	38854 1999 XK ₁₆₅
1999 XN ₁₆₅	13.1	0.15	20000226	1.73417	63.97205	82.48574	10.65200	0.0664999	2.4771593	43	2	1998-2000	0.39	M-v	3	Williams	38854 1999 XN ₁₆₅
1999 XQ ₁₆₅	15.0	0.15	20000226	7.19766	33.25055	89.89609	8.25022	0.1085163	2.3994333	44	1	115 days	0.50	M-v	3	Williams	38854 1999 XQ ₁₆₅
1999 XR ₁₆₅	15.4	0.15	20000226	294.30142	271.55776	299.01660	17.53669	0.0553972	1.9182792	39	1	89 days	0.50	M-v	4	Williams	38854 1999 XR ₁₆₅
1999 XT ₁₆₅	14.6	0.15	20000226	27.04219	10.20228	92.84173	4.71084	0.1881866	2.6841803	71	1	109 days	0.56	M-v	4	Williams	38854 1999 XT ₁₆₅
1999 XU ₁₆₅	15.2	0.15	20000226	7.73717	155.30499	338.85981	5.88704	0.1342694	2.2511220	66	3	1990-2000	0.58	M-v	2	Williams	38854 1999 XU ₁₆₅
1999 XY ₁₆₅	13.1	0.15	20000226	339.50891	169.26732	4.14369	9.61140	0.0727636	3.0446526	42	1	94 days	0.43	M-v	4	Williams	1999 XY ₁₆₅
1999 XJ ₁₆₆	14.0	0.15	20000226	24.19362	135.75142	271.64508	14.75587	0.2344600	2.8523498	46	1	124 days	0.44	M-v	3	Williams	38854 1999 XJ ₁₆₆
1999 XP ₁₆₆	13.2	0.15	20000226	42.75997	88.95102	300.52047	7.46693	0.1529979	2.7924074	49	3	1980-2000	0.67	M-v	2	Williams	38854 1999 XP ₁₆₆
1999 XX ₁₆₆	14.3	0.15	19991118	39.09238	326.41852	46.87929	12.03873	0.1127671	2.7409302	30	1	58 days	0.51			Williams	1999 XX ₁₆₆
1999 XE ₁₆₇	13.1	0.15	20000226	46.69712	112.33993	273.65161	11.48363	0.1879319	2.6941391	51	1	151 days	0.43	M-v	3 D	Williams	1999 XE ₁₆₇
1999 XV ₁₆₇	13.5	0.15	20000226	47.63769	111.50765	280.92247	9.00581	0.1120042	2.9774995	39	2	1998-2000	0.59	M-v	3	Williams	38854 1999 XV ₁₆₇
1999 XQ ₁₆₈	15.7	0.15	19991208	322.86849	135.53906	347.10651	3.28457	0.2000327	2.6034251	28	1	49 days	0.55		D	Williams	1999 XQ ₁₆₈
1999 XY ₁₆₈	13.4	0.15	20000226	341.50430	210.52058	272.83108	12.15475	0.1135442	2.6706945	51	2	1998-2000	0.53	M-v	3	Williams	38854 1999 XY ₁₆₈
1999 XZ ₁₆₈	14.0	0.15	20000226	291.27910	260.11859	283.67563	7.99286	0.1102888	2.2463618	51	2	1998-2000	0.63	M-v	4	Williams	38601 1999 XZ ₁₆₈
1999 XF ₁₆₉	15.3	0.15	20000226	74.44355	75.91253	297.09564	5.99624	0.1769647	2.2279319	42	2	1997-2000	0.56	M-v	4	Williams	38602 1999 XF ₁₆₉
1999 XK ₁₆₉	13.0	0.15	20000226	50.12399	114.45289	286.39153	10.70076	0.1201165	2.9698887	61	3	1995-2000	0.55	M-v	2	Williams	38854 1999 XK ₁₆₉
1999 XO ₁₆₉	13.1	0.15	20000226	89.35955	51.32434	294.36019	9.55534	0.2732368	2.6713889	50	4	1972-2000	0.65	M-v	2	Williams	38602 1999 XO ₁₆₉
1999 XR ₁₆₉	13.7	0.15	20000226	354.25025	197.84621	281.98224	11.19032	0.0913391	2.4511238	37	1	85 days	0.47	M-v	4	Williams	1999 XR ₁₆₉

2000 MAR. 20

M.P.C. 39565

1999 XW ₁₆₉	14.4	0.15	20000226	24.80587	30.87549	57.76314	6.12069	0.0789321	2.4186878	31	1	75 days	0.42	M-v	4	Williams	38855	1999 XW ₁₆₉
1999 XF ₁₇₀	13.6	0.15	20000226	275.83822	276.40704	282.72473	12.61537	0.1363056	2.6129330	43	2	1998–2000	0.62	M-v	3	Williams	38603	1999 XF ₁₇₀
1999 XS ₁₇₀	14.7	0.15	20000226	12.18266	118.45890	339.13122	3.83842	0.2183827	2.5545754	24	1	87 days	0.40	M-v	4	Williams		1999 XS ₁₇₀
1999 XW ₁₇₁	13.8	0.15	20000226	84.12956	292.99846	75.99298	13.59169	0.1999590	2.5735440	50	1	119 days	0.55	M-v	4	Williams	38855	1999 XW ₁₇₁
1999 XR ₁₇₂	13.6	0.15	20000226	1.98781	174.55630	300.42116	16.98694	0.1176660	3.2182056	39	1	85 days	0.55	M-v	4	Williams	38855	1999 XR ₁₇₂
1999 XW ₁₇₂	13.0	0.15	20000226	25.59067	154.23291	294.33957	16.40515	0.0827062	3.2041093	67	3	1997–2000	0.54	M-v	2	Williams	38855	1999 XW ₁₇₂
1999 XZ ₁₇₂	13.9	0.15	20000226	17.40440	153.01518	307.69004	8.30358	0.1172983	2.7865670	46	1	113 days	0.62	M-v	4	Williams	38855	1999 XZ ₁₇₂
1999 XD ₁₇₃	14.2	0.15	20000226	41.77825	354.85360	73.62975	8.09772	0.1827059	2.3719305	37	1	117 days	0.39	M-v	4	Williams	38855	1999 XD ₁₇₃
1999 XF ₁₇₃	15.5	0.15	20000226	59.84489	346.74069	57.39767	6.26354	0.1905945	2.3047370	27	1	74 days	0.51	M-v	4	Williams		1999 XF ₁₇₃
1999 XJ ₁₇₃	13.1	0.15	20000226	322.34947	204.66531	319.30042	9.09166	0.0681822	2.6589383	68	2	1998–2000	0.59	M-v	3	Williams	38855	1999 XJ ₁₇₃
1999 XJ ₁₇₄	14.1	0.15	20000226	56.66938	353.58195	64.77783	6.13739	0.1316912	2.2694654	48	1	121 days	0.52	M-v	4	Williams	38856	1999 XJ ₁₇₄
1999 XU ₁₇₄	14.3	0.15	20000226	349.06086	55.80712	86.27065	13.89508	0.1248973	2.6876217	33	1	119 days	0.50	M-v	4	Williams	38856	1999 XU ₁₇₄
1999 XX ₁₇₄	14.8	0.15	20000226	353.97739	113.90991	21.33417	5.26872	0.1228559	2.6482778	31	1	91 days	0.51	M-v	4	Williams	38856	1999 XX ₁₇₄
1999 XE ₁₇₅	14.3	0.15	20000226	39.98212	56.08909	8.49155	5.30291	0.2716792	2.5586613	27	1	85 days	0.57	M-v	4	Williams	38856	1999 XE ₁₇₅
1999 XH ₁₇₅	14.1	0.15	20000226	5.89079	179.72088	302.34797	13.36030	0.2996081	2.8614713	65	2	1998–2000	0.51	M-v	3	Williams	38856	1999 XH ₁₇₅
1999 XQ ₁₇₅	14.3	0.15	20000226	76.45794	68.18330	324.72073	6.40316	0.1759294	2.2603893	50	2	1990–2000	0.50	M-v	4	Williams	38605	1999 XQ ₁₇₅
1999 XS ₁₇₅	14.8	0.15	20000226	23.68014	81.52642	17.73957	5.88317	0.1448358	2.5404045	40	1	93 days	0.63	M-v	4	Williams		1999 XS ₁₇₅
1999 XZ ₁₇₅	14.1	0.15	20000226	65.44863	315.22501	79.25694	15.13355	0.2539431	2.6466292	36	1	107 days	0.54	M-v	4	Williams	38856	1999 XZ ₁₇₅
1999 XG ₁₇₆	14.3	0.15	20000226	339.20390	103.40070	59.63569	6.03771	0.1582142	2.4253859	66	3	1996–2000	0.57	M-v	3	Williams	38606	1999 XG ₁₇₆
1999 XH ₁₇₆	13.1	0.15	20000226	228.41909	308.91968	324.02120	8.94510	0.1912829	2.6710794	65	3	1980–2000	0.59	M-v	2	Williams	38606	1999 XH ₁₇₆
1999 XK ₁₇₆	14.0	0.15	20000226	352.04666	200.07689	308.08875	15.00870	0.2248231	2.6881664	35	1	86 days	0.49	M-v	4	Williams	38856	1999 XK ₁₇₆
1999 XL ₁₇₆	14.0	0.15	20000226	306.25655	128.36322	78.59910	11.21796	0.1912372	2.4097579	33	1	79 days	0.45	M-v	5	Williams	38856	1999 XL ₁₇₆
1999 XM ₁₇₆	13.6	0.15	20000226	83.77625	326.97088	71.31635	10.05792	0.0691982	2.5900309	36	1	110 days	0.52	M-v	4	Williams	38856	1999 XM ₁₇₆
1999 XV ₁₇₆	13.1	0.15	20000226	136.62434	33.95238	303.47951	22.91056	0.2069572	2.3148509	59	1	118 days	0.46	M-v	4	Williams	38856	1999 XV ₁₇₆
1999 XW ₁₇₆	14.2	0.15	20000226	331.09374	97.97999	67.38943	6.50983	0.0701981	2.5855863	44	3	1992–2000	0.51	M-v	3	Williams	38606	1999 XW ₁₇₆
1999 XX ₁₇₆	13.9	0.15	20000226	45.81849	123.61412	297.61232	34.07194	0.2464541	2.8499498	55	1	87 days	0.47	M-v	4	Williams		1999 XX ₁₇₆
1999 XE ₁₇₇	14.7	0.15	20000226	49.23575	345.97478	84.87413	11.24306	0.1664280	2.4562259	34	1	107 days	0.51	M-v	4	Williams	38856	1999 XE ₁₇₇
1999 XF ₁₇₇	14.8	0.15	20000226	38.27481	25.67197	54.35087	7.09488	0.2110838	2.6740048	27	1	83 days	0.47	M-v	4	Williams		1999 XF ₁₇₇
1999 XF ₁₇₈	14.0	0.15	20000226	348.17230	193.85493	303.31720	16.23770	0.1543663	3.1376934	45	1	85 days	0.59	M-v	4	Williams	38857	1999 XF ₁₇₈
1999 XD ₁₈₀	14.2	0.15	20000226	314.92648	147.12253	51.19886	9.16254	0.1476034	2.3570474	49	2	1998–2000	0.48	M-v	3	Williams	38857	1999 XD ₁₈₀
1999 XG ₁₈₀	14.9	0.15	20000226	2.58850	82.61256	55.27039	7.40993	0.1166466	2.4342246	30	1	93 days	0.52	M-v	4	Williams		1999 XG ₁₈₀
1999 XK ₁₈₀	13.6	0.15	20000226	73.24934	338.23931	77.23024	15.23346	0.1106028	2.7732346	31	2	1989–2000	0.47	M-v	3	Williams	38607	1999 XK ₁₈₀
1999 XT ₁₈₃	13.0	0.15	20000226	22.37703	110.03311	317.34136	9.22624	0.0988944	2.9723566	43	1	124 days	0.43	M-v	3	Williams	38857	1999 XT ₁₈₃
1999 XU ₁₈₃	13.7	0.15	20000226	4.35918	150.82347	304.39406	8.92214	0.2902759	3.0658548	34	1	88 days	0.49	M-v	4	Williams	38857	1999 XU ₁₈₃
1999 XG ₁₈₈	13.3	0.15	20000226	322.29293	198.10919	304.70883	8.19917	0.0998194	2.7918854	60	4	1989–2000	0.65	M-v	2	Williams	38858	1999 XG ₁₈₈
1999 XK ₁₈₈	14.5	0.15	20000226	75.14291	66.83124	305.63692	6.30464	0.1377867	2.2943454	38	2	1997–2000	0.47	M-v	4	Williams	38858	1999 XK ₁₈₈
1999 XP ₁₈₈	13.8	0.15	20000226	24.44173	143.28221	286.68397	11.81476	0.1548102	2.6868071	35	1	83 days	0.49	M-v	4	Williams	38858	1999 XP ₁₈₈
1999 XQ ₁₈₈	14.3	0.15	20000226	5.83926	147.68868	309.62551	6.86614	0.0654565	2.3886935	30	1	88 days	0.52	M-v	4	Williams	38858	1999 XQ ₁₈₈
1999 XR ₁₉₀	14.3	0.15	19991208	81.33852	279.27705	61.08611	12.55123	0.1945809	2.7104500	18	1	51 days	0.48			Williams		1999 XR ₁₉₀
1999 XJ ₁₉₁	13.3	0.15	20000226	23.87906	18.63727	55.16897	17.18697	0.1053740	3.1051983	41	4	1993–2000	0.68	M-v	1	Williams	38858	1999 XJ ₁₉₁
1999 XE ₁₉₂	13.9	0.15	20000226	39.62514	127.13875	289.68522	10.63276	0.1559858	2.5328728	52	3	1994–2000	0.53	M-v	2	Williams	38610	1999 XE ₁₉₂
1999 XF ₁₉₂	15.2	0.15	20000226	335.60406	224.28063	290.42023	10.28363	0.2731541	2.6313526	37	1	83 days	0.52	M-v	4	Williams	38858	1999 XF ₁₉₂
1999 XQ ₁₉₃	14.7	0.15	20000226	278.77448	167.60847	34.33459	5.99459	0.0938900	2.2351549	27	1	75 days	0.35	M-v	4	Williams	38858	1999 XQ ₁₉₃
1999 XT ₁₉₃	15.0	0.15	19991208	286.01516	95.41314	69.63829	14.27785	0.0270471	2.3668077	20	1	55 days	0.51			Williams		1999 XT ₁₉₃
1999 XY ₁₉₄	13.3	0.15	20000226	19.70551	145.13276	301.07893	12.68717	0.1273769	2.6816019	40	1	83 days	0.54	M-v	3	Williams	38858	1999 XY ₁₉₄
1999 XX ₁₉₇	13.4	0.15	20000226	33.56962	23.52507	51.47557	12.11706	0.0837524	3.0737013	29	1	98 days	0.50	M-v	4	Williams		1999 XX ₁₉₇
1999 XJ ₂₀₂	13.6	0.15	20000226	2.89094	159.16610	310.70382	10.43187	0.0898456	3.0629161	38	1	85 days	0.52	M-v	4	Williams		1999 XJ ₂₀₂
1999 XU ₂₀₂	13.9	0.15	20000226	11.80043	141.74272	317.50717	11.95580	0.1945498	3.2198481	26	1	85 days	0.40	M-v	3	Williams	38859	1999 XU ₂₀₂
1999 XD ₂₀₃	14.4	0.15	20000226	347.04372	179.20052	316.20900	14.05807	0.1317675	2.6123429	41	2	1998–2000	0.53	M-v	3	Williams	38859	1999 XD ₂₀₃
1999 XQ ₂₀₅	14.4	0.15	20000226	324.44881	176.42657	0.23574	8.19306	0.1647200	2.3506314	56	3	1993–2000	0.70	M-v	3	Williams	38613	1999 XQ ₂₀₅
1999 XT ₂₀₆	13.2	0.15	20000226	306.08275	117.62926	77.16018	17.36275	0.1192164	3.1156095	21	1	76 days	0.43	M-v	4	Williams		1999 XT ₂₀₆
1999 XO ₂₀₉	13.5	0.15	20000226	347.53973	180.42635	311.49508	12.93628	0.2733083	2.8998325	55	2	1998–2000	0.56	M-v	3	Williams	38613	1999 XO ₂₀₉
1999 XR ₂₀₉	13.9	0.15	20000226	5.36926	153.63945	302.98619	16.54315	0.1588403	3.1043331	32	2	1998–2000	0.82	M-v	3	Williams	37980	1999 XR ₂₀₉

1999 XO ₂₁₀	13.3	0.15	20000226	48.31332	1.91479	51.21095	15.62555	0.0702342	2.9166588	27	1	75 days	0.45	M-v	5	Williams	1999 XO ₂₁₀
1999 XB ₂₁₁	10.3	0.15	20000226	127.26741	8.46445	317.20406	19.70165	0.0889486	5.2053767	24	1	75 days	0.48	M-v	5	Williams	1999 XB ₂₁₁
1999 XU ₂₁₁	12.5	0.15	20000226	263.60811	249.67621	341.01570	16.83104	0.0622480	3.2226835	36	1	91 days	0.45	M-v	4	Williams	1999 XU ₂₁₁
1999 XY ₂₁₂	13.4	0.15	20000226	9.95081	338.71781	95.47785	18.94764	0.1914639	3.0675065	44	1	112 days	0.47	M-v	3	Williams	38860 1999 XY ₂₁₂
1999 XB ₂₁₃	14.5	0.15	20000226	27.63923	293.61482	129.71861	8.10213	0.1846541	2.5971653	59	1	137 days	0.55	M-v	3	Williams	38860 1999 XB ₂₁₃
1999 XH ₂₁₃	14.9	0.15	20000226	34.85797	239.73091	183.18912	7.63338	0.0974028	2.2848600	38	1	137 days	0.49	M-v	3	Williams	38860 1999 XH ₂₁₃
1999 XO ₂₁₄	15.5	0.15	19991118	49.76686	42.48464	320.53886	3.15893	0.1586126	2.5402737	22	1	32 days	0.61			Williams	1999 XO ₂₁₄
1999 XO ₂₁₉	16.4	0.15	19991228	14.19435	338.85084	110.88141	2.80665	0.1434337	2.6070365	32	1	52 days	0.26			Marsden	1999 XO ₂₁₉
1999 XP ₂₂₀	13.3	0.15	20000226	22.70294	281.44727	116.78113	9.02555	0.2680842	2.7967892	51	1	196 days	0.43	M-v	3	Williams	38860 1999 XP ₂₂₀
1999 XZ ₂₂₀	14.3	0.15	20000226	327.97334	325.91792	225.76497	9.64536	0.1673609	2.3113970	41	2	1998–2000	0.71	M-v	4	Williams	38614 1999 XZ ₂₂₀
1999 XA ₂₂₁	12.3	0.15	20000226	144.59512	88.54677	262.15565	14.01319	0.1561186	2.5816578	26	1	85 days	0.36	M-v	4	Williams	1999 XA ₂₂₁
1999 XC ₂₂₁	12.8	0.15	20000226	135.07948	124.22899	236.54376	11.97171	0.1826589	2.6961693	55	4	1976–2000	0.72	M-v	2	Williams	38614 1999 XC ₂₂₁
1999 XD ₂₂₁	13.1	0.15	20000226	292.04805	334.68653	253.50867	10.80125	0.0929572	2.6460583	50	2	1998–2000	0.64	M-v	3	Williams	38614 1999 XD ₂₂₁
1999 XG ₂₂₁	13.3	0.15	20000226	23.07295	287.28946	195.68304	13.24942	0.1572258	3.2226714	42	1	126 days	0.57	M-v	4	Williams	1999 XG ₂₂₁
1999 XQ ₂₂₁	14.1	0.15	19991208	249.36866	166.33585	37.76011	5.72585	0.1913301	2.5622866	27	1	51 days	0.60			Williams	1999 XQ ₂₂₁
1999 XR ₂₂₁	15.3	0.15	20000226	63.07222	337.48605	49.30041	6.54075	0.1177962	2.2099733	43	1	88 days	0.49	M-v	4	Williams	38860 1999 XR ₂₂₁
1999 XE ₂₂₂	14.3	0.15	19991118	15.99233	350.08002	63.13831	15.27962	0.0693559	3.0870714	15	1	32 days	0.41			Williams	1999 XE ₂₂₂
1999 XP ₂₂₂	14.8	0.15	20000226	127.26452	264.42510	64.60210	7.21729	0.1450384	2.2332280	28	1	76 days	0.38	M-v	4	Williams	1999 XP ₂₂₂
1999 XC ₂₂₃	14.1	0.15	20000226	202.96835	241.25475	55.60977	7.48338	0.1165694	2.2594867	39	4	1978–2000	0.52	M-v	3	Williams	38615 1999 XC ₂₂₃
1999 XD ₂₂₃	13.4	0.15	20000226	51.44019	328.77950	104.82275	23.41107	0.1184035	3.0851144	26	1	74 days	0.49	M-v	4	Williams	1999 XD ₂₂₃
1999 XU ₂₂₃	15.1	0.15	20000226	29.15525	164.06810	282.52125	8.50530	0.1382588	2.6411499	33	1	79 days	0.52	M-v	4	Williams	38861 1999 XU ₂₂₃
1999 XH ₂₂₉	13.3	0.15	20000226	330.26710	313.74293	180.31080	16.17665	0.1592969	2.9822683	53	3	1993–2000	0.77	M-v	3	Williams	38616 1999 XH ₂₂₉
1999 XW ₂₃₀	13.4	0.15	20000226	108.66066	283.06092	81.29980	15.60681	0.1839069	2.5593722	52	1	82 days	0.40	M-v	4	Williams	38861 1999 XW ₂₃₀
1999 XG ₂₃₁	12.5	0.15	20000226	59.99580	2.83827	73.43767	19.63310	0.1447370	3.0945965	42	1	93 days	0.37	M-v	4	Williams	1999 XG ₂₃₁
1999 XQ ₂₃₁	14.0	0.15	20000226	19.25365	37.86688	71.04607	14.08630	0.2294313	2.9927162	35	1	94 days	0.51	M-v	4	Williams	38861 1999 XQ ₂₃₁
1999 YB	18.2	0.15	20000226	279.08823	192.76322	31.08086	6.79212	0.0749705	1.3211654	58	1	61 days	0.47	M-v	4	Williams	38861 1999 YB
1999 YD	21.1	0.15	20000226	21.08860	61.56496	9.78248	1.38383	0.5918176	2.4641042	96	1	71 days	0.51	M-v	4	Williams	38861 1999 YD
1999 YG	14.7	0.15	20000226	57.90284	280.67467	109.77168	24.42793	0.1430078	1.9597093	60	1	115 days	0.44	M-v	3	Williams	38861 1999 YG
1999 YJ	14.1	0.15	20000226	9.99852	337.04116	114.85905	32.85945	0.2142893	2.5926025	37	2	1996–2000	0.56	M-v	2	Williams	38861 1999 YJ
1999 YT	16.6	0.15	20000226	67.54562	272.52938	116.57480	31.58057	0.3520956	1.7761991	136	1	72 days	0.56	M-v	4	Williams	38862 1999 YT
1999 YO ₁	14.3	0.15	20000226	38.23006	95.38993	329.04639	3.88798	0.1038753	2.2281075	73	3	1974–2000	0.60	M-v	3	Williams	38862 1999 YO ₁
1999 YD ₃	15.2	0.15	20000226	53.95499	92.65329	333.24690	18.12594	0.0948996	1.9308545	27	1	72 days	0.47	M-v	4	Williams	1999 YD ₃
1999 YF ₃	18.2	0.15	20000226	41.15803	146.94105	298.98085	26.75927	0.1433306	1.4869616	107	1	87 days	0.59	M-v	4	Williams	38862 1999 YF ₃
1999 YG ₃	19.1	0.15	20000226	346.72233	250.22121	293.35386	34.51835	0.3293587	1.2847303	115	1	67 days	0.59	M-v	5	Williams	38862 1999 YG ₃
1999 YM ₃	13.8	0.15	20000226	338.48422	354.41033	182.88350	21.86783	0.0473400	2.5572880	27	1	87 days	0.41	M-v	5	Williams	1999 YM ₃
1999 YY ₃	13.5	0.15	20000226	33.77347	76.36892	336.24435	24.16755	0.3183344	2.7756148	41	1	151 days	0.43	M-v	3	Williams	38862 1999 YY ₃
1999 YC ₄	15.7	0.15	20000226	8.28080	120.06690	356.39210	22.68156	0.2305041	2.2956835	20	1	68 days	0.50	M-v	4	Williams	1999 YC ₄
1999 YD ₄	14.5	0.15	20000226	49.23167	41.64216	3.26972	23.32480	0.2980864	2.3636402	27	1	68 days	0.59	M-v	4	Williams	1999 YD ₄
1999 YE ₄	15.4	0.15	20000226	29.68112	78.73432	1.14821	22.34176	0.2730005	2.3227791	17	1	68 days	0.63	M-v	5	Williams	1999 YE ₄
1999 YG ₄	14.2	0.15	20000226	139.53717	226.18912	99.06479	10.25325	0.0841472	2.9717073	37	1	70 days	0.62	M-v	6	Williams	1999 YG ₄
1999 YJ ₄	13.3	0.15	20000226	284.40628	44.12095	98.36827	10.84360	0.0723363	3.0603683	34	1	86 days	0.81	M-v	5	Williams	38862 1999 YJ ₄
1999 YN ₄	15.6	0.15	20000226	314.81323	242.66111	291.78047	36.81601	0.2315020	1.6849131	69	1	75 days	0.49	M-v	4	Williams	38862 1999 YN ₄
1999 YQ ₄	14.7	0.15	20000226	14.93078	162.30544	305.63169	9.86093	0.1871200	2.6764079	58	1	102 days	0.58	M-v	4	Williams	38862 1999 YQ ₄
1999 YU ₄	13.9	0.15	20000226	193.42370	357.63359	295.79132	7.18453	0.1946411	2.7554955	34	1	60 days	0.70	M-v	6	Williams	1999 YU ₄
1999 YH ₅	15.3	0.15	20000226	330.68647	79.57501	116.71968	24.83444	0.3268360	2.2536436	47	1	74 days	0.64	M-v	4	Williams	1999 YH ₅
1999 YK ₅	16.8	0.15	20000226	226.46297	292.69131	349.71751	16.74023	0.5582754	0.8294032	171	1	64 days	0.48	M-v	6	Williams	38862 1999 YK ₅
1999 YB ₇	13.2	0.15	20000226	23.73068	28.75342	55.10511	18.03196	0.1023032	3.1658986	29	1	161 days	0.44	M-v	3	Williams	38862 1999 YB ₇
1999 YH ₇	13.9	0.15	20000226	25.40017	56.68430	86.01945	9.13370	0.1153877	2.3475492	35	2	1995–2000	0.48	M-v	4	Williams	38862 1999 YH ₇
1999 YB ₈	14.6	0.15	20000226	282.10420	293.92437	259.15531	2.35337	0.0971460	2.2494777	42	2	1998–2000	0.69	M-v	4	Williams	38617 1999 YB ₈
1999 YE ₉	12.8	0.15	20000226	174.34591	27.36559	284.74998	12.28816	0.2022989	2.5809745	45	3	1981–2000	0.63	M-v	3	Williams	38863 1999 YE ₉
1999 YG ₉	14.4	0.15	20000226	255.80909	301.69148	310.58297	3.61673	0.1528584	2.4578583	47	1	64 days	0.59	M-v	5	Williams	1999 YG ₉
1999 YH ₉	16.0	0.15	20000117	319.80080	51.07617	115.25819	22.52324	0.0530962	1.9053190	30	1	56 days	0.62			Williams	1999 YH ₉
1999 YL ₉	14.7	0.15	20000226	29.43467	149.86505	305.55871	7.11010	0.1872724	2.7848455	63	1	82 days	0.44	M-v	4	Williams	38863 1999 YL ₉

2000 MAR. 20

M.P.C. 39567

1999 YM ₉	14.7	0.15	20000226	41.22745	85.15393	339.99626	5.21948	0.2640875	2.7964465	56	1	105 days	0.67	M-v	4	Williams	38863	1999 YM ₉
1999 YQ ₉	13.7	0.15	20000226	38.79627	103.41600	339.50797	10.57966	0.1325069	3.0774619	23	1	64 days	0.68	M-v	5	Williams		1999 YQ ₉
1999 YS ₉	13.5	0.15	20000117	347.44930	100.84195	36.67507	5.94505	0.0744836	2.2465574	19	1	57 days	1.22			Williams		1999 YS ₉
1999 YT ₉	13.5	0.15	20000226	87.68393	326.27092	64.26742	10.05844	0.1327715	2.7657321	37	1	112 days	0.68	M-v	4	Williams	38863	1999 YT ₉
1999 YM ₁₃	14.1	0.15	20000226	33.80070	256.33945	132.51026	22.63896	0.2414016	2.3972125	38	1	180 days	0.62	M-v	3	Williams	38863	1999 YM ₁₃
1999 YP ₁₃	15.0	0.15	20000226	22.60590	285.29444	122.09388	29.02366	0.3843069	2.6155815	20	1	69 days	0.55	M-v	6	Williams		1999 YP ₁₃
1999 YR ₁₃	13.6	0.15	20000226	270.17092	332.36261	282.65113	3.13129	0.2142637	2.3356875	63	5	1933–2000	0.50	M-v	2	Williams	38863	1999 YR ₁₃
1999 YU ₁₃	13.9	0.15	20000226	346.80157	48.69154	100.93162	3.90097	0.1163400	3.0901386	53	2	1998–2000	0.56	M-v	3	Williams	38619	1999 YU ₁₃
1999 YV ₁₃	12.5	0.15	20000226	121.92987	241.12142	121.28601	10.01868	0.0804963	2.9134845	68	1	67 days	0.48	M-v	5	Williams		1999 YV ₁₃
1999 YW ₁₃	16.1	0.15	20000117	352.38776	17.61451	114.65914	6.10235	0.1052994	2.3533788	28	1	55 days	0.90			Williams		1999 YW ₁₃
1999 YF ₁₄	17.2	0.15	20000117	0.50802	247.11416	237.45798	0.41475	0.1425279	2.4094183	16	1	36 days	0.43			Marsden		1999 YF ₁₄
1999 YR ₁₄	18.9	0.15	20000226	71.67309	9.30986	3.20837	3.72555	0.4010303	1.6536725	55	1	41 days	0.67	M-v	6	Williams	38863	1999 YR ₁₄
1999 YY ₁₄	15.1	0.15	19991228	337.65977	45.52346	56.26544	24.66881	0.2769865	2.7373577	40	1	59 days	0.71			Williams		1999 YY ₁₄
1999 YJ ₁₆	14.3	0.15	20000226	267.26236	312.42716	308.98754	5.06470	0.1394430	2.2068754	95	4	1991–2000	0.51	M-v	2	Williams	38620	1999 YJ ₁₆
1999 YK ₁₆	13.1	0.15	20000226	319.25618	52.40946	145.56201	11.25356	0.0360866	2.9781404	65	1	98 days	0.49	M-v	4	Williams	38863	1999 YK ₁₆
1999 YL ₁₆	15.5	0.15	20000226	5.78066	6.04657	141.93767	3.01817	0.1224635	2.6250300	35	1	71 days	0.51	M-v	5	Williams		1999 YL ₁₆
1999 YG ₁₇	15.7	0.15	20000117	258.47745	336.04582	269.41971	1.40616	0.1716132	2.3508482	19	1	36 days	0.76			Williams		1999 YG ₁₇
1999 YK ₁₇	16.2	0.15	20000117	52.51312	258.71228	154.20252	1.04867	0.1973447	2.5443438	22	1	37 days	0.37			Marsden		1999 YK ₁₇
1999 YG ₁₈	13.7	0.15	20000226	33.74775	229.47071	175.75663	24.47799	0.1691389	2.5467257	44	2	1998–2000	0.67	M-v	3	Williams	38620	1999 YG ₁₈
2000 AA	15.4	0.15	20000226	14.32686	350.31544	114.66860	5.70306	0.0886722	2.2917589	51	1	81 days	0.67	M-v	4	Williams		2000 AA
2000 AB	12.4	0.15	20000226	240.34238	119.63213	135.13958	5.74667	0.1106752	3.1834021	74	4	1980–2000	0.58	M-v	2	Williams	38864	2000 AB
2000 AG	14.0	0.15	20000226	310.57350	28.23490	118.11411	6.84337	0.0532203	2.3259345	58	2	1998–2000	0.60	M-v	3	Williams	38864	2000 AG
2000 AJ	14.6	0.15	20000226	328.06436	58.04090	109.47107	8.76533	0.1324566	2.3100744	45	1	93 days	0.61	M-v	4	Williams	38864	2000 AJ
2000 AK	14.5	0.15	20000226	26.44750	336.34127	121.53250	4.82910	0.1354215	2.2676705	45	1	95 days	0.42	M-v	4	Williams	38864	2000 AK
2000 AM	14.2	0.15	20000226	15.79053	180.51247	288.18588	2.91083	0.1670009	2.4052295	63	3	1980–2000	0.65	M-v	3	Williams	38864	2000 AM
2000 AZ	14.4	0.15	20000117	246.34744	314.46171	298.78182	5.30585	0.1124673	2.7109191	34	1	56 days	0.55			Williams		2000 AZ
2000 AC ₁	15.0	0.15	20000226	46.45421	273.42576	151.80500	1.43587	0.2530672	3.1197637	25	1	68 days	0.47	M-v	5	Williams		2000 AC ₁
2000 AD ₁	15.0	0.15	20000226	268.34644	301.35831	299.05764	5.63538	0.0952339	2.3938620	53	2	1996–2000	0.52	M-v	4	Williams	38620	2000 AD ₁
2000 AE ₁	16.4	0.15	20000226	63.55007	192.31252	223.35222	0.52468	0.1750646	2.4220415	22	1	68 days	0.42	M-v	5	Williams		2000 AE ₁
2000 AF ₁	14.2	0.15	20000226	163.73615	188.12106	141.00042	2.73582	0.1166030	2.9319584	33	1	70 days	0.45	M-v	5	Williams		2000 AF ₁
2000 AJ ₁	15.3	0.15	20000226	9.36560	162.29421	276.25603	26.80737	0.3178543	2.3386753	41	1	153 days	0.50	M-v	3	Williams	38864	2000 AJ ₁
2000 AP ₁	16.4	0.15	20000117	348.67203	59.23965	90.05614	20.67790	0.2858556	2.2071920	22	1	54 days	0.40			Williams		2000 AP ₁
2000 AS ₁	14.1	0.15	20000226	163.89248	205.40055	113.57542	4.85218	0.1743444	2.2067097	45	1	80 days	0.64	M-v	5	Williams		2000 AS ₁
2000 AU ₁	14.6	0.15	20000226	30.22126	328.15615	122.90771	6.55823	0.1643724	2.9073916	65	2	1998–2000	0.61	M-v	3	Williams	38864	2000 AU ₁
2000 AX ₁	15.2	0.15	20000226	63.07581	292.21207	125.73808	5.85866	0.1200022	2.3010267	56	2	1998–2000	0.52	M-v	3	Williams	38864	2000 AX ₁
2000 AZ ₁	14.2	0.15	20000226	274.19075	110.79776	126.58802	6.42160	0.1610310	2.2872689	66	3	1980–2000	0.46	M-v	3	Williams	38864	2000 AZ ₁
2000 AB ₂	14.1	0.15	20000226	87.71850	258.44022	117.11686	7.30857	0.1900698	2.4722629	70	2	1998–2000	0.59	M-v	4	Marsden	38621	2000 AB ₂
2000 AE ₂	14.1	0.15	20000226	310.57058	166.83766	28.29720	6.11690	0.1035070	2.5400683	49	4	1992–2000	0.77	M-v	3	Williams	38621	2000 AE ₂
2000 AJ ₂	13.5	0.15	20000226	99.69111	47.14386	330.06312	13.13191	0.1165683	2.4757951	38	3	1971–2000	0.63	M-v	2	Williams	38621	2000 AJ ₂
2000 AK ₂	14.2	0.15	20000226	45.58729	79.23099	333.80206	9.30631	0.3229658	2.7259557	39	2	1994–2000	0.74	M-v	4	Williams	38621	2000 AK ₂
2000 AM ₂	14.0	0.15	20000226	88.63098	0.89076	36.74886	5.47567	0.1033906	2.3623715	24	4	1973–2000	0.66	M-v	3	Williams	38622	2000 AM ₂
2000 AN ₂	14.0	0.15	20000226	56.84335	96.10025	333.77162	13.53776	0.1027586	2.6453453	68	2	1998–2000	0.64	M-v	3	Williams	38622	2000 AN ₂
2000 AO ₂	15.0	0.15	20000226	62.79163	0.19224	57.84240	3.91837	0.1782020	2.2727522	44	2	1998–2000	0.65	M-v	4	Williams	38864	2000 AO ₂
2000 AQ ₂	12.5	0.15	20000226	195.59020	262.13886	40.62144	11.00902	0.1245709	3.1898839	24	2	1998–2000	0.61	M-v	5	Williams	38622	2000 AQ ₂
2000 AW ₂	12.0	0.15	20000226	145.34737	31.61672	304.95474	6.16736	0.0500674	3.1997118	68	2	1986–2000	0.54	M-v	4	Williams	38864	2000 AW ₂
2000 AL ₃	15.2	0.15	20000226	347.72187	61.10744	65.58382	7.55142	0.0407551	2.2428035	36	1	77 days	0.55	M-v	4	Williams	38864	2000 AL ₃
2000 AN ₄	14.9	0.15	20000226	47.73636	304.38144	139.14145	15.25642	0.2141046	2.7519985	41	1	69 days	0.54	M-v	4	Williams		2000 AN ₄
2000 AP ₄	14.2	0.15	20000226	33.24480	218.21317	230.26031	5.11992	0.1296733	3.1152933	28	1	70 days	0.55	M-v	4	Williams		2000 AP ₄
2000 AQ ₄	15.6	0.15	19991228	7.16855	265.14147	192.17365	3.77190	0.1263716	2.6836185	17	1	21 days	0.42			Williams		2000 AQ ₄
2000 AS ₄	15.2	0.15	20000226	82.83438	84.02678	312.66613	4.00346	0.1550939	2.1994922	53	1	100 days	0.66	M-v	5	Williams	38864	2000 AS ₄
2000 AX ₄	15.7	0.15	20000226	41.70223	127.47877	310.28971	0.28002	0.1593181	2.2515135	70	1	98 days	0.47	M-v	4	Williams	38864	2000 AX ₄
2000 AZ ₄	15.8	0.15	20000226	64.49359	120.32615	298.01570	6.99137	0.0753084	2.3089537	30	1	60 days	0.63	M-v	5	Williams		2000 AZ ₄
2000 AC ₅	14.6	0.15	20000117	295.56389	98.35225	90.58815	5.01182	0.0705364	3.1542357	23	1	53 days	0.49			Williams		2000 AC ₅

2000 AE ₅	15.1	0.15	20000226	76.06744	51.03816	1.46765	3.61816	0.1073319	2.1844879	59	1	109 days	0.52	M-v	4	Williams	38865	2000 AE ₅
2000 AF ₅	13.6	0.15	20000226	16.06475	318.79770	119.27187	5.32618	0.1456799	2.7382450	70	4	1949–2000	0.62	M-v	1	Williams	38624	2000 AF ₅
2000 AH ₅	14.5	0.15	20000226	300.58342	262.27896	283.04490	14.24214	0.1147199	2.5489088	59	1	83 days	0.62	M-v	4	Williams	38865	2000 AH ₅
2000 AT ₅	15.8	0.15	20000226	325.15156	249.28613	313.99419	22.52120	0.1736902	2.2596223	24	1	65 days	0.40	M-v	4	Williams		2000 AT ₅
2000 AC ₆	21.0	0.15	20000226	241.64533	187.41682	102.13984	4.70032	0.2861746	0.8529757	111	1	55 days	0.50	M-v	7	Marsden	38865	2000 AC ₆
2000 AD ₆	18.4	0.15	20000226	25.48880	334.83753	112.94727	30.02975	0.4251661	2.2126331	60	1	55 days	0.55	M-v	5	Williams		2000 AD ₆
2000 AE ₆	17.2	0.15	20000226	37.34059	276.99840	121.82526	11.82331	0.5583002	2.7086596	48	1	51 days	0.56	M-v	5	Williams	38865	2000 AE ₆
2000 AF ₆	19.9	0.15	20000226	203.88162	200.02229	110.90513	2.69269	0.4113226	0.8781681	82	1	55 days	0.54	M-v	6	Marsden	38865	2000 AF ₆
2000 AH ₆	15.1	0.15	20000117	65.07877	309.63137	85.72612	6.15627	0.1662831	2.8581224	25	1	53 days	0.56			Williams		2000 AH ₆
2000 AU ₆	15.2	0.15	19991208	18.29574	357.31562	53.96134	10.25210	0.1475212	2.7320760	19	1	51 days	0.49			Williams		2000 AU ₆
2000 AW ₆	14.4	0.15	19991208	89.75317	286.04012	52.31999	8.66714	0.0873744	2.6189928	18	1	51 days	0.69			Williams		2000 AW ₆
2000 AM ₇	13.4	0.15	20000226	181.24704	218.71274	60.15677	10.22455	0.1175948	2.7933984	26	1	76 days	0.56	M-v	5	Williams		2000 AM ₇
2000 AO ₇	16.0	0.15	19991208	25.57915	352.74400	52.78744	5.11197	0.2009274	2.3484767	18	1	51 days	0.44			Williams		2000 AO ₇
2000 AU ₇	14.3	0.15	20000226	55.60833	331.93682	73.07582	14.81849	0.0839601	2.5945614	28	1	62 days	0.52	M-v	5	Williams		2000 AU ₇
2000 AS ₈	15.7	0.15	19991208	357.32977	47.09782	36.43659	5.43939	0.2103547	2.6236965	20	1	51 days	0.44			Williams		2000 AS ₈
2000 AE ₁₀	13.7	0.15	20000226	108.70279	269.29469	53.95453	15.74073	0.1143892	2.6589729	36	1	92 days	0.50	M-v	5	Williams		2000 AE ₁₀
2000 AX ₁₀	14.3	0.15	20000226	34.31564	354.40749	54.01091	9.86014	0.0952888	2.9650928	26	1	62 days	0.53	M-v	4	Williams		2000 AX ₁₀
2000 AF ₁₁	13.6	0.15	20000226	253.70465	294.32864	269.76011	3.55471	0.0822132	2.7599514	28	1	62 days	0.48	M-v	5	Williams		2000 AF ₁₁
2000 AJ ₁₁	14.2	0.15	19991228	276.03459	242.37983	295.41796	2.88230	0.1239005	2.6505235	19	1	10 days	0.62			Williams		2000 AJ ₁₁
2000 AN ₁₁	16.1	0.15	19991208	349.53889	31.62652	57.91579	7.26921	0.1102132	2.4879706	20	1	53 days	0.36			Williams		2000 AN ₁₁
2000 AP ₁₁	15.7	0.15	19991208	24.65116	6.19405	37.00099	4.00327	0.1597456	2.2615554	23	1	51 days	0.42			Williams		2000 AP ₁₁
2000 AV ₁₁	16.4	0.15	19991208	284.50142	220.50655	301.55377	3.25155	0.0820279	2.3155770	21	1	51 days	0.64			Williams		2000 AV ₁₁
2000 AA ₁₂	14.3	0.15	20000226	10.26388	93.52185	355.61406	2.98658	0.0979418	2.5513026	30	1	89 days	0.36	M-v	4	Williams		2000 AA ₁₂
2000 AB ₁₂	14.7	0.15	19991208	85.61811	344.93046	344.73783	3.23874	0.2069041	2.5587602	19	1	51 days	0.52			Williams		2000 AB ₁₂
2000 AF ₁₂	17.3	0.15	19991118	4.45695	3.00750	59.57222	6.15687	0.1977458	2.2445530	21	1	56 days	0.35			Williams		2000 AF ₁₂
2000 AK ₁₂	14.0	0.15	19991208	246.30404	277.61065	284.98712	7.85282	0.0944584	2.7799647	13	1	51 days	0.46			Williams		2000 AK ₁₂
2000 AO ₁₂	14.8	0.15	19991208	358.58901	21.46620	59.95581	5.93948	0.0139088	2.7490150	26	1	51 days	0.46			Williams		2000 AO ₁₂
2000 AE ₁₃	14.7	0.15	19991208	78.75420	300.83549	47.88002	4.87353	0.1140858	2.7922159	29	1	51 days	0.45			Williams		2000 AE ₁₃
2000 AN ₁₃	15.0	0.15	20000226	42.82092	98.28273	310.45771	2.02499	0.1734711	2.4378657	38	1	111 days	0.56	M-v	4	Williams	38865	2000 AN ₁₃
2000 AP ₁₃	13.2	0.15	19991208	124.82159	33.96941	276.88528	7.12903	0.0658286	3.2055960	20	1	51 days	0.39			Williams		2000 AP ₁₃
2000 AM ₁₆	14.7	0.15	20000226	70.54099	101.80596	284.08954	5.42219	0.1204101	2.4162447	36	1	111 days	0.40	M-v	4	Williams	38865	2000 AM ₁₆
2000 AO ₁₇	12.8	0.15	20000226	229.22015	150.08001	98.47113	12.91808	0.1483885	2.6586283	51	3	1993–2000	0.53	M-v	2	Williams	38626	2000 AO ₁₇
2000 AB ₁₈	12.4	0.15	20000226	149.19580	25.03436	282.15269	6.75059	0.1704022	3.1504189	28	1	76 days	0.50	M-v	5	Williams	38865	2000 AB ₁₈
2000 AC ₁₈	14.7	0.15	20000226	356.99310	197.01113	282.32159	5.70260	0.0866627	2.4122781	27	1	88 days	0.40	M-v	4	Williams		2000 AC ₁₈
2000 AN ₁₈	14.5	0.15	20000226	104.89038	276.18441	75.82615	7.91130	0.1429015	2.3092832	35	1	88 days	0.46	M-v	4	Williams	38865	2000 AN ₁₈
2000 AC ₁₉	13.6	0.15	19991208	260.62253	274.62038	273.71169	8.70963	0.0951163	3.1226830	25	1	51 days	0.51			Williams		2000 AC ₁₉
2000 AK ₁₉	15.6	0.15	19991208	43.56304	99.33259	285.60038	5.07152	0.1253314	2.2556439	18	1	51 days	0.38			Williams		2000 AK ₁₉
2000 AX ₂₁	15.3	0.15	19991208	49.82249	313.81101	46.44331	5.63346	0.2536279	2.3777188	21	1	51 days	0.49			Williams		2000 AX ₂₁
2000 AV ₂₇	14.7	0.15	20000226	339.84989	204.09916	311.08730	6.91294	0.2306385	2.7659073	57	1	80 days	0.43	M-v	4	Williams		2000 AV ₂₇
2000 AX ₃₀	14.7	0.15	20000226	353.95624	183.25501	311.04129	12.68952	0.1489107	2.7703415	35	1	80 days	0.51	M-v	4	Williams		2000 AX ₃₀
2000 AO ₃₁	14.8	0.15	20000226	326.21778	81.31325	94.16451	10.61737	0.1562235	2.3889125	48	3	1993–2000	0.58	M-v	2	Williams	38630	2000 AO ₃₁
2000 AB ₃₂	13.4	0.15	20000226	325.43728	217.00527	312.60911	17.13760	0.1321591	3.1644508	44	1	80 days	0.43	M-v	4	Williams		2000 AB ₃₂
2000 AM ₃₂	15.9	0.15	20000117	318.40918	88.78717	81.86813	3.15672	0.1354507	2.4223915	34	1	53 days	0.52			Williams		2000 AM ₃₂
2000 AP ₃₂	16.2	0.15	20000117	30.14215	98.67763	335.73570	1.92394	0.1851908	2.3115821	23	1	39 days	0.39			Williams		2000 AP ₃₂
2000 AZ ₃₂	14.4	0.15	20000226	30.19643	136.10317	318.00308	6.91015	0.1176939	2.3558968	72	3	1982–2000	0.51	M-v	3	Williams	38631	2000 AZ ₃₂
2000 AG ₃₃	13.9	0.15	20000226	358.49835	168.12304	322.36368	12.00696	0.1188188	2.6964252	47	2	1998–2000	0.52	M-v	3	Williams	38631	2000 AG ₃₃
2000 AK ₃₃	14.4	0.15	20000117	193.15719	222.58058	66.26891	6.79272	0.1094775	2.4000917	29	1	54 days	0.65			Williams		2000 AK ₃₃
2000 AW ₃₃	12.5	0.15	20000226	138.48155	14.11926	317.39993	12.97405	0.2625740	3.0519731	26	1	61 days	0.44	M-v	6	Williams		2000 AW ₃₃
2000 AC ₃₄	13.7	0.15	20000226	268.11707	283.59587	313.91134	12.38810	0.1401501	2.5351280	47	1	80 days	0.52	M-v	4	Williams		2000 AC ₃₄
2000 AE ₃₄	14.6	0.15	20000226	87.34735	67.35830	323.57134	7.27227	0.1200307	2.2979211	35	1	87 days	0.38	M-v	5	Williams	38867	2000 AE ₃₄
2000 AF ₃₄	14.4	0.15	20000226	54.09197	43.27319	10.79005	3.43107	0.2278140	2.6023044	27	1	87 days	0.39	M-v	5	Williams	38867	2000 AF ₃₄
2000 AG ₃₄	16.4	0.15	20000226	13.25407	121.18782	357.52674	3.12206	0.1324807	2.2396434	25	2	1997–2000	0.58	M-v	4	Williams	38632	2000 AG ₃₄
2000 AL ₃₄	15.6	0.15	20000117	330.89781	168.17533	347.14262	4.70269	0.0959975	2.3064808	34	1	54 days	0.74			Williams		2000 AL ₃₄

2000 MAR. 20

M.P.C. 39569

2000 AR ₃₄	13.7	0.15	20000226	53.45056	105.63594	316.08734	16.47460	0.1427367	3.1962657	37	1	71 days	0.44	M-v	4	Williams	2000 AR ₃₄
2000 AT ₃₄	13.7	0.15	20000226	259.11536	295.63383	314.55409	10.75754	0.1712444	2.4042190	57	1	114 days	0.43	M-v	4	Williams	2000 AT ₃₄
2000 AY ₃₈	14.6	0.15	20000117	253.58380	176.42781	59.56276	6.26188	0.1050378	2.6464666	29	1	53 days	0.50			Williams	2000 AY ₃₈
2000 AG ₄₀	14.2	0.15	20000226	51.46396	113.35173	304.72439	16.27910	0.1810768	3.1192186	30	1	66 days	0.56	M-v	5	Williams	2000 AG ₄₀
2000 AZ ₄₀	14.7	0.15	20000226	32.13566	72.47417	22.98451	3.07158	0.1257886	2.4515298	36	1	100 days	0.35	M-v	4	Williams	38868 2000 AZ ₄₀
2000 AA ₄₁	14.3	0.15	20000226	307.78914	99.60053	93.45794	7.38586	0.0529496	2.3630305	39	1	109 days	0.61	M-v	4	Williams	38868 2000 AA ₄₁
2000 AS ₄₁	15.1	0.15	20000226	342.85460	107.68330	51.54688	4.90175	0.0808273	2.3798835	34	3	1993–2000	0.60	M-v	4	Williams	38633 2000 AS ₄₁
2000 AT ₄₁	15.3	0.15	20000226	57.78385	87.73232	323.95448	12.13042	0.2624306	2.4055398	41	1	78 days	0.48	M-v	4	Williams	38868 2000 AT ₄₁
2000 AS ₄₂	17.7	0.15	20000117	357.02823	189.12185	291.87414	21.75068	0.1030164	1.9083251	14	1	53 days	0.50			Marsden	2000 AS ₄₂
2000 AU ₄₂	15.8	0.15	20000226	17.70380	181.54173	299.77076	18.26767	0.0622677	1.9769097	27	1	62 days	0.59	M-v	5	Williams	2000 AU ₄₂
2000 AW ₄₂	16.0	0.15	20000117	308.46662	70.34633	116.73943	24.05737	0.0738563	1.9081918	34	1	55 days	0.46			Williams	2000 AW ₄₂
2000 AY ₄₂	14.7	0.15	20000226	355.67967	227.68558	270.44454	22.47953	0.3770493	2.4141874	41	1	128 days	0.40	M-v	3	Williams	38868 2000 AY ₄₂
2000 AD ₄₃	13.4	0.15	20000226	340.35480	26.31424	117.05308	16.78230	0.1162236	2.6040184	39	1	136 days	0.49	M-v	4	Williams	38868 2000 AD ₄₃
2000 AG ₄₃	14.4	0.15	20000226	53.43955	306.19911	109.85079	14.73070	0.1201641	2.4537669	34	1	91 days	0.42	M-v	4	Williams	2000 AG ₄₃
2000 AK ₄₃	16.0	0.15	20000226	56.99530	139.26506	294.55544	19.32909	0.0609534	1.9446636	40	1	82 days	0.47	M-v	4	Williams	2000 AK ₄₃
2000 AQ ₄₃	15.1	0.15	20000226	86.31603	110.09788	290.15679	3.08252	0.0973260	2.2420515	50	1	110 days	0.56	M-v	4	Williams	38868 2000 AQ ₄₃
2000 AF ₄₅	12.7	0.15	20000226	185.79894	63.55279	263.85302	10.22541	0.0887719	3.0960493	70	2	1998–2000	0.51	M-v	3	Williams	38634 2000 AF ₄₅
2000 AK ₄₅	14.3	0.15	20000226	318.68974	246.83840	269.60645	5.78853	0.0604675	2.3132364	28	1	111 days	0.42	M-v	4	Williams	2000 AK ₄₅
2000 AT ₄₅	16.1	0.15	19991228	353.27525	202.68233	258.02266	1.79554	0.1791104	2.3578438	15	1	8 days	0.41		D	Nakano	2000 AT ₄₅
2000 AC ₄₇	15.0	0.15	20000226	1.56784	187.25856	308.46971	22.02449	0.1614878	2.6973550	43	1	61 days	0.50	M-v	5	Williams	2000 AC ₄₇
2000 AG ₄₇	13.8	0.15	20000226	187.09696	197.39015	112.84304	10.27198	0.0153313	2.7284792	40	1	60 days	0.55	M-v	5	Williams	2000 AG ₄₇
2000 AH ₄₇	15.0	0.15	20000117	260.78014	117.07847	116.97964	13.42295	0.0547938	2.6926907	34	1	58 days	0.57			Williams	2000 AH ₄₇
2000 AK ₄₇	15.5	0.15	20000226	21.02885	133.23558	340.52635	2.19509	0.1501193	2.4109725	47	1	65 days	0.51	M-v	5	Williams	2000 AK ₄₇
2000 AM ₄₇	15.3	0.15	20000226	273.41044	107.21189	127.19983	6.59910	0.0630943	2.2417408	31	1	60 days	0.50	M-v	5	Williams	2000 AM ₄₇
2000 AO ₄₇	15.1	0.15	20000226	48.12908	117.01230	317.88441	4.37637	0.1869992	2.5805626	68	1	61 days	0.48	M-v	4	Williams	2000 AO ₄₇
2000 AP ₄₇	13.9	0.15	20000226	114.37480	42.41892	332.85794	1.32866	0.1068669	2.9263380	52	2	1998–2000	0.53	M-v	4	Williams	38634 2000 AP ₄₇
2000 AR ₄₇	15.2	0.15	20000226	0.41334	145.09048	356.76076	2.28896	0.1304415	2.4588442	37	1	60 days	0.44	M-v	5	Williams	2000 AR ₄₇
2000 AS ₄₇	15.3	0.15	20000226	61.19915	111.20641	319.17289	8.35614	0.0916255	2.2903726	35	1	61 days	0.53	M-v	5	Williams	2000 AS ₄₇
2000 AT ₄₇	14.9	0.15	20000226	45.61037	334.83011	113.18462	7.33356	0.0893844	2.4370307	52	1	89 days	0.45	M-v	4	Williams	2000 AT ₄₇
2000 AU ₄₇	14.6	0.15	20000226	3.81776	8.96587	128.50719	15.75007	0.0715115	2.6573891	38	1	60 days	0.47	M-v	4	Williams	2000 AU ₄₇
2000 AV ₄₇	15.2	0.15	20000226	13.57626	16.50525	111.67704	5.51371	0.1501200	2.3030570	52	2	1994–2000	0.69	M-v	4	Williams	38634 2000 AV ₄₇
2000 AW ₄₇	15.3	0.15	20000226	43.86571	331.36436	106.88596	5.31478	0.2359209	2.5785752	41	1	94 days	0.52	M-v	4	Williams	2000 AW ₄₇
2000 AX ₄₇	14.3	0.15	20000226	36.61103	334.53910	124.79017	14.04188	0.1178306	2.7195370	40	1	88 days	0.49	M-v	4	Williams	2000 AX ₄₇
2000 AY ₄₇	14.5	0.15	20000226	116.98278	243.31002	124.74728	10.52745	0.2079900	2.3321764	52	3	1991–2000	0.59	M-v	3	Williams	38635 2000 AY ₄₇
2000 AZ ₄₇	14.1	0.15	20000226	291.79976	120.33033	118.77969	9.33066	0.2269066	2.7445332	32	1	60 days	0.52	M-v	5	Williams	2000 AZ ₄₇
2000 AA ₄₈	15.0	0.15	20000226	56.24310	79.81584	344.88234	2.45512	0.2149119	2.6041050	36	1	61 days	0.53	M-v	5	Williams	2000 AA ₄₈
2000 AC ₄₈	13.5	0.15	20000226	59.72143	299.89971	129.18951	12.24422	0.1114213	3.0659190	70	1	91 days	0.51	M-v	4	Marsden	38869 2000 AC ₄₈
2000 AK ₄₈	14.7	0.15	20000226	13.69695	357.53160	112.93628	3.90179	0.1561084	2.9915311	54	3	1993–2000	0.79	M-v	4	Williams	38635 2000 AK ₄₈
2000 AN ₄₈	14.6	0.15	20000226	75.72162	251.03558	134.37525	1.04063	0.2206050	2.3834984	83	3	1996–2000	0.57	M-v	4	Williams	38869 2000 AN ₄₈
2000 AU ₄₉	17.2	0.15	20000226	8.35998	5.42276	121.90562	13.17070	0.4520410	2.7942422	57	1	67 days	0.55	M-v	4	Williams	2000 AU ₄₉
2000 AC ₅₀	13.4	0.15	20000226	337.69961	208.08438	318.14878	4.32637	0.1327346	3.1641384	56	2	1998–2000	0.53	M-v	3	Williams	38635 2000 AC ₅₀
2000 AM ₅₀	14.8	0.15	20000226	359.60271	15.73182	128.18557	14.10119	0.1342842	2.5995376	52	1	88 days	0.55	M-v	3	Williams	38869 2000 AM ₅₀
2000 AO ₅₀	12.8	0.15	20000226	204.39891	163.44485	138.15948	10.81801	0.0821514	3.0302826	83	1	61 days	0.51	M-v	5	Williams	2000 AO ₅₀
2000 AP ₅₀	12.0	0.15	20000226	108.71000	69.14756	292.89051	12.42877	0.2143569	2.6199295	72	1	111 days	0.50	M-v	4	Williams	38869 2000 AP ₅₀
2000 AR ₅₀	14.7	0.15	20000226	19.25046	265.58054	206.04885	2.71364	0.1454300	2.5467679	51	1	82 days	0.57	M-v	4	Williams	2000 AR ₅₀
2000 AS ₅₀	12.7	0.15	20000226	156.51796	185.91687	140.05373	10.07132	0.1245555	2.6651655	55	4	1963–2000	0.78	M-v	2	Williams	38636 2000 AS ₅₀
2000 AT ₅₀	13.5	0.15	20000226	1.29602	11.44937	122.37148	12.77983	0.1292774	2.6813762	63	1	138 days	0.48	M-v	3	Williams	38869 2000 AT ₅₀
2000 AU ₅₀	12.9	0.15	20000226	143.05987	52.04930	294.30666	4.20202	0.0668010	2.9563607	66	4	1993–2000	0.58	M-v	3	Williams	38636 2000 AU ₅₀
2000 AV ₅₀	14.1	0.15	20000226	57.10589	228.89305	186.01221	2.98502	0.1972468	2.6619363	53	3	1997–2000	0.61	M-v	3	Williams	38636 2000 AV ₅₀
2000 AW ₅₀	15.3	0.15	20000117	29.85272	137.67057	304.31646	12.92540	0.1585091	2.7665217	43	1	58 days	0.78			Williams	2000 AW ₅₀
2000 AG ₅₂	14.7	0.15	20000226	15.33893	18.26674	37.65268	12.32507	0.1664428	2.6858862	54	1	121 days	0.63	M-v	3	Williams	2000 AG ₅₂
2000 AM ₅₂	15.1	0.15	20000226	26.83273	0.86561	39.18269	10.49029	0.1774005	2.7479808	48	1	96 days	0.46	M-v	3	Williams	2000 AM ₅₂
2000 AR ₅₂	16.5	0.15	20000226	10.63437	185.74454	250.50980	2.71790	0.2099794	2.2661888	41	1	69 days	0.60	M-v	5	Williams	2000 AR ₅₂

2000 AE ₅₃	14.2	0.15	19991208	172.76861	356.02992	263.05194	5.96786	0.0897532	2.3711420	24	1	53 days	0.45		Williams		2000 AE ₅₃
2000 AE ₅₄	14.8	0.15	20000226	352.09067	210.27624	292.38885	3.94873	0.1257045	2.2725673	41	1	93 days	0.62	M-v	4	Williams	38870 2000 AE ₅₄
2000 AF ₅₄	14.1	0.15	20000226	109.35365	245.80585	112.67574	7.62287	0.2000537	2.2845267	53	1	87 days	0.58	M-v	4	Williams	38870 2000 AF ₅₄
2000 AJ ₅₄	12.7	0.15	20000226	205.52280	343.59532	299.84929	11.64340	0.0749160	2.9319864	39	1	87 days	0.55	M-v	5	Williams	38870 2000 AJ ₅₄
2000 AE ₅₅	14.0	0.15	20000226	284.20870	100.30812	118.80306	13.04804	0.1249673	2.6717270	39	1	65 days	0.50	M-v	5	Williams	2000 AE ₅₅
2000 AJ ₅₅	12.9	0.15	20000226	54.49055	126.12447	299.25529	11.53089	0.0913055	2.9480650	61	3	1995–2000	0.67	M-v	2	Williams	38639 2000 AJ ₅₅
2000 AY ₅₅	14.9	0.15	20000226	224.10775	314.79968	318.98531	2.90738	0.0979549	2.2330075	41	2	1998–2000	0.60	M-v	4	Williams	38639 2000 AY ₅₅
2000 AB ₅₆	13.3	0.15	20000226	267.19537	134.74600	103.04884	2.01868	0.1398272	3.1720730	36	1	60 days	0.63	M-v	5	Williams	2000 AB ₅₆
2000 AJ ₅₆	14.5	0.15	20000226	320.60629	77.90898	98.91118	3.36170	0.0724046	2.7110372	33	2	1998–2000	0.67	M-v	4	Williams	38640 2000 AJ ₅₆
2000 AK ₅₆	14.2	0.15	20000226	88.08722	284.00000	110.63732	7.75024	0.0697548	2.8786951	28	1	71 days	0.74	M-v	5	Williams	2000 AK ₅₆
2000 AM ₅₆	15.2	0.15	20000226	307.14286	251.77084	311.88799	4.60047	0.1645924	2.3285893	42	2	1998–2000	0.55	M-v	4	Marsden	38641 2000 AM ₅₆
2000 AN ₅₆	15.5	0.15	20000117	319.78814	220.33722	310.77529	4.73113	0.1161311	2.3113653	25	1	39 days	0.59			Marsden	2000 AN ₅₆
2000 AM ₅₇	15.2	0.15	20000226	320.48388	248.48611	301.89967	9.66488	0.1869700	2.4712838	36	1	65 days	0.66	M-v	5	Williams	2000 AM ₅₇
2000 AS ₅₇	14.8	0.15	20000226	39.17994	134.76826	313.50169	5.98748	0.0870208	2.3768660	54	2	1998–2000	0.59	M-v	3	Williams	38641 2000 AS ₅₇
2000 AA ₅₈	14.0	0.15	20000226	268.11149	118.31633	109.20268	5.91490	0.0142600	2.3835454	52	2	1998–2000	0.65	M-v	4	Williams	38870 2000 AA ₅₈
2000 AE ₅₈	14.3	0.15	20000226	344.13860	221.34141	297.15310	6.43390	0.1497054	2.7133139	51	1	110 days	0.58	M-v	4	Williams	38870 2000 AE ₅₈
2000 AF ₅₈	13.8	0.15	20000226	350.85211	200.90366	303.94513	9.19175	0.0655315	3.1583512	40	1	61 days	0.55	M-v	5	Williams	2000 AF ₅₈
2000 AJ ₅₈	14.0	0.15	20000226	336.58417	169.31379	356.26885	1.53211	0.1390720	3.0167391	46	2	1995–2000	0.48	M-v	5	Williams	38642 2000 AJ ₅₈
2000 AK ₅₈	15.3	0.15	19991228	279.18321	117.10108	108.41552	5.09767	0.2347137	2.1981356	11	1	3 days	0.62		D	Nakano	2000 AK ₅₈
2000 AL ₅₈	13.6	0.15	20000226	206.73207	334.23460	314.75649	5.28619	0.0503699	2.7402732	44	1	109 days	0.46	M-v	4	Williams	38870 2000 AL ₅₈
2000 AM ₅₈	14.6	0.15	20000226	77.00334	287.64389	106.30463	3.56412	0.2113284	2.3912309	42	2	1991–2000	0.59	M-v	4	Williams	38642 2000 AM ₅₈
2000 AO ₅₈	15.5	0.15	20000226	79.59852	75.35393	324.74193	4.03781	0.1381099	2.1712345	37	2	1997–2000	0.49	M-v	4	Williams	38642 2000 AO ₅₈
2000 AS ₅₈	14.4	0.15	20000226	5.43655	177.92544	309.16632	14.76176	0.2223630	3.0965047	41	1	74 days	0.63	M-v	4	Williams	2000 AS ₅₈
2000 AT ₅₈	15.1	0.15	20000226	252.55978	217.52597	29.09748	2.25544	0.0523503	2.2821334	48	3	1997–2000	0.54	M-v	3	Williams	38870 2000 AT ₅₈
2000 AW ₅₈	14.0	0.15	20000226	212.56323	331.96751	314.83952	13.17740	0.1513293	2.5376229	26	1	60 days	0.46	M-v	5	Williams	2000 AW ₅₈
2000 AM ₅₉	15.9	0.15	20000117	87.20071	75.17299	304.37310	9.54046	0.1614788	2.3613683	34	1	58 days	0.60			Williams	2000 AM ₅₉
2000 AP ₅₉	14.8	0.15	20000117	204.80550	340.73253	310.08565	6.59310	0.2653018	2.1826395	31	1	51 days	0.57			Williams	2000 AP ₅₉
2000 AQ ₅₉	15.0	0.15	20000226	251.24753	313.08146	303.90493	4.73269	0.1213355	2.3337382	35	2	1998–2000	0.63	M-v	4	Williams	38643 2000 AQ ₅₉
2000 AR ₅₉	13.1	0.15	20000226	293.94088	104.76767	125.62300	14.20045	0.2564945	3.1664883	47	1	65 days	0.47	M-v	4	Williams	2000 AR ₅₉
2000 AS ₅₉	15.0	0.15	20000117	94.52036	74.04857	301.02143	4.84297	0.1485688	2.4187154	37	1	51 days	0.54			Williams	2000 AS ₅₉
2000 AU ₅₉	14.3	0.15	20000226	68.75135	302.00946	102.17992	3.69392	0.1972136	2.6159206	37	1	109 days	0.47	M-v	4	Williams	38871 2000 AU ₅₉
2000 AW ₅₉	14.8	0.15	20000226	53.45942	121.96670	308.62146	14.51107	0.1178209	2.6437956	44	1	110 days	0.64	M-v	4	Williams	38871 2000 AW ₅₉
2000 AZ ₅₉	13.6	0.15	20000226	166.00656	245.08531	82.76149	2.76995	0.0309910	2.9632237	55	3	1996–2000	0.75	M-v	3	Williams	38643 2000 AZ ₅₉
2000 AA ₆₀	14.1	0.15	20000226	10.53914	169.31298	311.04892	4.78765	0.2534432	3.0686017	46	1	111 days	0.46	M-v	3	Williams	38871 2000 AA ₆₀
2000 AJ ₆₀	15.0	0.15	20000226	74.48429	292.31517	106.51775	1.13021	0.2114751	2.3160842	51	1	109 days	0.57	M-v	4	Williams	38871 2000 AJ ₆₀
2000 AK ₆₀	13.5	0.15	20000226	123.72700	242.50773	125.64631	13.66075	0.0424955	3.1344724	76	1	60 days	0.64	M-v	5	Williams	2000 AK ₆₀
2000 AL ₆₀	13.8	0.15	20000226	272.19050	115.40763	121.52504	10.01931	0.1117225	2.7869575	33	1	60 days	0.50	M-v	5	Williams	2000 AL ₆₀
2000 AN ₆₀	13.2	0.15	20000226	216.32735	340.66640	307.53922	12.09947	0.1484361	3.0063571	29	1	61 days	0.52	M-v	6	Williams	2000 AN ₆₀
2000 AO ₆₀	16.8	0.15	20000226	338.65816	254.39642	297.44984	5.09078	0.3639544	2.2749249	36	1	61 days	0.64	M-v	5	Williams	2000 AO ₆₀
2000 AP ₆₀	14.3	0.15	20000226	85.00289	85.42829	304.34630	6.61462	0.2004897	2.3694136	82	4	1984–2000	0.52	M-v	1	Williams	38871 2000 AP ₆₀
2000 AQ ₆₀	15.9	0.15	20000117	10.75491	186.21053	287.16988	2.03992	0.1076297	2.3539100	38	1	53 days	0.53			Williams	2000 AQ ₆₀
2000 AS ₆₀	14.6	0.15	20000226	340.30093	48.33985	119.99449	17.05931	0.1915963	2.8764861	38	1	68 days	0.41	M-v	4	Williams	2000 AS ₆₀
2000 AT ₆₀	15.2	0.15	20000226	100.50207	273.04957	110.50515	4.89844	0.1269288	2.2273238	25	1	60 days	0.47	M-v	5	Williams	2000 AT ₆₀
2000 AV ₆₀	15.1	0.15	20000226	56.57084	114.87872	313.13755	6.83414	0.1321498	2.2389259	53	1	110 days	0.57	M-v	4	Williams	38871 2000 AV ₆₀
2000 AW ₆₀	13.9	0.15	20000226	177.77066	203.54526	113.40253	8.44138	0.1381021	2.4367241	37	1	60 days	0.44	M-v	5	Williams	2000 AW ₆₀
2000 AG ₆₁	13.4	0.15	20000226	288.71567	253.42328	319.42820	10.14044	0.0643766	3.0913258	39	1	60 days	0.45	M-v	5	Williams	2000 AG ₆₁
2000 AT ₆₁	15.2	0.15	20000226	8.89610	6.73024	123.14411	3.40584	0.1296508	2.3169897	91	2	1998–2000	0.47	M-v	3	Williams	38871 2000 AT ₆₁
2000 AU ₆₁	13.1	0.15	20000226	275.09116	292.30304	308.95590	6.63916	0.1583036	2.5672374	71	1	111 days	0.39	M-v	4	Williams	38871 2000 AU ₆₁
2000 AV ₆₁	15.2	0.15	20000226	336.30838	229.92127	309.64190	3.65691	0.2318246	2.6504762	68	1	62 days	0.48	M-v	4	Williams	2000 AV ₆₁
2000 AW ₆₁	13.6	0.15	20000226	126.41007	48.39097	307.54548	6.53456	0.1873186	2.7930211	74	3	1993–2000	0.52	M-v	3	Williams	38643 2000 AW ₆₁
2000 AX ₆₁	15.3	0.15	20000226	37.75228	137.59258	317.51227	5.99382	0.0789067	2.4330883	29	1	66 days	0.47	M-v	4	Williams	2000 AX ₆₁
2000 AY ₆₁	13.2	0.15	20000226	246.09832	156.80148	114.78003	9.05994	0.2321918	2.7420297	48	1	60 days	0.47	M-v	5	Williams	2000 AY ₆₁
2000 AZ ₆₁	14.8	0.15	20000226	55.52467	103.42466	310.48353	11.61550	0.2641044	2.6877141	29	1	61 days	0.35	M-v	5	Williams	2000 AZ ₆₁

2000 MAR. 20

M.P.C. 39571

2000 AA ₆₂	13.1	0.15	20000226	234.10345	153.24913	122.76464	14.94355	0.1556180	2.6638092	53	2	1998–2000	0.48	M-v	3	Williams	38644	2000 AA ₆₂
2000 AB ₆₂	14.7	0.15	20000226	48.44728	324.52639	102.02484	2.49356	0.2330407	3.0061863	70	2	1998–2000	0.66	M-v	3	Williams	38644	2000 AB ₆₂
2000 AC ₆₂	14.1	0.15	20000117	59.00998	296.34214	122.07699	11.77765	0.1280839	3.2409628	24	1	38 days	0.43			Marsden		2000 AC ₆₂
2000 AD ₆₂	13.4	0.15	20000226	44.64414	140.55303	310.22531	8.55547	0.0365335	2.9877644	54	1	110 days	0.46	M-v	4	Williams	38871	2000 AD ₆₂
2000 AE ₆₂	13.5	0.15	20000226	266.58181	309.69876	308.04287	22.85801	0.2382065	2.4069741	52	1	92 days	0.42	M-v	4	Williams	38871	2000 AE ₆₂
2000 AF ₆₂	13.6	0.15	20000226	28.85922	341.48562	123.24502	14.60544	0.1112131	2.6116077	48	1	136 days	0.51	M-v	3	Williams	38871	2000 AF ₆₂
2000 AH ₆₂	13.8	0.15	20000117	108.97085	242.82211	127.98365	4.25196	0.1171660	3.0743723	35	1	38 days	0.79			Williams		2000 AH ₆₂
2000 AK ₆₂	12.5	0.15	20000226	353.21450	195.26957	311.87039	11.98728	0.0562852	3.1409197	92	1	118 days	0.48	M-v	3	Williams	38871	2000 AK ₆₂
2000 AL ₆₂	14.7	0.15	20000226	158.89854	210.17020	124.86581	7.15238	0.1456546	2.3092021	30	1	60 days	0.68	M-v	6	Williams		2000 AL ₆₂
2000 AM ₆₂	14.8	0.15	20000226	16.04747	164.88080	313.99420	12.40707	0.1377287	2.6759037	47	1	61 days	0.45	M-v	5	Marsden		2000 AM ₆₂
2000 AN ₆₂	15.7	0.15	20000226	2.21960	51.16587	87.99315	3.20773	0.1552144	2.4055615	28	1	60 days	0.49	M-v	5	Williams		2000 AN ₆₂
2000 AO ₆₂	15.0	0.15	20000226	346.70500	59.26518	98.61590	4.36836	0.1226885	2.6067077	28	1	60 days	0.51	M-v	5	Williams		2000 AO ₆₂
2000 AQ ₆₂	14.1	0.15	20000226	294.90863	103.01800	108.23192	7.35056	0.0634401	2.3588710	48	1	109 days	0.47	M-v	4	Williams	38871	2000 AQ ₆₂
2000 AR ₆₂	16.4	0.15	20000226	7.19787	164.07583	328.43541	4.78145	0.1488113	2.2758309	41	1	68 days	0.56	M-v	5	Williams		2000 AR ₆₂
2000 AY ₆₂	13.3	0.15	20000226	34.57682	356.80697	97.55163	7.92521	0.1164978	3.0733823	47	1	109 days	0.55	M-v	4	Williams	38871	2000 AY ₆₂
2000 AZ ₆₂	15.4	0.15	20000226	29.58971	88.12440	14.17282	3.12215	0.1271422	2.3125941	29	1	60 days	0.38	M-v	4	Williams		2000 AZ ₆₂
2000 AB ₆₃	15.4	0.15	20000117	338.71222	196.46111	318.34403	14.26155	0.1301876	2.6576201	60	1	53 days	0.71			Williams		2000 AB ₆₃
2000 AC ₆₃	13.4	0.15	20000226	88.66415	284.20935	107.33192	12.49112	0.1523782	3.0655240	35	1	107 days	0.56	M-v	4	Williams		2000 AC ₆₃
2000 AE ₆₃	14.5	0.15	20000226	43.67193	101.78408	331.75179	9.59596	0.2202870	2.9730952	36	2	1998–2000	0.64	M-v	3	Williams	38644	2000 AE ₆₃
2000 AP ₆₃	15.1	0.15	20000226	331.17359	70.15605	102.68483	7.66084	0.0500118	2.2971945	38	1	88 days	0.73	M-v	4	Williams	38871	2000 AP ₆₃
2000 AQ ₆₃	13.5	0.15	20000226	158.59494	8.37039	325.00537	13.05164	0.1615134	2.6873802	26	1	60 days	0.52	M-v	5	Williams		2000 AQ ₆₃
2000 AS ₆₃	14.4	0.15	20000226	316.04076	78.21539	120.41137	11.20068	0.1553066	2.6618407	29	1	60 days	0.53	M-v	5	Williams		2000 AS ₆₃
2000 AT ₆₃	14.1	0.15	20000226	71.96507	92.95635	312.16116	11.81185	0.1941765	2.5400374	93	3	1996–2000	0.62	M-v	1	Marsden	38645	2000 AT ₆₃
2000 AV ₆₃	13.8	0.15	20000226	145.75814	225.86697	113.59781	6.65545	0.2472032	2.4636339	29	1	60 days	0.47	M-v	5	Williams		2000 AV ₆₃
2000 AZ ₆₃	14.9	0.15	20000226	39.02192	124.14958	324.80466	5.69038	0.1661615	2.5462499	48	2	1992–2000	0.59	M-v	4	Marsden	38645	2000 AZ ₆₃
2000 AA ₆₄	11.7	0.15	20000226	290.74808	97.20417	120.61276	7.65410	0.0778897	4.0072400	61	4	1996–2000	0.61	M-v	2	Williams	38645	2000 AA ₆₄
2000 AB ₆₄	14.4	0.15	20000226	133.67623	269.09648	83.75991	2.81711	0.1872166	2.2361007	34	1	109 days	0.47	M-v	4	Williams	38871	2000 AB ₆₄
2000 AC ₆₄	15.4	0.15	20000226	29.26057	148.51400	319.91910	6.18689	0.0774486	2.4166520	39	1	61 days	0.51	M-v	5	Williams		2000 AC ₆₄
2000 AE ₆₄	13.5	0.15	20000226	275.54532	122.40563	128.50174	14.50536	0.2234555	2.6715632	53	2	1988–2000	0.46	M-v	4	Williams	38646	2000 AE ₆₄
2000 AF ₆₄	14.8	0.15	20000226	287.64558	105.47081	116.05381	5.11805	0.0639594	2.3356951	52	2	1998–2000	0.57	M-v	4	Williams	38646	2000 AF ₆₄
2000 AG ₆₄	14.1	0.15	20000226	253.63105	130.84263	122.13344	9.37891	0.0423698	2.3254146	39	1	88 days	0.50	M-v	4	Williams	38871	2000 AG ₆₄
2000 AJ ₆₄	13.0	0.15	20000226	270.06749	128.37148	115.62428	10.28466	0.1148783	2.8111087	42	1	90 days	0.46	M-v	4	Williams		2000 AJ ₆₄
2000 AK ₆₄	15.8	0.15	20000117	253.49151	139.56161	103.86692	7.68792	0.0670112	2.2750889	34	1	58 days	0.66			Williams		2000 AK ₆₄
2000 AM ₆₄	12.8	0.15	20000226	236.49628	231.93844	34.36405	3.89296	0.0348431	3.2021076	32	1	60 days	0.38	M-v	5	Williams		2000 AM ₆₄
2000 AN ₆₄	14.6	0.15	20000226	59.13683	83.04416	333.86711	7.90916	0.2118463	2.7262134	53	2	1998–2000	0.71	M-v	3	Williams	38646	2000 AN ₆₄
2000 AR ₆₄	14.3	0.15	20000226	283.90344	252.61978	342.27723	8.20800	0.1615145	2.5938375	38	2	1996–2000	0.52	M-v	4	Williams	38647	2000 AR ₆₄
2000 AU ₆₄	14.4	0.15	20000226	335.29437	73.74551	101.20909	9.11026	0.1312656	2.5435803	61	1	91 days	0.49	M-v	4	Williams		2000 AU ₆₄
2000 AV ₆₄	13.9	0.15	20000226	170.64685	281.98836	46.30287	4.07474	0.0955150	2.5914955	32	1	68 days	0.52	M-v	5	Williams		2000 AV ₆₄
2000 AZ ₆₄	15.8	0.15	20000226	340.99273	80.92221	88.97548	3.15801	0.1430499	2.3356548	41	1	60 days	0.47	M-v	4	Williams		2000 AZ ₆₄
2000 AA ₆₅	14.0	0.15	20000226	92.11409	307.94874	96.05782	3.34195	0.0497583	2.8496061	51	1	90 days	0.55	M-v	4	Marsden	38872	2000 AA ₆₅
2000 AB ₆₅	14.1	0.15	20000226	19.89511	164.94832	313.18974	12.37471	0.1130338	2.6700172	41	1	110 days	0.53	M-v	4	Williams	38872	2000 AB ₆₅
2000 AD ₆₅	14.8	0.15	20000226	52.82857	324.61162	119.83141	8.94291	0.0592595	2.5649635	66	1	65 days	0.54	M-v	4	Williams		2000 AD ₆₅
2000 AE ₆₅	14.3	0.15	20000226	285.48151	273.45840	317.44288	12.14586	0.1180027	2.5273225	55	1	61 days	0.42	M-v	4	Williams		2000 AE ₆₅
2000 AJ ₆₅	14.5	0.15	20000226	350.01610	60.86221	94.05821	3.94765	0.0297656	2.2755803	71	3	1991–2000	0.53	M-v	3	Williams	38872	2000 AJ ₆₅
2000 AM ₆₅	14.1	0.15	20000226	25.27912	1.96149	105.36389	9.59737	0.1813527	3.0777017	19	1	60 days	0.62	M-v	5	Williams		2000 AM ₆₅
2000 AR ₆₅	15.0	0.15	20000226	78.19965	52.46265	341.08944	8.87017	0.2523143	2.3478038	45	1	60 days	0.58	M-v	5	Williams		2000 AR ₆₅
2000 AS ₆₅	14.0	0.15	20000226	305.75870	212.78983	356.50154	8.44131	0.1295504	2.9818728	30	1	60 days	0.52	M-v	5	Williams		2000 AS ₆₅
2000 AV ₆₅	14.9	0.15	20000226	10.27324	158.07590	332.04413	13.49323	0.1109415	2.7195659	39	1	87 days	0.59	M-v	4	Williams		2000 AV ₆₅
2000 AX ₆₅	14.6	0.15	19991228	303.59710	90.80205	105.72476	12.65084	0.1103277	2.7354216	16	1	13 days	0.36			Williams		2000 AX ₆₅
2000 AZ ₆₅	14.7	0.15	20000226	297.67109	112.63666	105.22039	7.14773	0.1060067	2.3140261	39	1	88 days	0.64	M-v	5	Williams		2000 AZ ₆₅
2000 AA ₆₆	15.1	0.15	20000226	44.53609	346.56497	100.91035	7.42503	0.1359175	2.4745309	22	1	65 days	0.49	M-v	5	Williams		2000 AA ₆₆
2000 AC ₆₆	13.1	0.15	20000226	74.27756	343.21156	79.26874	3.03505	0.0733424	3.0187668	86	3	1996–2000	0.56	M-v	2	Williams	38647	2000 AC ₆₆
2000 AD ₆₆	15.0	0.15	20000226	81.10514	343.49646	58.72018	0.57839	0.1913407	2.3065254	85	5	1981–2000	0.61	M-v	2	Williams	38647	2000 AD ₆₆

2000 AE ₆₆	14.3	0.15	20000226	24.16503	148.92073	323.02992	17.53353	0.1628676	3.1560119	52	1	61 days	0.47	M-v	5	Williams	2000 AE ₆₆
2000 AG ₆₆	15.4	0.15	20000226	345.93161	80.34290	91.45302	5.64426	0.2463630	2.5874835	30	1	68 days	0.55	M-v	4	Williams	2000 AG ₆₆
2000 AL ₆₆	13.7	0.15	20000226	45.17254	107.52915	341.88448	10.73269	0.0958494	3.2509969	21	1	61 days	0.52	M-v	6	Williams	2000 AL ₆₆
2000 AP ₆₆	15.5	0.15	20000226	24.71623	30.82725	81.25196	4.14653	0.1973343	2.2923082	36	1	89 days	0.41	M-v	4	Williams	2000 AP ₆₆
2000 AQ ₆₆	15.3	0.15	20000226	19.70987	22.86555	97.29313	6.14004	0.1793161	2.3875196	41	1	68 days	0.45	M-v	4	Williams	2000 AQ ₆₆
2000 AR ₆₆	15.1	0.15	20000226	64.64042	91.39984	325.65871	11.23481	0.2162116	2.3727667	60	1	93 days	0.57	M-v	4	Williams	38872 2000 AR ₆₆
2000 AT ₆₆	14.6	0.15	20000226	329.01307	85.79720	105.12665	8.66715	0.1665929	2.7946426	26	1	60 days	0.43	M-v	4	Williams	2000 AT ₆₆
2000 AU ₆₆	13.4	0.15	20000226	102.43820	33.02534	357.39923	9.39520	0.0997398	3.0572836	31	1	60 days	0.65	M-v	5	Williams	2000 AU ₆₆
2000 AX ₆₆	13.8	0.15	20000226	17.17487	134.94861	348.69830	10.34978	0.1196035	2.9724675	37	1	87 days	0.71	M-v	4	Williams	2000 AX ₆₆
2000 AZ ₆₆	12.4	0.15	20000226	189.55930	207.28514	112.71253	11.53984	0.1292025	3.0360359	77	5	1993–2000	0.58	M-v	1	Williams	38648 2000 AZ ₆₆
2000 AJ ₆₇	14.9	0.15	20000226	42.29023	147.57026	303.19528	1.94785	0.0800435	2.5123969	40	1	65 days	0.44	M-v	5	Williams	2000 AJ ₆₇
2000 AK ₆₇	13.7	0.15	20000226	144.27508	219.28925	121.69684	14.27198	0.2095311	2.5985215	30	1	60 days	0.42	M-v	5	Williams	2000 AK ₆₇
2000 AM ₆₇	15.3	0.15	20000226	83.78583	295.02893	103.88968	4.83784	0.1492214	2.1923825	47	1	88 days	0.61	M-v	4	Williams	38872 2000 AM ₆₇
2000 AP ₆₇	15.1	0.15	20000226	274.63024	261.92432	331.06751	2.31585	0.0487523	2.3462600	52	2	1998–2000	0.54	M-v	4	Williams	38648 2000 AP ₆₇
2000 AQ ₆₇	15.2	0.15	20000226	56.20941	348.01539	80.11230	3.65307	0.1716291	2.4065222	39	1	109 days	0.54	M-v	4	Williams	38872 2000 AQ ₆₇
2000 AX ₆₇	14.4	0.15	20000226	245.41292	230.90706	43.67965	3.16097	0.1778148	2.4656457	31	1	61 days	0.50	M-v	5	Williams	2000 AX ₆₇
2000 AZ ₆₇	15.3	0.15	20000117	91.21586	283.74275	108.11594	3.72425	0.0654671	2.8548665	25	1	53 days	0.60			Williams	2000 AZ ₆₇
2000 AA ₆₈	14.2	0.15	20000226	306.54621	117.47315	96.33770	6.21843	0.1036603	2.2703578	58	1	99 days	0.37	M-v	4	Williams	38872 2000 AA ₆₈
2000 AB ₆₈	13.9	0.15	20000226	263.89072	147.64262	115.00682	12.61502	0.1524023	2.5933135	42	1	68 days	0.45	M-v	5	Williams	2000 AB ₆₈
2000 AE ₆₈	13.8	0.15	20000226	4.70693	30.95837	113.62902	9.51429	0.1307563	2.7609178	57	1	99 days	0.40	M-v	3	Williams	38872 2000 AE ₆₈
2000 AM ₆₈	12.4	0.15	20000226	242.26491	137.55981	72.64902	36.26577	0.1701548	2.7691455	52	1	109 days	0.50	M-v	4	Williams	38872 2000 AM ₆₈
2000 AC ₆₉	14.6	0.15	19991208	48.72855	111.56261	258.71127	12.62779	0.1662368	2.6963246	22	1	53 days	0.44			Williams	2000 AC ₆₉
2000 AQ ₆₉	13.3	0.15	20000226	297.62330	75.46029	96.54621	14.17121	0.1248646	2.6464442	61	1	126 days	0.49	M-v	4	Williams	2000 AQ ₆₉
2000 AR ₆₉	13.3	0.15	20000226	304.11662	73.75023	93.66007	17.09070	0.1803513	3.1292265	32	1	89 days	0.63	M-v	5	Williams	2000 AR ₆₉
2000 AX ₆₉	14.7	0.15	20000226	19.65611	237.30187	198.07815	3.85816	0.2353217	2.5822105	41	1	122 days	0.50	M-v	3	Williams	2000 AX ₆₉
2000 AP ₇₀	13.9	0.15	20000226	4.68521	327.03264	134.75490	5.02348	0.1668069	2.3898948	48	3	1971–2000	0.52	M-v	3	Williams	38648 2000 AP ₇₀
2000 AQ ₇₀	12.3	0.15	20000226	322.01026	43.15260	95.59319	23.80601	0.1059177	3.1680621	43	1	120 days	0.43	M-v	4	Williams	2000 AQ ₇₀
2000 AA ₇₁	13.3	0.15	20000226	349.88100	359.63321	107.95599	9.72350	0.0819035	3.1725948	33	1	89 days	0.45	M-v	4	Williams	38872 2000 AA ₇₁
2000 AS ₇₁	14.0	0.15	20000226	2.06955	358.14555	93.39173	14.96678	0.0816107	2.6384358	34	1	89 days	0.52	M-v	4	Williams	2000 AS ₇₁
2000 AW ₇₁	15.7	0.15	19991208	346.02251	197.25249	258.93024	8.10157	0.1611868	2.7869520	27	1	55 days	0.59			Williams	2000 AW ₇₁
2000 AG ₇₆	13.3	0.15	20000226	304.18896	58.99038	117.50149	12.91355	0.1316461	2.5532969	39	3	1988–2000	0.55	M-v	3	Williams	38649 2000 AG ₇₆
2000 AO ₇₆	12.8	0.15	20000226	64.59181	268.05241	113.48508	12.01148	0.1674390	3.0583420	48	1	89 days	0.42	M-v	4	Williams	2000 AO ₇₆
2000 AM ₇₇	14.2	0.15	20000226	42.37285	276.80373	127.40010	6.85176	0.2839484	2.5619905	41	1	136 days	0.40	M-v	4	Williams	38872 2000 AM ₇₇
2000 AY ₇₈	13.8	0.15	20000226	49.13356	179.35055	232.82301	6.81332	0.1273082	2.7556923	25	1	90 days	0.44	M-v	4	Williams	2000 AY ₇₈
2000 AH ₈₀	14.5	0.15	20000226	94.53157	189.53017	177.70976	3.51704	0.1613791	2.1923298	59	2	1998–2000	0.64	M-v	4	Williams	38650 2000 AH ₈₀
2000 AH ₈₁	13.8	0.15	20000226	39.67767	301.23082	114.36648	11.40149	0.0948029	2.9764519	28	1	91 days	0.50	M-v	4	Williams	2000 AH ₈₁
2000 AW ₈₃	14.4	0.15	20000226	40.05978	249.48246	184.35834	2.70772	0.1279854	2.2645277	45	4	1985–2000	0.59	M-v	1	Williams	38651 2000 AW ₈₃
2000 AP ₈₄	11.5	0.15	20000226	33.26171	163.88710	271.50501	6.08079	0.1497905	5.1833629	37	1	91 days	0.50	M-v	5	Williams	2000 AP ₈₄
2000 AC ₈₅	14.5	0.15	20000226	344.40639	230.76993	281.52200	10.52270	0.1856805	2.6448133	31	1	79 days	0.63	M-v	4	Williams	38873 2000 AC ₈₅
2000 AX ₈₅	13.9	0.15	20000226	329.90878	40.32177	121.84917	14.16533	0.0604871	2.5339369	61	2	1995–2000	0.42	M-v	4	Williams	38873 2000 AX ₈₅
2000 AH ₈₆	13.6	0.15	20000226	329.38906	291.75193	238.39680	0.54879	0.1693855	3.1238278	36	2	1998–2000	0.63	M-v	5	Williams	38653 2000 AH ₈₆
2000 AW ₈₆	15.0	0.15	20000226	49.39162	250.04655	180.51117	2.48960	0.1229370	2.3137320	33	2	1997–2000	0.51	M-v	5	Williams	38653 2000 AW ₈₆
2000 AG ₈₇	14.9	0.15	20000226	98.29027	133.91629	237.96549	1.67848	0.1773058	2.3445455	27	2	1995–2000	0.54	M-v	4	Williams	38654 2000 AG ₈₇
2000 AL ₈₇	15.2	0.15	19991228	325.24755	225.93861	295.25450	3.95711	0.1768393	2.6033118	11	1	8 days	0.39			Williams	2000 AL ₈₇
2000 AV ₈₇	13.1	0.15	20000226	239.63108	127.18089	127.03493	11.18607	0.0646099	2.9706173	45	2	1996–2000	0.50	M-v	4	Williams	38654 2000 AV ₈₇
2000 AX ₈₇	13.9	0.15	20000226	65.33324	99.73213	294.46725	14.39591	0.2561278	3.1137064	61	2	1998–2000	0.71	M-v	3	Williams	38655 2000 AX ₈₇
2000 AO ₈₈	13.6	0.15	20000226	207.36981	163.04874	125.90655	7.54124	0.1388396	2.3505546	59	3	1994–2000	0.55	M-v	3	Williams	38656 2000 AO ₈₈
2000 AS ₈₈	13.9	0.15	20000117	184.28252	169.46900	129.55797	11.34960	0.0855659	2.9698935	26	1	59 days	0.61			Williams	2000 AS ₈₈
2000 AW ₈₈	14.9	0.15	20000226	302.12996	63.21571	133.83832	7.08993	0.0553153	2.3086027	42	2	1998–2000	0.71	M-v	4	Williams	38656 2000 AW ₈₈
2000 AY ₈₈	13.1	0.15	20000226	107.34289	86.57074	287.12035	8.53827	0.0982281	3.0698935	32	1	60 days	0.67	M-v	6	Williams	2000 AY ₈₈
2000 AA ₈₉	13.9	0.15	20000226	99.28900	153.72291	228.44636	2.09843	0.0956844	2.7502760	63	3	1996–2000	0.56	M-v	3	Williams	38657 2000 AA ₈₉
2000 AH ₈₉	14.6	0.15	20000226	92.66873	238.25970	152.54478	4.09956	0.0954498	2.1850465	45	3	1994–2000	0.62	M-v	2	Williams	38657 2000 AH ₈₉
2000 AK ₈₉	14.7	0.15	20000226	89.79335	110.95855	282.64936	5.61766	0.0966634	2.2480020	38	1	103 days	0.41	M-v	4	Williams	2000 AK ₈₉

2000 MAR. 20

M.P.C. 39573

2000 AM ₈₉	13.7	0.15	20000226	330.02960	9.78212	167.13799	1.94889	0.1859467	3.1021175	32	2	1997–2000	0.50	M-v	4	Williams	38657	2000 AM ₈₉
2000 AO ₈₉	13.3	0.15	20000226	8.46099	321.28691	162.27642	2.78460	0.0403506	3.1530756	67	2	1998–2000	0.57	M-v	4	Williams	38658	2000 AO ₈₉
2000 AQ ₈₉	13.9	0.15	20000226	176.10811	15.54501	299.97266	5.85314	0.1498041	2.3856218	48	3	1987–2000	0.70	M-v	3	Williams	38658	2000 AQ ₈₉
2000 AR ₈₉	13.0	0.15	20000226	125.74771	52.94408	299.33659	7.96003	0.1733183	2.7837022	41	1	110 days	0.47	M-v	4	Williams	38874	2000 AR ₈₉
2000 AZ ₈₉	14.7	0.15	20000226	340.96342	10.21532	134.94221	7.05846	0.0610171	2.3060392	45	2	1998–2000	0.77	M-v	4	Williams	38658	2000 AZ ₈₉
2000 AP ₉₀	15.5	0.15	20000117	56.41370	103.95613	296.59286	1.48708	0.2047370	2.7327919	26	1	40 days	0.66			Williams		2000 AP ₉₀
2000 AU ₉₀	14.6	0.15	20000117	356.61713	354.75558	130.98977	10.36939	0.1082193	2.7681612	27	1	59 days	0.53			Williams		2000 AU ₉₀
2000 AK ₉₁	12.9	0.15	20000226	249.33754	291.90744	325.12756	7.10326	0.0713424	3.2169960	46	1	61 days	0.58	M-v	5	Marsden		2000 AK ₉₁
2000 AL ₉₁	14.4	0.15	20000117	324.07646	195.99052	335.70661	6.76844	0.0562175	3.0772077	41	1	59 days	0.55			Williams		2000 AL ₉₁
2000 AS ₉₁	13.5	0.15	20000226	239.32466	317.85624	298.96712	6.43895	0.0227372	3.2260223	29	3	1979–2000	0.59	M-v	4	Williams	38660	2000 AS ₉₁
2000 AU ₉₁	15.4	0.15	20000226	346.56018	235.10417	284.06050	3.41643	0.1924997	2.6009478	39	1	60 days	0.44	M-v	5	Williams		2000 AU ₉₁
2000 AW ₉₁	13.3	0.15	20000226	293.05815	287.56161	296.52923	6.37236	0.1900908	3.1664322	40	1	62 days	0.58	M-v	5	Williams		2000 AW ₉₁
2000 AZ ₉₁	14.3	0.15	20000117	91.78294	246.71855	129.23720	12.71300	0.1877059	2.6038901	33	1	59 days	0.54			Williams		2000 AZ ₉₁
2000 AB ₉₂	14.1	0.15	20000226	334.35009	274.55774	262.88839	6.67830	0.1189796	2.7538465	37	1	61 days	0.47	M-v	4	Williams		2000 AB ₉₂
2000 AC ₉₂	13.2	0.15	20000226	60.34752	271.70876	164.74115	11.10330	0.0716833	2.9926554	42	1	61 days	0.43	M-v	5	Williams		2000 AC ₉₂
2000 AE ₉₂	14.2	0.15	20000226	36.20765	195.32101	259.58754	6.24247	0.1897846	2.6583701	79	3	1981–2000	0.59	M-v	2	Williams	38660	2000 AE ₉₂
2000 AG ₉₂	13.5	0.15	20000226	35.76110	159.66963	309.23393	13.65482	0.0577280	2.7072514	44	1	91 days	0.50	M-v	4	Williams	38874	2000 AG ₉₂
2000 AJ ₉₂	13.9	0.15	20000226	27.32899	145.42814	322.96602	16.15246	0.1321928	3.1078645	59	1	65 days	0.43	M-v	4	Williams		2000 AJ ₉₂
2000 AT ₉₂	14.9	0.15	20000226	316.26117	116.09804	88.08921	23.29779	0.2030031	2.3534071	35	1	83 days	0.54	M-v	4	Williams		2000 AT ₉₂
2000 AN ₉₃	14.4	0.15	20000226	299.81482	99.34688	122.36880	23.89034	0.0532815	1.9393948	60	1	100 days	0.36	M-v	4	Williams		2000 AN ₉₃
2000 AR ₉₃	15.1	0.15	20000226	223.17324	142.65561	134.25441	25.03201	0.0577265	1.9257131	28	1	63 days	0.42	M-v	4	Williams		2000 AR ₉₃
2000 AV ₉₃	15.7	0.15	20000226	330.12400	60.93377	88.30186	1.34243	0.1527015	2.3261921	39	1	79 days	0.62	M-v	5	Williams		2000 AV ₉₃
2000 AX ₉₃	17.4	0.15	20000226	358.95183	234.18569	291.17434	23.35695	0.4795906	2.2090738	122	1	83 days	0.50	M-v	4	Williams	38875	2000 AX ₉₃
2000 AY ₉₃	17.3	0.15	20000226	0.33139	232.97749	281.74214	11.37951	0.5280142	3.1951946	72	1	54 days	0.69	M-v	4	Williams	38875	2000 AY ₉₃
2000 AZ ₉₃	20.4	0.15	20000226	245.08500	7.88491	277.61948	8.60109	0.3598203	3.0468980	52	1	48 days	0.51	M-v	7	Williams	38875	2000 AZ ₉₃
2000 AY ₉₄	13.6	0.15	20000226	16.13472	316.47328	162.93846	0.78278	0.1221840	3.1782752	87	3	1983–2000	0.54	M-v	3	Williams	38660	2000 AY ₉₄
2000 AB ₉₅	15.2	0.15	20000226	340.16198	219.25399	306.28930	6.01649	0.0686849	2.3992992	36	2	1989–2000	0.58	M-v	4	Williams	38661	2000 AB ₉₅
2000 AC ₉₅	14.3	0.15	20000226	148.75633	30.66109	311.72990	6.67273	0.1888262	2.2311148	71	3	1978–2000	0.56	M-v	2	Williams	38661	2000 AC ₉₅
2000 AD ₉₅	13.1	0.15	20000226	2.05584	184.72667	314.75800	7.47595	0.0828455	3.0567207	70	1	114 days	0.41	M-v	3	Williams	38875	2000 AD ₉₅
2000 AE ₉₅	14.9	0.15	20000226	70.73489	293.87274	128.11780	6.36239	0.0931108	2.4157717	32	1	60 days	0.58	M-v	5	Williams		2000 AE ₉₅
2000 AJ ₉₅	14.2	0.15	20000226	238.14115	148.34499	123.73695	4.84989	0.0783209	2.7430663	52	4	1982–2000	0.67	M-v	1	Williams	38661	2000 AJ ₉₅
2000 AK ₉₅	11.1	0.15	20000226	121.60656	15.49838	3.41118	1.23291	0.0295307	5.1664961	72	1	67 days	0.70	M-v	5	Williams		2000 AK ₉₅
2000 AM ₉₅	14.0	0.15	20000226	346.51784	40.04474	129.96386	9.95885	0.2607403	3.1524834	42	1	88 days	0.42	M-v	4	Williams		2000 AM ₉₅
2000 AO ₉₅	14.2	0.15	20000226	146.13804	258.01862	96.50773	1.70381	0.0694624	2.1706992	74	3	1997–2000	0.52	M-v	3	Williams	38661	2000 AO ₉₅
2000 AP ₉₅	14.0	0.15	20000226	251.39535	137.31236	121.39347	3.73132	0.0436847	2.7050960	53	3	1996–2000	0.56	M-v	3	Williams	38661	2000 AP ₉₅
2000 AQ ₉₅	13.6	0.15	20000226	237.51422	140.55548	137.29981	13.65316	0.1016524	2.7061225	56	1	91 days	0.51	M-v	4	Williams		2000 AQ ₉₅
2000 AR ₉₅	14.2	0.15	20000226	19.25766	157.71942	324.96708	6.99463	0.0916323	2.7330794	76	1	94 days	0.42	M-v	4	Williams	38875	2000 AR ₉₅
2000 AS ₉₅	12.7	0.15	20000226	92.38994	276.23602	125.65524	10.56504	0.0969105	3.0530585	74	3	1982–2000	0.60	M-v	2	Williams	38662	2000 AS ₉₅
2000 AT ₉₅	14.0	0.15	20000226	51.63037	344.60072	103.89632	3.36842	0.0604386	2.9317904	49	2	1998–2000	0.60	M-v	3	Williams	38662	2000 AT ₉₅
2000 AU ₉₅	15.5	0.15	20000226	11.56292	184.71631	310.23076	17.27903	0.0757962	1.9710936	40	1	93 days	0.42	M-v	3	Williams		2000 AU ₉₅
2000 AV ₉₅	16.0	0.15	20000226	9.15703	16.62831	119.70567	6.48948	0.1618471	2.3422341	33	1	60 days	0.54	M-v	4	Williams		2000 AV ₉₅
2000 AW ₉₅	13.7	0.15	20000226	47.39455	87.96485	9.80886	1.66972	0.0177877	2.8715211	97	2	1998–2000	0.45	M-v	3	Williams	38662	2000 AW ₉₅
2000 AX ₉₅	13.4	0.15	20000226	101.96328	264.95212	128.55661	10.47129	0.1022359	2.9848946	54	2	1992–2000	0.51	M-v	4	Williams	38662	2000 AX ₉₅
2000 AZ ₉₅	14.7	0.15	20000226	70.27789	67.80067	335.11363	3.52473	0.2878701	2.5560887	44	1	96 days	0.60	M-v	4	Williams	38875	2000 AZ ₉₅
2000 AB ₉₆	13.8	0.15	20000226	151.33007	222.05807	127.50654	15.32153	0.1241359	2.6065950	38	1	68 days	0.56	M-v	4	Williams		2000 AB ₉₆
2000 AD ₉₆	15.1	0.15	20000226	333.11457	53.52328	124.23287	8.24249	0.0220135	2.2865349	41	1	67 days	0.68	M-v	4	Williams		2000 AD ₉₆
2000 AF ₉₆	13.8	0.15	20000226	84.60071	272.02895	135.49603	9.85039	0.1603665	2.7954988	45	1	68 days	0.42	M-v	4	Williams		2000 AF ₉₆
2000 AG ₉₆	14.3	0.15	20000226	205.42553	347.02755	311.30805	14.89068	0.0619950	2.7172576	34	1	61 days	0.46	M-v	5	Williams		2000 AG ₉₆
2000 AK ₉₆	13.6	0.15	20000226	41.00733	313.50790	135.17531	17.96988	0.1977252	3.1010569	53	1	98 days	0.48	M-v	4	Williams		2000 AK ₉₆
2000 AM ₉₆	13.6	0.15	20000226	347.11648	34.26952	131.60356	15.84307	0.0313643	2.6469334	61	1	98 days	0.41	M-v	3	Williams	38875	2000 AM ₉₆
2000 AN ₉₆	14.4	0.15	20000226	353.25586	26.51558	137.04921	13.60796	0.1476832	2.4315415	56	1	98 days	0.58	M-v	3	Williams	38875	2000 AN ₉₆
2000 AO ₉₆	13.0	0.15	20000226	155.30209	15.83140	333.59787	12.20309	0.1800908	2.6895686	74	3	1980–2000	0.53	M-v	3	Williams	38663	2000 AO ₉₆
2000 AP ₉₆	14.2	0.15	20000226	56.65095	322.88679	126.21677	7.82971	0.0778982	2.2847703	60	4	1991–2000	0.56	M-v	2	Williams	38663	2000 AP ₉₆

2000 AQ ₉₆	14.7	0.15	20000226	326.86238	103.64689	96.54775	3.98636	0.1724691	2.3125309	68	1	99 days	0.50	M-v	4	Williams	2000 AQ ₉₆
2000 AR ₉₆	14.7	0.15	20000226	1.43751	175.64488	337.33813	5.36531	0.1503668	2.3487668	63	2	1998-2000	0.54	M-v	3	Williams	38663 2000 AR ₉₆
2000 AS ₉₆	15.0	0.15	20000226	346.44593	78.93227	99.55073	5.68343	0.2402226	2.5622162	49	1	68 days	0.45	M-v	4	Williams	2000 AS ₉₆
2000 AT ₉₆	14.5	0.15	20000226	21.69224	55.50920	72.12606	4.44312	0.1067610	2.1820489	45	1	97 days	0.54	M-v	4	Williams	38875 2000 AT ₉₆
2000 AW ₉₆	14.9	0.15	20000226	340.70055	54.94045	126.31880	4.05991	0.1225033	2.2723136	67	3	1997-2000	0.67	M-v	3	Williams	38663 2000 AW ₉₆
2000 AY ₉₆	13.2	0.15	20000226	359.71332	49.89165	107.46871	10.02968	0.0960248	2.7702156	49	1	117 days	0.41	M-v	3	Williams	38875 2000 AY ₉₆
2000 AZ ₉₆	13.4	0.15	20000226	29.68414	140.84122	335.32546	15.18865	0.1598221	3.0739271	54	1	67 days	0.34	M-v	4	Williams	2000 AZ ₉₆
2000 AA ₉₇	14.7	0.15	20000226	10.78788	15.13368	130.02245	6.73465	0.0744571	2.3849000	52	1	98 days	0.46	M-v	4	Williams	2000 AA ₉₇
2000 AB ₉₇	14.7	0.15	20000226	58.00008	354.48462	92.19394	1.47707	0.1235606	2.2572530	74	3	1997-2000	0.62	M-v	2	Williams	38663 2000 AB ₉₇
2000 AC ₉₇	13.1	0.15	20000226	82.37195	282.60234	130.95651	12.02904	0.1849680	2.6539635	69	2	1991-2000	0.50	M-v	3	Williams	38664 2000 AC ₉₇
2000 AD ₉₇	13.6	0.15	20000226	332.33183	217.38251	344.28885	7.92362	0.2135070	2.3885721	70	1	126 days	0.52	M-v	4	Williams	38875 2000 AD ₉₇
2000 AE ₉₇	13.0	0.15	20000226	321.48096	219.94019	345.67319	12.77092	0.1148663	2.6805827	71	1	67 days	0.48	M-v	5	Williams	2000 AE ₉₇
2000 AG ₉₇	14.2	0.15	20000226	295.12172	114.10575	117.63420	9.26010	0.0726447	2.4066214	33	1	68 days	0.44	M-v	5	Williams	2000 AG ₉₇
2000 AH ₉₇	14.3	0.15	20000226	44.61555	103.18671	326.76487	27.55650	0.3880142	2.6468319	45	1	70 days	0.61	M-v	4	Williams	2000 AH ₉₇
2000 AJ ₉₇	14.3	0.15	20000226	332.11924	94.03209	102.59432	3.27014	0.1403808	2.4495978	54	2	1998-2000	0.45	M-v	3	Williams	38875 2000 AJ ₉₇
2000 AK ₉₇	11.8	0.15	20000226	234.15887	151.25638	141.94379	16.50481	0.0860181	3.1573101	51	1	99 days	0.56	M-v	4	Williams	38875 2000 AK ₉₇
2000 AM ₉₇	13.5	0.15	20000226	20.42770	142.56864	347.17824	6.50289	0.2035763	3.0836754	71	1	101 days	0.57	M-v	4	Williams	38875 2000 AM ₉₇
2000 AN ₉₇	13.5	0.15	20000226	325.93692	88.34559	120.02590	8.58579	0.1672491	2.3586831	57	1	118 days	0.54	M-v	4	Williams	38875 2000 AN ₉₇
2000 AO ₉₇	14.8	0.15	20000226	322.90528	176.66426	30.21265	5.06712	0.1323336	2.2059910	32	1	68 days	0.56	M-v	5	Williams	2000 AO ₉₇
2000 AQ ₉₇	14.8	0.15	20000226	303.16479	249.07871	331.50922	19.05347	0.0541125	1.9210671	33	1	69 days	0.50	M-v	4	Williams	2000 AQ ₉₇
2000 AS ₉₇	13.9	0.15	20000226	136.30855	279.88798	90.89293	7.74103	0.1846235	2.2816806	30	1	68 days	0.58	M-v	4	Williams	2000 AS ₉₇
2000 AT ₉₇	13.7	0.15	20000226	318.23526	89.09182	126.35717	13.62134	0.1282744	2.5906100	36	1	98 days	0.53	M-v	4	Williams	38875 2000 AT ₉₇
2000 AU ₉₇	14.6	0.15	20000226	25.56748	142.43232	339.60404	12.56489	0.2142768	2.8014133	39	1	67 days	0.43	M-v	4	Williams	2000 AU ₉₇
2000 AV ₉₇	13.5	0.15	20000226	82.91118	313.16221	108.84200	4.74559	0.1436596	2.2185652	85	2	1998-2000	0.53	M-v	3	Williams	38875 2000 AV ₉₇
2000 AW ₉₇	13.9	0.15	20000226	24.42412	146.07182	345.49208	11.65333	0.1128772	2.6013959	45	1	67 days	0.44	M-v	5	Williams	2000 AW ₉₇
2000 AX ₉₇	15.2	0.15	20000226	124.58781	61.95289	331.41925	19.94018	0.0314552	1.9322840	37	1	70 days	0.62	M-v	4	Williams	2000 AX ₉₇
2000 AY ₉₇	13.5	0.15	20000226	32.87131	120.58923	2.01792	8.94099	0.0996119	2.7548941	54	3	1993-2000	0.54	M-v	2	Williams	38664 2000 AY ₉₇
2000 AZ ₉₇	13.5	0.15	20000226	73.57708	342.64427	96.08615	5.66495	0.0892466	2.3000513	69	3	1994-2000	0.63	M-v	1	Williams	38875 2000 AZ ₉₇
2000 AB ₉₈	12.0	0.15	20000226	17.65391	21.63700	118.82094	13.74570	0.1149802	2.6620655	49	1	117 days	0.42	M-v	3	Williams	38875 2000 AB ₉₈
2000 AD ₉₈	13.1	0.15	20000226	352.89813	90.70563	82.63611	5.91317	0.1110377	3.1678692	39	1	68 days	0.52	M-v	4	Williams	2000 AD ₉₈
2000 AE ₉₈	14.7	0.15	20000226	45.51873	9.48812	87.30415	5.82936	0.2171774	2.5460315	26	1	68 days	0.55	M-v	5	Williams	2000 AE ₉₈
2000 AF ₉₈	13.7	0.15	20000226	80.91470	83.04919	356.92055	9.12737	0.0244158	2.5585199	55	3	1996-2000	0.53	M-v	3	Williams	38664 2000 AF ₉₈
2000 AG ₉₈	12.9	0.15	20000226	162.92091	257.22864	98.63327	7.18503	0.1739872	2.3443772	41	1	68 days	0.39	M-v	4	Williams	2000 AG ₉₈
2000 AH ₉₈	14.1	0.15	20000226	296.13805	219.09141	22.13439	7.35076	0.1152073	2.4707961	34	1	72 days	0.62	M-v	5	Williams	2000 AH ₉₈
2000 AL ₉₈	13.8	0.15	20000226	49.78672	351.99285	113.60722	9.27611	0.1456487	2.4228755	26	1	68 days	0.56	M-v	5	Williams	2000 AL ₉₈
2000 AN ₉₈	14.4	0.15	20000226	4.49137	33.75999	117.92604	7.60569	0.0533156	2.3618963	39	1	68 days	0.45	M-v	4	Williams	2000 AN ₉₈
2000 AJ ₁₀₀	13.2	0.15	20000226	49.63575	251.05967	111.45239	6.55879	0.1959436	3.0860864	38	1	121 days	0.45	M-v	4	Williams	2000 AJ ₁₀₀
2000 AP ₁₀₁	15.3	0.15	20000226	84.16405	88.15589	233.38318	8.07433	0.2286316	2.3375301	50	1	96 days	0.48	M-v	4	Williams	2000 AP ₁₀₁
2000 AX ₁₀₁	13.7	0.15	20000117	21.55802	326.94450	71.77616	16.01564	0.1405499	2.5889906	14	1	34 days	0.29			Williams	2000 AX ₁₀₁
2000 AM ₁₀₅	13.8	0.15	20000226	60.61302	278.80996	112.65453	15.74203	0.1147867	2.6574992	33	1	90 days	0.39	M-v	4	Williams	2000 AM ₁₀₅
2000 AN ₁₀₇	12.8	0.15	20000226	278.97816	62.63791	131.82678	12.19832	0.0418905	3.0488689	46	1	141 days	0.47	M-v	4	Williams	2000 AN ₁₀₇
2000 AP ₁₀₇	13.1	0.15	20000226	39.72507	302.01633	123.43271	14.16067	0.0733575	2.9225250	33	1	136 days	0.40	M-v	4	Williams	38876 2000 AP ₁₀₇
2000 AX ₁₀₉	16.2	0.15	20000117	235.79852	118.03189	119.68102	6.20216	0.0822367	2.2442281	16	1	32 days	0.38			Williams	2000 AX ₁₀₉
2000 AX ₁₁₁	14.6	0.15	20000226	345.35507	267.82032	234.00635	5.55312	0.0833011	2.3210029	48	2	1998-2000	0.73	M-v	4	Williams	38876 2000 AX ₁₁₁
2000 AA ₁₁₂	13.6	0.15	20000226	42.36855	312.28501	123.14755	12.59064	0.0400300	2.6338629	37	1	89 days	0.51	M-v	4	Williams	2000 AA ₁₁₂
2000 AJ ₁₁₂	15.3	0.15	20000226	18.76272	323.78217	137.60567	3.96922	0.1480351	2.4235406	27	1	81 days	0.53	M-v	4	Williams	2000 AJ ₁₁₂
2000 AU ₁₁₂	14.9	0.15	20000226	4.56175	213.61247	266.37754	12.37545	0.2057317	2.6231367	27	1	115 days	0.36	M-v	3	Williams	2000 AU ₁₁₂
2000 AB ₁₁₃	12.1	0.15	20000226	153.37816	179.28425	141.10971	11.99345	0.1040375	2.9922498	66	3	1985-2000	0.72	M-v	3	Williams	38667 2000 AB ₁₁₃
2000 AC ₁₁₃	15.3	0.15	20000226	9.15694	286.38291	191.16034	4.46250	0.1341328	2.1891028	26	1	90 days	0.51	M-v	4	Williams	2000 AC ₁₁₃
2000 AR ₁₁₃	13.6	0.15	20000226	344.98391	18.94782	126.03080	15.01263	0.1187533	2.5379173	29	1	81 days	0.31	M-v	4	Williams	2000 AR ₁₁₃
2000 AM ₁₁₄	15.1	0.15	20000226	18.32360	226.51161	238.90875	4.52551	0.1268840	2.3289951	37	1	90 days	0.43	M-v	4	Williams	38876 2000 AM ₁₁₄
2000 AH ₁₁₆	14.5	0.15	20000226	341.70242	30.16159	129.92466	13.37104	0.2561380	3.0811549	29	1	81 days	0.46	M-v	4	Williams	2000 AH ₁₁₆
2000 AP ₁₁₆	14.8	0.15	20000226	22.26731	327.50079	132.40094	13.47477	0.1191383	2.6546570	29	1	81 days	0.48	M-v	4	Williams	2000 AP ₁₁₆

2000 MAR. 20

M.P.C. 39575

2000 AX ₁₁₆	14.4	0.15	20000226	57.19134	244.20435	175.41000	5.46989	0.1343283	2.2536944	50	2	1998–2000	0.59	M-v	4	Williams	38668	2000 AX ₁₁₆
2000 AZ ₁₁₆	14.9	0.15	20000226	15.92163	334.27389	135.15475	13.75923	0.1782503	2.4257772	40	1	81 days	0.47	M-v	4	Williams		2000 AZ ₁₁₆
2000 AA ₁₁₇	13.4	0.15	20000226	32.93200	292.46664	142.63626	11.07532	0.2737351	2.7588949	73	2	1998–2000	0.59	M-v	3	Williams	38877	2000 AA ₁₁₇
2000 AF ₁₁₇	14.2	0.15	20000226	113.11944	176.77115	178.81058	5.84431	0.1946303	2.3309339	36	3	1995–2000	0.57	M-v	3	Williams	38668	2000 AF ₁₁₇
2000 AJ ₁₁₇	15.1	0.15	20000226	326.09496	15.60515	154.75445	5.94605	0.0920662	2.4712035	48	2	1998–2000	0.70	M-v	4	Williams	38669	2000 AJ ₁₁₇
2000 AY ₁₁₇	12.7	0.15	20000226	249.65714	114.83300	137.48514	14.60290	0.1535779	2.5876461	42	1	137 days	0.45	M-v	4	Williams	38877	2000 AY ₁₁₇
2000 AR ₁₁₈	13.0	0.15	20000226	229.63198	133.31233	133.20146	17.29736	0.1246978	3.1289281	26	1	60 days	0.52	M-v	5	Williams		2000 AR ₁₁₈
2000 AT ₁₁₈	14.5	0.15	20000226	353.23260	342.75913	159.56793	5.08388	0.1306135	2.4578410	31	3	1994–2000	0.62	M-v	4	Williams	38670	2000 AT ₁₁₈
2000 AZ ₁₁₈	14.4	0.15	20000117	31.72395	320.62379	126.10915	22.35355	0.0238749	2.6185176	34	1	59 days	0.66			Williams		2000 AZ ₁₁₈
2000 AG ₁₁₉	14.8	0.15	20000226	3.87124	339.43237	148.24336	8.73548	0.1637765	2.7581758	23	1	64 days	0.39	M-v	4	Williams		2000 AG ₁₁₉
2000 AN ₁₁₉	14.8	0.15	20000226	61.68222	245.03681	173.17218	5.88983	0.1180954	2.4056752	30	3	1993–2000	0.61	M-v	3	Williams	38671	2000 AN ₁₁₉
2000 AR ₁₁₉	15.4	0.15	20000226	11.38882	221.06365	258.27240	7.76150	0.2285409	2.4362060	32	1	84 days	0.36	M-v	3	Williams	38877	2000 AR ₁₁₉
2000 AS ₁₁₉	15.8	0.15	20000117	357.75253	281.12141	202.85217	4.67638	0.1621668	2.3248373	27	1	54 days	0.34			Williams		2000 AS ₁₁₉
2000 AU ₁₁₉	15.5	0.15	20000226	327.94873	351.63891	178.11564	6.38110	0.0611136	2.3290904	29	2	1998–2000	0.63	M-v	4	Williams	38671	2000 AU ₁₁₉
2000 AX ₁₁₉	14.5	0.15	20000226	265.82622	103.09134	141.70611	12.35893	0.1795405	2.3601187	37	1	64 days	0.54	M-v	5	Williams		2000 AX ₁₁₉
2000 AM ₁₂₀	15.5	0.15	20000226	9.43067	345.53057	138.21780	8.64013	0.1322750	2.4055507	28	1	64 days	0.42	M-v	4	Williams		2000 AM ₁₂₀
2000 AQ ₁₂₀	15.9	0.15	20000117	61.52010	157.20957	250.18075	5.91950	0.1218707	2.3277633	24	1	54 days	0.61			Williams		2000 AQ ₁₂₀
2000 AR ₁₂₀	12.8	0.15	20000226	66.67619	158.88349	263.06914	8.68289	0.0316598	2.9249379	40	1	90 days	0.62	M-v	4	Williams		2000 AR ₁₂₀
2000 AS ₁₂₀	15.0	0.15	20000226	24.24166	262.19891	201.48659	4.18168	0.1395924	2.4373451	32	1	90 days	0.56	M-v	4	Williams		2000 AS ₁₂₀
2000 AV ₁₂₀	13.4	0.15	20000226	263.63303	350.21464	244.76747	6.12455	0.0612347	3.1478361	42	3	1989–2000	0.61	M-v	3	Williams	38672	2000 AV ₁₂₀
2000 AW ₁₂₀	14.1	0.15	20000117	92.80299	225.53158	156.26008	11.16368	0.0761531	3.1069457	20	1	53 days	0.45			Williams		2000 AW ₁₂₀
2000 AZ ₁₂₀	13.6	0.15	20000226	259.44299	104.65152	143.39212	15.90128	0.1473806	2.6615902	36	1	61 days	0.52	M-v	4	Williams		2000 AZ ₁₂₀
2000 AC ₁₂₁	15.3	0.15	20000226	65.15608	171.24192	246.62094	5.31525	0.1200196	2.2592650	27	1	75 days	0.44	M-v	4	Williams		2000 AC ₁₂₁
2000 AF ₁₂₁	15.7	0.15	20000226	56.17677	171.06418	258.10138	5.10151	0.1124119	2.1987869	32	1	82 days	0.58	M-v	4	Williams		2000 AF ₁₂₁
2000 AH ₁₂₁	12.8	0.15	20000226	196.07725	161.36678	137.20973	15.31692	0.1077388	3.0908432	71	1	72 days	0.49	M-v	5	Williams		2000 AH ₁₂₁
2000 AJ ₁₂₁	15.6	0.15	20000117	306.64665	269.20821	274.25862	6.04152	0.0594039	2.3843581	36	1	58 days	0.42			Williams		2000 AJ ₁₂₁
2000 AK ₁₂₁	13.5	0.15	20000226	152.24904	193.68417	137.16984	9.91594	0.1968426	2.5502952	36	4	1980–2000	0.53	M-v	2	Williams	38673	2000 AK ₁₂₁
2000 AL ₁₂₁	14.5	0.15	20000226	89.76917	162.83292	226.67701	2.17324	0.1394005	2.2706681	35	4	1978–2000	0.50	M-v	1	Williams	38673	2000 AL ₁₂₁
2000 AK ₁₂₂	15.2	0.15	20000226	15.17438	312.08735	156.56904	6.24929	0.1243813	2.3123439	34	1	82 days	0.44	M-v	4	Williams		2000 AK ₁₂₂
2000 AO ₁₂₃	14.8	0.15	20000226	99.29595	275.60971	115.75747	4.23321	0.1223169	2.3546881	48	1	65 days	0.51	M-v	4	Williams		2000 AO ₁₂₃
2000 AP ₁₂₃	14.2	0.15	20000226	347.50161	327.47260	180.63932	5.40607	0.0434929	2.7211083	66	4	1993–2000	0.61	M-v	3	Williams	38674	2000 AP ₁₂₃
2000 AR ₁₂₃	15.6	0.15	20000226	60.11833	220.22899	198.35459	4.05849	0.1703584	2.2648253	39	1	89 days	0.52	M-v	4	Williams		2000 AR ₁₂₃
2000 AS ₁₂₃	16.3	0.15	20000117	61.40516	161.33298	243.77731	5.45364	0.1571838	2.2175668	22	1	53 days	0.43			Williams		2000 AS ₁₂₃
2000 AT ₁₂₃	14.8	0.15	20000226	340.71324	353.24886	164.06287	7.18470	0.0377869	2.2939711	61	2	1998–2000	0.59	M-v	4	Williams	38674	2000 AT ₁₂₃
2000 AV ₁₂₃	13.6	0.15	20000226	245.19127	92.16366	160.84453	10.55069	0.0514736	2.9716397	40	3	1990–2000	0.44	M-v	3	Williams	38674	2000 AV ₁₂₃
2000 AW ₁₂₃	13.7	0.15	20000226	283.77449	77.13027	148.82622	13.47524	0.1342854	2.5450377	47	2	1988–2000	0.43	M-v	4	Williams	38674	2000 AW ₁₂₃
2000 AX ₁₂₃	15.3	0.15	20000226	318.96958	7.48206	189.41340	5.66553	0.1905884	2.3229975	30	1	60 days	0.42	M-v	4	Williams		2000 AX ₁₂₃
2000 AZ ₁₂₃	14.4	0.15	20000226	21.22800	193.10033	276.49497	8.07051	0.1069342	2.7386327	38	1	89 days	0.53	M-v	4	Williams	38878	2000 AZ ₁₂₃
2000 AB ₁₂₄	16.4	0.15	20000117	39.35687	265.31945	169.17253	3.66776	0.1242009	2.2379799	25	1	58 days	0.65			Williams		2000 AB ₁₂₄
2000 AE ₁₂₄	13.6	0.15	20000226	79.49039	259.66756	140.41455	9.88711	0.1303756	2.6592946	91	3	1997–2000	0.55	M-v	2	Williams	38674	2000 AE ₁₂₄
2000 AF ₁₂₄	13.6	0.15	20000226	98.42387	96.35411	286.49912	9.54425	0.1195832	2.9766635	33	1	60 days	0.55	M-v	5	Williams		2000 AF ₁₂₄
2000 AJ ₁₂₄	12.8	0.15	20000226	231.58020	121.98730	143.21879	6.67825	0.0306731	3.1963086	61	1	70 days	0.50	M-v	4	Williams		2000 AJ ₁₂₄
2000 AK ₁₂₄	13.2	0.15	19991228	159.76205	190.81083	131.48236	23.16716	0.0432371	3.1416208	41	1	58 days	0.87			Marsden		2000 AK ₁₂₄
2000 AL ₁₂₄	13.4	0.15	20000117	96.55243	238.66897	130.72106	27.21799	0.1969118	3.1643280	50	1	59 days	0.51			Williams		2000 AL ₁₂₄
2000 AM ₁₂₄	15.6	0.15	20000226	26.00014	195.64980	273.04905	5.14768	0.0692764	2.2666924	22	1	60 days	0.50	M-v	5	Williams		2000 AM ₁₂₄
2000 AO ₁₂₄	14.8	0.15	20000226	34.05981	298.69880	151.09745	4.12311	0.1852502	2.6203796	38	2	1977–2000	0.52	M-v	4	Williams	38675	2000 AO ₁₂₄
2000 AP ₁₂₄	15.1	0.15	20000226	76.37518	141.30562	257.76402	2.63228	0.1889144	2.3186209	36	5	1981–2000	0.54	M-v	2	Williams	38675	2000 AP ₁₂₄
2000 AQ ₁₂₄	15.3	0.15	20000226	99.52713	204.55411	172.43782	3.26393	0.1854983	2.3134536	32	3	1995–2000	0.55	M-v	4	Williams	38675	2000 AQ ₁₂₄
2000 AS ₁₂₄	15.1	0.15	20000226	314.70246	281.24639	283.93014	8.42286	0.2133719	2.3505287	48	1	89 days	0.48	M-v	4	Williams	38878	2000 AS ₁₂₄
2000 AV ₁₂₄	13.4	0.15	20000117	105.53725	224.56305	142.30602	18.28562	0.1449967	3.1795668	33	1	53 days	0.44			Williams		2000 AV ₁₂₄
2000 AW ₁₂₄	13.2	0.15	20000226	280.22367	84.83746	143.90804	14.46114	0.1148683	2.5974313	76	1	146 days	0.41	M-v	4	Williams	38878	2000 AW ₁₂₄
2000 AX ₁₂₄	13.6	0.15	20000226	25.92704	202.51269	263.73323	7.49147	0.0958385	2.7933593	50	1	119 days	0.57	M-v	4	Williams		2000 AX ₁₂₄
2000 AY ₁₂₄	13.3	0.15	20000226	163.62911	172.63659	156.19858	10.14701	0.0946356	2.9771316	50	3	1992–2000	0.63	M-v	3	Williams	38675	2000 AY ₁₂₄

2000 AZ ₁₂₄	14.1	0.15	20000226	21.68407	315.97426	156.42311	9.79087	0.0550327	2.5905800	69	2	1998-2000	0.56	M-v	3	Williams	38676	2000 AZ ₁₂₄
2000 AB ₁₂₅	14.0	0.15	20000226	67.58632	207.27664	216.42214	5.35027	0.0511301	2.8582702	30	2	1998-2000	0.63	M-v	4	Williams	38676	2000 AB ₁₂₅
2000 AE ₁₂₅	14.5	0.15	20000226	136.46289	104.26840	246.07457	5.80624	0.1452570	2.3159811	72	3	1995-2000	0.56	M-v	3	Williams	38676	2000 AE ₁₂₅
2000 AF ₁₂₅	13.9	0.15	20000226	136.17909	66.94492	279.92118	11.53228	0.2015329	2.6108350	24	1	61 days	0.54	M-v	5	Williams		2000 AF ₁₂₅
2000 AJ ₁₂₅	12.7	0.15	20000226	68.86431	264.67637	154.87734	9.03144	0.0621008	3.1521694	55	1	137 days	0.42	M-v	4	Williams	38878	2000 AJ ₁₂₅
2000 AL ₁₂₅	14.8	0.15	20000226	38.95190	149.62564	296.69721	12.26573	0.1415089	2.7749387	36	2	1998-2000	0.74	M-v	3	Williams	38676	2000 AL ₁₂₅
2000 AN ₁₂₅	15.1	0.15	20000117	260.50728	102.99750	134.15070	10.04511	0.0931182	2.7485788	29	1	59 days	0.45			Williams		2000 AN ₁₂₅
2000 AO ₁₂₅	13.5	0.15	20000226	243.32023	322.33665	294.94882	9.16078	0.0516619	3.0564135	30	1	60 days	0.59	M-v	5	Williams		2000 AO ₁₂₅
2000 AP ₁₂₅	15.0	0.15	20000226	153.66049	190.03558	148.39738	3.85574	0.0847592	2.3734755	36	2	1998-2000	0.64	M-v	4	Williams	38677	2000 AP ₁₂₅
2000 AQ ₁₂₅	14.6	0.15	20000226	235.95749	136.27478	135.71057	7.17158	0.1393048	2.2825873	32	2	1998-2000	0.47	M-v	4	Williams	38677	2000 AQ ₁₂₅
2000 AR ₁₂₅	14.2	0.15	20000226	324.17583	259.72415	286.17560	4.07627	0.1659966	3.1287864	30	1	60 days	0.49	M-v	5	Williams		2000 AR ₁₂₅
2000 AS ₁₂₅	14.8	0.15	20000226	104.36286	92.40536	283.69654	3.78208	0.1542841	2.3254877	36	2	1991-2000	0.59	M-v	4	Williams	38677	2000 AS ₁₂₅
2000 AU ₁₂₅	14.4	0.15	20000226	74.67293	271.97089	145.15606	4.52724	0.0515209	2.3554484	47	2	1998-2000	0.55	M-v	3	Williams	38677	2000 AU ₁₂₅
2000 AW ₁₂₅	13.2	0.15	20000226	147.24021	207.16445	139.37392	8.55426	0.0389815	2.7148793	84	2	1998-2000	0.49	M-v	3	Williams	38677	2000 AW ₁₂₅
2000 AY ₁₂₅	14.4	0.15	20000226	90.90176	99.07230	292.77510	5.74751	0.1302537	2.3885431	56	1	90 days	0.57	M-v	4	Williams	38878	2000 AY ₁₂₅
2000 AZ ₁₂₅	15.4	0.15	20000226	99.59839	223.52152	156.09945	2.41309	0.1713306	2.2034258	53	1	67 days	0.49	M-v	5	Williams		2000 AZ ₁₂₅
2000 AA ₁₂₆	14.4	0.15	20000226	56.16616	225.60506	210.16919	2.78074	0.0610165	2.6601935	70	3	1981-2000	0.58	M-v	3	Williams	38678	2000 AA ₁₂₆
2000 AD ₁₂₆	15.0	0.15	20000226	77.55325	258.77464	149.13910	6.82974	0.1141175	2.3039824	31	1	60 days	0.54	M-v	5	Williams		2000 AD ₁₂₆
2000 AF ₁₂₆	14.6	0.15	20000226	323.75451	338.27436	214.25401	3.83722	0.1983840	2.5756274	48	1	85 days	0.49	M-v	4	Williams		2000 AF ₁₂₆
2000 AG ₁₂₆	14.3	0.15	20000226	344.68632	2.53434	155.27417	9.75458	0.1275874	3.1166896	38	1	60 days	0.41	M-v	4	Williams		2000 AG ₁₂₆
2000 AL ₁₂₆	14.5	0.15	20000226	107.50057	122.45169	256.03213	5.48373	0.1213150	2.3247800	41	4	1994-2000	0.53	M-v	1	Williams	38678	2000 AL ₁₂₆
2000 AM ₁₂₆	14.9	0.15	20000226	314.84898	324.89844	228.84804	3.66032	0.0907562	2.3385327	55	1	60 days	0.40	M-v	4	Williams		2000 AM ₁₂₆
2000 AN ₁₂₆	16.6	0.15	20000117	2.06563	345.70468	138.86790	10.70670	0.1899508	2.7363834	44	1	59 days	0.53			Williams		2000 AN ₁₂₆
2000 AP ₁₂₆	12.3	0.15	20000226	198.84484	1.91839	297.49042	11.61323	0.0323118	3.1361589	63	4	1931-2000	0.59	M-v	2	Williams	38678	2000 AP ₁₂₆
2000 AQ ₁₂₆	14.5	0.15	20000226	108.82844	95.55626	276.48646	3.61741	0.1669095	2.3438522	49	2	1998-2000	0.50	M-v	3	Williams	38678	2000 AQ ₁₂₆
2000 AS ₁₂₆	13.9	0.15	20000226	269.05254	312.03966	279.23968	2.43809	0.0173798	2.7696322	76	2	1998-2000	0.55	M-v	4	Williams	38678	2000 AS ₁₂₆
2000 AT ₁₂₆	13.4	0.15	20000226	55.07108	144.35112	291.97193	8.98965	0.0699017	2.9677045	53	1	116 days	0.55	M-v	4	Williams	38878	2000 AT ₁₂₆
2000 AV ₁₂₆	14.2	0.15	20000226	249.51459	124.29197	141.92573	6.04478	0.1761671	2.3323282	83	2	1997-2000	0.58	M-v	4	Williams	38679	2000 AV ₁₂₆
2000 AW ₁₂₆	12.7	0.15	20000226	189.05651	11.00193	300.41360	12.92761	0.1940734	2.6840373	32	1	60 days	0.38	M-v	5	Williams		2000 AW ₁₂₆
2000 AZ ₁₂₆	12.5	0.15	20000226	153.66652	39.98593	297.15183	8.10918	0.1665252	2.8034101	47	2	1993-2000	0.43	M-v	4	Williams	38679	2000 AZ ₁₂₆
2000 AB ₁₂₇	13.1	0.15	20000226	348.14562	206.65049	305.90664	9.66085	0.0503223	2.9886547	59	3	1990-2000	0.67	M-v	3	Williams	38679	2000 AB ₁₂₇
2000 AC ₁₂₇	14.2	0.15	20000226	329.51904	39.77288	137.78721	12.75122	0.0976017	2.6432068	61	1	81 days	0.40	M-v	4	Williams		2000 AC ₁₂₇
2000 AD ₁₂₇	12.5	0.15	20000226	147.74263	51.94619	293.35804	12.40521	0.1043678	3.0630445	49	4	1986-2000	0.58	M-v	1	Williams	38679	2000 AD ₁₂₇
2000 AE ₁₂₇	14.3	0.15	20000226	254.00279	121.62627	146.00765	10.46091	0.2291020	2.3330508	43	1	64 days	0.55	M-v	5	Williams		2000 AE ₁₂₇
2000 AJ ₁₂₇	15.8	0.15	20000226	355.09827	235.11318	274.42890	7.44889	0.1018662	2.2467793	30	1	91 days	0.56	M-v	4	Williams	38878	2000 AJ ₁₂₇
2000 AK ₁₂₇	14.6	0.15	20000226	279.81893	329.21566	270.03447	6.53755	0.1575892	2.5891603	41	1	61 days	0.60	M-v	5	Williams		2000 AK ₁₂₇
2000 AL ₁₂₇	15.3	0.15	20000226	317.84894	339.91094	215.88749	3.01290	0.1294653	2.4821899	33	1	60 days	0.50	M-v	4	Williams		2000 AL ₁₂₇
2000 AM ₁₂₇	13.7	0.15	20000226	274.30376	106.81772	140.14973	11.52481	0.1848532	2.4111403	58	4	1990-2000	0.44	M-v	2	Williams	38680	2000 AM ₁₂₇
2000 AO ₁₂₇	14.1	0.15	20000226	315.58721	57.81850	145.03197	10.08936	0.1755285	2.6644415	61	1	92 days	0.45	M-v	4	Williams	38878	2000 AO ₁₂₇
2000 AP ₁₂₇	15.5	0.15	20000226	37.22514	165.12812	289.41955	3.38710	0.1290070	2.3118745	31	1	89 days	0.56	M-v	4	Williams		2000 AP ₁₂₇
2000 AQ ₁₂₇	13.0	0.15	20000226	250.72275	337.86526	290.98457	3.55703	0.2167990	2.6656795	55	4	1949-2000	0.73	M-v	2	Williams	38680	2000 AQ ₁₂₇
2000 AR ₁₂₇	14.2	0.15	20000226	225.98144	87.35349	197.67465	1.96674	0.1541303	2.3700137	70	4	1976-2000	0.59	M-v	1	Williams	38680	2000 AR ₁₂₇
2000 AS ₁₂₇	14.8	0.15	20000226	5.78096	353.64961	141.82232	6.57258	0.0686969	2.4814852	47	2	1998-2000	0.52	M-v	3	Williams	38680	2000 AS ₁₂₇
2000 AT ₁₂₇	13.4	0.15	20000226	26.26010	284.66183	185.04626	1.03685	0.0862367	3.2424170	73	3	1977-2000	0.66	M-v	3	Williams	38681	2000 AT ₁₂₇
2000 AW ₁₂₇	15.4	0.15	20000226	337.58597	250.18650	304.29650	14.47287	0.3662721	2.7059948	33	1	61 days	0.39	M-v	4	Williams		2000 AW ₁₂₇
2000 AX ₁₂₇	15.3	0.15	20000226	2.75566	357.12087	143.08416	6.51336	0.1212510	2.3501634	58	1	89 days	0.67	M-v	4	Williams	38878	2000 AX ₁₂₇
2000 AY ₁₂₇	13.9	0.15	20000226	44.86069	293.75431	137.54232	10.06520	0.2625166	2.7236439	74	3	1982-2000	0.47	M-v	2	Williams	38681	2000 AY ₁₂₇
2000 AZ ₁₂₇	13.1	0.15	20000226	186.85674	9.31582	306.73380	19.65635	0.1372870	3.1532500	54	1	61 days	0.47	M-v	5	Williams		2000 AZ ₁₂₇
2000 AA ₁₂₈	12.9	0.15	20000226	242.40346	121.85207	143.42817	17.47512	0.0705665	2.8413356	73	4	1969-2000	0.38	M-v	1	Williams	38681	2000 AA ₁₂₈
2000 AB ₁₂₈	14.7	0.15	20000226	67.70827	180.94723	217.71228	3.10162	0.3032653	2.5965231	31	1	89 days	0.45	M-v	4	Williams		2000 AB ₁₂₈
2000 AE ₁₂₈	13.8	0.15	20000226	69.23133	256.21298	159.26210	5.35098	0.1574092	2.7160079	60	3	1994-2000	0.59	M-v	2	Williams	38681	2000 AE ₁₂₈
2000 AF ₁₂₈	13.3	0.15	20000226	268.64454	308.39339	299.18702	1.40364	0.1266676	3.0374964	58	1	69 days	0.44	M-v	4	Williams		2000 AF ₁₂₈
2000 AH ₁₂₈	12.9	0.15	20000226	186.45000	169.20867	148.16104	15.22204	0.1215778	2.6001610	57	1	69 days	0.47	M-v	5	Williams		2000 AH ₁₂₈

2000 MAR. 20

M.P.C. 39577

2000 AJ ₁₂₈	14.4	0.15	20000226	64.28096	132.20646	290.55669	9.79250	0.1563497	2.5939023	55	2	1998–2000	0.51	M-v	3	Williams	38682	2000 AJ ₁₂₈
2000 AK ₁₂₈	13.8	0.15	20000226	269.61963	89.47896	163.08308	7.23894	0.1648765	2.6348060	41	1	64 days	0.62	M-v	5	Williams		2000 AK ₁₂₈
2000 AM ₁₂₈	13.0	0.15	20000226	120.00272	79.24854	301.47560	14.84481	0.0413148	3.1191413	35	1	92 days	0.62	M-v	4	Williams	38879	2000 AM ₁₂₈
2000 AO ₁₂₈	14.1	0.15	20000226	132.21474	169.59277	196.26830	4.08123	0.0840971	2.7835408	48	3	1993–2000	0.76	M-v	4	Williams	38682	2000 AO ₁₂₈
2000 AP ₁₂₈	13.1	0.15	20000226	232.30463	332.77476	305.59368	16.16059	0.0622748	3.2290011	26	1	61 days	0.53	M-v	5	Williams		2000 AP ₁₂₈
2000 AQ ₁₂₈	14.2	0.15	20000226	11.38929	202.98150	287.85445	4.31326	0.1237345	3.1935947	31	1	60 days	0.53	M-v	5	Williams		2000 AQ ₁₂₈
2000 AR ₁₂₈	12.6	0.15	20000226	262.09010	318.38333	311.78475	17.59332	0.2503034	3.0111665	41	4	1984–2000	0.65	M-v	2	Williams	38682	2000 AR ₁₂₈
2000 AS ₁₂₈	14.0	0.15	20000226	90.29503	110.80993	285.82558	2.19893	0.1705044	2.2327260	72	4	1955–2000	0.58	M-v	1	Williams	38682	2000 AS ₁₂₈
2000 AT ₁₂₈	13.8	0.15	20000226	317.24999	256.87855	305.05089	9.31458	0.1314596	2.7198933	25	1	66 days	0.48	M-v	4	Williams		2000 AT ₁₂₈
2000 AU ₁₂₈	13.0	0.15	20000226	273.82268	105.82768	142.30786	22.31826	0.1358129	3.1440597	45	1	60 days	0.51	M-v	5	Williams		2000 AU ₁₂₈
2000 AV ₁₂₈	16.1	0.15	20000117	49.46921	131.07573	293.03882	4.28210	0.2097179	2.3534271	22	1	53 days	0.52			Williams		2000 AV ₁₂₈
2000 AW ₁₂₈	12.8	0.15	20000226	224.33566	330.77970	316.83559	11.06337	0.0119364	2.9443477	55	1	108 days	0.47	M-v	4	Williams	38879	2000 AW ₁₂₈
2000 AY ₁₂₈	15.0	0.15	20000226	357.54560	316.50437	183.01163	6.17951	0.0736425	2.3789573	46	4	1971–2000	0.62	M-v	2	Williams	38682	2000 AY ₁₂₈
2000 AA ₁₂₉	14.3	0.15	20000226	335.17472	239.87670	281.68489	8.04534	0.0265100	2.9829498	35	3	1997–2000	0.57	M-v	3	Williams	38683	2000 AA ₁₂₉
2000 AB ₁₂₉	15.6	0.15	20000226	325.21921	277.36784	261.78540	5.20378	0.0822177	2.2308058	32	2	1994–2000	0.52	M-v	4	Williams	38683	2000 AB ₁₂₉
2000 AD ₁₂₉	14.8	0.15	20000226	294.21952	16.04203	207.59630	1.70745	0.1734919	2.3952142	32	2	1999–2000	0.57	M-v	5	Williams	38683	2000 AD ₁₂₉
2000 AE ₁₂₉	14.8	0.15	20000226	85.26506	238.06861	151.11818	2.65229	0.1975639	2.3522510	51	1	65 days	0.54	M-v	5	Williams		2000 AE ₁₂₉
2000 AF ₁₂₉	15.8	0.15	20000117	92.41932	238.84387	135.57234	5.43944	0.1756251	2.2236339	33	1	59 days	0.40			Williams		2000 AF ₁₂₉
2000 AH ₁₂₉	14.9	0.15	20000226	103.85384	114.64857	268.43841	7.36434	0.0983776	2.3886314	39	2	1998–2000	0.62	M-v	3	Williams	38683	2000 AH ₁₂₉
2000 AJ ₁₂₉	14.8	0.15	20000226	87.40686	258.99587	141.55801	14.91513	0.0808734	2.6238447	24	1	67 days	0.49	M-v	5	Williams		2000 AJ ₁₂₉
2000 AN ₁₂₉	15.3	0.15	20000117	62.31303	256.61317	136.07126	18.41639	0.2930686	2.5786345	43	1	59 days	0.52			Williams		2000 AN ₁₂₉
2000 AP ₁₂₉	13.5	0.15	20000226	266.68584	98.93733	138.19354	10.79818	0.0571369	3.0667192	39	1	67 days	0.47	M-v	4	Williams		2000 AP ₁₂₉
2000 AQ ₁₂₉	14.2	0.15	20000226	175.78788	21.51832	297.69192	3.17384	0.2199412	2.5626527	49	2	1998–2000	0.71	M-v	4	Williams	38683	2000 AQ ₁₂₉
2000 AS ₁₂₉	15.4	0.15	20000226	31.97491	306.50276	140.39221	7.41689	0.2747614	2.7304397	52	1	95 days	0.45	M-v	4	Williams	38879	2000 AS ₁₂₉
2000 AU ₁₂₉	14.7	0.15	20000226	10.08456	354.19556	134.52298	14.50080	0.1112815	2.5278229	34	1	90 days	0.57	M-v	4	Williams	38879	2000 AU ₁₂₉
2000 AV ₁₂₉	15.2	0.15	20000226	253.29870	8.07816	255.27699	4.87778	0.1611285	2.2179472	48	3	1991–2000	0.51	M-v	2	Williams	38684	2000 AV ₁₂₉
2000 AW ₁₂₉	14.9	0.15	20000226	109.59662	215.86010	158.62427	5.04009	0.1640184	2.2436812	50	2	1998–2000	0.61	M-v	4	Williams	38684	2000 AW ₁₂₉
2000 AX ₁₂₉	15.3	0.15	20000117	48.49134	298.71338	134.83109	11.95398	0.1004466	2.6418088	35	1	59 days	0.78			Williams		2000 AX ₁₂₉
2000 AY ₁₂₉	14.5	0.15	20000226	138.51198	199.50422	162.36933	3.28280	0.0245517	2.6956941	43	2	1998–2000	0.75	M-v	4	Williams	38684	2000 AY ₁₂₉
2000 AC ₁₃₀	14.2	0.15	20000226	264.35908	327.95100	294.90888	7.72937	0.2299781	2.4205404	55	3	1997–2000	0.75	M-v	3	Williams	38684	2000 AC ₁₃₀
2000 AD ₁₃₀	15.0	0.15	20000226	305.00807	273.17648	305.72055	7.35672	0.1923444	2.3742154	43	3	1978–2000	0.42	M-v	3	Williams	38684	2000 AD ₁₃₀
2000 AH ₁₃₀	14.0	0.15	20000226	147.75698	76.89553	276.41112	5.61925	0.0390802	2.7323054	41	1	90 days	0.55	M-v	4	Williams	38879	2000 AH ₁₃₀
2000 AM ₁₃₀	15.5	0.15	20000226	36.69287	325.71524	135.32120	7.45914	0.1306823	2.3014653	44	1	60 days	0.39	M-v	5	Williams		2000 AM ₁₃₀
2000 AO ₁₃₀	15.0	0.15	20000226	36.12529	170.38975	276.57311	6.91888	0.2066906	2.7170127	33	1	61 days	0.64	M-v	4	Williams		2000 AO ₁₃₀
2000 AQ ₁₃₀	15.3	0.15	20000117	321.68740	233.12214	302.80078	13.29916	0.0742119	2.6161237	29	1	53 days	0.49			Williams		2000 AQ ₁₃₀
2000 AD ₁₃₁	15.2	0.15	20000226	32.16490	155.16960	297.74032	1.38679	0.1805300	2.6372529	45	1	88 days	0.62	M-v	4	Williams		2000 AD ₁₃₁
2000 AF ₁₃₁	15.2	0.15	20000226	336.26288	46.67686	121.79231	7.68438	0.1224666	2.5794996	33	1	60 days	0.54	M-v	5	Williams		2000 AF ₁₃₁
2000 AG ₁₃₁	14.6	0.15	20000226	10.58326	188.04908	308.02886	12.49634	0.1182618	2.5481177	29	1	60 days	0.46	M-v	4	Williams		2000 AG ₁₃₁
2000 AG ₁₃₃	12.2	0.15	20000226	31.98840	110.56244	353.40711	9.63029	0.0524543	3.0071148	45	7	1974–2000	0.66	M-v	1	Williams	38685	2000 AG ₁₃₃
2000 AJ ₁₃₃	14.3	0.15	20000226	7.21988	80.08450	74.30800	17.17507	0.2268484	2.6194068	29	2	1994–2000	0.48	M-v	3	Williams	38685	2000 AJ ₁₃₃
2000 AW ₁₃₄	13.9	0.15	20000226	77.65972	313.54795	75.53888	9.22507	0.0886542	2.7187886	35	1	87 days	0.32	M-v	4	Williams	38879	2000 AW ₁₃₄
2000 AM ₁₃₆	13.7	0.15	20000226	335.22109	58.10676	113.20712	12.67442	0.0971689	2.9872001	58	2	1997–2000	0.51	M-v	3	Williams	38879	2000 AM ₁₃₆
2000 AN ₁₃₆	14.5	0.15	20000226	308.05976	161.39764	42.47340	3.76822	0.1080507	2.6646187	28	1	60 days	0.46	M-v	4	Williams		2000 AN ₁₃₆
2000 AR ₁₃₆	14.7	0.15	20000226	337.34911	96.17109	84.14033	7.50023	0.0799087	2.3888430	30	1	68 days	0.43	M-v	4	Williams		2000 AR ₁₃₆
2000 AS ₁₃₆	15.0	0.15	20000226	16.60025	359.77825	136.77510	5.57829	0.1111745	2.3262407	46	1	68 days	0.61	M-v	5	Williams		2000 AS ₁₃₆
2000 AT ₁₃₆	14.5	0.15	20000226	309.64795	79.52547	140.93384	7.00414	0.0906437	2.3264283	42	1	98 days	0.53	M-v	4	Williams	38880	2000 AT ₁₃₆
2000 AU ₁₃₆	13.7	0.15	20000226	331.21081	49.64725	147.99833	13.36753	0.1094936	2.6622083	40	1	68 days	0.37	M-v	4	Williams		2000 AU ₁₃₆
2000 AV ₁₃₆	13.4	0.15	20000226	17.36583	172.58102	327.74921	13.93433	0.1359846	2.5820545	55	1	118 days	0.67	M-v	4	Williams	38880	2000 AV ₁₃₆
2000 AX ₁₃₆	13.2	0.15	20000226	351.30330	190.00244	341.42203	7.32209	0.0351997	2.4920872	92	4	1992–2000	0.48	M-v	2	Williams	38686	2000 AX ₁₃₆
2000 AY ₁₃₆	14.1	0.15	20000226	351.57050	51.18788	122.03847	3.61261	0.0995339	2.6282174	46	1	101 days	0.48	M-v	3	Williams	38880	2000 AY ₁₃₆
2000 AC ₁₃₇	13.1	0.15	20000226	312.77990	209.35463	16.78429	5.13822	0.1373732	3.1708628	54	3	1977–2000	0.56	M-v	3	Williams	38687	2000 AC ₁₃₇
2000 AE ₁₃₇	12.6	0.15	20000117	272.07263	136.14410	153.53775	8.06935	0.3680411	2.9038863	12	1	55 days	1.74			Williams		2000 AE ₁₃₇
2000 AF ₁₃₇	13.5	0.15	20000226	2.32674	18.55231	147.15892	15.67618	0.1952254	2.5813170	48	1	68 days	0.52	M-v	4	Williams		2000 AF ₁₃₇

2000 AH ₁₃₇	13.3	0.15	20000226	167.80494	223.26349	130.74443	6.39453	0.2044144	2.2122820	70	3	1990–2000	0.55	M-v	2	Williams	38880	2000 AH ₁₃₇
2000 AJ ₁₃₇	14.6	0.15	20000226	9.74051	167.43556	344.24862	11.17645	0.2280772	2.5828968	58	1	67 days	0.50	M-v	4	Williams		2000 AJ ₁₃₇
2000 AK ₁₃₇	13.4	0.15	20000226	41.01848	326.59525	141.33840	17.57760	0.2035166	2.7442224	35	1	98 days	0.57	M-v	4	Williams	38880	2000 AK ₁₃₇
2000 AL ₁₃₇	12.8	0.15	20000226	316.12677	203.51721	20.28874	5.27793	0.1233849	3.1254796	57	3	1997–2000	0.53	M-v	4	Williams	38880	2000 AL ₁₃₇
2000 AO ₁₃₇	14.0	0.15	20000226	47.66639	96.79988	358.96647	11.40760	0.2353995	2.6050734	55	2	1998–2000	0.56	M-v	4	Williams	38880	2000 AO ₁₃₇
2000 AP ₁₃₇	13.5	0.15	20000226	263.80805	186.27685	82.50319	5.52310	0.0297677	2.7816482	59	3	1982–2000	0.70	M-v	3	Williams	38687	2000 AP ₁₃₇
2000 AR ₁₃₇	13.8	0.15	20000226	91.30742	337.36455	81.36278	5.88009	0.1567718	2.2051841	35	1	68 days	0.51	M-v	5	Williams		2000 AR ₁₃₇
2000 AT ₁₃₇	13.7	0.15	20000226	337.16167	219.95781	339.47349	11.97568	0.1377651	2.6387861	34	1	69 days	0.59	M-v	4	Williams		2000 AT ₁₃₇
2000 AV ₁₃₇	13.9	0.15	20000226	344.01144	208.52214	344.92600	15.14336	0.1657370	2.5716898	48	1	124 days	0.51	M-v	3	Williams	38880	2000 AV ₁₃₇
2000 AA ₁₃₈	13.5	0.15	20000226	345.30243	66.51955	125.99622	8.66129	0.1574090	2.7655405	40	1	68 days	0.42	M-v	4	Williams		2000 AA ₁₃₈
2000 AM ₁₄₀	14.0	0.15	20000226	32.99101	189.40147	199.47639	9.07615	0.1698422	2.7884784	46	1	154 days	0.55	M-v	3	Williams	38880	2000 AM ₁₄₀
2000 AU ₁₄₀	15.8	0.15	20000226	19.95322	267.09738	204.35176	5.00795	0.1797905	2.3643625	42	1	85 days	0.70	M-v	4	Williams		2000 AU ₁₄₀
2000 AV ₁₄₀	15.7	0.15	20000226	20.74086	282.99040	190.18282	5.61978	0.1184076	2.2522113	38	1	91 days	0.50	M-v	4	Williams	38880	2000 AV ₁₄₀
2000 AX ₁₄₀	14.6	0.15	20000226	52.12713	224.67541	199.54065	5.93270	0.2107368	2.4190002	65	1	141 days	0.57	M-v	4	Williams	38880	2000 AX ₁₄₀
2000 AZ ₁₄₀	13.8	0.15	20000226	145.77436	192.09709	151.37088	14.70704	0.1031328	2.5694395	28	1	60 days	0.38	M-v	5	Williams		2000 AZ ₁₄₀
2000 AA ₁₄₁	13.3	0.15	20000226	72.87853	250.00995	164.14309	10.56723	0.0980485	2.9918390	42	1	120 days	0.49	M-v	4	Williams		2000 AA ₁₄₁
2000 AB ₁₄₁	13.0	0.15	20000226	184.12227	38.09159	277.74194	12.38299	0.1612109	2.6861567	45	1	97 days	0.52	M-v	4	Williams	38880	2000 AB ₁₄₁
2000 AD ₁₄₁	14.9	0.15	20000226	46.98082	233.25882	217.77954	5.76513	0.0394043	2.2859796	54	4	1995–2000	0.61	M-v	1	Williams	38687	2000 AD ₁₄₁
2000 AF ₁₄₁	14.7	0.15	20000226	122.22925	103.59216	260.28809	7.06239	0.1525001	2.3724444	50	2	1998–2000	0.57	M-v	3	Williams	38687	2000 AF ₁₄₁
2000 AG ₁₄₁	14.9	0.15	20000226	88.89101	148.17886	250.37189	6.17871	0.1213275	2.2631807	31	1	85 days	0.54	M-v	5	Williams	38880	2000 AG ₁₄₁
2000 AK ₁₄₁	14.8	0.15	20000226	44.58601	248.27590	203.10977	5.30824	0.0732119	2.2287977	44	1	92 days	0.48	M-v	4	Williams	38880	2000 AK ₁₄₁
2000 AL ₁₄₁	13.0	0.15	20000226	339.12401	251.73720	277.33060	11.24239	0.1218740	2.6745391	57	1	92 days	0.43	M-v	4	Williams		2000 AL ₁₄₁
2000 AN ₁₄₁	13.9	0.15	20000226	92.11902	226.84381	167.54414	8.04594	0.1305033	2.2471534	64	3	1978–2000	0.54	M-v	1	Williams	38687	2000 AN ₁₄₁
2000 AQ ₁₄₁	13.8	0.15	20000226	118.74787	208.23330	155.05922	12.54550	0.2046096	2.6958323	53	3	1989–2000	0.77	M-v	3	Williams	38688	2000 AQ ₁₄₁
2000 AT ₁₄₁	13.3	0.15	20000226	65.04257	258.47285	169.02773	10.25162	0.0809053	3.1658646	35	2	1998–2000	0.48	M-v	3	Williams	38688	2000 AT ₁₄₁
2000 AU ₁₄₁	14.7	0.15	20000226	106.69570	134.67706	248.23989	5.89509	0.1208198	2.3106761	38	3	1994–2000	0.60	M-v	3	Williams	38688	2000 AU ₁₄₁
2000 AY ₁₄₁	14.4	0.15	20000226	79.11518	215.22209	183.91999	4.82313	0.2257578	2.3250558	49	2	1997–2000	0.41	M-v	4	Williams	38688	2000 AY ₁₄₁
2000 AA ₁₄₂	14.7	0.15	20000226	1.78815	298.26938	205.79341	4.25044	0.0462926	2.2458867	44	1	83 days	0.42	M-v	4	Williams	38880	2000 AA ₁₄₂
2000 AB ₁₄₂	15.2	0.15	20000226	19.02243	218.42313	263.89811	5.07486	0.1305321	2.3174301	32	1	90 days	0.64	M-v	4	Williams	38880	2000 AB ₁₄₂
2000 AD ₁₄₂	12.6	0.15	20000226	277.91246	316.22937	282.92148	8.00542	0.1031337	2.7817265	71	3	1988–2000	0.61	M-v	3	Williams	38688	2000 AD ₁₄₂
2000 AG ₁₄₂	14.3	0.15	20000226	59.59497	131.90111	298.39950	12.31748	0.1555621	2.6975324	44	3	1993–2000	0.59	M-v	2	Williams	38689	2000 AG ₁₄₂
2000 AJ ₁₄₂	13.3	0.15	20000226	24.84158	322.14357	154.45305	13.13520	0.0968879	2.7160291	60	1	88 days	0.44	M-v	4	Williams		2000 AJ ₁₄₂
2000 AL ₁₄₂	13.6	0.15	20000226	272.97584	345.68360	265.96667	8.69485	0.1536011	2.5678791	33	1	97 days	0.60	M-v	5	Williams	38880	2000 AL ₁₄₂
2000 AP ₁₄₂	13.1	0.15	20000226	79.01018	256.75427	162.54558	10.24622	0.0759552	2.9794910	25	1	60 days	0.32	M-v	5	Williams		2000 AP ₁₄₂
2000 AQ ₁₄₂	15.2	0.15	20000226	44.19442	297.97447	145.56725	9.61319	0.2111074	2.3671106	83	1	66 days	0.49	M-v	4	Williams		2000 AQ ₁₄₂
2000 AS ₁₄₂	14.3	0.15	20000226	12.90081	345.03094	146.81166	13.27887	0.1064632	2.6750902	85	1	88 days	0.51	M-v	4	Williams		2000 AS ₁₄₂
2000 AT ₁₄₂	13.7	0.15	20000226	334.74136	247.07846	296.82345	10.60688	0.1494898	2.4113482	68	5	1985–2000	0.57	M-v	1	Williams	38880	2000 AT ₁₄₂
2000 AU ₁₄₂	12.2	0.15	20000226	201.22132	151.15916	158.56480	11.18093	0.0750124	2.9988955	53	1	124 days	0.47	M-v	4	Williams		2000 AU ₁₄₂
2000 AX ₁₄₂	14.1	0.15	20000226	106.98013	170.94260	216.89920	5.95546	0.1288850	2.3355048	47	3	1991–2000	0.55	M-v	2	Williams	38689	2000 AX ₁₄₂
2000 AA ₁₄₃	14.1	0.15	20000226	294.02176	292.31052	299.13008	11.82098	0.1334897	2.5771973	23	1	61 days	0.42	M-v	5	Williams		2000 AA ₁₄₃
2000 AC ₁₄₃	13.0	0.15	20000226	112.38951	81.77506	299.53770	13.46870	0.1746118	3.1083590	22	1	88 days	0.67	M-v	5	Williams	38880	2000 AC ₁₄₃
2000 AD ₁₄₃	14.1	0.15	20000226	7.60972	225.36052	274.80975	6.88443	0.2459256	2.8536339	64	2	1995–2000	0.52	M-v	3	Williams	38689	2000 AD ₁₄₃
2000 AE ₁₄₃	12.5	0.15	20000226	85.65380	140.86516	275.86799	9.20270	0.0857477	2.9949556	39	1	99 days	0.66	M-v	5	Williams		2000 AE ₁₄₃
2000 AF ₁₄₃	13.8	0.15	20000226	316.99999	316.56333	270.28164	5.40189	0.2952223	2.3316854	87	1	101 days	0.51	M-v	4	Williams	38880	2000 AF ₁₄₃
2000 AH ₁₄₃	14.9	0.15	20000226	18.22980	226.95265	258.86241	3.41222	0.2053263	2.6215647	28	1	68 days	0.50	M-v	5	Williams		2000 AH ₁₄₃
2000 AJ ₁₄₃	15.3	0.15	20000226	16.25904	225.18660	262.72992	3.48310	0.2342110	2.5688139	24	1	68 days	0.48	M-v	5	Williams		2000 AJ ₁₄₃
2000 AK ₁₄₃	13.9	0.15	20000226	239.39693	46.70968	225.28438	7.25915	0.1853051	2.7674996	40	2	1998–2000	0.69	M-v	4	Williams	38690	2000 AK ₁₄₃
2000 AM ₁₄₃	15.6	0.15	20000226	5.51562	257.77246	238.17387	4.85110	0.0716190	2.3810086	38	2	1989–2000	0.66	M-v	4	Williams	38690	2000 AM ₁₄₃
2000 AN ₁₄₃	13.4	0.15	20000226	133.14149	187.56896	160.53725	12.03482	0.2582574	2.7273063	34	2	1998–2000	0.71	M-v	4	Williams	38690	2000 AN ₁₄₃
2000 AO ₁₄₃	15.2	0.15	20000226	60.65243	250.93338	181.66487	5.82019	0.0794238	2.4516295	39	3	1997–2000	0.62	M-v	3	Williams	38690	2000 AO ₁₄₃
2000 AR ₁₄₃	14.2	0.15	20000226	120.55385	227.99718	143.20632	21.19364	0.1362403	2.4418566	68	2	1998–2000	0.66	M-v	3	Williams	38690	2000 AR ₁₄₃
2000 AS ₁₄₃	15.4	0.15	20000226	344.32524	258.78186	269.96447	4.49320	0.1162150	2.1713741	30	1	90 days	0.45	M-v	4	Williams	38880	2000 AS ₁₄₃
2000 AT ₁₄₃	13.2	0.15	20000226	273.31561	305.41888	295.39320	9.68952	0.0646534	2.9958239	41	2	1998–2000	0.63	M-v	4	Williams	38691	2000 AT ₁₄₃

2000 MAR. 20

M.P.C. 39579

2000 AU ₁₄₃	13.4	0.15	20000226	23.02678	333.38145	147.62785	17.94856	0.0730564	2.7883511	83	1	97 days	0.47	M-v	4	Williams	38880	2000 AU ₁₄₃
2000 AV ₁₄₃	12.5	0.15	20000226	206.50794	147.97012	155.73965	11.41207	0.0958880	2.9845098	54	3	1995–2000	0.54	M-v	3	Williams	38691	2000 AV ₁₄₃
2000 AA ₁₄₄	12.4	0.15	20000226	67.12146	150.27441	287.91509	9.10448	0.0828843	3.0211472	49	1	99 days	0.63	M-v	4	Williams	38881	2000 AA ₁₄₄
2000 AC ₁₄₄	14.4	0.15	20000226	76.70705	149.48048	272.85835	3.68651	0.1538035	2.2191125	34	1	99 days	0.49	M-v	4	Williams	38881	2000 AC ₁₄₄
2000 AD ₁₄₄	13.5	0.15	20000226	349.04832	21.55905	150.25779	18.12401	0.1031218	3.1294370	46	1	67 days	0.57	M-v	4	Williams		2000 AD ₁₄₄
2000 AE ₁₄₄	14.4	0.15	20000226	6.17604	224.36659	287.99184	5.58569	0.0699649	2.4006139	31	1	68 days	0.62	M-v	4	Williams		2000 AE ₁₄₄
2000 AF ₁₄₄	14.3	0.15	20000226	34.71485	184.31957	296.40624	6.99634	0.0633123	2.4038574	33	1	94 days	0.62	M-v	4	Williams	38881	2000 AF ₁₄₄
2000 AL ₁₄₄	14.2	0.15	20000226	333.90751	50.65013	145.57806	18.22205	0.1620466	2.5468399	57	2	1997–2000	0.43	M-v	4	Williams	38691	2000 AL ₁₄₄
2000 AM ₁₄₄	14.3	0.15	20000226	51.27764	150.69920	304.04717	3.70292	0.1415938	2.2497353	57	2	1998–2000	0.59	M-v	4	Williams	38691	2000 AM ₁₄₄
2000 AN ₁₄₄	13.0	0.15	20000226	95.91004	95.03283	314.19154	12.12294	0.1463664	2.6343219	49	1	70 days	0.49	M-v	5	Williams		2000 AN ₁₄₄
2000 AO ₁₄₄	14.3	0.15	20000226	8.57867	211.41787	300.00722	6.27247	0.0941112	2.2495444	39	1	99 days	0.63	M-v	4	Williams	38881	2000 AO ₁₄₄
2000 AP ₁₄₄	12.6	0.15	20000226	217.13578	336.06187	328.41590	21.79436	0.0146675	2.6425014	61	4	1993–2000	0.65	M-v	1	Williams	38691	2000 AP ₁₄₄
2000 AQ ₁₄₄	14.8	0.15	20000226	35.82374	332.49872	144.77660	4.87216	0.1015123	2.2127198	42	1	67 days	0.54	M-v	5	Williams		2000 AQ ₁₄₄
2000 AS ₁₄₄	14.3	0.15	20000226	33.62820	153.90996	328.01474	12.72981	0.1201317	2.7504676	30	1	63 days	0.53	M-v	5	Williams		2000 AS ₁₄₄
2000 AT ₁₄₄	13.4	0.15	20000226	322.43115	245.54011	324.70099	13.14222	0.1011216	2.5808082	51	3	1993–2000	0.83	M-v	3	Williams	38692	2000 AT ₁₄₄
2000 AU ₁₄₄	13.1	0.15	20000226	26.08987	339.76659	151.23446	13.42471	0.1352917	2.6291905	54	1	85 days	0.52	M-v	4	Williams	38881	2000 AU ₁₄₄
2000 AV ₁₄₄	14.4	0.15	20000226	46.10262	136.06644	329.91181	12.76025	0.1392051	2.6389288	29	1	63 days	0.64	M-v	5	Williams		2000 AV ₁₄₄
2000 AY ₁₄₄	15.7	0.15	20000226	283.67113	90.61420	145.30025	24.24479	0.0459128	1.9102206	48	1	67 days	0.54	M-v	4	Williams		2000 AY ₁₄₄
2000 AZ ₁₄₄	14.8	0.15	20000226	305.97260	286.01255	291.71466	7.59575	0.0833111	2.4739919	26	1	68 days	0.60	M-v	5	Williams		2000 AZ ₁₄₄
2000 AA ₁₄₅	14.2	0.15	20000226	321.43647	280.52706	290.01143	4.44540	0.1560722	2.4036886	40	1	68 days	0.54	M-v	5	Williams		2000 AA ₁₄₅
2000 AH ₁₄₅	14.6	0.15	20000226	318.87155	234.39934	308.00405	37.34737	0.0410789	2.5922784	39	1	63 days	0.49	M-v	5	Williams		2000 AH ₁₄₅
2000 AL ₁₄₅	14.5	0.15	20000117	52.09878	271.03230	150.34917	16.60978	0.1187890	3.1353058	35	1	59 days	0.56			Williams		2000 AL ₁₄₅
2000 AQ ₁₄₅	14.2	0.15	20000226	18.75364	226.00020	253.98353	6.66074	0.1725877	2.7907046	45	1	92 days	0.57	M-v	4	Williams		2000 AQ ₁₄₅
2000 AR ₁₄₅	15.0	0.15	20000226	115.86750	159.71581	209.98131	5.32841	0.1880373	2.2768524	39	5	1981–2000	0.70	M-v	1	Williams	38692	2000 AR ₁₄₅
2000 AP ₁₄₆	14.8	0.15	20000226	311.09076	307.67886	281.77927	23.51258	0.1459933	2.5484421	29	1	62 days	0.46	M-v	5	Williams	38881	2000 AP ₁₄₆
2000 AV ₁₄₆	15.4	0.15	20000117	312.31897	357.88245	196.24665	6.96715	0.1214345	2.5426004	26	1	52 days	0.47			Williams		2000 AV ₁₄₆
2000 AW ₁₄₆	14.9	0.15	20000117	85.78501	314.00313	78.72203	6.22767	0.1926028	2.3225697	31	1	57 days	0.54			Williams		2000 AW ₁₄₆
2000 AX ₁₄₆	15.9	0.15	20000226	40.82209	317.30915	125.58484	24.40944	0.2302930	2.1512645	29	1	89 days	0.57	M-v	4	Williams		2000 AX ₁₄₆
2000 AB ₁₄₇	16.4	0.15	20000226	30.06380	135.68405	307.97663	4.45376	0.2244244	2.5853571	49	1	62 days	0.60	M-v	5	Williams		2000 AB ₁₄₇
2000 AH ₁₄₈	12.6	0.15	20000226	50.79395	158.63012	292.08371	12.60139	0.1336854	2.6879964	74	1	128 days	0.51	M-v	4	Williams		2000 AH ₁₄₈
2000 AX ₁₄₈	13.4	0.15	20000226	83.96618	175.64309	177.33048	9.40662	0.1626252	2.7701626	34	1	137 days	0.43	M-v	4	Williams	38881	2000 AX ₁₄₈
2000 AZ ₁₄₈	13.8	0.15	20000226	314.27784	10.47306	139.79242	11.30917	0.0504494	2.3633021	41	2	1998–2000	0.59	M-v	3	Williams	38881	2000 AZ ₁₄₈
2000 AA ₁₄₉	13.4	0.15	20000226	88.59424	218.83592	137.67832	11.58617	0.0744901	2.9594492	44	2	1998–2000	0.61	M-v	3	Williams	38881	2000 AA ₁₄₉
2000 AD ₁₄₉	14.1	0.15	20000226	341.15800	310.39607	177.73233	6.53718	0.0896700	2.3983063	31	1	122 days	0.44	M-v	4	Williams	38187	2000 AD ₁₄₉
2000 AE ₁₄₉	14.8	0.15	20000226	73.59077	179.75225	198.14652	7.92904	0.1304180	2.3320581	31	1	122 days	0.48	M-v	4	Williams		2000 AE ₁₄₉
2000 AF ₁₄₉	13.6	0.15	20000226	117.09128	189.07160	134.09304	12.78765	0.1896721	2.6119315	44	4	1986–2000	0.58	M-v	2	Williams	38881	2000 AF ₁₄₉
2000 AW ₁₄₉	13.9	0.15	20000226	319.28121	359.48168	168.61960	9.24778	0.0825511	2.8014067	29	2	1998–2000	0.63	M-v	4	Williams	38001	2000 AW ₁₄₉
2000 AV ₁₅₀	13.4	0.15	20000226	160.11663	158.91100	166.92265	11.12329	0.0702169	2.8596646	44	3	1988–2000	0.61	M-v	4	Williams	38882	2000 AV ₁₅₀
2000 AY ₁₅₀	12.5	0.15	20000226	319.03817	55.20433	148.41667	27.14104	0.1993155	2.9307347	70	5	1980–2000	0.54	M-v	2	Williams	38693	2000 AY ₁₅₀
2000 AD ₁₅₁	16.1	0.15	20000117	359.82501	170.01206	113.38168	8.49715	0.0665726	2.3087449	33	1	50 days	0.87			Williams		2000 AD ₁₅₁
2000 AF ₁₅₁	15.1	0.15	20000117	81.73356	77.19341	302.94407	11.41033	0.2053768	2.6024628	43	1	54 days	0.57			Williams		2000 AF ₁₅₁
2000 AS ₁₅₂	13.3	0.15	20000226	157.06499	58.64954	268.84895	19.69675	0.1541892	1.9177740	44	3	1951–2000	0.54	M-v	4	Williams	38693	2000 AS ₁₅₂
2000 AG ₁₅₄	13.9	0.15	20000226	298.59080	212.55492	322.50587	8.56953	0.0413490	3.0334132	27	1	88 days	0.46	M-v	5	Williams		2000 AG ₁₅₄
2000 AQ ₁₅₄	16.1	0.15	20000226	34.72381	354.71883	40.45430	9.55145	0.2731018	2.3871173	53	1	113 days	0.50	M-v	3	Williams		2000 AQ ₁₅₄
2000 AT ₁₅₄	14.8	0.15	20000226	59.13853	344.78675	34.56007	3.00009	0.0814744	2.7192719	31	1	62 days	0.57	M-v	5	Williams		2000 AT ₁₅₄
2000 AY ₁₅₄	15.2	0.15	20000226	78.12509	317.37004	52.76177	6.95574	0.1004056	2.3508874	29	1	62 days	0.58	M-v	5	Williams		2000 AY ₁₅₄
2000 AZ ₁₅₄	14.0	0.15	20000226	76.43138	343.06319	21.29802	2.02556	0.0975407	2.8335369	29	1	62 days	0.46	M-v	5	Williams		2000 AZ ₁₅₄
2000 AD ₁₅₅	15.8	0.15	19991208	20.04358	132.89809	278.24378	2.55088	0.1077298	2.3072564	21	1	53 days	0.73			Williams		2000 AD ₁₅₅
2000 AH ₁₅₅	15.2	0.15	19991208	169.08693	331.94065	296.98130	4.45631	0.0491721	2.1867534	20	1	51 days	0.62			Williams		2000 AH ₁₅₅
2000 AL ₁₅₉	13.5	0.15	20000226	184.86660	351.61412	310.11490	9.89524	0.0440545	2.9825460	25	1	61 days	0.68	M-v	5	Williams		2000 AL ₁₅₉
2000 AT ₁₅₉	15.8	0.15	20000117	20.76005	22.04230	70.22048	3.32835	0.1484048	2.6269112	33	1	52 days	0.71			Williams		2000 AT ₁₅₉
2000 AN ₁₆₁	14.8	0.15	20000226	295.06154	212.11004	2.16411	5.30305	0.1152658	2.2245243	43	3	1997–2000	0.80	M-v	4	Williams	38695	2000 AN ₁₆₁
2000 AT ₁₆₁	14.4	0.15	20000226	49.63267	327.93679	30.00730	9.47369	0.2787219	2.7475305	54	1	135 days	0.53	M-v	4	Williams		2000 AT ₁₆₁

2000 AX ₁₆₁	15.5	0.15	20000226	4.77310	248.43245	231.72494	0.54864	0.1269267	2.4466804	24	1	60 days	0.58	M-v	6	Williams	2000 AX ₁₆₁
2000 AE ₁₆₂	15.2	0.15	20000117	78.80620	54.62259	338.90534	3.32732	0.1004437	2.3103640	36	1	51 days	0.66			Williams	2000 AE ₁₆₂
2000 AG ₁₆₂	13.8	0.15	20000226	128.73477	288.63268	74.42377	3.10182	0.0343390	2.9065750	31	1	60 days	0.62	M-v	5	Williams	2000 AG ₁₆₂
2000 AJ ₁₆₂	15.3	0.15	20000226	304.45767	248.81866	316.09526	4.51985	0.0811679	2.1716825	57	2	1998–2000	0.59	M-v	4	Williams	38696 2000 AJ ₁₆₂
2000 AK ₁₆₂	14.5	0.15	20000226	16.63620	149.84357	329.53862	4.80476	0.1185414	2.9876565	34	1	61 days	0.75	M-v	5	Marsden	2000 AK ₁₆₂
2000 AR ₁₆₂	13.2	0.15	20000226	66.01234	108.00552	331.66640	12.00864	0.1358427	2.6753708	56	1	99 days	0.54	M-v	4	Williams	38882 2000 AR ₁₆₂
2000 AS ₁₆₂	14.5	0.15	20000226	50.59474	82.06626	358.43063	4.16269	0.2860085	2.4200208	77	2	1985–2000	0.56	M-v	3	Williams	38696 2000 AS ₁₆₂
2000 AT ₁₆₂	14.0	0.15	20000226	46.19461	325.19582	148.54090	9.17197	0.1047705	2.7703709	41	1	70 days	0.47	M-v	5	Williams	2000 AT ₁₆₂
2000 AH ₁₆₃	13.4	0.15	20000226	302.76674	60.36299	120.56125	10.37572	0.1824961	2.7887907	34	1	89 days	0.40	M-v	4	Williams	2000 AH ₁₆₃
2000 AD ₁₆₄	14.3	0.15	20000226	245.26290	1.99267	255.32008	2.99598	0.0791926	2.6424429	26	1	60 days	0.46	M-v	5	Williams	2000 AD ₁₆₄
2000 AF ₁₆₄	12.8	0.15	20000226	295.49284	84.06482	139.89210	14.36858	0.1552236	2.5857787	87	4	1980–2000	0.57	M-v	2	Marsden	38697 2000 AF ₁₆₄
2000 AH ₁₆₄	13.7	0.15	20000226	241.86077	89.89597	179.96242	8.95161	0.0620804	2.9939298	36	4	1990–2000	0.69	M-v	1	Williams	38697 2000 AH ₁₆₄
2000 AP ₁₆₄	12.1	0.15	20000226	17.84727	199.45712	316.84969	11.82727	0.0985293	2.6916174	15	1	69 days	0.33	M-v	6	Williams	2000 AP ₁₆₄
2000 AQ ₁₆₄	12.7	0.15	20000226	324.34184	311.74529	264.57056	7.81862	0.1543498	3.0406192	55	3	1997–2000	0.65	M-v	3	Williams	38697 2000 AQ ₁₆₄
2000 AL ₁₆₅	13.1	0.15	20000226	4.78881	324.43480	103.89982	18.09547	0.2047667	3.1527491	47	1	121 days	0.42	M-v	3	Williams	38883 2000 AL ₁₆₅
2000 AN ₁₆₅	12.4	0.15	20000226	41.40500	184.18815	225.97190	21.13268	0.0450380	3.2299790	39	1	138 days	0.49	M-v	4	Williams	38883 2000 AN ₁₆₅
2000 AR ₁₆₅	14.8	0.15	20000226	13.36905	318.85295	136.45479	14.48110	0.2564007	2.5878948	37	2	1996–2000	0.49	M-v	2	Williams	38698 2000 AR ₁₆₅
2000 AD ₁₆₆	13.2	0.15	20000206	18.74493	316.08739	136.63823	24.70219	0.1434883	3.1754558	19	1	57 days	0.30			Williams	2000 AD ₁₆₆
2000 AG ₁₆₇	14.5	0.15	20000226	12.55476	280.48188	190.37877	8.74084	0.2920065	3.1438738	53	2	1998–2000	0.53	M-v	3	Williams	38698 2000 AG ₁₆₇
2000 AM ₁₆₇	14.3	0.15	20000206	294.86862	78.34168	144.71889	22.98225	0.2484598	2.2932369	52	1	57 days	0.64			Williams	2000 AM ₁₆₇
2000 AN ₁₆₇	14.9	0.15	20000226	41.14554	271.95667	166.80722	11.68368	0.1917929	2.6229917	34	1	61 days	0.41	M-v	4	Williams	2000 AN ₁₆₇
2000 AY ₁₆₇	14.3	0.15	20000226	59.48076	274.10369	161.84859	5.74557	0.1183988	2.2769244	59	1	97 days	0.41	M-v	4	Williams	2000 AY ₁₆₇
2000 AG ₁₆₈	15.6	0.15	20000226	32.38380	89.39270	61.02557	7.59274	0.0609822	2.3668790	19	1	61 days	0.72	M-v	6	Williams	2000 AG ₁₆₈
2000 AN ₁₆₈	14.4	0.15	20000226	115.74353	242.78562	144.08521	6.40067	0.0394093	2.6071104	76	2	1998–2000	0.56	M-v	3	Williams	38698 2000 AN ₁₆₈
2000 AY ₁₆₉	13.6	0.15	20000226	78.29764	145.31981	197.47704	10.80477	0.2496239	3.1036310	36	1	137 days	0.51	M-v	4	Williams	38883 2000 AY ₁₆₉
2000 AD ₁₇₀	13.6	0.15	20000226	271.61635	109.21516	101.52709	22.21763	0.2640041	2.3823810	37	1	120 days	0.54	M-v	4	Williams	2000 AD ₁₇₀
2000 AO ₁₇₀	13.8	0.15	20000226	60.08525	256.33613	116.88805	13.94013	0.2175230	2.6843523	37	1	121 days	0.42	M-v	4	Williams	38883 2000 AO ₁₇₀
2000 AY ₁₇₀	13.6	0.15	20000226	52.93015	252.13158	130.75668	9.49400	0.2439469	2.6190420	47	1	137 days	0.40	M-v	4	Williams	38883 2000 AY ₁₇₀
2000 AG ₁₇₅	12.4	0.15	20000226	75.47924	157.44732	207.86290	10.03892	0.2221759	2.8585760	28	2	1989–2000	0.57	M-v	4	Williams	38699 2000 AG ₁₇₅
2000 AR ₁₇₇	13.1	0.15	20000226	57.37800	274.27977	127.47479	17.34504	0.1080607	3.1698383	29	2	1990–2000	0.49	M-v	4	Williams	38699 2000 AR ₁₇₇
2000 AN ₁₈₂	14.0	0.15	20000226	355.01341	325.14194	170.62040	9.42290	0.0917161	2.7658230	46	4	1977–2000	0.79	M-v	2	Williams	38700 2000 AN ₁₈₂
2000 AY ₁₈₂	11.3	0.15	20000226	42.11413	209.05804	230.14318	9.44002	0.0702294	5.1881834	47	3	1997–2000	0.77	M-v	3	Williams	38700 2000 AY ₁₈₂
2000 AC ₁₈₅	16.0	0.15	20000226	344.07005	330.17802	184.36433	6.14936	0.0904948	2.2240372	27	2	1997–2000	0.53	M-v	5	Williams	38701 2000 AC ₁₈₅
2000 AD ₁₈₅	14.2	0.15	20000226	55.64163	246.35372	182.19651	6.76250	0.0956577	2.3598401	47	3	1991–2000	0.56	M-v	2	Williams	38701 2000 AD ₁₈₅
2000 AG ₁₈₅	15.0	0.15	20000226	313.76467	41.27980	148.68029	13.64160	0.1097685	2.5347757	30	1	62 days	0.47	M-v	5	Williams	2000 AG ₁₈₅
2000 AJ ₁₈₅	11.9	0.15	20000117	25.06529	300.59627	154.55722	15.95675	0.1054107	5.1937372	18	1	58 days	0.51			Williams	2000 AJ ₁₈₅
2000 AM ₁₈₅	12.9	0.15	20000226	321.78849	307.09498	280.82811	8.03423	0.1371020	3.1040180	21	1	66 days	0.58	M-v	6	Williams	2000 AM ₁₈₅
2000 AA ₁₈₇	13.9	0.15	20000226	16.98675	282.16163	140.64319	9.25641	0.2543894	2.6797514	29	1	126 days	0.51	M-v	4	Williams	38883 2000 AA ₁₈₇
2000 AX ₁₈₇	15.2	0.15	20000226	347.34906	343.11448	136.11307	12.28687	0.1884292	2.4023824	30	1	126 days	0.58	M-v	4	Williams	2000 AX ₁₈₇
2000 AE ₁₈₈	14.6	0.15	20000226	26.68443	288.01168	124.31915	13.38782	0.3321665	2.7079271	44	1	173 days	0.48	M-v	3	Williams	2000 AE ₁₈₈
2000 AQ ₁₈₈	14.5	0.15	20000226	24.26579	284.86237	146.11288	10.89443	0.2322958	2.3668139	29	1	119 days	0.43	M-v	3	Williams	38883 2000 AQ ₁₈₈
2000 AY ₁₈₉	12.8	0.15	20000226	71.68269	153.48187	218.21206	12.91446	0.1941724	2.7029449	29	1	138 days	0.55	M-v	4	Williams	38883 2000 AY ₁₈₉
2000 AG ₁₉₁	10.8	0.15	20000226	15.81129	257.75469	192.72310	14.68639	0.1449677	5.1753683	39	4	1996–2000	0.45	M-v	2	Williams	38702 2000 AG ₁₉₁
2000 AF ₁₉₂	13.0	0.15	20000226	23.93839	290.94730	163.49731	16.44849	0.0402660	3.1232101	31	3	1992–2000	0.62	M-v	3	Williams	38702 2000 AF ₁₉₂
2000 AQ ₁₉₂	14.8	0.15	20000206	5.23733	297.34626	176.73187	10.11202	0.1824520	2.4336453	31	1	57 days	0.38			Williams	2000 AQ ₁₉₂
2000 AS ₁₉₂	13.9	0.15	20000226	93.11533	195.89624	173.75486	12.82324	0.1898702	2.5385065	35	3	1990–2000	0.53	M-v	3	Williams	38703 2000 AS ₁₉₂
2000 AT ₁₉₂	13.1	0.15	20000226	81.29975	217.34871	158.64383	16.31021	0.2214531	2.6560054	33	2	1994–2000	0.40	M-v	5	Williams	38703 2000 AT ₁₉₂
2000 AC ₁₉₃	13.6	0.15	20000206	351.39593	336.97622	156.20066	16.47768	0.1192201	2.6205724	26	1	57 days	0.38			Williams	2000 AC ₁₉₃
2000 AN ₁₉₃	14.7	0.15	20000226	31.69237	214.32918	230.57359	8.14706	0.2261432	2.3947759	37	1	95 days	0.39	M-v	4	Williams	2000 AN ₁₉₃
2000 AQ ₁₉₃	14.0	0.15	20000206	289.83498	21.74780	186.02175	12.62304	0.1193477	2.6772624	28	1	58 days	0.50			Williams	2000 AQ ₁₉₃
2000 AY ₁₉₃	15.0	0.15	20000226	336.97114	20.21520	144.78960	15.21780	0.1917618	2.6562028	26	1	61 days	0.47	M-v	4	Williams	2000 AY ₁₉₃
2000 AA ₁₉₄	14.4	0.15	20000226	26.36170	292.19239	158.51047	14.34474	0.1940999	3.1532547	27	2	1998–2000	0.61	M-v	3	Williams	38002 2000 AA ₁₉₄
2000 AB ₁₉₄	12.6	0.15	20000226	228.90582	63.39684	200.12601	10.48505	0.0530098	2.9961684	43	3	1977–2000	0.54	M-v	2	Williams	38883 2000 AB ₁₉₄

2000 MAR. 20

M.P.C. 39581

2000 AH ₁₉₄	13.8	0.15	20000206	1.20215	315.23180	168.23380	14.93263	0.1113541	3.2022950	17	1	58 days	0.65		Williams	2000 AH ₁₉₄
2000 AU ₁₉₄	14.9	0.15	20000226	329.50476	358.59789	176.98734	8.24727	0.1662107	2.6674433	22	1	61 days	0.39	M-v 5	Williams	2000 AU ₁₉₄
2000 AB ₁₉₅	13.6	0.15	20000226	353.13493	282.60334	218.07411	8.92356	0.0390639	3.0536496	64	2	1998-2000	0.58	M-v 4	Williams	38703 2000 AB ₁₉₅
2000 AD ₁₉₅	13.7	0.15	20000226	193.80497	49.97654	252.85210	12.60778	0.1821269	2.5532897	31	2	1998-2000	0.63	M-v 4	Williams	38703 2000 AD ₁₉₅
2000 AE ₁₉₅	14.7	0.15	20000226	50.32089	207.25640	222.33047	8.42217	0.1524346	2.7393301	43	2	1998-2000	0.71	M-v 3	Williams	38704 2000 AE ₁₉₅
2000 AO ₁₉₅	13.3	0.15	20000226	9.65287	289.27118	194.65929	9.70993	0.0440515	2.9923535	47	3	1996-2000	0.56	M-v 3	Williams	38884 2000 AO ₁₉₅
2000 AS ₁₉₅	13.6	0.15	20000226	56.76496	177.74035	242.75344	8.06417	0.1670122	2.5840379	60	2	1998-2000	0.62	M-v 3	Williams	38704 2000 AS ₁₉₅
2000 AU ₁₉₅	13.0	0.15	20000226	291.26411	63.85105	150.99991	14.04442	0.1162420	2.6148614	38	1	61 days	0.43	M-v 4	Williams	2000 AU ₁₉₅
2000 AL ₁₉₆	15.1	0.15	20000226	35.88320	248.10229	196.92252	6.10083	0.2018393	2.6936430	27	1	91 days	0.48	M-v 4	Williams	2000 AL ₁₉₆
2000 AM ₁₉₆	13.4	0.15	20000226	340.24248	244.27907	277.96764	14.43730	0.1256781	3.1661742	37	1	92 days	0.60	M-v 4	Williams	38884 2000 AM ₁₉₆
2000 AN ₁₉₆	14.6	0.15	20000226	58.38367	233.59841	172.48575	9.06327	0.2824230	2.7408984	23	1	61 days	0.42	M-v 5	Williams	2000 AN ₁₉₆
2000 AP ₁₉₆	13.7	0.15	20000226	326.33914	284.15140	249.45407	9.41213	0.0420972	2.9797700	56	3	1996-2000	0.55	M-v 3	Williams	38884 2000 AP ₁₉₆
2000 AR ₁₉₆	16.1	0.15	20000117	356.11900	346.79090	146.09351	14.34436	0.2595185	2.6908647	43	1	52 days	0.51		Williams	2000 AR ₁₉₆
2000 AS ₁₉₆	15.6	0.15	20000226	325.87410	313.21582	226.06513	5.96842	0.0682915	2.1969435	35	3	1997-2000	0.57	M-v 3	Williams	38704 2000 AS ₁₉₆
2000 AC ₁₉₇	13.0	0.15	20000226	150.10087	78.53064	264.00453	14.63041	0.0848781	3.2024185	19	1	61 days	0.53	M-v 5	Williams	2000 AC ₁₉₇
2000 AF ₁₉₇	14.5	0.15	20000226	52.45324	259.73532	171.32542	8.84510	0.2120185	2.4063331	53	1	83 days	0.48	M-v 4	Williams	2000 AF ₁₉₇
2000 AL ₁₉₇	14.1	0.15	20000226	220.46813	43.43564	245.22334	9.61937	0.1753104	2.3565907	33	2	1998-2000	0.51	M-v 4	Williams	38704 2000 AL ₁₉₇
2000 AP ₁₉₇	15.0	0.15	20000226	22.47776	234.09168	238.83246	9.52580	0.1188140	2.4398374	21	1	83 days	0.57	M-v 4	Williams	2000 AP ₁₉₇
2000 AS ₁₉₇	13.5	0.15	20000226	62.33410	152.90982	271.13440	13.00672	0.1462774	2.4237060	34	1	87 days	0.32	M-v 4	Williams	38884 2000 AS ₁₉₇
2000 AW ₁₉₇	13.9	0.15	20000226	93.01501	134.73789	255.10513	8.69828	0.1534717	2.7563983	57	2	1998-2000	0.53	M-v 3	Williams	38705 2000 AW ₁₉₇
2000 AY ₁₉₇	13.5	0.15	20000226	15.00566	270.38269	211.87145	8.60603	0.0896937	3.3827418	31	1	61 days	0.53	M-v 4	Williams	2000 AY ₁₉₇
2000 AZ ₁₉₇	13.0	0.15	20000226	359.39050	220.22665	283.51359	16.75227	0.1121253	3.1039527	28	1	109 days	0.45	M-v 3	Williams	38884 2000 AZ ₁₉₇
2000 AE ₁₉₈	13.0	0.15	20000226	279.51161	51.29788	193.27248	7.89049	0.2091885	2.7745871	33	1	61 days	0.39	M-v 5	Williams	2000 AE ₁₉₈
2000 AF ₁₉₈	13.4	0.15	20000226	358.45726	349.80581	152.79385	17.95576	0.0680277	2.8089788	37	1	60 days	0.38	M-v 4	Williams	2000 AF ₁₉₈
2000 AG ₁₉₈	13.5	0.15	20000226	5.18364	337.37371	157.99607	14.80662	0.0703058	2.9788098	40	1	60 days	0.44	M-v 4	Williams	2000 AG ₁₉₈
2000 AK ₁₉₈	13.6	0.15	20000226	329.49214	296.21442	240.83396	7.88674	0.0663906	2.9843478	27	1	61 days	0.50	M-v 4	Williams	2000 AK ₁₉₈
2000 AL ₁₉₈	13.9	0.15	20000206	257.10897	84.46800	160.98591	16.50566	0.0451604	3.1257867	27	1	58 days	0.57		Williams	2000 AL ₁₉₈
2000 AM ₁₉₈	14.5	0.15	20000226	41.07716	226.43913	231.32455	6.42789	0.0639979	2.3100300	63	3	1996-2000	0.62	M-v 3	Williams	38705 2000 AM ₁₉₈
2000 AN ₁₉₈	15.1	0.15	20000226	278.63792	43.22852	189.01661	7.90271	0.0666150	2.3880156	32	2	1993-2000	0.57	M-v 5	Williams	38705 2000 AN ₁₉₈
2000 AB ₁₉₉	13.6	0.15	20000226	285.97026	315.32407	264.50247	11.16911	0.0531839	3.2267921	31	2	1998-2000	0.76	M-v 4	Williams	38706 2000 AB ₁₉₉
2000 AG ₁₉₉	13.7	0.15	20000226	350.67190	343.23810	93.26539	13.84869	0.1851989	2.9802204	32	1	166 days	0.64	M-v 4	Williams	2000 AG ₁₉₉
2000 AS ₂₀₀	13.4	0.15	20000226	5.09018	280.48358	155.92959	13.77658	0.1479910	2.6015635	41	1	183 days	0.45	M-v 3	Williams	38884 2000 AS ₂₀₀
2000 AV ₂₀₀	15.0	0.15	19991228	34.62310	277.62173	120.55161	24.39583	0.1153460	1.9649821	18	1	4 days	0.37		Williams	2000 AV ₂₀₀
2000 AM ₂₀₁	14.5	0.15	20000226	34.91709	285.73534	142.36631	23.27261	0.2976171	2.3200365	37	1	149 days	0.44	M-v 3	Williams	38884 2000 AM ₂₀₁
2000 AQ ₂₀₁	15.4	0.15	20000226	51.33762	293.62038	144.29308	24.22305	0.0817310	1.9660242	22	1	60 days	0.56	M-v 4	Williams	2000 AQ ₂₀₁
2000 AT ₂₀₁	17.3	0.15	20000206	54.82035	284.23869	140.25091	23.80588	0.1146850	1.9189918	58	1	55 days	0.58		Williams	2000 AT ₂₀₁
2000 AZ ₂₀₁	12.8	0.15	20000226	12.46092	233.01151	266.27413	8.63056	0.0311374	2.9927310	68	2	1998-2000	0.67	M-v 3	Williams	38706 2000 AZ ₂₀₁
2000 AA ₂₀₂	11.7	0.15	20000226	112.39667	95.38866	301.92457	20.73311	0.0462090	3.2351220	54	1	128 days	0.51	M-v 4	Williams	38884 2000 AA ₂₀₂
2000 AU ₂₀₂	15.3	0.15	20000206	2.48655	250.52806	257.24182	13.16741	0.1251736	2.6442169	25	1	59 days	0.46		Williams	2000 AU ₂₀₂
2000 AV ₂₀₂	14.1	0.15	20000226	312.20031	307.53424	276.15491	14.47415	0.1881271	2.6535544	33	1	86 days	0.56	M-v 4	Williams	2000 AV ₂₀₂
2000 AW ₂₀₂	15.1	0.15	20000226	299.89696	132.39476	99.63964	8.23228	0.1927659	2.2703205	43	1	62 days	0.45	M-v 5	Williams	2000 AW ₂₀₂
2000 AG ₂₀₃	15.2	0.15	20000206	339.51832	0.66024	188.76066	13.42135	0.2087539	2.6643607	24	1	58 days	0.70		Williams	2000 AG ₂₀₃
2000 AJ ₂₀₃	13.2	0.15	20000226	340.30140	281.75302	275.34500	9.21188	0.2067398	3.0034750	46	3	1983-2000	0.59	M-v 3	Williams	38707 2000 AJ ₂₀₃
2000 AK ₂₀₃	12.8	0.15	20000226	111.32324	116.60522	283.30911	10.82901	0.1738827	2.6554437	58	3	1993-2000	0.63	M-v 2	Williams	38707 2000 AK ₂₀₃
2000 AY ₂₀₃	12.9	0.15	20000226	112.52399	137.27610	273.97908	8.58908	0.0464299	2.5702559	30	1	88 days	0.52	M-v 4	Williams	2000 AY ₂₀₃
2000 AZ ₂₀₃	13.5	0.15	20000226	4.43113	217.09656	307.14218	13.97758	0.0709058	2.6167542	48	2	1997-2000	0.61	M-v 3	Williams	38707 2000 AZ ₂₀₃
2000 AD ₂₀₄	14.7	0.15	20000226	348.07094	208.60886	305.47489	7.65982	0.1144590	2.5783330	58	2	1993-2000	0.57	M-v 3	Williams	38884 2000 AD ₂₀₄
2000 AJ ₂₀₄	15.0	0.15	20000206	264.81295	124.67594	134.14560	3.27637	0.2591235	2.3475513	53	1	55 days	0.42		Williams	2000 AJ ₂₀₄
2000 AK ₂₀₄	15.1	0.15	20000226	316.24204	15.25945	180.45978	4.43014	0.0971876	2.5850057	39	1	66 days	0.52	M-v 5	Williams	2000 AK ₂₀₄
2000 AN ₂₀₄	13.4	0.15	20000226	42.03887	238.29976	190.09837	12.72438	0.1516473	2.5686246	46	3	1990-2000	0.61	M-v 3	Williams	38707 2000 AN ₂₀₄
2000 AR ₂₀₄	14.3	0.15	20000226	34.61970	271.09424	160.92441	15.41842	0.2700870	2.8592237	28	1	84 days	0.41	M-v 4	Williams	2000 AR ₂₀₄
2000 AA ₂₀₅	13.1	0.15	20000226	89.17099	33.23983	356.51283	11.00899	0.0898326	3.0289272	29	2	1998-2000	0.60	M-v 4	Williams	38884 2000 AA ₂₀₅
2000 AC ₂₀₅	12.8	0.15	20000206	222.70703	299.85280	35.77050	23.56423	0.2694460	2.3321330	15	1	54 days	0.65		Williams	2000 AC ₂₀₅

2000 AD ₂₀₅	18.6	0.15	20000226	57.98754	191.79518	157.36502	7.92418	0.5859717	1.6930473	48	1	51 days	0.53	M-v	5	Williams	38884	2000 AD ₂₀₅
2000 AE ₂₀₅	22.9	0.15	20000226	72.85283	150.07784	271.82134	4.46046	0.1366744	1.1629858	75	1	53 days	0.58	M-v	5	Marsden	38884	2000 AE ₂₀₅
2000 AF ₂₀₅	21.5	0.15	20000226	137.37248	127.12055	220.26175	2.40680	0.2769747	1.0341866	68	1	53 days	0.57	M-v	5	Marsden	38884	2000 AF ₂₀₅
2000 AG ₂₀₅	19.8	0.15	20000226	350.93757	248.96850	270.05370	18.41940	0.5195782	2.2925607	29	1	50 days	0.59	M-v	5	Marsden	38885	2000 AG ₂₀₅
2000 AJ ₂₀₅	14.0	0.15	20000117	90.41629	67.27984	315.72258	7.88141	0.1735701	2.7771556	40	1	41 days	0.62			Marsden		2000 AJ ₂₀₅
2000 AL ₂₀₅	16.3	0.15	20000206	341.90853	297.17889	219.72445	0.91704	0.1027357	2.3579601	41	1	48 days	0.54			Williams		2000 AL ₂₀₅
2000 AR ₂₀₅	15.1	0.15	20000117	16.34170	184.54176	286.40906	4.39524	0.0161251	2.7080330	29	1	59 days	0.94			Williams		2000 AR ₂₀₅
2000 AK ₂₀₇	13.9	0.15	20000226	285.25023	149.30421	75.48211	0.27784	0.1116199	3.1756566	39	1	69 days	0.39	M-v	4	Williams		2000 AK ₂₀₇
2000 AL ₂₀₇	17.3	0.15	20000117	21.86505	149.51842	309.65103	2.33657	0.1250156	2.3187365	26	1	39 days	0.38			Marsden		2000 AL ₂₀₇
2000 AM ₂₀₇	14.0	0.15	20000226	92.61096	99.49657	311.79913	8.17969	0.0614027	2.9583028	26	1	60 days	0.48	M-v	5	Williams		2000 AM ₂₀₇
2000 AN ₂₀₇	15.3	0.15	20000226	324.68524	254.24561	306.76607	5.09465	0.1720132	2.7700089	27	1	66 days	0.49	M-v	5	Williams		2000 AN ₂₀₇
2000 AQ ₂₀₇	15.5	0.15	20000226	37.57996	310.43493	143.02180	5.79108	0.2402812	2.6877675	26	1	62 days	0.47	M-v	5	Williams		2000 AQ ₂₀₇
2000 AC ₂₀₉	14.8	0.15	20000226	25.89648	345.87682	123.02208	10.14546	0.0543430	2.7399378	25	1	60 days	0.66	M-v	5	Williams		2000 AC ₂₀₉
2000 AD ₂₀₉	15.3	0.15	20000226	25.58532	350.01351	118.59403	4.38047	0.0955589	2.3707463	80	1	88 days	0.52	M-v	4	Williams	38885	2000 AD ₂₀₉
2000 AW ₂₁₁	13.3	0.15	20000226	117.95184	61.01771	315.33059	12.94176	0.1852364	2.5687704	37	1	68 days	0.45	M-v	4	Williams		2000 AW ₂₁₁
2000 AC ₂₁₂	16.3	0.15	20000226	32.39137	327.84821	141.19832	6.30282	0.1728523	2.3707934	26	1	67 days	0.53	M-v	5	Williams		2000 AC ₂₁₂
2000 AD ₂₁₂	14.6	0.15	20000226	245.30121	135.05297	145.36015	8.98907	0.1289499	2.3068171	42	2	1994–2000	0.49	M-v	4	Williams	38708	2000 AD ₂₁₂
2000 AG ₂₁₂	14.4	0.15	20000226	121.51185	66.34536	308.75865	1.61199	0.1954252	2.7305160	23	1	66 days	0.55	M-v	5	Williams		2000 AG ₂₁₂
2000 AJ ₂₁₂	15.1	0.15	20000226	187.04060	8.40864	320.44261	5.25151	0.2219481	2.1985748	29	1	66 days	0.60	M-v	6	Williams		2000 AJ ₂₁₂
2000 AK ₂₁₂	15.3	0.15	20000226	241.29219	321.63442	321.36603	6.40685	0.1038196	2.3106447	24	1	66 days	0.38	M-v	5	Williams		2000 AK ₂₁₂
2000 AM ₂₁₂	16.2	0.15	20000226	19.18309	352.11030	137.84223	3.19731	0.1606357	2.4199570	47	1	66 days	0.60	M-v	5	Williams		2000 AM ₂₁₂
2000 AO ₂₁₂	17.5	0.15	19991208	14.43977	149.86764	255.73844	5.87602	0.1769514	2.3229223	14	1	59 days	0.45			Williams		2000 AO ₂₁₂
2000 AG ₂₁₄	16.5	0.15	20000117	43.52360	287.88811	134.03362	5.04463	0.2046849	2.2884797	26	1	36 days	0.52			Marsden		2000 AG ₂₁₄
2000 AK ₂₁₄	15.1	0.15	20000226	91.05412	238.00500	159.10480	1.86088	0.0616455	2.6629654	31	3	1993–2000	0.74	M-v	4	Williams	38708	2000 AK ₂₁₄
2000 AW ₂₁₅	13.8	0.15	20000226	77.65530	242.46745	179.66660	1.98395	0.0992654	2.9460596	52	3	1978–2000	0.54	M-v	3	Williams	38709	2000 AW ₂₁₅
2000 AA ₂₁₆	14.6	0.15	20000226	230.15837	338.74574	315.00234	5.61343	0.1541544	2.4175853	42	3	1960–2000	0.63	M-v	4	Williams	38709	2000 AA ₂₁₆
2000 AB ₂₁₆	15.1	0.15	20000117	101.92715	236.20918	144.22016	12.32732	0.2098182	2.6147975	21	1	53 days	0.44			Williams		2000 AB ₂₁₆
2000 AK ₂₁₆	17.7	0.15	19991208	29.12939	126.57382	259.03400	5.73771	0.1839018	2.2303495	21	1	57 days	0.43			Williams		2000 AK ₂₁₆
2000 AB ₂₁₈	16.0	0.15	19991228	331.27681	33.68331	104.82978	16.90249	0.1194679	2.6512061	20	1	9 days	0.48		D	Williams		2000 AB ₂₁₈
2000 AT ₂₁₉	17.2	0.15	20000117	354.98646	171.93044	310.02296	5.26090	0.0141666	2.7142976	8	1	28 days	0.21			Williams		2000 AT ₂₁₉
2000 AY ₂₂₁	15.0	0.15	20000117	271.57593	278.01664	310.83122	6.55373	0.2054804	2.5918763	13	1	8 days	0.32		D	Nakano		2000 AY ₂₂₁
2000 AD ₂₂₂	14.9	0.15	20000117	233.22678	343.28789	295.59363	2.42081	0.0978905	2.7323586	19	1	55 days	0.49			Williams		2000 AD ₂₂₂
2000 AF ₂₂₂	13.1	0.15	20000226	19.87350	193.56545	296.40356	2.08033	0.0524309	3.1069045	90	2	1998–2000	0.54	M-v	3	Williams	38709	2000 AF ₂₂₂
2000 AU ₂₂₆	14.3	0.15	20000226	108.50389	88.81468	287.26304	2.11812	0.1003914	2.8120866	28	2	1998–2000	0.58	M-v	4	Williams	38710	2000 AU ₂₂₆
2000 AA ₂₂₇	14.8	0.15	20000117	138.62223	29.52727	312.21971	11.25839	0.1588306	2.7314116	25	1	59 days	0.44			Williams		2000 AA ₂₂₇
2000 AF ₂₂₇	13.2	0.15	20000226	326.50608	234.12248	319.96452	4.12597	0.1107170	3.1160901	77	1	97 days	0.38	M-v	4	Williams	38885	2000 AF ₂₂₇
2000 AJ ₂₂₇	15.5	0.15	20000206	176.99632	9.07818	320.90378	4.08678	0.1496896	2.3630574	14	1	53 days	0.41			Williams		2000 AJ ₂₂₇
2000 AK ₂₂₇	14.9	0.15	20000226	83.80869	94.28416	316.76995	5.40913	0.1521492	2.2686629	49	1	61 days	0.57	M-v	5	Williams		2000 AK ₂₂₇
2000 AO ₂₂₇	14.7	0.15	20000226	342.62464	205.54241	325.46904	3.54562	0.0089294	2.7862087	35	1	61 days	0.52	M-v	5	Williams		2000 AO ₂₂₇
2000 AR ₂₂₇	16.0	0.15	20000226	69.91541	110.84675	319.80894	5.27443	0.1082513	2.3359715	20	1	61 days	0.38	M-v	5	Williams		2000 AR ₂₂₇
2000 AT ₂₂₇	16.6	0.15	20000226	343.64838	212.58950	324.28906	4.49815	0.1454052	2.3865054	18	1	61 days	0.43	M-v	5	Williams		2000 AT ₂₂₇
2000 AW ₂₂₇	16.5	0.15	20000206	231.98504	138.54852	139.60379	24.31565	0.0654590	1.9716970	28	1	57 days	0.94			Williams		2000 AW ₂₂₇
2000 AL ₂₂₈	15.2	0.15	20000206	235.33258	324.10438	299.72788	1.37843	0.0631633	2.6695957	32	1	57 days	0.60			Williams		2000 AL ₂₂₈
2000 AB ₂₂₉	14.0	0.15	20000226	0.19858	171.74069	313.96640	68.71939	0.9560201	52.0553131	194	1	64 days	0.52	M-v	2	Williams	38886	2000 AB ₂₂₉
2000 AC ₂₂₉	16.7	0.15	20000226	3.64615	358.29486	112.95079	52.30074	0.5589663	4.1388197	78	1	49 days	0.52	M-v	4	Williams	38886	2000 AC ₂₂₉
2000 AK ₂₃₀	15.6	0.15	20000117	19.22989	26.77896	73.45539	10.41910	0.1546199	2.7351074	17	1	59 days	0.75			Williams		2000 AK ₂₃₀
2000 AP ₂₃₀	14.5	0.15	20000226	334.41974	189.55881	342.90971	9.74954	0.1122749	2.7954263	46	1	61 days	0.50	M-v	4	Williams		2000 AP ₂₃₀
2000 AC ₂₃₁	14.4	0.15	20000226	14.68669	331.97987	143.18579	13.27533	0.1705743	2.5594465	43	4	1992–2000	0.59	M-v	3	Williams	38710	2000 AC ₂₃₁
2000 AD ₂₃₁	12.5	0.15	20000226	226.36392	122.12235	145.09999	17.46850	0.1941656	3.1448788	41	1	61 days	0.38	M-v	5	Williams		2000 AD ₂₃₁
2000 AN ₂₃₂	14.9	0.15	20000226	57.96244	129.30404	301.64877	5.09684	0.0509485	2.7991732	23	1	66 days	0.57	M-v	5	Williams		2000 AN ₂₃₂
2000 AC ₂₃₃	15.6	0.15	20000226	340.09964	170.25780	358.08990	5.25835	0.1292855	2.3625333	34	2	1982–2000	0.43	M-v	4	Williams	38711	2000 AC ₂₃₃
2000 AD ₂₃₃	15.1	0.15	20000226	355.08663	92.29705	58.04373	3.45171	0.1163757	2.4102156	69	1	96 days	0.49	M-v	3	Williams	38886	2000 AD ₂₃₃
2000 AG ₂₃₃	14.9	0.15	20000226	61.93026	334.91634	98.59490	6.73565	0.1441484	2.3508871	44	1	68 days	0.39	M-v	4	Williams		2000 AG ₂₃₃

2000 MAR. 20

M.P.C. 39583

2000 AK ₂₃₃	13.0	0.15	20000226	125.07942	253.83448	132.87352	11.47740	0.1681512	2.6664938	35	1	68 days	0.48	M-v	4	Williams	2000 AK ₂₃₃
2000 AL ₂₃₃	12.0	0.15	20000226	43.26385	327.57020	119.94226	1.72534	0.0435730	5.1146632	26	1	65 days	0.51	M-v	5	Williams	2000 AL ₂₃₃
2000 AO ₂₃₃	14.9	0.15	20000226	357.37379	178.98115	350.96474	12.00121	0.1827267	2.6100925	37	1	67 days	0.39	M-v	4	Williams	2000 AO ₂₃₃
2000 AP ₂₃₃	15.4	0.15	20000226	357.36760	25.67132	131.71789	2.77723	0.0702703	2.1671203	57	3	1997–2000	0.63	M-v	3	Williams	38711 2000 AP ₂₃₃
2000 AP ₂₃₅	13.6	0.15	20000206	146.51766	207.68811	119.44459	6.69745	0.1453451	3.0496124	13	1	32 days	0.53		D	Nakano	2000 AP ₂₃₅
2000 AX ₂₃₅	14.7	0.15	20000117	34.70751	321.15466	121.34512	12.59154	0.0792759	2.9890033	34	1	59 days	0.61			Williams	2000 AX ₂₃₅
2000 AG ₂₃₆	14.6	0.15	20000226	10.37039	209.80669	275.87616	11.60530	0.1307368	2.7301011	34	1	92 days	0.63	M-v	4	Williams	2000 AG ₂₃₆
2000 AQ ₂₃₆	13.2	0.15	20000226	66.69792	142.61600	303.41240	15.08384	0.0551534	3.1563995	49	3	1991–2000	0.59	M-v	3	Williams	38712 2000 AQ ₂₃₆
2000 AT ₂₃₆	14.4	0.15	20000226	359.26573	264.95590	254.23521	4.93937	0.0950113	2.2801196	48	2	1998–2000	0.71	M-v	4	Williams	38712 2000 AT ₂₃₆
2000 AU ₂₃₆	14.7	0.15	20000226	7.81846	236.22961	273.44059	6.32213	0.0536266	2.3452255	44	2	1998–2000	0.54	M-v	3	Williams	38712 2000 AU ₂₃₆
2000 AV ₂₃₆	13.5	0.15	20000226	175.89287	93.55210	246.56444	4.96979	0.1568294	2.3951847	48	3	1979–2000	0.54	M-v	3	Williams	38712 2000 AV ₂₃₆
2000 AX ₂₃₆	15.3	0.15	20000226	355.33231	186.84030	317.23926	4.36776	0.1162980	3.1432163	9	1	65 days	0.17	M-v	7	Williams	2000 AX ₂₃₆
2000 AA ₂₃₇	15.0	0.15	20000226	353.93783	262.87822	268.58099	5.72484	0.1347057	2.2268118	30	1	68 days	0.81	M-v	4	Williams	2000 AA ₂₃₇
2000 AF ₂₃₇	13.2	0.15	20000226	359.26170	348.45522	177.15187	12.76854	0.0986867	2.7515890	50	1	86 days	0.65	M-v	4	Williams	2000 AF ₂₃₇
2000 AJ ₂₃₇	13.0	0.15	20000226	33.27765	186.89514	301.44442	9.16275	0.0674933	3.1501349	44	2	1998–2000	0.65	M-v	3	Williams	38712 2000 AJ ₂₃₇
2000 AL ₂₃₇	13.5	0.15	20000226	1.28375	359.77909	163.90322	13.08444	0.0984694	2.5675878	51	1	86 days	0.51	M-v	4	Williams	2000 AL ₂₃₇
2000 AN ₂₃₇	14.0	0.15	20000226	31.10136	342.64262	128.07297	10.30286	0.1773063	2.7548940	45	1	97 days	0.47	M-v	4	Williams	38886 2000 AN ₂₃₇
2000 AO ₂₃₇	12.9	0.15	20000226	279.87590	275.74983	331.99427	14.22194	0.1170016	2.5964427	83	3	1993–2000	0.56	M-v	3	Williams	38713 2000 AO ₂₃₇
2000 AP ₂₃₇	12.9	0.15	20000226	110.96986	226.59856	154.56957	13.42452	0.1918494	2.9173575	47	1	97 days	0.37	M-v	4	Williams	2000 AP ₂₃₇
2000 AR ₂₃₇	13.2	0.15	20000226	83.92609	93.74589	333.67074	12.51941	0.1573639	2.6130945	61	3	1987–2000	0.61	M-v	2	Williams	38713 2000 AR ₂₃₇
2000 AS ₂₃₇	12.7	0.15	20000226	330.51733	251.53661	328.22351	10.38984	0.2153711	3.0439811	17	1	68 days	0.56	M-v	5	Williams	2000 AS ₂₃₇
2000 AT ₂₃₇	12.9	0.15	20000226	318.81812	47.95944	170.10904	12.07728	0.0315584	3.0598738	41	1	69 days	0.72	M-v	5	Williams	2000 AT ₂₃₇
2000 AW ₂₃₇	14.2	0.15	20000226	258.20909	317.30532	302.36568	4.05040	0.1595336	2.6084816	34	2	1993–2000	0.69	M-v	4	Williams	38713 2000 AW ₂₃₇
2000 AQ ₂₃₈	14.6	0.15	20000226	42.89614	14.09231	74.68921	3.63431	0.2023948	2.3816927	54	1	99 days	0.55	M-v	4	Williams	38886 2000 AQ ₂₃₈
2000 AA ₂₃₉	15.7	0.15	20000117	341.35503	27.31520	115.28650	2.43773	0.1458488	3.0096635	13	1	28 days	0.48		D	Williams	2000 AA ₂₃₉
2000 AR ₂₃₉	13.6	0.15	20000226	350.27334	60.50581	115.50415	17.12011	0.2079357	2.7620828	28	1	89 days	0.68	M-v	4	Williams	2000 AR ₂₃₉
2000 AS ₂₃₉	13.4	0.15	20000226	339.57324	91.90988	99.96772	12.24403	0.2098691	2.6586664	23	1	89 days	0.56	M-v	4	Williams	2000 AS ₂₃₉
2000 AY ₂₃₉	14.6	0.15	20000226	90.72405	181.51415	212.59421	1.31739	0.1021162	2.9280948	51	2	1998–2000	0.73	M-v	4	Williams	38713 2000 AY ₂₃₉
2000 AZ ₂₃₉	14.1	0.15	20000226	293.03909	244.84360	358.56850	4.83309	0.0803568	2.4486773	51	1	68 days	0.51	M-v	5	Williams	2000 AZ ₂₃₉
2000 AB ₂₄₀	15.2	0.15	20000226	31.59344	329.62448	145.86029	8.24768	0.2082848	2.3759676	35	1	69 days	0.52	M-v	4	Williams	2000 AB ₂₄₀
2000 AD ₂₄₀	13.6	0.15	20000226	319.32512	243.30563	331.27252	7.39490	0.0717340	2.6109749	39	1	68 days	0.67	M-v	5	Williams	2000 AD ₂₄₀
2000 AD ₂₄₁	14.1	0.15	20000117	18.55292	237.82158	179.00535	14.87406	0.1208433	2.6402845	12	1	33 days	0.39			Williams	2000 AD ₂₄₁
2000 AX ₂₄₁	15.0	0.15	20000226	2.72439	330.87894	167.33818	14.44266	0.1419279	2.5705122	32	2	1998–2000	0.77	M-v	4	Williams	38714 2000 AX ₂₄₁
2000 AB ₂₄₂	13.6	0.15	20000226	303.69040	0.50700	217.41815	10.67380	0.1569915	2.9842872	34	1	83 days	0.67	M-v	5	Williams	2000 AB ₂₄₂
2000 AN ₂₄₂	13.4	0.15	20000226	138.66062	17.57932	351.15878	12.52525	0.0408388	2.7438149	48	3	1993–2000	0.61	M-v	3	Williams	38714 2000 AN ₂₄₂
2000 AQ ₂₄₂	14.6	0.15	20000226	92.10395	293.83612	106.96817	5.30807	0.1663659	2.1787111	54	3	1992–2000	0.59	M-v	2	Williams	38714 2000 AQ ₂₄₂
2000 AR ₂₄₂	13.0	0.15	20000226	291.17105	126.11513	122.46887	9.57280	0.2346376	2.7595038	59	1	117 days	0.41	M-v	4	Williams	38887 2000 AR ₂₄₂
2000 AS ₂₄₂	12.9	0.15	20000226	291.00492	92.77736	144.15385	13.63597	0.1202004	3.1602998	79	4	1979–2000	0.61	M-v	1	Williams	38714 2000 AS ₂₄₂
2000 AU ₂₄₂	13.6	0.15	20000226	348.77360	335.89732	208.22880	9.46044	0.4884216	4.8003230	94	1	61 days	0.52	M-v	4	Williams	38887 2000 AU ₂₄₂
2000 AC ₂₄₃	14.2	0.15	20000226	358.88727	311.50784	206.53698	7.75672	0.2211773	2.7422120	39	1	90 days	0.47	M-v	3	Williams	2000 AC ₂₄₃
2000 AD ₂₄₃	13.9	0.15	20000226	7.09728	237.39872	266.37203	10.52898	0.1197031	2.5824846	33	1	85 days	0.43	M-v	3	Williams	2000 AD ₂₄₃
2000 AE ₂₄₃	12.2	0.15	20000226	231.03922	66.55020	220.15643	9.13341	0.0792253	2.9877345	42	1	90 days	0.55	M-v	5	Williams	2000 AE ₂₄₃
2000 AG ₂₄₃	15.3	0.15	20000226	48.39570	303.59267	142.92147	26.36020	0.1691418	1.9255872	66	2	1984–2000	0.41	M-v	3	Williams	38714 2000 AG ₂₄₃
2000 AH ₂₄₃	15.0	0.15	20000226	13.27545	229.32945	266.36398	9.72680	0.1603345	2.6188946	33	1	99 days	0.46	M-v	4	Williams	2000 AH ₂₄₃
2000 AK ₂₄₃	12.7	0.15	20000226	22.27575	281.43282	199.73974	10.72400	0.1223663	3.1834534	25	1	85 days	0.54	M-v	4	Williams	2000 AK ₂₄₃
2000 AO ₂₄₃	15.6	0.15	20000226	357.88337	125.84903	35.30024	4.05856	0.1305290	2.2307688	35	1	65 days	0.44	M-v	4	Williams	2000 AO ₂₄₃
2000 AP ₂₄₃	12.1	0.15	20000226	127.35995	269.52929	118.58899	8.86839	0.0430907	3.1629964	47	1	99 days	0.55	M-v	4	Williams	2000 AP ₂₄₃
2000 AV ₂₄₃	14.0	0.15	20000226	308.81113	240.19498	356.05036	11.83987	0.2164764	2.6846341	42	4	1988–2000	0.61	M-v	2	Williams	38715 2000 AV ₂₄₃
2000 AW ₂₄₃	14.6	0.15	20000226	12.70211	24.26756	122.33314	11.73789	0.1945852	2.5337274	27	1	65 days	0.45	M-v	4	Williams	2000 AW ₂₄₃
2000 AA ₂₄₄	14.8	0.15	20000226	24.38487	80.36957	49.51860	6.97982	0.1251972	2.2374775	41	3	1987–2000	0.67	M-v	4	Williams	38715 2000 AA ₂₄₄
2000 AX ₂₄₄	14.5	0.15	20000226	35.78422	267.31285	197.48131	3.84606	0.1052890	2.4754948	51	2	1998–2000	0.54	M-v	3	Williams	38715 2000 AX ₂₄₄
2000 AZ ₂₄₄	14.3	0.15	20000226	43.71062	311.28842	144.92695	12.40728	0.2184796	2.6607595	42	1	64 days	0.49	M-v	5	Williams	2000 AZ ₂₄₄
2000 AK ₂₄₅	13.0	0.15	20000226	21.14468	245.99303	186.73959	15.11129	0.1689204	2.5725276	37	3	1992–2000	0.64	M-v	3	Williams	38715 2000 AK ₂₄₅

2000 AM ₂₄₅	14.2	0.15	19991228	294.70244	41.04804	115.26743	31.85633	0.1288413	2.9438328	13	1	5 days	0.52		Williams		2000 AM ₂₄₅
2000 AO ₂₄₅	13.1	0.15	20000226	355.52074	268.25943	264.33740	8.28276	0.1209476	2.8981942	47	3	1985–2000	0.78	M-v	3	Williams	38715 2000 AO ₂₄₅
2000 AB ₂₄₆	17.5	0.15	20000226	30.97398	311.72265	29.78714	3.74842	0.4954157	2.3108379	26	1	58 days	0.50	M-v	7	Williams	2000 AB ₂₄₆
2000 AG ₂₄₆	13.8	0.15	19991228	3.66823	133.05331	28.83533	9.37025	0.1423636	3.0189773	9	1	4 days	0.34		E	Williams	2000 AG ₂₄₆
2000 AK ₂₄₆	14.0	0.15	19991228	110.35796	323.86856	76.15650	6.18890	0.1465432	2.1232764	13	1	5 days	0.42			Williams	2000 AK ₂₄₆
2000 BC	14.2	0.15	20000226	333.67127	66.04311	131.34279	6.21206	0.0997139	2.6184086	36	1	68 days	0.51	M-v	4	Williams	2000 BC
2000 BH	14.3	0.15	20000226	14.12007	171.66536	285.76689	0.90887	0.0725589	2.6966138	44	1	96 days	0.63	M-v	4	Williams	38887 2000 BH
2000 BO	15.5	0.15	20000226	44.88103	303.44305	129.65575	14.33332	0.2560602	2.6712365	57	1	61 days	0.67	M-v	4	Marsden	2000 BO
2000 BU	14.8	0.15	20000117	350.70103	334.91990	154.70214	6.62577	0.1313485	3.0412876	32	1	58 days	0.69			Williams	2000 BU
2000 BD ₁	14.8	0.15	20000226	38.45185	286.30678	170.70740	27.09461	0.2666924	1.9688047	40	1	71 days	0.53	M-v	4	Williams	2000 BD ₁
2000 BV ₁	12.5	0.15	20000206	124.15548	214.86073	152.31814	3.77187	0.0857423	5.1425085	9	1	42 days	0.28			Williams	2000 BV ₁
2000 BY ₁	15.0	0.15	20000206	99.79501	253.11537	139.73641	11.17594	0.0591601	3.0408977	13	1	36 days	0.28			Williams	2000 BY ₁
2000 BC ₂	14.5	0.15	20000206	102.32138	237.99054	163.21739	8.18960	0.0926076	2.6694050	34	1	44 days	0.44			Williams	2000 BC ₂
2000 BE ₂	15.5	0.15	20000226	101.82263	259.02165	119.94666	6.00812	0.1934881	2.2558566	31	1	60 days	0.77	M-v	5	Marsden	2000 BE ₂
2000 BF ₂	13.5	0.15	20000226	254.28298	189.99629	71.25275	2.02171	0.1465502	3.1730279	44	5	1989–2000	0.70	M-v	1	Williams	38715 2000 BF ₂
2000 BG ₂	15.6	0.15	20000206	348.20121	201.66219	313.82216	3.11637	0.1745638	2.3352422	42	1	40 days	0.46			Williams	2000 BG ₂
2000 BH ₂	14.2	0.15	20000206	312.78443	221.09655	337.64274	2.99054	0.1120469	3.2001835	42	1	43 days	0.55			Williams	2000 BH ₂
2000 BK ₂	16.7	0.15	20000226	356.77097	174.89908	322.02472	6.63008	0.5580927	3.5224280	23	1	77 days	0.38	M-v	4	Williams	38887 2000 BK ₂
2000 BW ₂	15.7	0.15	20000206	322.73083	211.73115	333.05806	3.99107	0.1331446	2.4122330	28	1	34 days	1.13			Williams	2000 BW ₂
2000 BA ₃	13.5	0.15	20000206	231.21959	154.64769	116.10007	4.34583	0.1620514	3.0224254	23	1	37 days	0.85			Williams	2000 BA ₃
2000 BB ₃	14.5	0.15	20000206	150.92525	199.56756	137.00951	9.58432	0.1857968	2.4258652	39	1	30 days	0.66			Williams	2000 BB ₃
2000 BC ₃	15.8	0.15	20000226	84.95807	342.10396	65.21119	2.28103	0.0965909	2.2377300	40	2	1995–2000	0.66	M-v	5	Williams	38716 2000 BC ₃
2000 BD ₃	15.2	0.15	20000226	314.17369	181.17128	21.78669	2.48929	0.1415231	2.4230086	41	1	62 days	0.51	M-v	5	Williams	2000 BD ₃
2000 BE ₃	15.7	0.15	20000206	330.54998	75.88311	113.07319	4.03755	0.2694686	3.0597537	37	1	37 days	0.72			Williams	2000 BE ₃
2000 BF ₃	15.1	0.15	20000226	300.54472	263.24605	313.31344	1.95822	0.1157224	2.3928003	56	2	1998–2000	0.47	M-v	4	Williams	38716 2000 BF ₃
2000 BH ₃	14.3	0.15	20000226	329.82226	72.92227	100.80155	13.66224	0.0631034	2.5396979	25	1	95 days	0.64	M-v	4	Williams	2000 BH ₃
2000 BJ ₃	13.0	0.15	20000226	253.58185	242.90429	11.97388	9.65199	0.1163576	3.0747466	23	1	61 days	0.52	M-v	5	Williams	2000 BJ ₃
2000 BK ₃	13.9	0.15	20000226	281.74039	229.23275	347.93594	12.80597	0.0126477	2.6699324	25	1	61 days	0.79	M-v	5	Williams	2000 BK ₃
2000 BM ₃	14.4	0.15	20000226	7.18827	167.83183	328.67874	8.46291	0.1377157	2.6621120	98	1	119 days	0.56	M-v	3	Williams	2000 BM ₃
2000 BN ₃	13.7	0.15	20000226	5.90250	63.35663	74.46967	2.58231	0.1308187	3.1142548	50	1	89 days	0.51	M-v	4	Williams	2000 BN ₃
2000 BO ₃	13.6	0.15	20000206	108.02127	352.14346	20.48813	7.28492	0.1179522	2.2877837	13	1	35 days	0.57			Nakano	2000 BO ₃
2000 BP ₃	12.8	0.15	20000226	325.32471	123.25686	68.37228	2.67300	0.0996770	3.1513530	77	3	1989–2000	0.75	M-v	3	Williams	38716 2000 BP ₃
2000 BQ ₃	13.8	0.15	20000226	49.31409	337.98205	115.88321	5.63706	0.0706869	2.7976001	89	3	1981–2000	0.62	M-v	2	Williams	38716 2000 BQ ₃
2000 BR ₃	14.8	0.15	20000226	30.16122	112.26522	356.42049	3.44973	0.1253120	2.3066951	79	3	1995–2000	0.64	M-v	2	Williams	38716 2000 BR ₃
2000 BS ₃	14.6	0.15	20000226	344.58259	116.67899	52.79266	2.95852	0.1602135	2.3896247	55	3	1976–2000	0.63	M-v	3	Williams	38717 2000 BS ₃
2000 BT ₃	13.4	0.15	20000226	271.45281	131.27676	112.49584	8.85563	0.0445386	2.7702018	51	1	117 days	0.58	M-v	5	Williams	2000 BT ₃
2000 BU ₃	14.7	0.15	20000226	357.84477	79.48110	73.58846	4.43892	0.0171230	2.1943785	80	3	1971–2000	0.65	M-v	3	Williams	38717 2000 BU ₃
2000 BV ₃	12.5	0.15	20000226	105.04178	285.91809	114.04260	9.78928	0.0499839	2.7825323	97	5	1989–2000	0.64	M-v	2	Williams	38717 2000 BV ₃
2000 BW ₃	13.9	0.15	20000226	219.44160	180.75780	113.94016	5.97501	0.1080847	2.4731920	78	3	1994–2000	0.54	M-v	3	Marsden	38717 2000 BW ₃
2000 BX ₃	13.4	0.15	20000226	10.14233	145.49494	351.06701	12.80816	0.1237196	2.6713526	66	2	1998–2000	0.57	M-v	3	Williams	38718 2000 BX ₃
2000 BY ₃	14.1	0.15	20000226	4.18312	88.98362	72.45651	12.70445	0.1354647	2.5433671	73	3	1978–2000	0.46	M-v	3	Williams	38718 2000 BY ₃
2000 BZ ₃	15.2	0.15	20000206	8.93410	149.69055	334.81499	4.46588	0.1938648	3.1045127	48	1	41 days	0.84			Williams	2000 BZ ₃
2000 BA ₄	13.9	0.15	20000206	109.87012	61.37788	333.10172	10.62019	0.0310482	3.0819792	54	1	43 days	0.78			Williams	2000 BA ₄
2000 BB ₄	13.2	0.15	20000226	127.98309	234.25023	142.50257	10.48559	0.1603161	2.9836745	43	3	1992–2000	0.68	M-v	4	Williams	38718 2000 BB ₄
2000 BX ₆	12.1	0.15	20000206	178.67616	267.91824	24.82878	17.50164	0.1516733	3.1242354	22	1	30 days	0.32			Williams	2000 BX ₆
2000 BY ₆	13.5	0.15	20000206	310.90875	169.05073	11.04645	14.85499	0.1205636	2.7197790	23	1	30 days	0.40			Williams	2000 BY ₆
2000 BN ₉	15.0	0.15	20000117	60.52717	271.93890	134.59977	12.97378	0.1965330	2.6260881	24	1	16 days	0.52			Marsden	2000 BN ₉
2000 BQ ₉	17.7	0.15	20000117	36.59794	289.35942	149.55625	1.41577	0.1573597	2.4348618	11	1	11 days	0.26			Marsden	2000 BQ ₉
2000 BS ₉	14.7	0.15	20000226	282.60058	95.52764	137.96790	5.03078	0.1449227	2.5335753	50	3	1996–2000	0.61	M-v	4	Williams	38718 2000 BS ₉
2000 BA ₁₀	15.0	0.15	20000117	264.09350	115.88287	134.68128	6.74635	0.2050444	3.1127324	11	1	15 days	0.14			Marsden	2000 BA ₁₀
2000 BE ₁₀	16.9	0.15	20000117	170.11894	3.94490	315.23896	2.18573	0.1460961	2.3228910	14	1	15 days	0.24			Marsden	2000 BE ₁₀
2000 BJ ₁₀	15.5	0.15	20000117	187.87591	350.33466	317.72743	3.39899	0.2141193	2.5896084	14	1	15 days	0.20			Marsden	2000 BJ ₁₀
2000 BM ₁₀	16.4	0.15	19991228	232.13116	136.75891	109.97464	2.90760	0.0581751	2.2835313	9	1	31 days	0.35			Williams	2000 BM ₁₀

2000 MAR. 20

M.P.C. 39585

2000 BO ₁₀	16.2	0.15	20000117	329.40016	48.08947	115.40176	7.26791	0.1683757	3.0892733	8	1	8 days	0.25		Williams	2000 BO ₁₀
2000 BS ₁₀	15.5	0.15	20000117	95.05614	246.77730	120.01475	6.53434	0.2065081	2.2506742	33	1	58 days	0.56		Williams	2000 BS ₁₀
2000 BX ₁₀	15.3	0.15	20000117	35.03268	308.46825	136.46817	6.83525	0.0745951	2.3837623	39	1	48 days	0.64		Williams	2000 BX ₁₀
2000 BD ₁₁	15.6	0.15	20000226	2.09949	100.40656	46.48655	6.08399	0.1335078	2.3530464	34	2	1993–2000	0.37	M-v 4	Williams	38718 2000 BD ₁₁
2000 BD ₁₂	15.9	0.15	20000226	132.35859	53.66060	309.48629	1.02662	0.0784341	2.8378225	21	2	1998–2000	0.31	M-v 5	Williams	38718 2000 BD ₁₂
2000 BG ₁₂	14.3	0.15	20000206	109.72580	244.63342	137.37360	7.42496	0.0646633	3.1253405	34	1	38 days	0.59		Williams	2000 BG ₁₂
2000 BJ ₁₂	15.5	0.15	20000206	254.58759	130.30704	132.07611	2.63930	0.1782526	2.4666691	15	1	32 days	0.47		Williams	2000 BJ ₁₂
2000 BP ₁₂	14.4	0.15	20000206	307.92280	215.44868	353.17355	1.11457	0.1602165	3.1889067	40	1	40 days	0.50		Williams	2000 BP ₁₂
2000 BR ₁₂	15.8	0.15	20000206	308.64427	173.47240	27.95320	0.78498	0.0995072	3.1738968	20	1	33 days	0.31		Williams	2000 BR ₁₂
2000 BU ₁₂	15.2	0.15	20000206	51.91170	306.75758	133.19495	8.25625	0.0911534	2.7319741	23	1	32 days	0.51		Williams	2000 BU ₁₂
2000 BA ₁₃	15.1	0.15	20000206	250.53728	170.63217	103.33105	1.99819	0.2347382	3.0663191	9	1	35 days	0.29		Williams	2000 BA ₁₃
2000 BB ₁₃	16.1	0.15	20000206	2.33661	171.21356	326.46226	6.92424	0.1266474	2.5989210	29	1	36 days	0.47		Williams	2000 BB ₁₃
2000 BE ₁₃	14.8	0.15	20000226	323.13030	213.07506	340.22399	2.64905	0.1208808	2.3966215	88	1	116 days	0.48	M-v 4	Williams	2000 BE ₁₃
2000 BH ₁₃	14.7	0.15	20000226	47.38709	297.10841	139.93571	1.81619	0.1497499	3.1531013	32	2	1998–2000	0.66	M-v 4	Marsden	38719 2000 BH ₁₃
2000 BJ ₁₃	17.6	0.15	20000117	70.81609	267.19461	134.67672	2.71717	0.1423182	2.2649317	15	1	10 days	0.81		Williams	2000 BJ ₁₃
2000 BO ₁₃	16.8	0.15	20000226	352.02452	194.67777	318.11250	3.94115	0.2405854	2.4212858	33	1	68 days	0.44	M-v 4	Williams	2000 BO ₁₃
2000 BT ₁₃	14.4	0.15	20000226	262.74833	314.75982	297.11192	1.24378	0.1601938	2.6975290	41	1	64 days	0.57	M-v 5	Williams	2000 BT ₁₃
2000 BW ₁₃	15.9	0.15	20000117	306.18200	238.70022	318.46626	12.42043	0.1192856	2.5695483	28	1	59 days	0.55		Williams	2000 BW ₁₃
2000 BX ₁₃	16.2	0.15	20000206	248.34474	309.20888	325.48888	5.82204	0.0939918	2.3354600	25	1	42 days	0.57		Williams	2000 BX ₁₃
2000 BY ₁₃	14.1	0.15	20000117	59.83729	306.88765	102.27849	11.37658	0.1127504	2.9763467	32	1	53 days	0.82		Williams	2000 BY ₁₃
2000 BZ ₁₃	14.9	0.15	20000226	334.50468	99.80645	81.27494	3.19822	0.1443668	2.3696715	50	2	1991–2000	0.60	M-v 4	Williams	38719 2000 BZ ₁₃
2000 BA ₁₄	15.2	0.15	20000226	332.09107	148.28200	35.02289	1.20310	0.1596644	2.3756482	52	1	89 days	0.50	M-v 5	Williams	2000 BA ₁₄
2000 BB ₁₄	16.2	0.15	20000206	9.83016	162.36587	321.72071	9.79717	0.1679791	2.4288407	41	1	33 days	0.70		Williams	2000 BB ₁₄
2000 BC ₁₄	13.6	0.15	20000226	170.14280	208.76669	121.85226	6.30239	0.1053939	2.4772731	49	3	1990–2000	0.49	M-v 4	Williams	38719 2000 BC ₁₄
2000 BD ₁₄	14.4	0.15	20000226	248.92300	297.49743	331.80726	7.25141	0.1615843	2.5287902	47	1	65 days	0.52	M-v 5	Williams	2000 BD ₁₄
2000 BE ₁₄	14.0	0.15	20000226	305.42254	88.44759	129.28658	14.15336	0.1055143	2.5672844	51	1	68 days	0.52	M-v 4	Williams	2000 BE ₁₄
2000 BF ₁₄	15.4	0.15	20000206	53.66649	85.29085	344.42927	2.72278	0.1454301	2.5231982	28	1	32 days	1.02		Williams	2000 BF ₁₄
2000 BJ ₁₄	12.3	0.15	20000226	255.08733	275.18197	357.16564	12.43944	0.1614097	3.0481280	84	5	1991–2000	0.63	M-v 1	Williams	38719 2000 BJ ₁₄
2000 BK ₁₄	15.7	0.15	20000206	32.59914	345.90145	102.17733	8.78873	0.2932313	2.7814149	35	1	44 days	0.73		Williams	2000 BK ₁₄
2000 BN ₁₄	13.9	0.15	20000226	88.75184	289.86968	124.17983	11.87130	0.0881646	2.5337828	41	1	98 days	0.56	M-v 4	Williams	2000 BN ₁₄
2000 BO ₁₄	13.1	0.15	20000226	306.45379	172.41132	44.61168	7.24700	0.1017743	3.1454571	44	3	1997–2000	0.65	M-v 3	Williams	38719 2000 BO ₁₄
2000 BP ₁₄	15.2	0.15	20000226	61.76855	16.37757	48.84096	7.26615	0.2262964	2.4095591	37	2	1976–2000	0.62	M-v 4	Williams	38719 2000 BP ₁₄
2000 BQ ₁₄	12.9	0.15	20000226	15.58904	59.90354	77.96175	17.29954	0.2737176	3.1101798	31	1	72 days	0.44	M-v 4	Williams	2000 BQ ₁₄
2000 BR ₁₄	12.3	0.15	20000226	183.76503	327.92156	3.02897	9.82348	0.0985316	3.0527896	73	3	1995–2000	0.61	M-v 3	Williams	38720 2000 BR ₁₄
2000 BS ₁₄	14.0	0.15	20000226	60.68332	71.71823	350.26402	12.10873	0.2717297	2.6673521	54	1	62 days	0.55	M-v 5	Williams	2000 BS ₁₄
2000 BX ₁₄	14.0	0.15	20000226	33.87184	43.15968	61.11358	9.46243	0.1400636	2.6427676	41	1	117 days	0.57	M-v 4	Williams	2000 BX ₁₄
2000 BA ₁₅	14.6	0.15	20000226	34.43993	52.98694	51.08059	7.15439	0.1608423	2.3275030	30	1	88 days	0.59	M-v 4	Williams	2000 BA ₁₅
2000 BC ₁₅	14.2	0.15	20000226	31.73128	105.33750	359.39224	14.95676	0.1692842	2.6005419	13	1	37 days	0.60		Nakano	2000 BC ₁₅
2000 BD ₁₅	15.8	0.15	20000206	0.20169	77.30298	67.31136	7.63371	0.0892124	2.3473643	22	1	41 days	0.89		Williams	2000 BD ₁₅
2000 BE ₁₅	13.2	0.15	20000226	27.76728	27.30822	90.63932	13.33753	0.0815025	3.0305869	32	1	69 days	0.66	M-v 4	Williams	2000 BE ₁₅
2000 BH ₁₅	14.0	0.15	20000226	356.12907	62.69635	93.13561	12.63468	0.0799041	2.6810373	19	1	66 days	0.58	M-v 4	Williams	2000 BH ₁₅
2000 BL ₁₅	16.5	0.15	20000226	345.51623	47.77476	110.95638	9.28065	0.1304480	2.3948923	24	1	63 days	0.35	M-v 5	Williams	2000 BL ₁₅
2000 BO ₁₅	12.7	0.15	20000206	103.51871	304.62468	68.05557	15.74405	0.0823300	3.0023280	15	1	30 days	0.30		Williams	2000 BO ₁₅
2000 BU ₁₅	15.6	0.15	20000206	10.82782	82.63454	30.33747	5.00846	0.0721845	2.1911481	21	1	28 days	0.60		Williams	2000 BU ₁₅
2000 BG ₁₇	14.6	0.15	20000117	2.44448	357.67826	116.71878	9.96736	0.0231032	3.0227441	9	1	6 days	0.35		E Williams	2000 BG ₁₇
2000 BH ₁₇	15.1	0.15	20000117	352.10560	12.68629	113.01356	6.52952	0.0478337	2.8259775	10	1	6 days	0.28		E Williams	2000 BH ₁₇
2000 BB ₁₈	14.7	0.15	20000226	70.34507	312.81858	81.10618	6.31576	0.2198100	2.5535292	30	1	87 days	0.47	M-v 5	Williams	38890 2000 BB ₁₈
2000 BS ₁₈	15.6	0.15	20000117	289.48583	216.62487	349.74613	2.06122	0.1314080	2.4358755	9	1	6 days	0.55		E Williams	2000 BS ₁₈
2000 BT ₁₈	14.9	0.15	20000226	34.82357	128.73937	318.42161	6.52365	0.1247064	2.8063504	28	2	1998–2000	0.68	M-v 4	Marsden	38720 2000 BT ₁₈
2000 BZ ₁₈	16.1	0.15	20000206	316.61446	211.11388	356.99891	5.47732	0.3023896	2.2115155	44	1	34 days	0.48		Williams	2000 BZ ₁₈
2000 BE ₁₉	17.6	0.15	20000226	32.72424	326.20104	71.75526	10.09721	0.5592681	1.8690211	121	1	39 days	0.46	M-v 6	Williams	2000 BE ₁₉
2000 BF ₁₉	19.3	0.15	20000226	256.47223	324.69066	313.38999	7.16852	0.4196424	1.4953750	55	2	1991–2000	0.64	M-v 4	Williams	38721 2000 BF ₁₉
2000 BG ₁₉	17.6	0.15	20000226	340.76766	79.23779	148.00302	12.57071	0.5561542	2.6673730	102	1	46 days	0.57	M-v 5	Williams	2000 BG ₁₉

2000 BH ₁₉	19.3	0.15	20000226	9.19629	134.55016	349.52747	1.31813	0.4556282	2.0262097	211	1	120 days	0.46	M-v	4	Williams	38891	2000 BH ₁₉
2000 BK ₁₉	22.2	0.15	20000226	2.18314	200.67873	310.73568	14.75967	0.5755484	2.4114935	71	1	29 days	0.48	M-v	6	Williams		2000 BK ₁₉
2000 BL ₁₉	19.7	0.15	20000226	353.29251	241.15665	314.89308	15.14163	0.6399271	2.7306650	55	1	45 days	0.48	M-v	6	Williams		2000 BL ₁₉
2000 BM ₁₉	18.0	0.15	20000226	176.37508	247.25835	70.75543	6.89043	0.3583963	0.7412748	74	1	34 days	0.54	M-v	8	Marsden		2000 BM ₁₉
2000 BG ₂₀	15.4	0.15	20000117	62.60853	263.58106	143.90254	1.95214	0.1972826	3.1804919	14	1	16 days	0.19			Marsden		2000 BG ₂₀
2000 BK ₂₀	19.1	0.15	20000117	25.35430	319.62211	133.10890	1.69015	0.1764392	2.4014943	11	1	15 days	0.19			Marsden		2000 BK ₂₀
2000 BL ₂₀	16.6	0.15	20000117	306.62700	242.40201	312.42549	4.90989	0.1058913	2.6542303	11	1	12 days	0.33			D Williams		2000 BL ₂₀
2000 BM ₂₀	16.4	0.15	20000117	60.31903	99.52341	313.09074	4.64342	0.1743017	3.0221604	11	1	12 days	0.19			Marsden		2000 BM ₂₀
2000 BO ₂₀	16.4	0.15	20000117	71.94748	71.98637	313.00907	5.56124	0.3005892	2.6568622	11	1	12 days	0.18			D Williams		2000 BO ₂₀
2000 BP ₂₀	14.5	0.15	20000206	91.11039	253.65282	135.03623	5.73941	0.1467134	3.1735082	17	1	34 days	0.28			Williams		2000 BP ₂₀
2000 BS ₂₀	14.7	0.15	20000226	114.10620	54.65348	316.45024	0.35120	0.1594716	2.6601153	56	2	1998–2000	0.49	M-v	4	Marsden	38721	2000 BS ₂₀
2000 BU ₂₀	15.7	0.15	20000226	298.51135	112.91763	101.15555	1.30502	0.1571549	2.2683562	21	1	60 days	0.49	M-v	5	Williams		2000 BU ₂₀
2000 BF ₂₁	15.0	0.15	20000206	132.75722	40.87548	310.13121	14.04630	0.1335721	2.5535335	19	1	36 days	0.32			Williams		2000 BF ₂₁
2000 BQ ₂₁	11.4	0.15	20000226	64.55416	114.46069	314.01004	8.58341	0.0424318	5.1865867	59	1	60 days	0.55	M-v	5	Marsden		2000 BQ ₂₁
2000 BT ₂₁	16.8	0.15	20000117	299.18989	251.01658	314.84344	24.83744	0.1198619	3.0582838	8	1	7 days	0.25			Williams		2000 BT ₂₁
2000 BV ₂₁	16.1	0.15	20000206	19.83749	153.17969	316.20097	7.56216	0.1564237	2.7357303	14	1	16 days	0.27			Marsden		2000 BV ₂₁
2000 BB ₂₂	17.1	0.15	20000206	341.68970	17.57225	154.90962	7.11753	0.0454778	2.3290887	28	1	42 days	0.69			Williams		2000 BB ₂₂
2000 BE ₂₂	16.5	0.15	20000206	6.70732	173.58250	314.64323	1.52194	0.1474212	2.4146247	30	1	31 days	0.44			Williams		2000 BE ₂₂
2000 BF ₂₂	15.5	0.15	20000206	61.01951	297.78226	133.17247	6.99357	0.0754664	2.8796998	13	1	33 days	0.40			Williams		2000 BF ₂₂
2000 BH ₂₂	16.7	0.15	20000206	53.33448	93.58886	326.86713	3.64376	0.2390132	2.6460106	15	1	31 days	0.25			Williams		2000 BH ₂₂
2000 BK ₂₂	17.5	0.15	20000206	341.01813	200.11403	323.73189	7.94738	0.1212991	2.6304576	12	1	39 days	0.24			Williams		2000 BK ₂₂
2000 BP ₂₂	15.8	0.15	20000206	327.10756	56.21496	131.65965	6.23774	0.2190923	2.5873520	30	1	41 days	0.77			Williams		2000 BP ₂₂
2000 BQ ₂₂	15.9	0.15	20000226	317.06180	73.69263	125.16196	2.69007	0.1292585	2.2877196	42	2	1997–2000	0.61	M-v	4	Williams	38722	2000 BQ ₂₂
2000 BR ₂₂	14.0	0.15	20000226	167.27805	210.45914	123.15538	3.55422	0.0677830	2.7456779	52	3	1982–2000	0.65	M-v	4	Williams	38722	2000 BR ₂₂
2000 BS ₂₂	15.6	0.15	20000206	338.92610	174.43289	351.80026	4.20952	0.1582875	2.5649609	19	1	31 days	0.72			Williams		2000 BS ₂₂
2000 BT ₂₂	14.0	0.15	20000206	328.40117	54.36648	128.56864	1.87772	0.1221363	3.2002318	62	1	43 days	0.60			Williams		2000 BT ₂₂
2000 BW ₂₂	14.9	0.15	20000226	65.68349	235.86749	194.63688	1.52563	0.0381890	2.6555817	30	2	1998–2000	0.50	M-v	4	Williams	38722	2000 BW ₂₂
2000 BX ₂₂	14.6	0.15	20000226	159.86959	40.65614	294.66758	5.36215	0.1411674	2.4323102	51	3	1995–2000	0.66	M-v	4	Williams	38722	2000 BX ₂₂
2000 BY ₂₂	14.5	0.15	20000226	315.34883	29.96583	167.94186	2.86804	0.1332759	2.7648626	38	3	1996–2000	0.58	M-v	4	Williams	38722	2000 BY ₂₂
2000 BZ ₂₂	13.9	0.15	20000226	149.00868	204.74656	140.85795	11.76744	0.0974505	2.6989231	46	1	83 days	0.53	M-v	4	Williams		2000 BZ ₂₂
2000 BC ₂₃	14.3	0.15	20000206	286.13691	18.18707	201.24632	1.18810	0.0724968	3.3012135	40	1	39 days	0.95			Williams		2000 BC ₂₃
2000 BD ₂₃	14.6	0.15	20000117	229.36967	314.31366	312.34648	10.05567	0.0265934	3.0415156	20	1	7 days	0.38			Williams		2000 BD ₂₃
2000 BE ₂₃	16.0	0.15	20000226	75.15139	115.69165	296.38537	3.49958	0.1398998	2.2848420	34	3	1997–2000	0.60	M-v	3	Williams	38722	2000 BE ₂₃
2000 BF ₂₃	15.5	0.15	20000226	295.30207	354.84157	227.77886	0.63449	0.1341692	2.3872515	52	3	1993–2000	0.57	M-v	4	Williams	38723	2000 BF ₂₃
2000 BH ₂₃	15.4	0.15	20000226	59.30944	143.76594	271.47355	2.63549	0.2490310	2.5364779	38	1	60 days	0.56	M-v	5	Williams		2000 BH ₂₃
2000 BK ₂₃	15.0	0.15	20000226	265.32317	283.82540	333.35991	5.67829	0.1745236	2.2924838	47	1	61 days	0.67	M-v	5	Williams		2000 BK ₂₃
2000 BP ₂₄	13.7	0.15	20000226	234.01636	199.97900	73.19184	16.41687	0.0975573	2.6201213	33	2	1998–2000	0.69	M-v	4	Williams	38723	2000 BP ₂₄
2000 BT ₂₄	11.2	0.15	20000206	96.06076	35.58285	336.81891	20.47127	0.0970746	5.2622890	12	1	31 days	0.42			Williams		2000 BT ₂₄
2000 BX ₂₄	17.1	0.15	20000206	56.44756	76.83270	357.96609	19.05283	0.1025367	1.9465496	38	1	43 days	0.53			Williams		2000 BX ₂₄
2000 BF ₂₅	12.9	0.15	20000226	255.96433	136.24240	108.54701	2.22145	0.1321670	3.1853889	47	2	1998–2000	0.51	M-v	4	Williams	38723	2000 BF ₂₅
2000 BM ₂₅	14.9	0.15	20000226	283.94429	97.65839	125.29657	7.49228	0.1217954	2.2588634	38	1	64 days	0.43	M-v	5	Williams		2000 BM ₂₅
2000 BN ₂₅	16.5	0.15	20000117	6.86769	335.65168	143.56137	1.43805	0.1120417	2.4089995	20	1	7 days	0.55			Williams		2000 BN ₂₅
2000 BQ ₂₅	13.7	0.15	20000226	114.14496	45.20032	311.67053	11.84587	0.1885147	2.9860463	27	1	60 days	0.57	M-v	6	Williams		2000 BQ ₂₅
2000 BY ₂₅	14.6	0.15	20000117	302.70754	71.65308	112.95130	3.21297	0.0788575	2.6096747	31	1	44 days	0.51			Williams		2000 BY ₂₅
2000 BB ₂₆	14.0	0.15	20000206	223.63499	313.97930	321.61630	7.19997	0.0695986	2.7870595	36	1	42 days	0.67			Williams		2000 BB ₂₆
2000 BC ₂₆	13.8	0.15	20000226	303.85783	98.36487	107.22500	2.43455	0.1004522	3.1043751	36	2	1998–2000	0.60	M-v	5	Williams	38723	2000 BC ₂₆
2000 BD ₂₆	14.4	0.15	20000206	202.91139	167.11942	132.66653	10.33543	0.1485926	2.7828531	28	1	35 days	0.49			Williams		2000 BD ₂₆
2000 BE ₂₆	15.4	0.15	20000117	323.35489	183.10901	350.35729	1.76608	0.0883649	2.5412054	15	1	12 days	0.52			Marsden		2000 BE ₂₆
2000 BH ₂₆	15.9	0.15	20000206	347.56607	177.32625	337.16268	5.40131	0.2275137	2.6092449	16	1	34 days	0.53			Williams		2000 BH ₂₆
2000 BJ ₂₆	15.2	0.15	20000117	58.32128	322.01043	93.66551	3.62443	0.1422465	2.2344683	40	1	58 days	0.47			Williams		2000 BJ ₂₆
2000 BL ₂₆	14.1	0.15	20000226	334.79411	85.69221	88.75984	0.25870	0.1193536	3.2184825	46	2	1998–2000	0.45	M-v	5	Williams	38724	2000 BL ₂₆
2000 BN ₂₆	15.6	0.15	20000226	353.58627	108.70541	42.94971	2.73623	0.1319707	2.4206676	26	1	87 days	0.62	M-v	4	Williams		2000 BN ₂₆
2000 BQ ₂₆	15.1	0.15	20000226	45.03283	32.65340	47.97241	2.84922	0.1867538	2.3723398	35	4	1993–2000	0.69	M-v	2	Williams	38724	2000 BQ ₂₆

2000 MAR. 20

M.P.C. 39587

2000 BT ₂₆	16.2	0.15	20000206	348.57390	34.73789	119.92756	3.69146	0.1773987	2.6575603	31	1	27 days	0.58		Williams	2000 BT ₂₆
2000 BU ₂₆	15.1	0.15	20000226	330.96489	223.09001	315.14512	8.00668	0.0818507	2.4384737	52	1	62 days	0.56	M-v 5	Williams	2000 BU ₂₆
2000 BV ₂₆	14.0	0.15	20000226	262.68699	300.19932	316.97554	14.53540	0.1542707	2.5467445	66	1	116 days	0.57	M-v 4 D	Williams	2000 BV ₂₆
2000 BW ₂₆	15.6	0.15	20000206	325.17204	92.37153	93.43354	2.88452	0.1672157	2.6665950	34	1	37 days	0.54		Williams	2000 BW ₂₆
2000 BY ₂₆	16.2	0.15	20000206	28.50034	108.02804	352.20035	2.41023	0.1552683	2.4162510	63	1	36 days	0.57		Williams	2000 BY ₂₆
2000 BA ₂₇	11.1	0.15	20000226	76.14610	78.39240	341.54476	3.66624	0.0583423	5.2147098	66	3	1997–2000	0.57	M-v 2	Williams	38724 2000 BA ₂₇
2000 BB ₂₇	14.7	0.15	20000206	64.84224	323.28138	107.43018	4.62546	0.0395267	2.7803383	34	1	35 days	0.61		Williams	2000 BB ₂₇
2000 BD ₂₇	14.2	0.15	20000206	91.27900	300.55271	98.96215	7.06111	0.0606279	2.7060802	21	1	34 days	0.64		Williams	2000 BD ₂₇
2000 BE ₂₇	14.7	0.15	20000226	2.45527	99.64044	41.53351	3.97960	0.0823474	2.6162638	35	2	1998–2000	0.61	M-v 4	Williams	38724 2000 BE ₂₇
2000 BF ₂₇	15.7	0.15	20000206	310.77960	209.15035	349.00309	4.87963	0.1056729	2.2483481	37	1	39 days	0.39		Williams	2000 BF ₂₇
2000 BJ ₂₇	14.4	0.15	20000226	299.83330	252.72846	329.30187	4.41401	0.1449099	2.3367640	62	1	116 days	0.44	M-v 4	Williams	2000 BJ ₂₇
2000 BL ₂₇	15.3	0.15	20000226	340.18993	32.30174	139.46117	5.15091	0.1019415	2.3270776	62	1	89 days	0.36	M-v 4	Williams	2000 BL ₂₇
2000 BM ₂₇	15.1	0.15	20000226	354.18160	181.25436	333.61999	2.05951	0.1079277	2.3475211	76	2	1998–2000	0.50	M-v 3	Williams	38725 2000 BM ₂₇
2000 BN ₂₇	15.5	0.15	20000226	36.22423	125.96051	330.62558	1.82459	0.1842861	2.3608929	61	1	95 days	0.51	M-v 5	Williams	2000 BN ₂₇
2000 BQ ₂₇	16.2	0.15	20000206	27.35983	9.10175	98.06602	1.70794	0.1246895	2.2441188	46	1	42 days	0.80		Williams	2000 BQ ₂₇
2000 BS ₂₇	16.1	0.15	20000117	316.34576	185.05559	356.67646	3.90933	0.1228859	2.3427265	21	1	12 days	0.63		Williams	2000 BS ₂₇
2000 BT ₂₇	16.4	0.15	20000206	26.13037	24.68335	84.84793	1.43540	0.0553021	2.2149300	30	1	35 days	0.85		Williams	2000 BT ₂₇
2000 BU ₂₇	14.0	0.15	20000117	93.19807	297.73787	97.33493	3.43440	0.0654046	2.7815606	25	1	59 days	0.54		Williams	2000 BU ₂₇
2000 BW ₂₇	16.8	0.15	20000206	1.09723	172.17925	325.24259	25.72735	0.1886167	2.3472818	27	1	35 days	0.43		Williams	2000 BW ₂₇
2000 BH ₂₈	17.5	0.15	20000117	20.41189	338.80583	121.18605	5.96561	0.1453483	2.4284640	20	1	12 days	0.65		Marsden	2000 BH ₂₈
2000 BN ₂₈	14.4	0.15	20000226	17.63595	96.28746	35.04394	10.25434	0.0798611	2.2411907	30	1	88 days	0.34	M-v 4	Williams	2000 BN ₂₈
2000 BO ₂₈	20.0	0.15	20000206	306.77522	302.70352	320.31943	6.33223	0.5998887	1.6986552	42	1	27 days	0.52		Williams	2000 BO ₂₈
2000 BU ₂₈	13.3	0.15	20000117	236.23276	164.18166	106.18399	10.19029	0.1180777	2.7499313	24	1	55 days	0.40		Williams	2000 BU ₂₈
2000 BW ₂₈	14.9	0.15	20000117	342.24561	23.35403	135.23249	16.03291	0.0775518	2.8353979	42	1	57 days	0.51		Williams	2000 BW ₂₈
2000 BY ₂₈	15.0	0.15	20000226	52.57353	92.96500	350.83036	3.45042	0.1149152	2.5211578	66	2	1998–2000	0.62	M-v 3	Williams	38725 2000 BY ₂₈
2000 BZ ₂₈	14.3	0.15	20000226	4.90667	143.58147	357.12923	8.01617	0.1508585	2.8848996	41	2	1995–2000	0.47	M-v 3	Williams	38725 2000 BZ ₂₈
2000 BA ₂₉	14.3	0.15	20000226	92.26544	285.39052	106.56091	8.43011	0.2077902	2.5704702	34	1	89 days	0.57	M-v 4	Williams	2000 BA ₂₉
2000 BL ₂₉	16.4	0.15	20000206	35.03382	113.85211	332.49006	6.22601	0.1900400	2.2947159	26	1	32 days	0.76		Williams	2000 BL ₂₉
2000 BZ ₂₉	13.5	0.15	20000226	344.42488	111.02489	53.96670	2.22054	0.1026557	3.0941243	59	3	1991–2000	0.54	M-v 3	Williams	38725 2000 BZ ₂₉
2000 BA ₃₀	15.1	0.15	20000226	49.39241	341.23293	91.36491	5.51819	0.2356404	2.5871745	40	1	92 days	0.55	M-v 4	Williams	2000 BA ₃₀
2000 BB ₃₀	14.8	0.15	20000226	290.92720	120.23383	108.72852	5.77214	0.1190266	2.2442013	36	3	1997–2000	0.59	M-v 3	Williams	38726 2000 BB ₃₀
2000 BC ₃₀	14.7	0.15	20000226	55.72968	89.85371	345.54485	4.62310	0.1570440	2.3100304	61	1	120 days	0.42	M-v 4	Williams	2000 BC ₃₀
2000 BG ₃₀	14.9	0.15	20000226	11.73736	38.31614	95.39662	3.11696	0.1485846	2.4085327	50	2	1998–2000	0.48	M-v 3	Williams	38726 2000 BG ₃₀
2000 BM ₃₀	13.5	0.15	20000206	160.67638	13.68052	322.08123	17.45588	0.1879624	3.0906569	42	1	42 days	0.58		Williams	2000 BM ₃₀
2000 CA	14.0	0.15	20000226	24.89043	27.75786	89.98368	13.33157	0.0917006	3.1268364	27	1	69 days	0.68	M-v 4	Williams	2000 CA
2000 CC	16.5	0.15	20000206	26.00777	63.27109	38.57761	3.52429	0.0814891	2.5521783	20	1	32 days	0.38		Williams	2000 CC
2000 CD	15.2	0.15	20000226	101.66013	94.95739	303.51678	13.95726	0.0155335	2.4604616	35	1	65 days	0.47	M-v 4	Williams	2000 CD
2000 CF	14.3	0.15	20000206	234.07480	137.06339	131.43992	11.83368	0.0492769	2.9959743	28	1	35 days	0.56		Williams	2000 CF
2000 CH	15.8	0.15	20000206	300.04759	76.40753	122.41123	3.25482	0.0109802	2.3185313	35	1	33 days	0.56		Williams	2000 CH
2000 CK	17.3	0.15	20000206	31.08637	331.74947	132.59389	6.64197	0.1043875	2.2232952	13	1	26 days	0.48		Williams	2000 CK
2000 CL	16.4	0.15	20000206	334.12096	206.55314	334.40311	4.00271	0.1982524	2.5491025	32	1	38 days	0.67		Williams	2000 CL
2000 CN	16.1	0.15	20000206	40.37051	298.15967	152.86222	5.01354	0.1557864	2.4612102	46	1	39 days	0.55		Williams	2000 CN
2000 CP	15.6	0.15	20000206	46.69896	136.00642	310.44317	4.05633	0.1348876	2.7109778	23	1	30 days	0.36		Williams	2000 CP
2000 CR	15.2	0.15	20000206	160.85456	209.77142	130.23102	4.85867	0.0787119	2.5143658	17	1	26 days	0.84		Williams	2000 CR
2000 CS	16.2	0.15	20000206	7.02038	164.70926	328.00631	6.79291	0.1318733	2.2329736	51	1	35 days	0.34		Marsden	2000 CS
2000 CU	14.9	0.15	20000226	359.74521	350.00301	164.70418	4.74176	0.1210173	2.2829654	67	1	66 days	0.44	M-v 4	Williams	2000 CU
2000 CV	12.7	0.15	20000226	21.82828	338.44516	147.86439	14.12644	0.1199662	2.6934339	76	1	125 days	0.44	M-v 3	Williams	2000 CV
2000 CW	14.7	0.15	20000206	256.77475	293.50422	337.43685	9.92594	0.1754829	2.6808087	47	1	39 days	0.61		Marsden	2000 CW
2000 CX	14.4	0.15	20000206	234.63619	132.67220	147.53485	6.60641	0.0470236	2.9636143	44	1	39 days	0.54		Williams	2000 CX
2000 CY	14.4	0.15	20000206	249.88285	289.82082	340.27419	14.70524	0.1071805	2.5909865	40	1	39 days	0.54		Williams	2000 CY
2000 CA ₁	15.4	0.15	20000206	353.56553	39.86477	109.66555	0.77133	0.0615675	2.5751073	63	1	43 days	0.85		Williams	2000 CA ₁
2000 CB ₁	15.3	0.15	20000206	289.13083	110.19985	120.42891	1.75089	0.1551483	2.4382844	76	1	41 days	0.55		Marsden	2000 CB ₁
2000 CC ₁	16.2	0.15	20000206	48.01223	33.83988	40.33384	0.71436	0.1964731	2.3891930	37	1	34 days	1.16		Williams	2000 CC ₁

2000 CD ₁	16.3	0.15	20000206	6.18888	348.38249	148.54252	2.87917	0.1588232	2.3918109	55	1	38 days	0.56		Williams	2000 CD ₁
2000 CG ₁	15.5	0.15	20000117	54.27690	104.57708	323.91265	6.93488	0.1303039	2.2434219	52	1	58 days	0.55		Williams	2000 CG ₁
2000 CL ₁	14.4	0.15	20000226	340.20602	36.77381	147.27251	15.32829	0.1270733	2.6765464	51	1	64 days	0.44	M-v 4	Williams	2000 CL ₁
2000 CM ₁	15.1	0.15	20000226	43.92129	107.60323	352.82979	2.02271	0.1498831	2.4172778	39	1	97 days	0.51	M-v 5	Williams	2000 CM ₁
2000 CQ ₁	14.9	0.15	20000206	36.92802	346.82780	125.84140	2.78539	0.0195259	2.8933826	51	1	39 days	0.69		Williams	2000 CQ ₁
2000 CR ₁	15.5	0.15	20000206	86.12935	264.06950	143.11656	4.14271	0.1404612	2.2557612	56	1	39 days	0.87		Williams	2000 CR ₁
2000 CS ₁	13.7	0.15	20000206	352.29968	351.01471	170.07143	6.75598	0.0478723	3.1616630	43	1	38 days	0.51		Williams	2000 CS ₁
2000 CT ₁	13.8	0.15	20000206	320.26922	28.68909	178.41415	0.77938	0.1275013	3.1527317	77	1	47 days	0.66		Williams	2000 CT ₁
2000 CU ₁	13.9	0.15	20000206	250.69995	299.37868	332.77516	7.12447	0.0634214	2.5969297	57	1	38 days	0.49		Williams	2000 CU ₁
2000 CW ₁	15.0	0.15	20000206	259.63200	328.20688	306.78560	2.96753	0.1822602	2.2396920	36	1	38 days	0.68		Williams	2000 CW ₁
2000 CX ₁	13.2	0.15	20000226	150.32395	224.31558	141.14910	5.86312	0.0794606	2.6539828	59	1	98 days	0.52	M-v 4	Williams	2000 CX ₁
2000 CY ₁	15.1	0.15	20000206	49.18137	342.52482	115.23622	7.41156	0.2991213	2.5642760	24	1	38 days	0.68		Williams	2000 CY ₁
2000 CZ ₁	14.2	0.15	20000206	221.11915	132.37186	153.38541	8.64127	0.0350596	3.1947404	63	1	38 days	0.60		Williams	2000 CZ ₁
2000 CB ₂	14.6	0.15	20000226	317.53643	103.90640	105.55025	6.00174	0.1140388	2.3596051	51	1	68 days	0.44	M-v 4	Williams	2000 CB ₂
2000 CC ₂	13.2	0.15	20000226	297.91557	102.17681	133.63876	14.73907	0.1456864	2.6054468	48	1	117 days	0.62	M-v 4	Williams	2000 CC ₂
2000 CD ₂	15.6	0.15	20000206	17.30433	35.26600	88.87522	4.63102	0.2030341	2.5711657	45	1	39 days	1.09		Williams	2000 CD ₂
2000 CH ₂	14.8	0.15	20000226	267.19499	263.08578	353.37358	8.52942	0.1060259	2.2653090	33	2	1991–2000	0.44	M-v 4	Williams	38726 2000 CH ₂
2000 CK ₂	14.9	0.15	20000226	9.72512	29.20654	118.55371	6.30020	0.0913053	2.2776253	48	2	1997–2000	0.58	M-v 3	Williams	38726 2000 CK ₂
2000 CL ₂	12.7	0.15	20000206	127.90690	264.00117	124.09481	12.98923	0.0036363	2.9429949	24	1	39 days	0.66		Williams	2000 CL ₂
2000 CM ₂	14.1	0.15	20000206	48.16572	85.81884	351.60650	23.64018	0.2608807	3.1457974	30	1	39 days	0.66		Williams	2000 CM ₂
2000 CP ₂	12.5	0.15	20000206	160.04202	342.42160	7.35468	13.07994	0.1973894	2.6729046	28	1	39 days	0.82		Williams	2000 CP ₂
2000 CS ₂	12.2	0.15	20000206	283.95060	120.31155	120.86990	15.41035	0.0631229	2.5872467	8	1	25 days	0.72		Nakano	2000 CS ₂
2000 CU ₂	15.8	0.15	20000206	312.84648	100.07467	106.21463	1.29444	0.1451964	2.3489832	41	1	36 days	0.59		Williams	2000 CU ₂
2000 CX ₂	15.6	0.15	20000206	34.91702	352.07244	101.39513	3.59724	0.1306382	2.6369434	32	1	32 days	0.66		Williams	2000 CX ₂
2000 CZ ₂	16.3	0.15	20000206	346.01295	7.11986	149.60769	11.06361	0.1641600	2.3304190	57	1	33 days	0.58		Williams	2000 CZ ₂
2000 CA ₃	14.4	0.15	20000206	30.23515	119.18255	331.20258	25.80986	0.3748688	3.1419839	22	1	40 days	0.66		Williams	2000 CA ₃
2000 CO ₇	15.9	0.15	20000206	5.49375	152.64644	331.59369	8.13077	0.2444227	2.7697575	26	1	31 days	0.51		Williams	2000 CO ₇
2000 CP ₇	14.4	0.15	20000206	289.23063	112.64648	101.91197	6.20837	0.0915708	2.7596961	18	1	31 days	0.59		Williams	2000 CP ₇
2000 CU ₇	14.4	0.15	20000117	40.72307	321.04000	121.51670	18.53061	0.1003269	2.7307992	28	1	58 days	0.64		Williams	2000 CU ₇
2000 CX ₇	15.6	0.15	20000206	75.06431	20.37292	28.32703	5.93499	0.1097592	2.2123424	27	1	33 days	0.66		Williams	2000 CX ₇
2000 CY ₇	13.6	0.15	20000206	192.30931	299.64351	5.81896	9.55220	0.0749581	2.9599033	21	1	36 days	0.60		Williams	2000 CY ₇
2000 CT ₉	15.7	0.15	20000206	7.95049	309.64248	163.56422	3.73238	0.1858531	2.5509970	17	1	36 days	0.40		Williams	2000 CT ₉
2000 CC ₁₂	16.1	0.15	20000206	13.29240	335.13776	133.85479	9.10527	0.2069368	2.6820800	27	1	22 days	0.87		Williams	2000 CC ₁₂
2000 CA ₁₃	18.0	0.15	20000206	357.07143	312.58892	192.09629	1.44228	0.5629886	3.7143410	56	1	26 days	0.44		Williams	2000 CA ₁₃
2000 CK ₁₃	12.4	0.15	20000206	87.61854	237.46291	142.99042	6.18805	0.1774329	5.0901702	11	1	37 days	0.48		Williams	2000 CK ₁₃
2000 CR ₁₃	13.9	0.15	20000117	0.97787	333.30831	151.44280	9.90628	0.0318995	3.1678360	36	1	58 days	0.53		Williams	2000 CR ₁₃
2000 CX ₁₄	15.7	0.15	20000117	297.32074	278.25049	276.14934	2.72226	0.0560416	2.6160280	28	1	59 days	0.68		Williams	2000 CX ₁₄
2000 CE ₁₇	16.6	0.15	20000206	299.56995	344.86202	214.22433	1.23874	0.0777413	2.3709512	15	1	37 days	0.55		Williams	2000 CE ₁₇
2000 CN ₁₇	14.2	0.15	20000226	216.76434	146.47013	141.20236	15.16038	0.1684330	2.6358117	21	1	67 days	0.45	M-v 5	Williams	2000 CN ₁₇
2000 CP ₁₇	16.1	0.15	20000206	99.18709	232.83381	145.97482	7.35497	0.1242212	2.3006406	24	1	41 days	0.53		Williams	2000 CP ₁₇
2000 CG ₁₈	16.4	0.15	20000117	353.87817	319.34320	175.02811	4.50967	0.1336898	2.5993245	27	1	58 days	0.62		Williams	2000 CG ₁₈
2000 CL ₁₈	13.1	0.15	20000206	160.93534	139.51398	186.61075	4.85528	0.1560811	3.1667591	13	1	32 days	0.51		Williams	2000 CL ₁₈
2000 CV ₁₈	13.6	0.15	20000226	223.12712	346.77886	296.99634	11.89930	0.1503957	2.6064073	41	1	64 days	0.54	M-v 5	Williams	2000 CV ₁₈
2000 CG ₁₉	14.0	0.15	20000206	299.81887	55.35324	139.52793	11.97629	0.0624398	2.9865736	39	1	39 days	1.10		Williams	2000 CG ₁₉
2000 CH ₁₉	16.5	0.15	20000117	293.18611	14.87446	199.03016	1.28542	0.1727959	2.3956490	30	1	58 days	0.55		Williams	2000 CH ₁₉
2000 CP ₁₉	15.2	0.15	20000117	99.00193	103.99282	282.00049	7.72451	0.0472529	3.0213165	25	1	22 days	0.46		Williams	2000 CP ₁₉
2000 CS ₁₉	15.6	0.15	20000117	317.87149	293.07499	257.22133	4.74103	0.2030448	2.9736893	44	1	58 days	0.69		Williams	2000 CS ₁₉
2000 CH ₂₀	13.8	0.15	20000226	97.22774	244.84474	143.09303	10.65551	0.1116939	2.9843132	34	1	60 days	0.58	M-v 5	Williams	2000 CH ₂₀
2000 CS ₂₀	15.5	0.15	20000206	104.44779	246.24426	139.78368	4.00702	0.0435375	2.5397559	40	1	37 days	0.64		Williams	2000 CS ₂₀
2000 CX ₂₀	17.1	0.15	20000206	358.72195	199.21440	298.23899	5.19108	0.0889678	2.2698792	28	1	33 days	0.75		Williams	2000 CX ₂₀
2000 CE ₂₁	15.6	0.15	20000206	107.91006	209.33571	163.25777	6.49147	0.1480796	2.4438321	19	1	33 days	1.00		Williams	2000 CE ₂₁
2000 CM ₂₁	15.8	0.15	20000206	289.96189	297.69233	281.56377	7.82258	0.1111542	2.7407605	13	1	25 days	0.52		Williams	2000 CM ₂₁
2000 CT ₂₁	17.3	0.15	20000206	348.50120	288.08070	223.21370	2.67005	0.1149990	2.2134353	22	1	33 days	0.65		Williams	2000 CT ₂₁

2000 MAR. 20

M.P.C. 39589

2000 CF ₂₂	15.7	0.15	20000206	344.96023	340.18117	176.90412	1.79732	0.1461932	2.7559076	20	1	28 days	0.74		Williams	2000 CF ₂₂
2000 CQ ₂₂	15.0	0.15	20000226	8.41278	338.33558	153.31369	7.57704	0.2018673	2.7212121	49	1	62 days	0.46	M-v 4	Williams	2000 CQ ₂₂
2000 CS ₂₂	13.8	0.15	20000206	280.59217	72.46445	148.55731	17.00651	0.0366458	3.0812589	20	1	32 days	0.53		Williams	2000 CS ₂₂
2000 CT ₂₂	15.1	0.15	20000206	239.28770	105.66263	155.81171	9.78996	0.0296152	3.0537369	30	1	34 days	0.60		Williams	2000 CT ₂₂
2000 CU ₂₂	16.0	0.15	20000226	41.22131	276.99985	166.43942	6.76575	0.2122927	2.3289231	34	1	66 days	0.61	M-v 4	Williams	2000 CU ₂₂
2000 CW ₂₂	16.8	0.15	20000206	352.57077	269.68706	239.40710	3.43589	0.1937428	2.6457294	24	1	32 days	0.58		Williams	2000 CW ₂₂
2000 CG ₂₃	14.9	0.15	20000226	74.66156	216.89732	198.87382	4.12684	0.1080506	2.6849345	31	2	1998-2000	0.73	M-v 5	Williams	38728 2000 CG ₂₃
2000 CK ₂₃	15.5	0.15	20000226	63.55672	264.97183	162.86530	7.33403	0.1206248	2.2051206	46	1	66 days	0.53	M-v 5	Williams	2000 CK ₂₃
2000 CN ₂₃	15.5	0.15	20000206	69.51950	249.15567	165.25314	5.98204	0.1238287	2.3356026	31	1	36 days	0.77		Williams	2000 CN ₂₃
2000 CO ₂₃	15.8	0.15	20000206	30.37537	304.78914	157.77508	8.38187	0.0822888	2.5813415	31	1	33 days	0.60		Williams	2000 CO ₂₃
2000 CP ₂₃	14.1	0.15	20000206	286.13605	48.40704	170.95282	5.05397	0.0630536	2.7658873	19	1	32 days	0.36		Williams	2000 CP ₂₃
2000 CQ ₂₃	14.3	0.15	20000206	13.98260	194.20408	288.37751	5.69980	0.0743998	3.2160088	23	1	33 days	0.40		Williams	2000 CQ ₂₃
2000 CR ₂₃	15.4	0.15	20000206	80.74173	261.10724	149.08773	15.51829	0.0649760	3.0398443	18	1	41 days	0.44		Williams	2000 CR ₂₃
2000 CS ₂₃	14.3	0.15	20000206	262.63052	53.75615	193.46127	3.68367	0.1010281	2.6090560	19	1	32 days	0.42		Williams	2000 CS ₂₃
2000 CT ₂₃	15.1	0.15	20000206	21.73604	314.44752	156.42699	8.44748	0.1166482	2.6301437	20	1	32 days	0.35		Williams	2000 CT ₂₃
2000 CA ₂₄	16.3	0.15	20000206	341.32920	226.80918	305.55968	4.17092	0.2934381	2.6735232	14	1	27 days	0.72		Williams	2000 CA ₂₄
2000 CB ₂₄	14.6	0.15	20000206	29.54577	162.54361	302.03133	3.29210	0.0646714	3.2333024	19	1	36 days	0.48		Williams	2000 CB ₂₄
2000 CC ₂₄	14.3	0.15	20000206	355.43285	5.16557	138.37336	12.75292	0.1061821	3.0802120	26	1	32 days	0.63		Williams	2000 CC ₂₄
2000 CE ₂₄	15.2	0.15	20000206	192.34044	354.94368	313.73770	6.69623	0.1336994	2.3296394	23	1	32 days	0.55		Williams	2000 CE ₂₄
2000 CG ₂₄	14.8	0.15	20000206	101.89448	232.03682	151.15742	9.46892	0.1240650	2.7082930	27	1	41 days	0.41		Williams	2000 CG ₂₄
2000 CH ₂₄	15.0	0.15	20000206	100.50114	104.37657	278.72042	2.93109	0.1372769	2.2712134	31	1	38 days	0.47		Williams	2000 CH ₂₄
2000 CJ ₂₄	16.6	0.15	20000206	7.74346	336.59592	151.45067	7.72767	0.1357670	2.3888089	35	1	38 days	0.44		Williams	2000 CJ ₂₄
2000 CK ₂₄	13.6	0.15	20000206	123.97598	50.55658	309.33045	11.89149	0.1822498	2.6993261	18	1	32 days	0.36		Williams	2000 CK ₂₄
2000 CN ₂₄	14.8	0.15	20000206	140.13619	198.32482	148.76824	12.59334	0.1886158	2.6361742	23	1	41 days	0.52		Williams	2000 CN ₂₄
2000 CP ₂₄	14.3	0.15	20000206	317.30214	44.58435	140.55252	15.29638	0.0460417	2.6139133	25	1	32 days	0.49		Williams	2000 CP ₂₄
2000 CS ₂₄	14.8	0.15	20000226	357.18912	355.25786	154.29641	6.04861	0.1188602	2.3757902	48	1	62 days	0.45	M-v 4	Williams	2000 CS ₂₄
2000 CT ₂₄	15.9	0.15	20000206	357.98549	238.47220	263.38158	1.45115	0.1469310	2.3927883	17	1	32 days	0.30		Williams	2000 CT ₂₄
2000 CV ₂₄	13.7	0.15	20000206	175.43055	165.71558	156.67573	10.17234	0.1951883	2.5439423	24	1	32 days	0.58		Williams	2000 CV ₂₄
2000 CY ₂₄	15.5	0.15	20000206	351.62806	294.05900	215.07150	3.05951	0.1030093	2.2955919	18	1	32 days	0.36		Williams	2000 CY ₂₄
2000 CZ ₂₄	15.0	0.15	20000226	70.41278	133.06870	275.24626	4.40462	0.2269608	2.3535485	43	1	89 days	0.52	M-v 4	Williams	2000 CZ ₂₄
2000 CA ₂₅	15.8	0.15	20000206	296.46099	346.52457	236.01951	2.82837	0.1783464	2.3160147	29	1	32 days	0.52		Williams	2000 CA ₂₅
2000 CB ₂₅	14.6	0.15	20000226	106.31059	81.09722	292.79965	7.03915	0.2418864	2.3013511	32	2	1993-2000	0.60	M-v 5	Williams	38728 2000 CB ₂₅
2000 CC ₂₅	14.7	0.15	20000206	86.83956	261.30868	146.15602	22.42740	0.0403291	2.6287775	26	1	36 days	0.61		Williams	2000 CC ₂₅
2000 CG ₂₅	15.0	0.15	20000206	232.60370	105.70443	165.17410	9.49853	0.0488747	2.6403313	28	1	57 days	0.58		Williams	2000 CG ₂₅
2000 CR ₂₅	15.5	0.15	20000206	12.11831	309.32425	174.45659	3.34798	0.1442987	2.7439740	18	1	30 days	0.56		Williams	2000 CR ₂₅
2000 CS ₂₅	15.8	0.15	20000206	349.90896	354.01382	157.45642	7.00291	0.0651564	2.3594567	15	1	30 days	0.35		Williams	2000 CS ₂₅
2000 CT ₂₅	15.1	0.15	20000117	337.06516	247.82264	277.60240	3.30949	0.1130420	3.1898924	26	1	58 days	0.39		Williams	2000 CT ₂₅
2000 CU ₂₅	14.3	0.15	20000226	51.75359	281.50823	149.18505	11.68663	0.2168263	2.9756531	45	1	69 days	0.50	M-v 5	Williams	2000 CU ₂₅
2000 CV ₂₅	14.1	0.15	20000206	211.10982	67.61671	223.51142	1.89751	0.0234894	2.7207263	22	1	32 days	0.60		Williams	2000 CV ₂₅
2000 CW ₂₅	13.7	0.15	20000117	48.46361	163.86029	278.17557	1.58928	0.0641561	3.3562506	37	1	58 days	0.47		Williams	2000 CW ₂₅
2000 CZ ₂₅	15.9	0.15	20000117	332.69837	216.58752	308.45469	3.94437	0.0952945	2.2283521	42	1	58 days	1.12		Williams	2000 CZ ₂₅
2000 CB ₂₆	15.9	0.15	20000206	86.17980	119.05595	277.31413	1.33694	0.1512208	2.3163516	27	1	32 days	0.67		Williams	2000 CB ₂₆
2000 CC ₂₆	15.7	0.15	20000206	241.30717	123.11679	154.51854	5.30732	0.2104065	2.3380968	29	1	41 days	0.59		Williams	2000 CC ₂₆
2000 CH ₂₆	14.3	0.15	20000206	305.23838	270.09069	296.49107	3.88018	0.1035301	3.1547086	27	1	32 days	0.42		Williams	2000 CH ₂₆
2000 CK ₂₆	16.1	0.15	20000206	73.75118	99.51796	315.35298	5.58982	0.1032752	2.3974009	19	1	30 days	0.41		Williams	2000 CK ₂₆
2000 CO ₂₆	15.5	0.15	20000206	288.42768	57.25745	171.42824	1.19858	0.1417950	2.4120010	46	1	39 days	0.47		Williams	2000 CO ₂₆
2000 CP ₂₆	16.4	0.15	20000206	357.37715	311.87269	192.39984	1.05379	0.1261133	2.4022525	40	1	36 days	0.49		Williams	2000 CP ₂₆
2000 CQ ₂₆	15.1	0.15	20000226	47.19912	279.69550	155.85208	3.12671	0.2387143	2.6620336	35	1	91 days	0.57	M-v 5	Williams	2000 CQ ₂₆
2000 CR ₂₆	13.4	0.15	20000226	6.15306	183.10423	315.80084	11.16228	0.1358093	2.9809731	73	1	98 days	0.40	M-v 3	Williams	2000 CR ₂₆
2000 CT ₂₆	13.7	0.15	20000206	268.32292	12.27670	236.35811	2.04306	0.1334360	2.9465522	24	1	32 days	0.50		Williams	2000 CT ₂₆
2000 CY ₂₆	15.3	0.15	20000206	348.67538	6.77815	150.89946	10.93284	0.1997148	2.7977492	39	1	36 days	0.51		Williams	2000 CY ₂₆
2000 CD ₂₇	14.2	0.15	20000206	217.06705	133.58230	156.37441	14.99798	0.0825558	2.6284952	22	1	32 days	0.63		Williams	2000 CD ₂₇
2000 CH ₂₇	14.3	0.15	20000206	315.79635	10.26690	181.81517	4.42250	0.0677477	2.8760059	32	1	38 days	0.43		Williams	2000 CH ₂₇

2000 CJ ₂₇	14.8	0.15	20000206	250.94738	96.36430	171.30064	5.04957	0.1666449	2.5255894	31	1	32 days	0.58		Williams	2000 CJ ₂₇
2000 CK ₂₇	12.9	0.15	20000206	208.29656	136.19859	160.64814	10.31790	0.0436813	3.4906681	27	1	57 days	0.52		Williams	2000 CK ₂₇
2000 CL ₂₇	13.8	0.15	20000226	194.22507	3.75978	310.87571	14.50256	0.0715129	2.6524762	24	1	64 days	0.45	M-v 5	Williams	2000 CL ₂₇
2000 CP ₂₇	15.6	0.15	20000206	321.12081	50.49903	148.57016	8.49493	0.2154126	2.4572833	63	1	39 days	0.62		Williams	2000 CP ₂₇
2000 CV ₂₇	13.2	0.15	20000206	159.06946	156.63420	181.48780	0.97751	0.1708166	3.1731996	54	1	41 days	0.53		Williams	2000 CV ₂₇
2000 CW ₂₇	16.0	0.15	20000206	328.52562	237.90258	304.17927	1.91307	0.1280241	2.4749331	43	1	36 days	0.50		Williams	2000 CW ₂₇
2000 CY ₂₇	15.8	0.15	20000206	312.45718	243.89921	314.96596	5.53729	0.0991123	2.4495937	29	1	32 days	0.57		Williams	2000 CY ₂₇
2000 CA ₂₈	15.8	0.15	20000206	285.54227	277.79533	305.55705	3.07651	0.0589310	2.2424785	28	1	32 days	0.49		Williams	2000 CA ₂₈
2000 CB ₂₈	15.2	0.15	20000206	83.06796	231.94187	160.76440	2.69691	0.2383123	2.3887854	48	1	38 days	0.57		Williams	2000 CB ₂₈
2000 CG ₂₈	14.3	0.15	20000206	98.43486	243.95344	153.54274	11.98014	0.0699110	3.0016444	39	1	38 days	0.51		Williams	2000 CG ₂₈
2000 CH ₂₈	15.6	0.15	20000206	59.96641	173.29970	243.66816	1.66811	0.2272538	2.2736294	28	1	32 days	0.57		Williams	2000 CH ₂₈
2000 CJ ₂₈	15.7	0.15	20000206	35.61911	261.68799	193.58448	1.78531	0.1524120	2.5562110	46	1	38 days	0.60		Williams	2000 CJ ₂₈
2000 CK ₂₈	14.1	0.15	20000206	54.81249	284.29528	155.03374	17.41475	0.0979820	3.1921102	19	1	38 days	0.50		Williams	2000 CK ₂₈
2000 CL ₂₈	14.7	0.15	20000206	1.83622	333.71084	168.13150	7.06924	0.0753496	2.7982349	21	1	38 days	0.57		Williams	2000 CL ₂₈
2000 CM ₂₈	14.3	0.15	20000226	357.05679	355.80468	157.20356	7.90722	0.1349903	2.5897873	58	1	88 days	0.50	M-v 3	Williams	2000 CM ₂₈
2000 CN ₂₈	15.1	0.15	20000206	42.49421	187.89172	248.46617	2.51448	0.2514415	2.5571898	20	1	31 days	0.46		Williams	2000 CN ₂₈
2000 CU ₂₈	13.7	0.15	20000226	332.08460	39.02219	147.86937	17.91486	0.1592234	3.1270511	66	1	97 days	0.48	M-v 4	Williams	2000 CU ₂₈
2000 CV ₂₈	16.2	0.15	20000206	308.77929	306.31331	264.42692	1.43311	0.1619755	2.3845478	38	1	38 days	0.41		Williams	2000 CV ₂₈
2000 CW ₂₈	16.4	0.15	20000206	291.32755	303.48380	277.76848	2.13207	0.0813045	2.2937327	26	1	38 days	0.64		Williams	2000 CW ₂₈
2000 CY ₂₈	14.6	0.15	20000226	22.19013	323.54699	157.25693	1.40797	0.1398035	2.4254931	97	1	98 days	0.41	M-v 4	Williams	2000 CY ₂₈
2000 CZ ₂₈	13.1	0.15	20000226	80.78478	251.73402	150.84507	9.07871	0.2238129	3.1360345	51	1	65 days	0.55	M-v 5	Williams	2000 CZ ₂₈
2000 CA ₂₉	13.0	0.15	20000226	183.53612	177.84297	148.03132	9.97706	0.0808610	3.0678574	69	2	1998–2000	0.50	M-v 4	Williams	38728 2000 CA ₂₉
2000 CB ₂₉	15.6	0.15	20000206	52.15714	141.79335	298.58703	3.40112	0.1127424	2.2667561	23	1	38 days	0.52		Williams	2000 CB ₂₉
2000 CD ₂₉	14.5	0.15	20000206	254.92839	13.17736	255.10617	1.44671	0.1778224	2.3857318	29	1	38 days	0.53		Williams	2000 CD ₂₉
2000 CJ ₂₉	15.1	0.15	20000206	108.01563	223.81042	154.65017	4.70462	0.1823186	2.1910668	54	1	39 days	0.50		Williams	2000 CJ ₂₉
2000 CL ₂₉	15.0	0.15	20000206	314.83351	44.28467	158.08751	7.91261	0.1388939	2.5848217	29	1	39 days	0.42		Williams	2000 CL ₂₉
2000 CN ₂₉	14.2	0.15	20000206	238.21170	118.69000	158.56677	9.28211	0.1057253	2.7521280	27	1	38 days	0.53		Williams	2000 CN ₂₉
2000 CP ₂₉	14.3	0.15	20000226	339.11667	16.51224	164.62972	5.37746	0.1667061	2.6850442	41	1	97 days	0.42	M-v 4	Williams	2000 CP ₂₉
2000 CQ ₂₉	15.6	0.15	20000206	329.79044	220.08371	318.16260	4.31365	0.0642990	2.4368914	44	1	38 days	0.59		Williams	2000 CQ ₂₉
2000 CS ₂₉	14.1	0.15	20000206	69.74639	101.19161	322.06028	9.25477	0.1123999	2.9993725	16	1	32 days	0.52		Williams	2000 CS ₂₉
2000 CU ₂₉	13.6	0.15	20000206	74.28325	70.20568	323.45042	13.10064	0.3321844	3.0867252	20	1	32 days	0.66		Williams	2000 CU ₂₉
2000 CW ₂₉	15.3	0.15	20000206	55.87002	273.54174	154.31495	2.88616	0.1912725	2.3688844	56	1	39 days	0.46		Williams	2000 CW ₂₉
2000 CY ₂₉	14.1	0.15	20000206	318.02913	42.39381	150.61234	6.25361	0.0715842	2.6249511	13	1	30 days	0.40		Williams	2000 CY ₂₉
2000 CZ ₂₉	15.0	0.15	20000206	359.65897	186.24422	318.71676	5.17317	0.1626019	2.6509030	29	1	38 days	0.36		Williams	2000 CZ ₂₉
2000 CA ₃₀	14.2	0.15	20000206	82.16777	254.55662	163.07255	2.29410	0.0541799	2.8644541	39	1	39 days	0.61		Williams	2000 CA ₃₀
2000 CB ₃₀	13.1	0.15	20000226	255.01453	110.41953	149.61112	2.44968	0.0465424	2.9103479	67	1	100 days	0.41	M-v 5	Williams	2000 CB ₃₀
2000 CD ₃₀	13.0	0.15	20000206	304.95854	51.32452	161.43847	5.50002	0.1101010	3.1187693	37	1	38 days	0.57		Williams	2000 CD ₃₀
2000 CE ₃₀	14.0	0.15	20000206	254.93419	105.59474	152.22153	9.80948	0.0523381	3.1567039	34	1	39 days	0.43		Williams	2000 CE ₃₀
2000 CG ₃₀	15.4	0.15	20000206	330.67742	13.33683	168.87069	1.21665	0.1231720	2.3917164	50	1	41 days	0.59		Williams	2000 CG ₃₀
2000 CH ₃₀	13.9	0.15	20000226	100.01990	242.92421	149.08315	16.82426	0.1748203	2.6706808	51	1	63 days	0.42	M-v 5	Williams	2000 CH ₃₀
2000 CK ₃₀	14.7	0.15	20000206	297.17869	60.85394	162.72912	5.68260	0.1307322	2.5813188	35	1	38 days	0.40		Williams	2000 CK ₃₀
2000 CL ₃₀	15.1	0.15	20000226	320.78475	80.21388	147.79939	28.39502	0.3595846	2.6263347	57	1	64 days	0.45	M-v 4	Williams	2000 CL ₃₀
2000 CV ₃₀	17.1	0.15	20000206	75.11711	230.89445	166.07594	1.15028	0.1806998	2.3739222	12	1	37 days	0.31		Williams	2000 CV ₃₀
2000 CA ₃₁	14.0	0.15	20000117	151.23062	88.72681	243.25607	2.09712	0.2112927	2.5922110	14	1	6 days	0.64		E Williams	2000 CA ₃₁
2000 CF ₃₁	13.7	0.15	20000206	175.03855	159.79957	161.34789	5.17070	0.1576360	2.7431026	17	1	32 days	0.55		Williams	2000 CF ₃₁
2000 CG ₃₁	16.3	0.15	20000206	21.54598	162.26453	309.35242	4.54128	0.0835485	2.2984228	14	1	27 days	0.50		Williams	2000 CG ₃₁
2000 CK ₃₁	15.3	0.15	20000226	234.26354	355.46635	281.07661	5.43073	0.0939547	2.2952265	26	2	1994–2000	0.52	M-v 5	Williams	38728 2000 CK ₃₁
2000 CO ₃₁	15.5	0.15	20000206	145.88657	176.17138	169.27395	3.92751	0.1180033	2.2399249	15	1	27 days	0.81		Williams	2000 CO ₃₁
2000 CP ₃₁	16.4	0.15	20000206	84.87591	243.70728	154.95290	6.53708	0.1329183	2.3509552	29	1	41 days	0.69		Williams	2000 CP ₃₁
2000 CQ ₃₁	14.2	0.15	20000206	233.09042	111.94224	168.09546	4.51956	0.1729422	2.5351822	18	1	32 days	0.66		Williams	2000 CQ ₃₁
2000 CU ₃₁	14.6	0.15	20000226	11.67143	341.46785	147.84024	15.40207	0.1588913	3.1246595	42	1	63 days	0.49	M-v 4	Williams	2000 CU ₃₁
2000 CV ₃₁	14.6	0.15	20000206	222.46568	331.68987	311.96930	8.58124	0.0660658	3.0961020	21	1	30 days	0.41		Williams	2000 CV ₃₁
2000 CW ₃₁	15.8	0.15	20000206	75.95923	189.75388	221.51555	1.76144	0.1230706	2.2994630	14	1	32 days	0.57		Williams	2000 CW ₃₁

2000 MAR. 20

M.P.C. 39591

2000 CZ ₃₁	12.6	0.15	20000206	47.20018	279.74681	174.28774	6.69955	0.0314868	5.1964799	30	1	38 days	0.56	Williams	2000 CZ ₃₁
2000 CE ₃₂	16.2	0.15	20000206	317.59823	31.41961	167.42870	5.04065	0.1562657	2.4068894	33	1	32 days	1.14	Williams	2000 CE ₃₂
2000 CF ₃₂	15.5	0.15	20000206	324.21964	26.87774	167.05975	5.36676	0.1870295	2.6712517	41	1	38 days	1.02	Williams	2000 CF ₃₂
2000 CJ ₃₂	13.6	0.15	20000206	171.37923	7.76566	324.89095	13.02200	0.1660626	2.6621459	34	1	38 days	0.52	Williams	2000 CJ ₃₂
2000 CK ₃₂	15.9	0.15	20000206	22.37734	299.60607	161.78718	1.57430	0.1585749	3.0591499	12	1	37 days	0.40	Williams	2000 CK ₃₂
2000 CN ₃₂	14.6	0.15	20000206	280.44752	73.96717	148.46050	11.70675	0.0564650	2.9730933	18	1	27 days	0.83	Williams	2000 CN ₃₂
2000 CQ ₃₂	14.2	0.15	20000206	168.68005	22.19098	305.30372	6.30287	0.2123741	2.3274337	18	1	32 days	0.55	Williams	2000 CQ ₃₂
2000 CR ₃₂	15.7	0.15	20000206	309.25095	57.81395	149.08032	10.06127	0.1041758	2.4599631	41	1	38 days	0.37	Williams	2000 CR ₃₂
2000 CT ₃₂	15.3	0.15	20000206	271.87038	291.35912	321.72887	4.29782	0.1626696	2.3820670	34	1	38 days	0.47	Williams	2000 CT ₃₂
2000 CU ₃₂	15.9	0.15	20000206	306.89334	358.28835	212.29802	0.92569	0.1108564	2.3049933	28	1	38 days	0.50	Williams	2000 CU ₃₂
2000 CX ₃₂	16.1	0.15	20000206	36.80441	163.83644	300.21689	2.35225	0.0858397	2.4030221	51	1	38 days	0.60	Williams	2000 CX ₃₂
2000 CD ₃₃	16.7	0.15	20000206	340.03977	19.15215	152.03545	5.58792	0.0933803	2.2948075	35	1	38 days	0.61	Williams	2000 CD ₃₃
2000 CH ₃₃	14.5	0.15	20000206	10.62254	355.43565	141.46974	1.75293	0.1812405	3.1608258	47	1	36 days	0.85	Williams	2000 CH ₃₃
2000 CK ₃₃	18.4	0.15	20000206	102.42786	215.55967	124.95599	18.11423	0.4149121	0.9683280	110	1	26 days	0.57	Williams	2000 CK ₃₃
2000 CL ₃₃	18.1	0.15	20000226	28.36493	127.60196	298.19360	8.85410	0.5521677	2.4739110	58	1	42 days	0.58	Williams	2000 CL ₃₃
2000 CM ₃₃	21.2	0.15	20000226	346.75628	50.08520	132.98264	11.55608	0.2720590	1.3224219	163	1	37 days	0.58	Williams	38898 2000 CM ₃₃
2000 CN ₃₃	19.4	0.15	20000206	4.50878	351.49284	129.68649	17.69807	0.5874614	2.6005649	89	1	26 days	0.41	Williams	2000 CN ₃₃
2000 CO ₃₃	21.1	0.15	20000226	5.67018	178.83325	319.72898	18.20102	0.5638880	2.3298071	68	1	39 days	0.61	Williams	2000 CO ₃₃
2000 CP ₃₃	14.6	0.15	20000206	67.70477	299.94216	101.06845	14.05289	0.2650378	2.6837588	23	1	38 days	0.61	Williams	2000 CP ₃₃
2000 CQ ₃₃	14.4	0.15	20000117	44.65841	308.58617	125.14441	6.21673	0.1699385	3.1842611	33	1	58 days	0.72	Williams	2000 CQ ₃₃
2000 CR ₃₃	15.6	0.15	20000206	12.03429	162.77798	323.41989	13.99628	0.1247382	2.5747840	40	1	35 days	0.66	Williams	2000 CR ₃₃
2000 CU ₃₃	16.5	0.15	20000206	15.29148	146.24159	337.92757	2.25866	0.1359811	2.3706704	41	1	35 days	0.67	Williams	2000 CU ₃₃
2000 CV ₃₃	15.6	0.15	20000206	346.63032	27.07450	135.87267	4.61364	0.0580551	2.4715906	38	1	36 days	0.46	Williams	2000 CV ₃₃
2000 CW ₃₃	15.5	0.15	20000206	36.98737	110.24473	350.01704	2.32923	0.1288602	2.4097953	48	1	38 days	0.41	Williams	2000 CW ₃₃
2000 CX ₃₃	15.5	0.15	20000206	13.73771	342.45023	144.23915	13.14936	0.2251987	3.1421024	41	1	39 days	0.78	Williams	2000 CX ₃₃
2000 CY ₃₃	14.4	0.15	20000206	99.76863	247.77147	148.55192	14.25675	0.1616506	2.5793031	34	1	37 days	0.53	Williams	2000 CY ₃₃
2000 CZ ₃₃	15.0	0.15	20000206	38.69088	120.82316	339.90870	5.71155	0.1523597	2.6983853	32	1	36 days	0.42	Williams	2000 CZ ₃₃
2000 CG ₃₄	15.7	0.15	20000206	349.21565	9.10973	155.10749	6.75862	0.0647708	2.4357306	36	1	35 days	0.70	Williams	2000 CG ₃₄
2000 CP ₃₄	14.6	0.15	20000206	65.38635	25.02556	62.81022	1.76434	0.0992143	3.1325835	23	1	39 days	0.51	Williams	2000 CP ₃₄
2000 CQ ₃₄	13.7	0.15	20000226	69.74907	11.77619	70.13597	1.66294	0.1451745	3.2287927	57	4	1991–2000	0.57	Williams	38728 2000 CQ ₃₄
2000 CT ₃₄	15.2	0.15	20000206	276.27250	70.68576	162.36356	7.76766	0.1138203	3.1148054	31	1	29 days	0.48	Williams	2000 CT ₃₄
2000 CX ₃₄	15.0	0.15	20000206	264.17355	9.04529	231.23341	3.30371	0.1273666	2.3187177	26	1	32 days	0.48	Williams	2000 CX ₃₄
2000 CZ ₃₄	12.4	0.15	20000206	54.59454	284.08354	142.35438	5.33790	0.0739765	5.2619835	11	1	37 days	0.68	Williams	2000 CZ ₃₄
2000 CB ₃₆	13.5	0.15	20000226	336.09690	265.18355	282.53103	3.56071	0.1598784	2.5363613	44	1	130 days	0.57	Williams	2000 CB ₃₆
2000 CD ₃₆	14.6	0.15	20000226	28.55846	308.09728	156.00072	8.23029	0.2888282	2.7727106	55	1	97 days	0.46	Williams	2000 CD ₃₆
2000 CE ₃₆	13.4	0.15	20000226	290.67120	275.35120	325.25088	12.11315	0.1423138	2.6999552	47	2	1998–2000	0.76	Williams	38729 2000 CE ₃₆
2000 CH ₃₆	15.5	0.15	20000226	353.96508	207.97990	317.85392	2.83264	0.1731627	2.3469930	37	1	66 days	0.56	Williams	2000 CH ₃₆
2000 CP ₃₆	14.4	0.15	20000206	41.12895	304.72425	164.60029	5.97954	0.0473225	2.7797914	49	1	38 days	0.78	Williams	2000 CP ₃₆
2000 CQ ₃₆	13.2	0.15	20000206	174.63718	177.83115	162.21034	14.51601	0.1875818	2.8603301	35	1	38 days	0.62	Williams	2000 CQ ₃₆
2000 CR ₃₆	15.2	0.15	20000206	15.54701	173.72235	321.08438	1.56880	0.0870286	2.4029513	42	1	38 days	0.50	Williams	2000 CR ₃₆
2000 CS ₃₆	13.4	0.15	20000206	29.91750	187.20272	289.22630	2.79418	0.1454692	3.1350483	35	1	40 days	0.94	Williams	2000 CS ₃₆
2000 CV ₃₆	14.8	0.15	20000206	305.73728	69.65076	167.74406	12.43014	0.2438202	2.5661895	30	1	38 days	0.41	Williams	2000 CV ₃₆
2000 CX ₃₆	14.7	0.15	20000226	69.84913	99.08375	330.74457	4.63011	0.1776910	2.2806882	57	1	61 days	0.43	Williams	2000 CX ₃₆
2000 CY ₃₆	15.7	0.15	20000206	15.84090	190.81085	305.83153	3.11673	0.0983113	2.3752808	27	1	38 days	0.40	Williams	2000 CY ₃₆
2000 CD ₃₇	12.9	0.15	20000206	237.27262	126.35330	167.85740	10.51927	0.1080665	2.9706416	68	1	39 days	0.47	Williams	2000 CD ₃₇
2000 CE ₃₇	13.5	0.15	20000226	319.58556	42.95948	165.24215	10.90148	0.0366857	3.0008434	46	2	1995–2000	0.42	Williams	38729 2000 CE ₃₇
2000 CF ₃₇	13.9	0.15	20000206	302.89864	256.81614	328.60650	3.63121	0.0719323	3.0481952	31	1	38 days	0.38	Williams	2000 CF ₃₇
2000 CH ₃₇	15.6	0.15	20000206	32.16145	271.24729	196.69126	1.59200	0.1714623	2.4149935	37	1	38 days	0.40	Williams	2000 CH ₃₇
2000 CJ ₃₇	15.3	0.15	20000206	90.71523	9.17716	17.32113	4.78154	0.1629940	2.2414566	28	1	30 days	0.46	Williams	2000 CJ ₃₇
2000 CY ₃₇	14.3	0.15	20000226	191.61427	349.83614	315.98819	12.71243	0.0599125	2.8694701	26	1	66 days	0.57	Williams	2000 CY ₃₇
2000 CF ₃₈	16.4	0.15	20000206	342.52037	40.48889	122.19895	1.58583	0.2298220	2.5710097	23	1	31 days	1.18	Williams	2000 CF ₃₈
2000 CH ₃₈	15.4	0.15	20000206	359.44427	3.39555	132.16364	1.90513	0.0939238	2.7278955	18	1	8 days	0.70	E Marsden	2000 CH ₃₈
2000 CR ₃₈	16.8	0.15	20000206	32.36039	134.57432	316.99470	6.00780	0.1209257	2.2977514	10	1	30 days	0.34	Williams	2000 CR ₃₈

2000 CT ₃₈	13.7	0.15	20000206	104.66749	254.25907	129.58751	10.06978	0.0763661	3.1526295	21	1	25 days	0.62		Williams	2000 CT ₃₈
2000 CW ₃₈	14.5	0.15	20000117	39.75427	320.83690	129.86372	9.79539	0.0847029	3.0900405	35	1	58 days	0.63		Williams	2000 CW ₃₈
2000 CX ₃₈	14.6	0.15	20000226	110.26551	288.30188	87.65341	1.97638	0.2045601	2.4275867	41	3	1994–2000	0.60	M-v 4	Williams	38729 2000 CX ₃₈
2000 CZ ₃₈	15.6	0.15	20000226	345.47758	113.93764	66.56906	5.54673	0.2529877	2.5740379	30	1	64 days	0.43	M-v 4	Williams	2000 CZ ₃₈
2000 CC ₃₉	15.5	0.15	20000226	29.02992	72.72932	31.72719	4.85089	0.2517266	2.6025503	55	1	62 days	0.52	M-v 5	Williams	2000 CC ₃₉
2000 CK ₃₉	15.0	0.15	20000226	25.27761	348.67473	129.42950	2.60074	0.1239339	2.4757167	55	2	1998–2000	0.57	M-v 4	Williams	38729 2000 CK ₃₉
2000 CN ₃₉	17.4	0.15	20000206	3.09434	357.76615	139.60328	23.55206	0.0707163	1.9221054	37	1	24 days	0.86		Marsden	2000 CN ₃₉
2000 CO ₃₉	16.9	0.15	20000206	227.36951	131.90076	143.36247	23.86158	0.0648562	1.9888401	41	1	29 days	0.40		Williams	2000 CO ₃₉
2000 CP ₃₉	16.6	0.15	20000206	320.17404	51.22876	138.33008	5.96696	0.0998253	2.2347721	35	1	30 days	0.90		Williams	2000 CP ₃₉
2000 CQ ₃₉	15.7	0.15	20000226	68.02170	284.66830	129.09267	7.56536	0.1938718	2.3694814	34	1	62 days	0.61	M-v 5	Williams	2000 CQ ₃₉
2000 CR ₃₉	15.9	0.15	20000226	354.39048	26.46768	130.47968	1.61270	0.1649992	2.2947218	73	1	95 days	0.56	M-v 4	Williams	2000 CR ₃₉
2000 CX ₃₉	16.3	0.15	20000226	32.76347	294.19356	143.08777	29.69480	0.3709414	2.5942886	27	1	60 days	0.51	M-v 5	Williams	2000 CX ₃₉
2000 CY ₃₉	16.1	0.15	20000206	30.13843	317.54374	149.82557	23.21982	0.0589679	1.9251492	51	1	54 days	1.05		Williams	2000 CY ₃₉
2000 CA ₄₀	14.7	0.15	20000206	86.46913	226.12732	161.07559	22.13274	0.3039269	2.3600476	36	1	38 days	0.73		Williams	2000 CA ₄₀
2000 CB ₄₀	16.5	0.15	20000206	77.30687	270.21631	153.56561	23.91720	0.0618613	1.8794918	21	1	39 days	0.65		Williams	2000 CB ₄₀
2000 CD ₄₀	15.9	0.15	20000206	15.79841	148.73520	332.63367	32.64752	0.1752223	2.6168784	41	1	37 days	0.55		Williams	2000 CD ₄₀
2000 CG ₄₀	16.1	0.15	20000206	104.96479	49.71354	338.78376	19.18461	0.1403884	1.9111053	57	1	39 days	0.58		Williams	2000 CG ₄₀
2000 CN ₄₀	14.8	0.15	20000117	42.78492	291.34039	138.46655	12.77225	0.2578927	3.0943723	40	1	52 days	0.60		Marsden	2000 CN ₄₀
2000 CP ₄₀	13.7	0.15	20000226	316.92122	77.73321	126.97448	10.48426	0.0883422	3.0605043	41	2	1989–2000	0.51	M-v 4	Williams	38729 2000 CP ₄₀
2000 CQ ₄₀	16.8	0.15	20000206	12.80110	23.41474	102.28869	4.29368	0.2450941	2.6334442	40	1	40 days	0.56		Williams	2000 CQ ₄₀
2000 CR ₄₀	16.2	0.15	20000206	13.11100	84.68836	46.18100	3.33044	0.1169591	2.3800823	39	1	43 days	0.37		Williams	2000 CR ₄₀
2000 CS ₄₀	15.2	0.15	20000206	307.73452	80.57142	134.53596	15.55422	0.1126038	3.0854281	32	1	40 days	0.51		Williams	2000 CS ₄₀
2000 CT ₄₀	15.2	0.15	20000206	220.45293	215.41452	80.61018	4.95242	0.0678472	2.6547500	36	1	40 days	0.57		Williams	2000 CT ₄₀
2000 CU ₄₀	13.0	0.15	20000226	200.41131	293.78814	24.20910	6.20890	0.0651777	2.8576368	39	1	62 days	0.44	M-v 5	Williams	2000 CU ₄₀
2000 CX ₄₀	16.0	0.15	20000226	13.04257	37.12130	98.67716	3.91320	0.1643796	2.3314297	41	1	65 days	0.48	M-v 4	Williams	2000 CX ₄₀
2000 CZ ₄₀	15.0	0.15	20000226	4.22589	357.08581	158.98264	25.90656	0.1826479	2.3170249	33	1	61 days	0.39	M-v 4	Williams	2000 CZ ₄₀
2000 CB ₄₁	15.3	0.15	20000206	355.93193	185.72418	323.83259	9.71334	0.1652805	3.1570028	31	1	34 days	0.50		Williams	2000 CB ₄₁
2000 CD ₄₁	16.1	0.15	20000206	22.28037	136.51680	333.90126	3.84813	0.2551288	3.2536322	8	1	19 days	0.30		Williams	2000 CD ₄₁
2000 CE ₄₁	14.7	0.15	20000206	112.42857	239.40922	147.02893	16.10398	0.1116413	3.0898394	9	1	3 days	0.31		E Marsden	2000 CE ₄₁
2000 CF ₄₁	14.9	0.15	20000206	273.27087	273.73434	345.88626	2.67573	0.2207199	2.3238607	46	1	37 days	0.66		Williams	2000 CF ₄₁
2000 CG ₄₁	16.1	0.15	20000117	34.88342	94.77851	347.64101	1.90098	0.0596293	2.4719940	21	1	55 days	0.44		Williams	2000 CG ₄₁
2000 CP ₄₂	14.5	0.15	20000206	299.37791	74.31861	146.02910	26.78177	0.2044783	3.1322889	16	1	27 days	0.76		Williams	2000 CP ₄₂
2000 CB ₄₃	14.2	0.15	20000226	107.98166	82.47423	298.33187	7.71928	0.1462845	2.6267449	29	2	1996–2000	0.57	M-v 5	Williams	38729 2000 CB ₄₃
2000 CC ₄₃	16.0	0.15	20000206	98.54702	137.94820	244.73250	3.61027	0.1641107	2.2072073	26	1	33 days	0.56		Williams	2000 CC ₄₃
2000 CL ₄₃	16.2	0.15	20000206	40.37597	172.38710	271.71362	1.28571	0.1857456	2.4259936	29	1	30 days	0.56		Williams	2000 CL ₄₃
2000 CX ₄₃	14.7	0.15	20000206	24.30570	317.11455	153.99173	7.91632	0.1248299	3.1054590	38	1	38 days	0.55		Williams	2000 CX ₄₃
2000 CL ₄₄	13.2	0.15	20000206	328.64253	0.91195	182.20399	10.02463	0.1213729	3.1680176	18	1	11 days	0.57		Williams	2000 CL ₄₄
2000 CU ₄₄	14.8	0.15	20000206	317.23519	351.69099	212.92784	3.94531	0.1932001	2.5605654	16	1	27 days	0.38		Nakano	2000 CU ₄₄
2000 CV ₄₄	15.5	0.15	20000206	336.74400	312.51571	224.03904	3.50959	0.1718671	2.5399953	14	1	27 days	0.53		Nakano	2000 CV ₄₄
2000 CD ₄₅	13.6	0.15	20000206	287.70712	64.22997	161.66906	13.17384	0.0754631	2.7460346	28	1	38 days	0.58		Williams	2000 CD ₄₅
2000 CF ₄₅	16.2	0.15	20000206	3.72266	338.48119	159.16842	13.57731	0.2100314	2.5181983	28	1	38 days	0.52		Williams	2000 CF ₄₅
2000 CC ₄₆	15.1	0.15	20000206	34.07088	299.59499	159.35092	13.82707	0.1634806	2.7218641	24	1	38 days	0.38		Williams	2000 CC ₄₆
2000 CJ ₄₆	16.1	0.15	20000206	299.79243	60.82034	157.88449	1.51313	0.1342075	2.3787843	52	1	39 days	0.58		Williams	2000 CJ ₄₆
2000 CK ₄₆	15.9	0.15	20000206	56.82780	272.48986	164.86284	7.16172	0.1084021	2.3008161	12	1	27 days	0.49		Williams	2000 CK ₄₆
2000 CL ₄₆	12.8	0.15	20000206	306.86913	45.32690	162.40300	11.99706	0.0758739	3.0602241	29	1	38 days	1.11		Williams	2000 CL ₄₆
2000 CM ₄₆	16.7	0.15	20000206	24.19646	310.91197	168.35656	6.33746	0.0415035	2.3044365	22	1	30 days	0.65		Williams	2000 CM ₄₆
2000 CN ₄₆	13.7	0.15	20000206	178.84970	165.56688	162.74465	13.20017	0.2077704	2.5838942	23	1	38 days	0.46		Williams	2000 CN ₄₆
2000 CC ₄₇	15.7	0.15	20000206	7.46562	328.98482	163.77329	9.40055	0.1144141	2.7349445	23	1	32 days	0.59		Williams	2000 CC ₄₇
2000 CP ₄₇	14.6	0.15	20000206	261.92359	47.42953	208.08986	5.62295	0.0912385	2.4235602	21	1	32 days	0.47		Williams	2000 CP ₄₇
2000 CV ₄₇	14.0	0.15	20000206	334.00830	307.02399	232.52111	4.19818	0.1171210	2.5524545	26	1	40 days	1.25		Williams	2000 CV ₄₇
2000 CB ₄₈	13.4	0.15	20000206	301.33238	64.67150	162.36237	17.09176	0.1811242	3.0886720	36	1	38 days	0.42		Williams	2000 CB ₄₈
2000 CC ₄₈	14.6	0.15	20000206	289.65973	280.83974	302.64744	10.35287	0.0381385	2.5807718	29	1	38 days	0.64		Williams	2000 CC ₄₈
2000 CE ₄₈	13.5	0.15	20000226	281.54956	315.89369	287.64324	8.13485	0.1004717	2.7940034	53	3	1997–2000	0.63	M-v 3	Williams	38729 2000 CE ₄₈

2000 MAR. 20

M.P.C. 39593

2000 CR ₄₈	14.2	0.15	20000226	352.01851	252.06408	271.98290	6.01348	0.0641722	2.3535911	42	1	99 days	0.55	M-v	4	Williams	2000 CR ₄₈
2000 CX ₄₈	13.6	0.15	20000226	68.57533	269.86045	159.91439	15.25202	0.1285255	2.8436271	65	1	63 days	0.48	M-v	5	Williams	2000 CX ₄₈
2000 CZ ₄₈	15.3	0.15	20000206	24.72057	307.11662	162.23691	10.66282	0.2150541	2.9946803	62	1	38 days	0.53			Williams	2000 CZ ₄₈
2000 CA ₄₉	14.6	0.15	20000206	160.88020	164.34558	182.64095	5.16545	0.0205653	2.7625153	32	1	38 days	0.58			Williams	2000 CA ₄₉
2000 CC ₄₉	16.2	0.15	20000206	11.39750	202.16314	288.81336	2.58742	0.1655500	2.5438387	32	1	38 days	1.06			Williams	2000 CC ₄₉
2000 CG ₄₉	15.7	0.15	20000206	29.42202	303.54061	165.32809	6.58954	0.1305031	2.3320317	50	1	38 days	0.60			Williams	2000 CG ₄₉
2000 CJ ₄₉	15.1	0.15	20000206	30.40514	309.85860	159.09557	13.84795	0.1333371	2.7089845	50	1	38 days	0.53			Williams	2000 CJ ₄₉
2000 CO ₄₉	15.6	0.15	20000206	313.31574	347.94883	221.63726	3.02737	0.1480651	2.4020806	19	1	38 days	0.55			Williams	2000 CO ₄₉
2000 CQ ₄₉	15.8	0.15	20000206	59.40141	134.28948	309.04396	12.06203	0.0760830	2.6437612	23	1	40 days	0.61			Williams	2000 CQ ₄₉
2000 CB ₅₀	13.9	0.15	20000226	329.32906	242.30184	309.08199	12.96382	0.0613932	2.7395254	23	1	65 days	0.53	M-v	4	Williams	2000 CB ₅₀
2000 CH ₅₀	15.6	0.15	20000206	338.49894	352.79325	189.64163	3.61870	0.2281303	2.5700608	20	1	38 days	0.37			Williams	2000 CH ₅₀
2000 CN ₅₀	15.5	0.15	20000206	317.91570	35.49724	163.71000	6.21378	0.0959542	2.4774771	30	1	38 days	0.49			Williams	2000 CN ₅₀
2000 CQ ₅₀	14.9	0.15	20000206	272.83554	99.47893	153.45448	15.54218	0.1380934	2.5727262	40	1	39 days	0.83			Williams	2000 CQ ₅₀
2000 CT ₅₀	14.2	0.15	20000206	295.12065	280.22336	314.89444	6.53887	0.1686579	2.7623848	43	1	38 days	0.52			Williams	2000 CT ₅₀
2000 CV ₅₀	15.0	0.15	20000206	52.42554	191.86010	244.60946	1.38957	0.1977816	2.4306586	26	1	38 days	0.51			Williams	2000 CV ₅₀
2000 CX ₅₀	16.4	0.15	20000206	10.31560	339.65284	154.28699	13.91547	0.1869129	2.5743776	38	1	42 days	0.52			Williams	2000 CX ₅₀
2000 CZ ₅₀	14.1	0.15	20000206	56.22768	287.30231	162.49088	15.20936	0.0465373	2.7224130	23	1	38 days	0.40			Williams	2000 CZ ₅₀
2000 CA ₅₁	14.1	0.15	20000206	146.11965	196.33843	166.86719	12.22893	0.0334838	2.6145239	38	1	38 days	0.31			Williams	2000 CA ₅₁
2000 CB ₅₁	14.2	0.15	20000206	325.16592	234.70150	320.48833	16.72538	0.1043307	3.1086304	23	1	38 days	0.91			Williams	2000 CB ₅₁
2000 CJ ₅₁	14.2	0.15	20000206	200.29301	5.52708	131.05438	13.83032	0.1827009	2.6013925	10	1	38 days	0.33			Williams	2000 CJ ₅₁
2000 CS ₅₁	14.2	0.15	20000206	325.87680	37.58534	168.45766	5.87745	0.2396325	3.0902874	39	1	38 days	0.63			Williams	2000 CS ₅₁
2000 CW ₅₁	15.8	0.15	20000206	8.03138	177.00095	321.46966	4.22362	0.1345954	2.4293038	47	1	39 days	0.59			Williams	2000 CW ₅₁
2000 CX ₅₁	15.3	0.15	20000206	62.92340	137.99092	295.51163	2.10405	0.1251687	2.3258237	27	1	38 days	0.45			Williams	2000 CX ₅₁
2000 CC ₅₂	15.8	0.15	20000206	346.57933	207.45348	320.09122	2.82284	0.1466849	2.3683510	44	1	38 days	0.54			Williams	2000 CC ₅₂
2000 CD ₅₂	14.2	0.15	20000206	341.37139	5.57988	171.54736	1.51647	0.1268376	3.2106609	24	1	38 days	0.78			Williams	2000 CD ₅₂
2000 CE ₅₂	15.6	0.15	20000206	341.56936	20.17784	152.85695	15.36153	0.0825394	2.5157317	45	1	39 days	0.47			Williams	2000 CE ₅₂
2000 CJ ₅₂	15.1	0.15	20000206	261.42282	70.67462	197.07163	2.56143	0.1581899	2.2129855	26	1	38 days	0.34			Williams	2000 CJ ₅₂
2000 CK ₅₂	15.3	0.15	20000206	332.50284	12.60230	173.02232	4.34923	0.1113097	2.4170791	23	1	38 days	0.58			Williams	2000 CK ₅₂
2000 CM ₅₂	15.2	0.15	20000206	332.24384	318.41942	225.14457	2.41454	0.0634190	2.5134688	32	1	38 days	0.60			Williams	2000 CM ₅₂
2000 CT ₅₂	15.8	0.15	20000206	28.03767	221.47423	252.29417	1.51935	0.1542551	2.3678320	28	1	38 days	0.52			Williams	2000 CT ₅₂
2000 CX ₅₂	15.6	0.15	20000206	281.12534	78.64963	167.42385	10.25126	0.1147419	2.2637261	46	1	42 days	0.50			Williams	2000 CX ₅₂
2000 CY ₅₂	13.7	0.15	20000206	279.69128	60.67929	191.19718	3.72450	0.1385534	2.6293544	21	1	38 days	0.44			Williams	2000 CY ₅₂
2000 CA ₅₃	15.1	0.15	20000206	264.88972	22.05783	243.25995	1.37144	0.1561584	2.3024251	26	1	38 days	0.34			Williams	2000 CA ₅₃
2000 CB ₅₃	13.7	0.15	20000206	83.31346	261.22562	160.53906	13.95634	0.0972034	3.1663259	41	1	38 days	0.53			Williams	2000 CB ₅₃
2000 CD ₅₃	14.7	0.15	20000206	229.19722	136.53225	160.14074	14.11238	0.1315878	2.6110882	34	1	38 days	0.54			Williams	2000 CD ₅₃
2000 CH ₅₃	13.9	0.15	20000206	277.52842	279.53032	330.64762	26.54737	0.0954590	2.5864811	24	1	40 days	0.75			Williams	2000 CH ₅₃
2000 CJ ₅₃	13.5	0.15	20000206	299.98171	55.46909	167.45158	10.83896	0.0428079	3.0566176	36	1	38 days	0.48			Williams	2000 CJ ₅₃
2000 CL ₅₃	15.4	0.15	20000206	12.56058	285.27255	212.16378	0.59968	0.1187735	2.4560933	42	1	38 days	0.56			Williams	2000 CL ₅₃
2000 CO ₅₃	13.6	0.15	20000206	254.47335	114.67230	159.78508	17.03932	0.0978587	3.0637771	50	1	38 days	0.80			Williams	2000 CO ₅₃
2000 CP ₅₃	12.6	0.15	20000206	53.17743	134.66331	331.05720	8.96885	0.0159234	2.9721505	29	1	38 days	0.49			Williams	2000 CP ₅₃
2000 CR ₅₃	15.5	0.15	20000206	21.73379	160.88154	326.34569	3.89023	0.1634265	2.5594654	43	1	38 days	0.48			Williams	2000 CR ₅₃
2000 CS ₅₃	14.2	0.15	20000226	287.68314	81.02997	167.72414	6.32007	0.1003154	2.4477545	46	1	70 days	0.47	M-v	5	Williams	2000 CS ₅₃
2000 CT ₅₃	14.4	0.15	20000206	227.59421	323.90092	341.33517	14.65121	0.1206917	2.6030539	41	1	38 days	0.46			Williams	2000 CT ₅₃
2000 CY ₅₃	15.8	0.15	20000206	93.46805	229.64131	165.83979	6.88360	0.1684034	2.2835743	34	1	38 days	0.55			Williams	2000 CY ₅₃
2000 CZ ₅₃	14.3	0.15	20000206	358.10552	205.46958	306.12197	4.06172	0.1227269	3.1769740	16	1	38 days	0.48			Williams	2000 CZ ₅₃
2000 CA ₅₄	15.4	0.15	20000206	57.94376	173.74347	261.23617	2.06418	0.1436412	2.3818743	32	1	38 days	0.67			Williams	2000 CA ₅₄
2000 CD ₅₄	14.9	0.15	20000206	158.76609	190.57068	158.59850	8.45232	0.0804930	2.6043091	33	1	39 days	0.80			Williams	2000 CD ₅₄
2000 CE ₅₄	13.4	0.15	20000206	229.12299	343.35376	310.53377	5.51197	0.1178056	3.1352796	27	1	38 days	0.36			Williams	2000 CE ₅₄
2000 CN ₅₄	15.4	0.15	20000206	311.59010	33.04173	186.95061	3.27851	0.2028142	2.3145682	26	1	38 days	0.42			Williams	2000 CN ₅₄
2000 CS ₅₄	14.5	0.15	20000206	356.47561	357.89996	166.08778	19.60317	0.1291629	3.0745595	34	1	38 days	0.96			Williams	2000 CS ₅₄
2000 CU ₅₄	14.5	0.15	20000206	315.17703	45.02624	160.42002	17.62365	0.1192487	2.5916642	38	1	38 days	0.62			Williams	2000 CU ₅₄
2000 CA ₅₅	15.7	0.15	20000117	14.79749	334.47643	127.48659	9.14791	0.2298878	2.6630102	28	1	59 days	0.51			Williams	2000 CA ₅₅
2000 CB ₅₅	14.2	0.15	20000206	248.60824	125.00727	141.35052	6.71017	0.1910379	2.6944938	21	1	31 days	0.59			Williams	2000 CB ₅₅

2000 CD ₅₅	14.8	0.15	20000206	301.23410	257.75992	289.57212	8.37299	0.0268845	2.9960003	22	1	25 days	1.00		Williams		2000 CD ₅₅
2000 CG ₅₅	13.5	0.15	20000226	64.86197	49.18221	27.50710	6.04176	0.0878967	3.2428125	53	3	1997-2000	0.60	M-v	3	Williams	38730 2000 CG ₅₅
2000 CT ₅₅	14.7	0.15	20000226	47.72285	122.27358	321.09702	8.72386	0.1566202	2.7795282	40	1	61 days	0.46	M-v	5	Williams	2000 CT ₅₅
2000 CU ₅₅	16.0	0.15	20000226	53.25636	107.98596	319.87422	5.58879	0.2429107	2.3351725	56	1	92 days	0.56	M-v	4	Williams	38902 2000 CU ₅₅
2000 CV ₅₅	15.8	0.15	20000206	296.99097	77.59253	140.72533	11.80100	0.1264666	2.6312354	26	1	29 days	0.57			Williams	2000 CV ₅₅
2000 CW ₅₅	16.2	0.15	20000206	69.91990	248.01299	160.28386	0.70929	0.2001973	2.2518850	40	1	39 days	0.58			Williams	2000 CW ₅₅
2000 CX ₅₅	13.9	0.15	20000226	119.89661	234.91565	143.49292	10.43417	0.0830202	2.7155887	81	1	97 days	0.55	M-v	4	Williams	2000 CX ₅₅
2000 CY ₅₅	15.6	0.15	20000226	4.90181	183.80509	318.47515	1.79167	0.0801424	2.3107584	48	2	1998-2000	0.62	M-v	4	Williams	38730 2000 CY ₅₅
2000 CZ ₅₅	14.5	0.15	20000226	349.84895	193.64296	324.65687	12.18202	0.0506641	2.7989361	51	1	64 days	0.54	M-v	4	Williams	2000 CZ ₅₅
2000 CA ₅₆	14.3	0.15	20000206	17.52205	337.87986	147.49258	2.06390	0.0420316	3.0843703	71	1	37 days	0.68			Williams	2000 CA ₅₆
2000 CC ₅₆	16.4	0.15	20000206	32.03323	132.61787	325.00688	4.55208	0.1871668	2.3836620	25	1	36 days	0.62			Williams	2000 CC ₅₆
2000 CD ₅₆	13.7	0.15	20000206	145.74176	23.86707	326.56548	12.47696	0.1792026	2.5503331	40	1	36 days	0.47			Williams	2000 CD ₅₆
2000 CE ₅₆	16.2	0.15	20000206	31.50587	134.96779	323.28026	1.63606	0.1912593	2.3599462	42	1	37 days	0.71			Williams	2000 CE ₅₆
2000 CG ₅₆	15.9	0.15	20000206	274.06988	174.94594	70.33503	3.55019	0.0850161	2.2257779	65	1	40 days	0.47			Williams	2000 CG ₅₆
2000 CH ₅₆	15.2	0.15	20000226	15.59100	49.48771	88.42307	3.77337	0.0684469	2.1655704	91	2	1998-2000	0.47	M-v	3	Williams	38730 2000 CH ₅₆
2000 CJ ₅₆	13.6	0.15	20000206	262.62988	278.88891	350.49226	11.94715	0.1918297	2.6556018	61	1	43 days	1.04			Williams	2000 CJ ₅₆
2000 CL ₅₆	15.8	0.15	20000206	249.55151	177.19600	104.56065	5.20139	0.2082473	2.2396257	50	1	40 days	0.75			Williams	2000 CL ₅₆
2000 CM ₅₆	16.0	0.15	20000206	242.11558	256.59867	26.49949	4.62864	0.1609593	2.1809331	55	1	37 days	0.45			Williams	2000 CM ₅₆
2000 CP ₅₆	15.9	0.15	20000206	10.33125	145.18189	351.56798	11.26382	0.1257031	2.6448351	32	1	40 days	0.51			Williams	2000 CP ₅₆
2000 CQ ₅₆	15.0	0.15	20000206	24.93442	306.35461	159.94844	9.59528	0.1159321	2.7713187	31	1	36 days	0.44			Williams	2000 CQ ₅₆
2000 CS ₅₆	13.7	0.15	20000206	194.27198	122.54861	189.04637	0.85456	0.1374596	3.1814433	38	1	35 days	0.54			Williams	2000 CS ₅₆
2000 CP ₅₇	13.8	0.15	20000226	96.17826	338.97735	63.74494	14.90588	0.0993566	2.6114973	32	1	92 days	0.49	M-v	4	Williams	2000 CP ₅₇
2000 CT ₅₇	16.6	0.15	20000206	354.37739	178.77187	340.38300	2.06342	0.1280582	2.3908432	41	1	35 days	0.50			Williams	2000 CT ₅₇
2000 CU ₅₇	15.2	0.15	20000206	36.80390	126.67603	332.47516	11.96859	0.2039768	2.6400519	32	1	36 days	0.56			Williams	2000 CU ₅₇
2000 CB ₅₈	14.5	0.15	20000206	293.96075	253.33277	339.45013	12.15059	0.0670735	2.6209483	43	1	35 days	0.55			Williams	2000 CB ₅₈
2000 CC ₅₈	13.2	0.15	20000226	330.99693	67.83273	143.89043	11.84622	0.1321370	2.6655718	32	1	94 days	0.41	M-v	4	Williams	2000 CC ₅₈
2000 CS ₅₈	15.2	0.15	20000206	346.92056	206.40799	323.98833	32.18989	0.1381365	2.5977904	32	1	40 days	0.34			Williams	2000 CS ₅₈
2000 CT ₅₈	17.7	0.15	20000206	91.27988	253.58839	150.60567	22.77538	0.1181884	1.9206353	18	1	23 days	0.67			Williams	2000 CT ₅₈
2000 CW ₅₈	17.4	0.15	20000206	42.91979	292.69053	146.22007	23.60558	0.0972393	1.9021477	26	1	28 days	0.45			Williams	2000 CW ₅₈
2000 CA ₅₉	16.8	0.15	20000206	21.28821	319.82092	148.96571	22.99799	0.0693746	1.9026027	23	1	35 days	0.35			Williams	2000 CA ₅₉
2000 CC ₅₉	13.9	0.15	20000206	346.42790	48.64051	150.06053	14.04030	0.1971613	2.5838809	22	1	31 days	0.57			Williams	2000 CC ₅₉
2000 CD ₅₉	17.2	0.15	20000206	336.12478	213.53479	324.55182	3.22910	0.2022416	2.3032652	52	1	37 days	0.56			Williams	2000 CD ₅₉
2000 CE ₅₉	20.2	0.15	20000226	265.16623	307.66175	318.81932	12.26134	0.1671768	1.1385467	123	1	40 days	0.49	M-v	5	Williams	2000 CE ₅₉
2000 CF ₅₉	16.5	0.15	20000226	57.24358	222.32774	141.92466	41.63607	0.6399115	1.6795402	118	1	33 days	0.61	M-v	6	Marsden	2000 CF ₅₉
2000 CG ₅₉	17.3	0.15	20000226	38.82268	29.48863	28.81668	4.18185	0.4882771	2.4769506	56	1	41 days	0.57	M-v	6	Williams	2000 CG ₅₉
2000 CH ₅₉	19.5	0.15	20000206	157.69634	108.77891	214.40886	3.27173	0.4225912	0.8622217	72	1	22 days	0.83			Williams	2000 CH ₅₉
2000 CJ ₅₉	17.8	0.15	20000206	308.78478	68.62647	142.83100	41.32098	0.2149288	1.7849085	54	1	22 days	0.54			Williams	2000 CJ ₅₉
2000 CK ₅₉	24.0	0.15	20000226	19.29361	341.05587	139.44834	5.69182	0.3126114	1.4792614	38	1	36 days	0.60	M-v	6	Williams	2000 CK ₅₉
2000 CL ₅₉	18.1	0.15	20000206	21.69118	335.70185	143.72694	33.41865	0.1743401	1.7854573	32	1	22 days	0.71			Williams	2000 CL ₅₉
2000 CW ₅₉	16.3	0.15	20000206	299.47438	47.70186	167.94300	5.95100	0.1614885	2.3915834	22	1	38 days	0.35			Williams	2000 CW ₅₉
2000 CC ₆₀	15.2	0.15	20000206	24.10244	314.29734	154.75788	14.77599	0.1192189	2.6698637	22	1	32 days	0.46			Williams	2000 CC ₆₀
2000 CG ₆₀	15.8	0.15	20000206	93.68984	72.77373	311.40471	4.33786	0.2392832	2.3840056	43	1	32 days	0.64			Williams	2000 CG ₆₀
2000 CM ₆₀	14.2	0.15	20000206	244.33151	75.98885	198.95487	8.95608	0.1266568	3.0836693	19	1	37 days	0.53			Williams	2000 CM ₆₀
2000 CN ₆₀	16.0	0.15	20000206	9.47665	306.02258	190.73413	6.43627	0.0477927	2.3460033	21	1	38 days	0.68			Williams	2000 CN ₆₀
2000 CB ₆₁	13.3	0.15	20000226	70.91403	275.72558	163.23568	26.52182	0.0637006	2.6198585	42	1	60 days	0.59	M-v	5	Williams	2000 CB ₆₁
2000 CC ₆₁	13.9	0.15	20000206	246.06498	321.99866	329.51709	14.67422	0.2709211	2.9415647	34	1	39 days	0.57			Williams	2000 CC ₆₁
2000 CE ₆₁	16.8	0.15	20000206	347.84357	9.24800	154.57272	7.67462	0.0763441	2.2802872	39	1	38 days	0.57			Williams	2000 CE ₆₁
2000 CL ₆₁	14.8	0.15	20000226	2.65836	225.81897	290.74450	7.76767	0.2088384	2.7800913	31	1	91 days	0.62	M-v	4	Williams	2000 CL ₆₁
2000 CM ₆₁	11.8	0.15	20000206	2.86811	336.26802	177.03494	16.41367	0.0512644	3.1730746	23	1	35 days	0.56			Williams	2000 CM ₆₁
2000 CH ₆₂	14.1	0.15	20000206	350.51596	339.04783	189.19202	6.02765	0.0280336	2.7784087	26	1	42 days	0.55			Williams	2000 CH ₆₂
2000 CK ₆₂	14.5	0.15	20000206	275.59632	66.63418	184.24219	5.95429	0.0866405	2.2527676	32	1	42 days	0.59			Williams	2000 CK ₆₂
2000 CR ₆₂	14.1	0.15	20000206	276.83272	294.72600	321.26468	14.12444	0.1090757	2.6562905	17	1	35 days	0.74			Williams	2000 CR ₆₂
2000 CT ₆₂	15.4	0.15	20000206	213.03392	114.96277	200.43799	6.42335	0.1643980	2.3389696	16	1	35 days	0.61			Williams	2000 CT ₆₂

2000 MAR. 20

M.P.C. 39595

2000 CB ₆₃	14.2	0.15	20000206	135.56123	52.42311	330.95692	9.00458	0.0442825	3.0731230	40	1	38 days	0.49	Williams	2000 CB ₆₃
2000 CE ₆₃	15.2	0.15	20000206	291.52382	60.27936	180.13902	5.74052	0.1079258	2.5402923	48	1	39 days	0.57	Williams	2000 CE ₆₃
2000 CH ₆₃	15.5	0.15	20000206	261.24688	78.56412	190.88799	6.41797	0.0976340	2.2963608	20	1	36 days	0.54	Williams	2000 CH ₆₃
2000 CJ ₆₃	14.7	0.15	20000206	329.39238	237.12268	323.16968	12.19189	0.1311206	2.6409502	29	1	36 days	0.62	Williams	2000 CJ ₆₃
2000 CK ₆₃	13.1	0.15	20000226	149.07790	175.76069	199.93152	9.68226	0.0551701	3.0228084	35	1	68 days	0.96	M-v 5 Williams	2000 CK ₆₃
2000 CN ₆₃	13.5	0.15	20000206	45.13120	135.62312	334.34051	18.39717	0.1168982	3.1512134	29	1	40 days	0.45	Williams	2000 CN ₆₃
2000 CP ₆₃	14.6	0.15	20000206	93.93895	246.88919	170.13864	13.82311	0.1135742	2.6147914	46	1	39 days	0.61	Williams	2000 CP ₆₃
2000 CR ₆₃	13.4	0.15	20000206	191.88818	156.04900	182.02352	16.23082	0.1476222	2.7229682	16	1	38 days	0.62	Williams	2000 CR ₆₃
2000 CU ₆₃	15.9	0.15	20000206	18.40639	270.93478	217.81301	4.71958	0.1633543	2.3428567	16	1	39 days	0.54	Williams	2000 CU ₆₃
2000 CA ₆₄	14.3	0.15	20000206	318.49443	241.81554	330.28435	11.16464	0.0945394	2.2740358	25	1	40 days	0.40	Williams	2000 CA ₆₄
2000 CB ₆₄	15.6	0.15	20000206	306.74414	73.48895	162.73200	23.23695	0.2065811	2.3017858	25	1	39 days	0.40	Williams	2000 CB ₆₄
2000 CC ₆₄	13.6	0.15	20000206	328.08458	250.07901	334.20103	13.85427	0.2900339	3.0835363	17	1	40 days	0.43	Williams	2000 CC ₆₄
2000 CM ₆₄	15.3	0.15	20000206	34.52424	117.76986	336.26648	3.63255	0.0644102	2.5625406	16	1	30 days	0.61	Williams	2000 CM ₆₄
2000 CO ₆₄	15.3	0.15	20000206	305.54406	93.55833	115.94724	8.26600	0.1859649	3.1755245	33	1	34 days	0.66	Williams	2000 CO ₆₄
2000 CW ₆₄	16.9	0.15	20000206	337.64361	42.15412	123.43363	9.72191	0.1401586	2.4377362	18	1	8 days	0.41	Marsden	2000 CW ₆₄
2000 CA ₆₅	15.3	0.15	20000206	176.97654	194.69918	128.99242	6.72801	0.0298071	2.8186808	21	1	26 days	0.54	Williams	2000 CA ₆₅
2000 CC ₆₅	15.7	0.15	20000206	343.35489	56.35468	107.36177	2.23152	0.1302114	3.0750481	31	1	31 days	0.69	Williams	2000 CC ₆₅
2000 CF ₆₅	16.0	0.15	20000206	291.19316	97.69658	123.91915	4.14658	0.0985400	2.3907867	15	1	31 days	0.53	Williams	2000 CF ₆₅
2000 CG ₆₅	15.1	0.15	20000206	213.34001	289.45203	5.66282	2.22293	0.1066890	2.5168972	33	1	39 days	0.49	Williams	2000 CG ₆₅
2000 CH ₆₅	15.4	0.15	20000206	128.13290	29.27515	330.19203	12.82941	0.1914750	2.6441396	22	1	40 days	0.48	Williams	2000 CH ₆₅
2000 CJ ₆₅	16.0	0.15	20000206	24.00922	128.01138	344.60601	2.88362	0.0801685	2.6405822	30	1	38 days	0.71	Williams	2000 CJ ₆₅
2000 CK ₆₅	15.1	0.15	20000206	204.15619	309.97309	352.57222	2.81205	0.0826207	2.7843903	43	1	36 days	0.80	Williams	2000 CK ₆₅
2000 CL ₆₅	14.7	0.15	20000206	330.56961	210.95785	334.16547	3.28688	0.1633633	2.6162800	66	1	39 days	0.45	Williams	2000 CL ₆₅
2000 CO ₆₅	15.8	0.15	20000206	39.09185	309.54099	148.01615	12.89331	0.1574563	2.9239078	37	1	37 days	0.69	Williams	2000 CO ₆₅
2000 CP ₆₅	15.7	0.15	20000206	163.04259	205.10420	141.16501	2.75384	0.0248439	2.6206053	35	1	36 days	0.61	Williams	2000 CP ₆₅
2000 CO ₆₆	16.0	0.15	20000206	289.66268	224.40291	16.24928	5.61240	0.1761208	2.5536939	41	1	40 days	0.91	Williams	2000 CO ₆₆
2000 CQ ₆₆	17.4	0.15	20000206	10.56751	325.97192	165.84182	1.56619	0.1358305	2.4198915	29	1	34 days	0.49	Williams	2000 CQ ₆₆
2000 CU ₆₆	14.4	0.15	20000206	292.64903	331.07746	240.84228	11.01654	0.1039220	2.6265081	21	1	58 days	0.47	Williams	2000 CU ₆₆
2000 CB ₆₇	14.6	0.15	20000206	311.05692	235.48577	359.50602	7.24735	0.1417774	2.3277144	23	1	34 days	0.38	Williams	2000 CB ₆₇
2000 CN ₆₇	15.4	0.15	20000206	192.17298	81.43845	221.95628	1.12485	0.0610928	2.9155581	9	1	25 days	0.34	Marsden	2000 CN ₆₇
2000 CL ₆₈	15.7	0.15	20000117	250.76428	305.92436	298.68872	1.59642	0.0356428	2.7670068	8	1	6 days	0.23	E Williams	2000 CL ₆₈
2000 CN ₆₈	17.9	0.15	20000117	1.90236	345.52219	140.69287	4.42663	0.2344072	2.8902761	8	1	6 days	0.63	E Williams	2000 CN ₆₈
2000 CP ₆₈	16.5	0.15	20000117	122.51543	36.12949	314.57044	17.52732	0.2489540	2.9707393	8	1	6 days	0.11	E Williams	2000 CP ₆₈
2000 CR ₆₈	15.1	0.15	20000117	338.76275	16.14308	140.19723	4.01197	0.0573524	3.3285320	8	1	6 days	0.15	E Williams	2000 CR ₆₈
2000 CS ₆₈	17.7	0.15	20000117	54.27996	205.48264	226.90404	0.33624	0.0425971	2.4235104	8	1	6 days	0.30	E Williams	2000 CS ₆₈
2000 CU ₆₈	15.9	0.15	20000206	297.66130	73.76005	139.91747	3.68027	0.1374790	2.5257686	15	1	10 days	0.38	Marsden	2000 CU ₆₈
2000 CV ₆₈	17.1	0.15	20000117	58.71529	105.06539	301.76894	0.92691	0.2264429	2.4523787	8	1	6 days	0.24	E Williams	2000 CV ₆₈
2000 CX ₆₈	17.4	0.15	20000206	348.96428	357.37049	160.99141	0.39085	0.3070550	3.0205468	13	1	28 days	0.22	Williams	2000 CX ₆₈
2000 CA ₆₉	16.1	0.15	20000206	278.08232	100.60170	135.79190	3.11864	0.1543340	2.4407407	17	1	28 days	0.21	Williams	2000 CA ₆₉
2000 CE ₆₉	14.1	0.15	20000206	116.30890	235.73267	137.04452	15.97831	0.0827148	3.0405532	26	1	28 days	0.34	Williams	2000 CE ₆₉
2000 CH ₆₉	16.5	0.15	20000206	31.92159	138.50628	316.73256	2.46793	0.1384280	2.3456082	24	1	33 days	0.68	Williams	2000 CH ₆₉
2000 CK ₆₉	14.8	0.15	20000206	315.89538	227.73527	316.25195	14.02039	0.0330498	2.6590891	14	1	33 days	0.45	Williams	2000 CK ₆₉
2000 CU ₆₉	17.1	0.15	20000117	66.35115	88.96019	313.69914	4.31326	0.1866803	2.3026551	14	1	15 days	0.28	D Williams	2000 CU ₆₉
2000 CV ₆₉	16.3	0.15	20000206	357.64425	182.37250	316.69556	8.35733	0.0589771	3.0459279	11	1	9 days	0.28	Marsden	2000 CV ₆₉
2000 CW ₆₉	15.2	0.15	20000206	352.52182	12.50860	134.48933	1.20078	0.1538132	3.1675565	34	1	34 days	0.59	Williams	2000 CW ₆₉
2000 CY ₆₉	14.9	0.15	20000206	265.34861	286.48250	322.04663	3.64404	0.1479397	2.6236013	28	1	33 days	0.45	Williams	2000 CY ₆₉
2000 CD ₇₀	13.5	0.15	20000206	258.50621	328.74514	301.21482	8.32350	0.1306294	2.7446553	19	1	36 days	0.49	Williams	2000 CD ₇₀
2000 CH ₇₀	15.0	0.15	20000206	294.32480	298.53483	297.17540	11.67696	0.1371120	2.5265203	26	1	35 days	0.45	Williams	2000 CH ₇₀
2000 CK ₇₀	13.4	0.15	20000226	246.39944	347.74658	301.64965	11.67958	0.1398322	2.6224707	36	1	69 days	0.56	M-v 5 Williams	2000 CK ₇₀
2000 CO ₇₀	14.9	0.15	20000206	359.21230	213.78000	304.41473	12.70651	0.1483181	2.7459068	30	1	35 days	1.29	Williams	2000 CO ₇₀
2000 CQ ₇₀	13.2	0.15	20000206	212.24673	8.24192	303.68783	6.40103	0.1380227	2.3056065	22	1	35 days	0.67	Williams	2000 CQ ₇₀
2000 CS ₇₀	13.5	0.15	20000206	51.57177	134.11319	323.88518	13.75135	0.0957648	2.9526398	20	1	35 days	0.65	Williams	2000 CS ₇₀
2000 CX ₇₀	15.1	0.15	20000206	59.53305	212.93601	213.86187	5.37849	0.2647954	2.2520575	30	1	39 days	0.56	Williams	2000 CX ₇₀

2000 CE ₇₁	13.3	0.15	20000206	204.83448	14.48632	314.25786	11.25845	0.1334217	3.0443851	22	1	35 days	0.48	Williams	2000 CE ₇₁
2000 CG ₇₁	14.6	0.15	20000206	33.80983	148.05541	337.58246	14.64855	0.0407848	2.6416118	31	1	40 days	0.52	Williams	2000 CG ₇₁
2000 CH ₇₁	14.1	0.15	20000206	351.25269	230.91624	301.15311	2.57030	0.1049002	2.6096219	27	1	33 days	0.53	Williams	2000 CH ₇₁
2000 CL ₇₁	14.6	0.15	20000206	318.39934	35.85994	180.67256	14.45210	0.1468908	2.5502113	23	1	33 days	0.42	Williams	2000 CL ₇₁
2000 CM ₇₁	16.3	0.15	20000226	12.84149	211.30584	298.75939	1.54581	0.1291517	2.3868876	31	1	36 days	0.64	Williams	2000 CM ₇₁
2000 CN ₇₁	14.7	0.15	20000206	318.46910	256.16626	322.50792	4.21338	0.1553908	2.8816199	27	1	35 days	0.65	Williams	2000 CN ₇₁
2000 CP ₇₁	14.3	0.15	20000226	357.61811	326.87352	195.69252	11.30434	0.1158193	2.6203638	34	1	64 days	0.65	M-v 5 Williams	2000 CP ₇₁
2000 CB ₇₂	15.8	0.15	20000206	1.35214	1.96989	134.44772	1.07069	0.1649187	3.1458362	9	1	24 days	0.14	Williams	2000 CB ₇₂
2000 CC ₇₂	16.1	0.15	20000206	332.21942	210.97808	319.30450	6.44595	0.0745262	2.3139324	38	1	39 days	0.45	Williams	2000 CC ₇₂
2000 CH ₇₂	16.8	0.15	20000226	3.48862	77.02912	80.09824	6.12619	0.4068830	2.6949207	16	1	30 days	0.53	M-v 6 Williams	2000 CH ₇₂
2000 CK ₇₂	15.5	0.15	20000206	158.39161	319.78401	15.96879	2.24256	0.0644079	2.2356375	26	1	33 days	0.92	Williams	2000 CK ₇₂
2000 CT ₇₂	13.3	0.15	20000206	16.10455	324.75973	136.33879	8.66617	0.1074567	3.0027743	9	1	38 days	0.69	Williams	2000 CT ₇₂
2000 CO ₇₃	16.5	0.15	20000206	112.00345	225.10848	139.13900	5.03061	0.2069531	2.6245886	8	1	5 days	0.33	E Williams	2000 CO ₇₃
2000 CP ₇₃	15.3	0.15	20000226	195.79536	169.14057	137.87045	10.26369	0.0796629	2.5583055	18	2	1992-2000	0.45	M-v 5 Williams	38731 2000 CP ₇₃
2000 CQ ₇₃	17.4	0.15	20000206	216.49645	147.05059	136.11796	2.32311	0.0467569	2.2787239	8	1	5 days	0.12	E Williams	2000 CQ ₇₃
2000 CB ₇₄	16.9	0.15	20000206	333.08855	44.85272	127.11032	2.00170	0.1208380	2.3712673	21	1	26 days	0.47	Williams	2000 CB ₇₄
2000 CB ₇₅	14.3	0.15	20000206	67.67729	234.85200	152.91646	33.51784	0.3668159	2.5536110	22	1	55 days	0.56	Williams	2000 CB ₇₅
2000 CD ₇₅	13.4	0.15	20000226	90.91754	34.30186	20.76133	9.76865	0.0390897	2.9694877	33	1	88 days	0.52	M-v 5 Williams	2000 CD ₇₅
2000 CQ ₇₅	13.5	0.15	20000206	112.32017	296.74625	119.86187	15.24367	0.2615729	2.6843335	15	1	25 days	0.31	Williams	2000 CQ ₇₅
2000 CR ₇₅	14.0	0.15	20000226	250.34397	345.40460	292.38071	13.32661	0.0466168	2.5909701	29	1	62 days	0.52	M-v 5 Williams	2000 CR ₇₅
2000 CS ₇₅	14.8	0.15	20000206	299.03773	18.03247	211.19309	12.41239	0.1065508	2.5438929	25	1	35 days	0.57	Williams	2000 CS ₇₅
2000 CC ₇₆	13.9	0.15	20000206	325.53415	237.23211	334.16271	6.38589	0.0866086	2.4365642	16	1	30 days	0.64	Williams	2000 CC ₇₆
2000 CD ₇₆	14.3	0.15	20000206	334.75842	214.08081	333.60182	14.57276	0.1344160	3.1012982	28	1	36 days	0.46	Williams	2000 CD ₇₆
2000 CF ₇₆	16.0	0.15	20000206	319.99576	16.84013	184.31209	1.53921	0.1158148	2.2931739	29	1	38 days	0.68	Williams	2000 CF ₇₆
2000 CG ₇₆	13.7	0.15	20000206	303.88984	253.58461	333.37403	21.47730	0.1454976	3.2017053	22	1	38 days	0.47	Williams	2000 CG ₇₆
2000 CK ₇₆	14.5	0.15	20000206	106.19669	252.47892	133.32285	11.54417	0.0694472	3.1009982	20	1	24 days	0.51	Williams	2000 CK ₇₆
2000 CL ₇₆	16.7	0.15	20000206	29.25742	322.24978	130.42681	6.20153	0.2283846	2.3853742	19	1	32 days	0.98	Williams	2000 CL ₇₆
2000 CO ₇₆	13.6	0.15	20000206	96.59320	263.23667	146.19165	11.88589	0.0806362	3.1313914	31	1	37 days	0.53	Williams	2000 CO ₇₆
2000 CP ₇₆	15.7	0.15	20000206	5.20486	24.64815	119.32475	2.92533	0.1247209	2.3653706	35	1	37 days	0.78	Williams	2000 CP ₇₆
2000 CR ₇₆	16.4	0.15	20000206	331.55385	83.40690	104.76645	2.18590	0.1348790	2.4186964	37	1	37 days	0.71	Williams	2000 CR ₇₆
2000 CS ₇₆	13.3	0.15	20000206	260.89160	143.50141	137.08341	7.24033	0.2475524	3.0905663	40	1	37 days	0.66	Williams	2000 CS ₇₆
2000 CT ₇₆	14.6	0.15	20000226	70.99533	357.28221	77.46229	2.32247	0.1123985	2.9733407	48	1	33 days	0.83	Williams	2000 CT ₇₆
2000 CU ₇₆	15.8	0.15	20000206	307.64023	179.82298	36.41065	1.78782	0.1179872	2.2666802	50	1	37 days	0.66	Williams	2000 CU ₇₆
2000 CX ₇₆	15.7	0.15	20000206	293.06541	239.23404	358.12322	4.22643	0.1596876	2.2551557	39	1	30 days	0.50	Williams	2000 CX ₇₆
2000 CZ ₇₆	15.6	0.15	20000206	40.74029	124.75187	343.96782	9.15877	0.1371467	2.3985184	25	1	30 days	1.12	Williams	2000 CZ ₇₆
2000 CB ₇₇	14.5	0.15	20000226	349.44203	194.49963	347.07393	2.08657	0.1376302	2.4257453	37	1	63 days	0.54	M-v 4 Williams	2000 CB ₇₇
2000 CD ₇₇	13.6	0.15	20000206	203.60365	340.35588	350.45018	12.72579	0.1821787	2.6808587	36	1	34 days	0.64	Williams	2000 CD ₇₇
2000 CE ₇₇	15.9	0.15	20000226	14.53457	357.69523	153.60631	6.56572	0.0573264	2.3350829	30	1	31 days	0.57	Williams	2000 CE ₇₇
2000 CF ₇₇	14.8	0.15	20000206	301.61370	231.29668	5.83077	1.97822	0.1460974	2.4484856	40	1	30 days	0.70	Williams	2000 CF ₇₇
2000 CH ₇₇	14.4	0.15	20000206	264.05599	120.74973	128.39374	9.06739	0.1470501	2.7160104	28	1	30 days	0.67	Williams	2000 CH ₇₇
2000 CL ₇₇	14.2	0.15	20000206	266.59784	103.15139	144.46535	6.81338	0.0854512	3.2158975	47	1	32 days	0.76	Williams	2000 CL ₇₇
2000 CO ₇₇	15.3	0.15	20000206	317.23581	220.38938	343.01500	16.73638	0.1024257	3.0825443	33	1	39 days	1.30	Williams	2000 CO ₇₇
2000 CP ₇₇	15.0	0.15	20000206	194.91057	29.10492	278.75081	4.41282	0.1840035	2.6233178	12	1	19 days	0.09	Williams	2000 CP ₇₇
2000 CS ₇₇	16.9	0.15	20000206	38.05996	295.64618	164.48744	3.19199	0.1177555	2.2703340	16	1	25 days	0.35	Williams	2000 CS ₇₇
2000 CT ₇₇	16.3	0.15	20000206	41.53358	156.18958	296.19260	1.62562	0.1608412	2.4456530	18	1	33 days	0.49	Williams	2000 CT ₇₇
2000 CX ₇₇	16.5	0.15	20000206	357.16987	211.27269	300.70438	1.72582	0.1211202	2.4523501	20	1	33 days	0.38	Williams	2000 CX ₇₇
2000 CC ₇₈	15.8	0.15	20000206	126.12790	218.75475	159.47227	5.79105	0.0828754	2.7420747	14	1	25 days	0.35	Williams	2000 CC ₇₈
2000 CD ₇₈	16.1	0.15	20000206	272.92181	80.41084	174.87529	1.27703	0.1574910	2.4138086	25	1	33 days	0.63	Williams	2000 CD ₇₈
2000 CF ₇₈	14.6	0.15	20000206	169.01736	19.31075	322.04931	2.49670	0.1099852	2.7576309	33	1	33 days	1.01	Williams	2000 CF ₇₈
2000 CG ₇₈	16.8	0.15	20000206	62.48217	104.41483	327.99423	6.05164	0.1380101	2.3251627	14	1	25 days	0.51	Williams	2000 CG ₇₈
2000 CJ ₇₈	15.8	0.15	20000206	222.83950	336.13975	326.44781	1.86194	0.2036196	2.3534062	27	1	33 days	0.73	Williams	2000 CJ ₇₈
2000 CK ₇₈	15.2	0.15	20000206	144.13437	42.99210	323.21882	1.30477	0.0319541	2.6770475	31	1	35 days	0.46	Williams	2000 CK ₇₈
2000 CL ₇₈	15.9	0.15	20000206	337.37329	25.52266	150.60664	6.26420	0.0550404	2.3648236	41	1	39 days	0.69	Williams	2000 CL ₇₈

2000 MAR. 20

M.P.C. 39597

2000 CS ₇₈	17.0	0.15	20000206	287.40090	87.49259	154.32493	6.14345	0.2436905	2.3358790	18	1	38 days	0.50		Williams	2000 CS ₇₈
2000 CT ₇₈	16.5	0.15	20000206	312.05750	13.62630	178.75567	2.41067	0.0325191	2.7563424	8	1	6 days	0.15	E	Williams	2000 CT ₇₈
2000 CU ₇₈	15.0	0.15	20000206	157.06858	137.19428	203.43305	1.75186	0.1134794	3.0741919	8	1	6 days	0.09	E	Williams	2000 CU ₇₈
2000 CW ₇₈	15.3	0.15	20000206	39.51079	147.99239	305.99779	4.16454	0.1064367	2.8683919	10	1	24 days	0.37		Williams	2000 CW ₇₈
2000 CZ ₇₈	15.6	0.15	20000206	270.73918	307.01258	303.67440	2.89421	0.1630751	2.6535582	12	1	24 days	0.38		Williams	2000 CZ ₇₈
2000 CE ₇₉	15.8	0.15	20000206	197.61436	350.91881	317.55637	4.15656	0.0509939	2.7639401	12	1	33 days	0.15		Williams	2000 CE ₇₉
2000 CL ₇₉	15.3	0.15	20000206	99.93564	197.51435	192.04162	0.48793	0.1489139	3.0896469	9	1	31 days	0.16		Williams	2000 CL ₇₉
2000 CM ₇₉	18.9	0.15	20000206	21.37755	145.78880	321.27525	3.24495	0.2552618	2.6419373	8	1	6 days	0.16	E	Williams	2000 CM ₇₉
2000 CN ₇₉	16.5	0.15	20000206	52.48077	271.55544	169.74718	0.65470	0.1178213	3.2426500	9	1	31 days	0.22		Williams	2000 CN ₇₉
2000 CO ₇₉	16.7	0.15	20000206	219.03418	141.79125	156.06882	1.54621	0.1948099	2.3634332	12	1	30 days	0.21		Williams	2000 CO ₇₉
2000 CP ₇₉	16.3	0.15	20000206	54.56701	111.95824	324.86567	9.64774	0.1369555	3.1527392	8	1	6 days	0.21	E	Williams	2000 CP ₇₉
2000 CR ₇₉	15.1	0.15	20000206	250.90438	115.70127	162.39108	6.42087	0.1480446	2.3212177	33	1	34 days	0.48		Williams	2000 CR ₇₉
2000 CT ₇₉	15.0	0.15	20000206	2.71816	348.53223	164.10963	4.07647	0.0376442	2.8015299	42	1	32 days	0.48		Williams	2000 CT ₇₉
2000 CU ₇₉	13.8	0.15	20000206	81.40710	233.23869	185.48261	1.27642	0.1502214	3.2380193	52	1	38 days	0.64		Williams	2000 CU ₇₉
2000 CV ₇₉	13.5	0.15	20000206	211.05398	155.38126	160.28823	12.14613	0.1945479	2.6475974	47	1	34 days	0.49		Williams	2000 CV ₇₉
2000 CW ₇₉	16.5	0.15	20000206	35.84888	303.06105	159.45083	4.41995	0.1916334	2.6523308	23	1	25 days	0.43		Williams	2000 CW ₇₉
2000 CE ₈₀	14.2	0.15	20000206	108.66539	244.75767	158.34949	9.77724	0.0749441	3.1740531	25	1	32 days	0.49		Williams	2000 CE ₈₀
2000 CH ₈₀	15.9	0.15	20000206	351.27412	189.59571	319.64393	4.62607	0.0611944	2.1603405	38	1	59 days	0.63		Williams	2000 CH ₈₀
2000 CK ₈₀	14.7	0.15	20000226	2.18698	180.47670	326.34861	17.07228	0.0906849	2.5285434	42	1	94 days	0.48	M-v 4	Williams	2000 CK ₈₀
2000 CM ₈₀	15.0	0.15	20000226	87.03739	56.20483	337.45556	13.64933	0.2710447	2.4234787	36	1	64 days	0.61	M-v 5	Williams	2000 CM ₈₀
2000 CO ₈₀	15.9	0.15	20000206	38.44196	120.44102	339.79564	28.09623	0.2159214	2.6077253	28	1	35 days	0.63		Williams	2000 CO ₈₀
2000 CW ₈₀	14.7	0.15	20000117	160.39277	308.51502	16.87215	4.42317	0.0702159	2.7935440	27	1	58 days	0.44		Williams	2000 CW ₈₀
2000 CE ₈₁	14.0	0.15	20000226	339.97893	32.65287	139.65953	18.02519	0.1614855	3.1412509	24	1	60 days	0.62	M-v 5	Williams	2000 CE ₈₁
2000 CF ₈₁	14.1	0.15	20000206	258.40568	295.29125	323.04753	12.92382	0.1446195	3.1934045	38	1	30 days	0.54		Williams	2000 CF ₈₁
2000 CG ₈₁	15.9	0.15	20000206	128.31439	301.28550	61.63333	0.97387	0.1274263	2.1978529	25	1	37 days	0.59		Williams	2000 CG ₈₁
2000 CH ₈₁	14.8	0.15	20000226	331.33850	34.15568	145.94501	8.16632	0.0541347	2.4687836	52	1	64 days	0.53	M-v 4	Williams	2000 CH ₈₁
2000 CJ ₈₁	16.1	0.15	20000206	338.89964	209.35947	322.55332	12.05798	0.1701319	2.5895899	33	1	35 days	0.53		Williams	2000 CJ ₈₁
2000 CK ₈₁	16.0	0.15	20000206	18.85364	332.65317	139.03961	6.90004	0.2277205	2.6558019	20	1	34 days	0.57		Williams	2000 CK ₈₁
2000 CM ₈₁	15.1	0.15	20000206	292.51386	281.42161	326.24284	23.70586	0.3169027	3.1620220	20	1	27 days	0.41		Williams	2000 CM ₈₁
2000 CP ₈₁	15.4	0.15	20000206	67.06433	259.45066	141.46196	13.06828	0.3058193	2.6560866	26	1	34 days	0.60		Williams	2000 CP ₈₁
2000 CQ ₈₁	13.7	0.15	20000206	82.66656	68.37906	326.45745	12.51784	0.2361169	3.1082923	61	1	42 days	0.63		Williams	2000 CQ ₈₁
2000 CU ₈₁	15.2	0.15	20000206	5.95919	95.49537	41.90131	1.33946	0.1057976	3.1888207	28	1	36 days	0.64		Williams	2000 CU ₈₁
2000 CW ₈₁	13.8	0.15	20000206	320.03533	67.72177	132.41008	6.04708	0.1744990	3.1389198	46	1	36 days	0.70		Williams	2000 CW ₈₁
2000 CZ ₈₁	15.6	0.15	20000206	82.43423	66.20172	334.80361	4.43564	0.1783794	2.2838186	43	1	36 days	0.59		Williams	2000 CZ ₈₁
2000 CA ₈₂	15.3	0.15	20000226	48.74161	299.25954	137.99641	13.40393	0.2323688	2.6622700	39	1	64 days	0.58	M-v 5	Williams	2000 CA ₈₂
2000 CB ₈₂	16.2	0.15	20000206	67.86377	350.34287	60.72406	1.75723	0.2185154	2.4023057	28	1	34 days	0.60		Williams	2000 CB ₈₂
2000 CC ₈₂	14.4	0.15	20000226	258.43497	275.48963	345.98317	4.46234	0.0958726	2.3181644	48	1	64 days	0.43	M-v 5	Williams	2000 CC ₈₂
2000 CD ₈₂	14.8	0.15	20000206	310.90774	154.22086	54.90985	1.63059	0.1473796	3.1610873	32	1	36 days	0.48		Williams	2000 CD ₈₂
2000 CE ₈₂	14.8	0.15	20000206	285.54584	259.54282	339.07250	4.69988	0.1704262	2.2330114	47	1	36 days	0.49		Williams	2000 CE ₈₂
2000 CF ₈₂	14.0	0.15	20000206	27.29407	101.76275	15.02514	1.86316	0.0380231	2.9263171	29	1	36 days	0.80		Williams	2000 CF ₈₂
2000 CH ₈₂	16.1	0.15	20000206	340.59688	31.72639	136.91718	10.93767	0.1050392	2.3617159	24	1	36 days	0.42		Williams	2000 CH ₈₂
2000 CK ₈₂	15.9	0.15	20000206	41.83817	74.35475	11.21386	2.12811	0.1862043	2.3828490	46	1	36 days	0.41		Williams	2000 CK ₈₂
2000 CL ₈₂	14.7	0.15	20000206	306.58492	175.89501	29.56231	2.50206	0.0617789	2.9165576	21	1	30 days	0.62		Williams	2000 CL ₈₂
2000 CM ₈₂	14.0	0.15	20000206	226.13972	316.78844	335.06092	6.20603	0.1599222	2.5308637	56	1	39 days	0.66		Williams	2000 CM ₈₂
2000 CO ₈₂	14.0	0.15	20000206	207.83155	327.50787	333.84496	9.00602	0.0322016	3.0617878	37	1	37 days	0.56		Williams	2000 CO ₈₂
2000 CP ₈₂	15.8	0.15	20000206	35.38197	321.03952	135.43783	5.53486	0.1723307	2.5485224	26	1	34 days	0.63		Williams	2000 CP ₈₂
2000 CQ ₈₂	15.4	0.15	20000206	6.11481	168.97854	328.53635	2.84880	0.1047152	2.2933809	30	1	36 days	0.46		Williams	2000 CQ ₈₂
2000 CR ₈₂	13.7	0.15	20000226	313.62133	236.36684	326.62627	1.56940	0.0576418	3.0658009	44	1	97 days	0.44	M-v 5	Williams	2000 CR ₈₂
2000 CS ₈₂	15.2	0.15	20000206	303.94718	251.00071	329.18517	2.71604	0.1581637	2.6986984	21	1	36 days	0.61		Williams	2000 CS ₈₂
2000 CV ₈₂	16.6	0.15	20000206	333.22254	76.72211	103.83791	1.47379	0.1466530	2.3606287	22	1	36 days	0.81		Williams	2000 CV ₈₂
2000 CW ₈₂	15.2	0.15	20000226	67.99044	310.82080	119.33188	3.67239	0.1173071	2.2015484	49	1	98 days	0.53	M-v 5	Williams	2000 CW ₈₂
2000 CY ₈₂	14.1	0.15	20000206	281.25757	108.24085	134.77750	7.14165	0.1451286	3.0954375	27	1	32 days	0.42		Williams	2000 CY ₈₂
2000 CZ ₈₂	15.2	0.15	20000206	235.40415	276.09169	11.15841	2.31313	0.1930613	2.4079741	29	1	36 days	0.54		Williams	2000 CZ ₈₂

2000 CB ₈₃	16.2	0.15	20000206	345.77792	74.44022	89.02684	2.30797	0.1174313	2.4175105	28	1	38 days	0.77	M-v 5	Williams	2000 CB ₈₃
2000 CC ₈₃	14.4	0.15	20000206	222.38128	188.62918	99.67598	3.23215	0.0401644	2.9054275	28	1	32 days	0.48		Williams	2000 CC ₈₃
2000 CG ₈₃	13.2	0.15	20000206	328.99587	184.82976	3.52836	2.42446	0.1261097	3.9754239	41	1	38 days	0.43		Williams	2000 CG ₈₃
2000 CK ₈₃	13.8	0.15	20000226	258.74203	129.24776	138.26681	13.77813	0.1323605	2.6602126	32	1	91 days	0.55		Williams	2000 CK ₈₃
2000 CM ₈₃	14.0	0.15	20000206	207.69739	295.86631	14.52061	3.86008	0.2237992	2.5641445	20	1	37 days	0.57		Williams	2000 CM ₈₃
2000 CN ₈₃	14.4	0.15	20000206	310.03413	242.08780	334.19213	25.82812	0.1871816	3.1215505	41	1	36 days	0.42	M-v 4	Williams	2000 CN ₈₃
2000 CO ₈₃	16.1	0.15	20000206	15.51904	1.35541	123.54480	7.52044	0.1655474	2.6998593	27	1	32 days	0.79		Williams	2000 CO ₈₃
2000 CS ₈₃	15.0	0.15	20000206	347.55266	188.43918	332.47495	14.56737	0.0213880	2.6937121	49	1	36 days	0.61		Williams	2000 CS ₈₃
2000 CT ₈₃	14.0	0.15	20000206	320.68925	58.75159	138.34562	7.20666	0.1085555	3.1887564	41	1	39 days	0.44		Williams	2000 CT ₈₃
2000 CV ₈₃	16.7	0.15	20000206	35.22647	319.43401	142.14039	14.30092	0.1407491	2.5563910	26	1	34 days	0.65		Williams	2000 CV ₈₃
2000 CW ₈₃	15.1	0.15	20000206	27.07533	28.53633	85.68048	2.18580	0.1273614	3.1235031	29	1	39 days	0.57		Williams	2000 CW ₈₃
2000 CZ ₈₃	14.3	0.15	20000206	245.85363	162.35733	112.72900	1.58485	0.1203984	2.9862453	46	1	38 days	0.56		Williams	2000 CZ ₈₃
2000 CA ₈₄	14.4	0.15	20000206	262.01789	135.63511	126.38605	1.81132	0.1325142	3.1718079	30	1	36 days	0.51		Williams	2000 CA ₈₄
2000 CC ₈₄	14.5	0.15	20000206	113.69878	230.99365	145.30221	7.58863	0.2022714	2.6142567	29	1	36 days	0.56		Williams	2000 CC ₈₄
2000 CF ₈₄	15.9	0.15	20000206	42.80551	306.69487	145.86811	5.60631	0.1251719	2.2333766	43	1	39 days	0.45		Williams	2000 CF ₈₄
2000 CG ₈₄	16.0	0.15	20000206	20.95815	328.54531	147.38821	12.85370	0.1962736	2.6836484	46	1	39 days	0.49		Williams	2000 CG ₈₄
2000 CJ ₈₄	15.9	0.15	20000206	30.41578	143.05004	328.02913	12.47735	0.1098344	2.6850143	36	1	36 days	0.67		Williams	2000 CJ ₈₄
2000 CK ₈₄	15.1	0.15	20000206	346.31167	32.49775	136.37134	3.12788	0.1698150	3.1583027	34	1	36 days	0.40		Williams	2000 CK ₈₄
2000 CM ₈₄	17.0	0.15	20000206	37.47597	320.51320	134.03931	2.91201	0.1823727	2.3204458	33	1	36 days	0.58		Williams	2000 CM ₈₄
2000 CN ₈₄	15.8	0.15	20000206	0.72642	28.47735	119.26450	1.67075	0.0930416	2.5416543	38	1	39 days	0.55		Williams	2000 CN ₈₄
2000 CO ₈₄	15.2	0.15	20000206	307.15162	150.59427	56.21714	2.32966	0.0512689	3.0759678	27	1	36 days	0.98		Williams	2000 CO ₈₄
2000 CR ₈₄	14.4	0.15	20000206	203.80655	268.43410	40.73186	2.64761	0.0798841	2.9268732	31	1	37 days	0.96		Williams	2000 CR ₈₄
2000 CU ₈₄	16.3	0.15	20000206	323.52915	98.67642	97.98280	2.79916	0.1673541	2.3685760	41	1	39 days	0.56		Williams	2000 CU ₈₄
2000 CA ₈₅	14.4	0.15	20000206	121.99559	230.59580	141.29509	11.45285	0.1907148	2.6462052	32	1	40 days	0.52		Williams	2000 CA ₈₅
2000 CC ₈₅	15.8	0.15	20000206	273.40902	127.07959	123.52069	3.39543	0.1345444	2.3829865	30	1	40 days	0.62		Williams	2000 CC ₈₅
2000 CD ₈₅	16.2	0.15	20000206	340.33963	51.64185	118.94384	3.07005	0.0706829	2.3834616	29	1	39 days	0.56		Williams	2000 CD ₈₅
2000 CE ₈₅	15.5	0.15	20000206	352.51787	62.75261	96.76177	2.62463	0.1473461	3.0384296	36	1	39 days	0.69		Williams	2000 CE ₈₅
2000 CF ₈₅	15.0	0.15	20000206	286.21678	266.42757	335.39086	14.39716	0.1634281	2.6015707	53	1	39 days	0.45		Williams	2000 CF ₈₅
2000 CK ₈₅	16.5	0.15	20000206	37.41192	48.32170	56.34120	2.98785	0.0832400	2.4211601	19	1	33 days	0.69		Williams	2000 CK ₈₅
2000 CL ₈₅	15.1	0.15	20000206	339.64282	63.75043	111.66516	5.81673	0.1050726	3.0917342	47	1	40 days	0.68		Williams	2000 CL ₈₅
2000 CN ₈₅	14.9	0.15	20000206	275.01099	126.18345	111.77208	3.18987	0.0179297	2.8457336	30	1	40 days	0.59		Williams	2000 CN ₈₅
2000 CR ₈₅	16.2	0.15	20000206	335.01610	201.96217	340.44795	4.88469	0.1652241	2.3901082	42	1	39 days	0.37		Williams	2000 CR ₈₅
2000 CS ₈₅	16.5	0.15	20000206	65.28427	303.60214	122.19298	1.96153	0.1594623	2.3874625	38	1	39 days	0.59		Williams	2000 CS ₈₅
2000 CT ₈₅	15.5	0.15	20000206	343.83089	40.92791	128.04603	2.43758	0.1056060	2.5412438	51	1	40 days	0.54		Williams	2000 CT ₈₅
2000 CU ₈₅	16.7	0.15	20000206	333.84115	47.73776	133.71123	5.46270	0.1270716	2.3049398	28	1	36 days	0.38		Williams	2000 CU ₈₅
2000 CV ₈₅	13.9	0.15	20000206	243.24780	154.85054	119.11613	3.36508	0.0622077	2.9238768	33	1	40 days	0.32		Williams	2000 CV ₈₅
2000 CW ₈₅	16.5	0.15	20000206	15.47934	14.52212	113.72685	2.26567	0.1280948	2.4381762	34	1	40 days	0.51		Williams	2000 CW ₈₅
2000 CX ₈₅	13.2	0.15	20000226	329.79465	50.07372	146.29596	8.52525	0.1572559	2.7762786	70	1	128 days	0.40	M-v 4	Williams	2000 CX ₈₅
2000 CY ₈₅	14.7	0.15	20000206	218.25743	159.23658	146.68198	7.58229	0.2288926	2.3564746	41	1	37 days	0.50		Williams	2000 CY ₈₅
2000 CZ ₈₅	14.7	0.15	20000206	90.44034	261.07584	152.44713	6.30462	0.0678891	2.8883378	28	1	36 days	0.69		Williams	2000 CZ ₈₅
2000 CB ₈₆	16.0	0.15	20000206	41.44449	116.33244	330.71235	3.81871	0.2160746	2.2957469	47	1	39 days	0.54		Williams	2000 CB ₈₆
2000 CD ₈₆	14.3	0.15	20000206	257.94790	266.00778	4.54763	1.36671	0.1478835	3.0558284	37	1	36 days	0.51		Williams	2000 CD ₈₆
2000 CE ₈₆	15.6	0.15	20000206	28.18729	123.11215	353.23894	2.45257	0.0934654	2.5791933	48	1	36 days	0.73		Williams	2000 CE ₈₆
2000 CG ₈₆	14.7	0.15	20000206	285.40926	109.92572	119.34231	3.43598	0.0263494	2.6280916	21	1	37 days	0.51		Williams	2000 CG ₈₆
2000 CM ₈₆	15.9	0.15	20000206	22.21695	352.03148	118.85645	4.93158	0.2545763	2.5633894	31	1	37 days	0.50		Williams	2000 CM ₈₆
2000 CN ₈₆	14.9	0.15	20000206	224.71130	317.27863	344.53819	11.87910	0.2164228	2.4355938	36	1	36 days	0.45		Williams	2000 CN ₈₆
2000 CO ₈₆	16.4	0.15	20000206	271.62703	145.01917	117.27655	5.41151	0.2127167	2.1725452	49	1	40 days	0.55		Williams	2000 CO ₈₆
2000 CQ ₈₆	15.1	0.15	20000206	54.51127	90.69488	352.20671	6.15285	0.1221869	2.2294641	28	1	39 days	0.39		Williams	2000 CQ ₈₆
2000 CT ₈₆	15.7	0.15	20000206	10.21531	12.79780	126.58294	6.77654	0.0751849	2.4812520	24	1	37 days	0.38		Williams	2000 CT ₈₆
2000 CU ₈₆	14.3	0.15	20000206	56.43177	107.80238	342.26667	21.47600	0.0650577	3.1113187	34	1	39 days	0.40		Williams	2000 CU ₈₆
2000 CW ₈₆	14.7	0.15	20000206	20.24631	67.81380	63.98860	3.51299	0.0324002	2.9063996	31	1	40 days	0.96		Williams	2000 CW ₈₆
2000 CX ₈₆	15.4	0.15	20000206	27.43660	53.70171	60.32908	1.56216	0.1420033	2.4720650	39	1	36 days	0.48		Williams	2000 CX ₈₆
2000 CY ₈₆	15.2	0.15	20000206	12.33725	156.45421	341.79667	13.42274	0.0463564	2.5988074	33	1	36 days	0.54		Williams	2000 CY ₈₆

2000 MAR. 20

M.P.C. 39599

2000 CZ ₈₆	14.2	0.15	20000206	336.65927	195.11903	341.57871	14.77705	0.0366450	2.5603465	29	1	36 days	0.52	Williams	2000 CZ ₈₆
2000 CA ₈₇	15.0	0.15	20000206	278.78899	240.90772	356.22332	3.09280	0.0334689	2.7486725	45	1	39 days	0.51	Williams	2000 CA ₈₇
2000 CB ₈₇	14.4	0.15	20000206	240.17311	303.78446	339.13459	7.86947	0.1106196	2.7222574	37	1	39 days	0.52	Williams	2000 CB ₈₇
2000 CC ₈₇	15.6	0.15	20000206	5.87278	111.33691	30.77676	1.58884	0.1320634	2.4363595	30	1	36 days	0.47	Williams	2000 CC ₈₇
2000 CG ₈₇	15.6	0.15	20000206	40.41946	330.72313	126.76095	2.08449	0.1498308	2.4233069	31	1	36 days	0.43	Williams	2000 CG ₈₇
2000 CK ₈₇	13.9	0.15	20000206	98.28632	253.73289	138.37126	8.37987	0.2317486	2.7790873	32	1	37 days	0.43	Williams	2000 CK ₈₇
2000 CN ₈₇	14.0	0.15	20000206	155.96800	218.28011	133.64962	14.84146	0.1477085	2.5535867	37	1	40 days	0.39	Williams	2000 CN ₈₇
2000 CP ₈₇	15.0	0.15	20000206	65.99448	276.21874	141.56630	9.80803	0.1758210	2.7364293	20	1	28 days	0.53	Williams	2000 CP ₈₇
2000 CT ₈₇	15.0	0.15	20000206	308.56399	233.99235	333.45524	13.79618	0.0821195	2.6551265	49	1	36 days	0.55	Marsden	2000 CT ₈₇
2000 CU ₈₇	15.6	0.15	20000206	357.26868	176.03535	334.89917	5.79928	0.0773783	2.6451817	33	1	36 days	0.42	Williams	2000 CU ₈₇
2000 CV ₈₇	16.0	0.15	20000206	43.66280	131.97756	328.38542	14.13769	0.0542696	2.4785685	26	1	36 days	0.73	Williams	2000 CV ₈₇
2000 CZ ₈₇	16.3	0.15	20000206	12.21078	354.28930	139.31066	1.62886	0.1282043	2.4291245	43	1	39 days	0.53	Williams	2000 CZ ₈₇
2000 CA ₈₈	13.4	0.15	20000206	285.22787	134.14019	111.15432	2.37872	0.1604543	3.1139413	32	1	36 days	0.45	Williams	2000 CA ₈₈
2000 CB ₈₈	16.0	0.15	20000206	16.95854	58.05202	67.34092	3.06297	0.1619635	2.6409247	22	1	36 days	0.57	Williams	2000 CB ₈₈
2000 CC ₈₈	16.1	0.15	20000206	251.18405	288.03823	344.94628	7.59222	0.1265703	2.2823724	40	1	36 days	0.52	Williams	2000 CC ₈₈
2000 CD ₈₈	13.9	0.15	20000206	54.42790	297.50214	147.79330	17.95586	0.1340540	3.1838451	17	1	37 days	0.50	Williams	2000 CD ₈₈
2000 CE ₈₈	16.1	0.15	20000206	356.30794	9.79786	145.36091	7.55655	0.1152958	2.5899107	32	1	39 days	0.67	Williams	2000 CE ₈₈
2000 CF ₈₈	14.7	0.15	20000206	232.12472	158.05418	137.02801	14.53171	0.1567367	2.6603663	34	1	37 days	0.48	Williams	2000 CF ₈₈
2000 CG ₈₈	14.7	0.15	20000206	199.96238	313.92902	359.16521	1.84777	0.0578743	2.8930071	31	1	36 days	0.50	Williams	2000 CG ₈₈
2000 CH ₈₈	14.3	0.15	20000206	7.98756	35.75357	110.43105	7.19852	0.0846600	2.6580248	28	1	37 days	0.50	Williams	2000 CH ₈₈
2000 CM ₈₈	14.2	0.15	20000226	99.60390	302.42079	112.59646	6.63824	0.0589777	2.3112412	36	1	68 days	0.38	M-v 5 Williams	2000 CM ₈₈
2000 CN ₈₈	15.1	0.15	20000206	356.23279	162.50156	356.50062	13.00069	0.2100562	2.5673838	25	1	37 days	0.28	Williams	2000 CN ₈₈
2000 CO ₈₈	13.9	0.15	20000206	105.61166	16.65416	8.79896	11.58307	0.2704176	2.4036355	29	1	37 days	0.40	Williams	2000 CO ₈₈
2000 CR ₈₈	13.2	0.15	20000206	254.61971	132.51923	145.55765	17.73702	0.0994709	3.1361498	18	1	30 days	0.48	Williams	2000 CR ₈₈
2000 CT ₈₈	15.2	0.15	20000206	317.96114	206.27531	2.83183	12.57518	0.1206783	2.6898141	29	1	37 days	0.41	Williams	2000 CT ₈₈
2000 CU ₈₈	14.7	0.15	20000206	55.16851	334.90362	99.37393	5.49664	0.2540734	2.5640635	23	1	37 days	0.46	Williams	2000 CU ₈₈
2000 CV ₈₈	14.0	0.15	20000206	273.48844	132.18672	135.29918	10.93963	0.1639841	2.9295282	27	1	40 days	0.40	Williams	2000 CV ₈₈
2000 CW ₈₈	15.4	0.15	20000206	341.61346	62.92969	122.78391	8.18605	0.2179879	2.5537280	18	1	37 days	0.50	Williams	2000 CW ₈₈
2000 CY ₈₈	14.9	0.15	20000206	63.34645	304.91398	152.50771	22.54076	0.0182672	3.1230814	27	1	37 days	0.76	Williams	2000 CY ₈₈
2000 CA ₈₉	12.4	0.15	20000206	203.85568	175.69048	150.54086	23.29142	0.0846146	3.1811621	19	1	30 days	0.34	Williams	2000 CA ₈₉
2000 CL ₈₉	14.6	0.15	20000206	84.49510	36.81589	18.32185	6.97598	0.1784326	3.0535261	25	1	37 days	0.77	Williams	2000 CL ₈₉
2000 CN ₈₉	14.7	0.15	20000206	268.08777	235.63416	28.57471	6.72335	0.1188855	2.6071735	24	1	37 days	0.73	Williams	2000 CN ₈₉
2000 CP ₈₉	14.2	0.15	20000206	260.55978	144.58327	128.42267	7.03762	0.1294774	2.3984948	17	1	30 days	0.34	Williams	2000 CP ₈₉
2000 CS ₈₉	15.6	0.15	20000226	299.37873	140.59145	101.30861	4.56688	0.1466555	2.1821443	37	2	1997–2000	0.64	M-v 5 Williams	2000 CS ₈₉
2000 CT ₈₉	14.3	0.15	20000206	237.18951	303.58080	2.75194	16.93333	0.2349158	2.5857833	15	1	36 days	0.49	Williams	2000 CT ₈₉
2000 CZ ₈₉	13.9	0.15	20000206	176.08534	187.26980	141.99170	15.76246	0.0931580	2.6777642	34	1	37 days	0.59	Williams	2000 CZ ₈₉
2000 CG ₉₀	15.8	0.15	20000206	95.02873	244.70120	147.37653	1.96894	0.1235389	2.2791153	38	1	34 days	0.61	Williams	2000 CG ₉₀
2000 CH ₉₀	15.1	0.15	20000206	55.43554	312.22824	125.17896	2.70133	0.0962671	2.9874260	28	1	36 days	0.66	Williams	2000 CH ₉₀
2000 CK ₉₀	14.8	0.15	20000206	37.79719	50.79293	60.74264	4.55236	0.0316112	2.7335658	41	1	40 days	0.49	Williams	2000 CK ₉₀
2000 CL ₉₀	15.0	0.15	20000206	104.02901	239.11306	142.62140	10.21541	0.1469618	2.6398009	29	1	38 days	0.63	Williams	2000 CL ₉₀
2000 CN ₉₀	16.3	0.15	20000206	20.47158	152.72627	323.15872	1.87919	0.1479197	2.3285981	46	1	35 days	0.59	Williams	2000 CN ₉₀
2000 CO ₉₀	15.0	0.15	20000206	324.91267	139.33320	53.57805	4.38789	0.0940985	2.7911486	16	1	35 days	0.59	Williams	2000 CO ₉₀
2000 CU ₉₀	12.9	0.15	20000206	145.52298	214.55412	169.13660	13.29472	0.1646355	2.5765075	22	1	35 days	0.78	Williams	2000 CU ₉₀
2000 CA ₉₁	15.3	0.15	20000206	5.44937	352.79347	152.58438	1.90132	0.1682556	2.7309868	26	1	34 days	0.50	Williams	2000 CA ₉₁
2000 CD ₉₁	15.0	0.15	20000206	12.77231	153.02922	344.53183	3.42480	0.1065480	2.6830801	25	1	34 days	0.53	Williams	2000 CD ₉₁
2000 CF ₉₁	15.1	0.15	20000206	338.16092	31.55891	156.25956	10.10658	0.1842916	3.0980654	43	1	39 days	0.49	Williams	2000 CF ₉₁
2000 CG ₉₁	15.5	0.15	20000226	21.08804	157.03845	336.91928	5.79594	0.1144956	2.2901578	50	1	61 days	0.45	M-v 5 Williams	2000 CG ₉₁
2000 CH ₉₁	14.5	0.15	20000206	88.21323	267.82250	156.66912	5.68990	0.0464593	2.7412972	30	1	34 days	0.88	Williams	2000 CH ₉₁
2000 CJ ₉₁	15.1	0.15	20000206	284.60452	233.96191	0.00522	2.77593	0.0250519	2.6216826	41	1	34 days	0.58	Williams	2000 CJ ₉₁
2000 CK ₉₁	15.6	0.15	20000206	203.70179	162.13513	152.03812	11.54996	0.0368417	2.4877765	26	1	35 days	0.63	Williams	2000 CK ₉₁
2000 CN ₉₁	13.3	0.15	20000226	124.14542	47.95704	342.77642	9.76254	0.0844826	2.9848991	49	1	61 days	0.47	M-v 5 Williams	2000 CN ₉₁
2000 CO ₉₁	15.1	0.15	20000206	284.20555	95.31849	154.56820	12.86058	0.1426058	2.6996759	23	1	35 days	0.53	Williams	2000 CO ₉₁
2000 CR ₉₁	16.0	0.15	20000206	23.57784	134.54471	353.04145	2.42198	0.0759942	2.2094189	30	1	34 days	0.40	Williams	2000 CR ₉₁

2000 CS ₉₁	14.8	0.15	20000206	280.99338	274.73743	344.30510	8.73077	0.1993442	2.3853566	22	1	34 days	0.53		Williams	2000 CS ₉₁
2000 CT ₉₁	13.5	0.15	20000226	19.96847	353.15946	145.17704	1.09258	0.1317396	3.1766909	45	1	67 days	0.47	M-v 5	Williams	2000 CT ₉₁
2000 CU ₉₁	15.6	0.15	20000206	62.59635	284.71262	154.86874	3.73161	0.1340844	2.2560233	38	1	34 days	0.53		Williams	2000 CU ₉₁
2000 CY ₉₁	15.0	0.15	20000206	37.29494	117.17389	347.43062	10.00572	0.1912023	3.0280786	29	1	34 days	0.45		Williams	2000 CY ₉₁
2000 CZ ₉₁	14.7	0.15	20000206	72.80134	271.26062	145.19137	9.03011	0.2360688	2.3321540	19	1	35 days	0.40		Williams	2000 CZ ₉₁
2000 CC ₉₂	13.3	0.15	20000206	117.81522	26.59300	5.59256	5.69129	0.1045765	2.7263101	27	1	35 days	0.61		Williams	2000 CC ₉₂
2000 CD ₉₂	15.7	0.15	20000206	7.43293	159.63718	344.21093	11.45756	0.1814682	2.4000020	52	1	35 days	0.73		Williams	2000 CD ₉₂
2000 CJ ₉₂	15.7	0.15	20000206	335.68738	45.69738	144.64738	5.45475	0.1585072	2.4322312	43	1	35 days	0.45		Williams	2000 CJ ₉₂
2000 CL ₉₂	13.8	0.15	20000226	35.24397	335.82265	147.36935	2.03636	0.1022179	3.1504249	43	4	1981–2000	0.59	M-v 1	Williams	38731 2000 CL ₉₂
2000 CM ₉₂	14.1	0.15	20000206	336.12221	66.95027	126.87531	0.45544	0.1506681	3.1890686	40	1	34 days	0.60		Williams	2000 CM ₉₂
2000 CN ₉₂	15.3	0.15	20000226	36.24290	329.91354	147.43601	1.60122	0.1391042	2.3966705	33	1	67 days	0.49	M-v 5	Williams	2000 CN ₉₂
2000 CO ₉₂	14.1	0.15	20000206	282.51337	85.24734	166.82651	3.90437	0.1015620	2.7913231	37	1	37 days	0.41		Williams	2000 CO ₉₂
2000 CP ₉₂	13.8	0.15	20000226	90.49467	267.52168	154.59341	7.18496	0.1192075	2.6702160	38	1	64 days	0.41	M-v 5	Williams	2000 CP ₉₂
2000 CU ₉₂	13.4	0.15	20000206	256.72173	282.55525	352.21338	21.58123	0.0467879	3.2264289	39	1	37 days	0.50		Williams	2000 CU ₉₂
2000 CC ₉₃	14.8	0.15	20000206	174.49004	355.53381	354.00417	14.22848	0.0877240	2.3554533	32	1	38 days	0.56		Williams	2000 CC ₉₃
2000 CK ₉₃	13.7	0.15	20000226	311.57289	92.43881	138.11929	9.24421	0.0897318	2.7276430	23	1	64 days	0.46	M-v 5	Williams	2000 CK ₉₃
2000 CL ₉₃	15.1	0.15	20000206	10.30345	348.31458	151.10694	8.50405	0.2091996	3.0535515	24	1	35 days	0.60		Williams	2000 CL ₉₃
2000 CO ₉₃	15.6	0.15	20000206	330.91265	106.15166	98.72114	4.01878	0.1197533	2.2543915	31	1	36 days	0.40		Williams	2000 CO ₉₃
2000 CU ₉₃	14.0	0.15	20000206	178.80389	297.03227	26.69827	1.38700	0.1130349	2.7776166	37	1	32 days	0.59		Williams	2000 CU ₉₃
2000 CV ₉₃	15.3	0.15	20000206	276.76391	280.94322	332.98116	9.54245	0.2480254	2.6601946	47	1	41 days	0.78		Williams	2000 CV ₉₃
2000 CX ₉₃	15.8	0.15	20000206	21.50410	319.68374	156.70614	3.73064	0.1076632	2.5990272	39	1	33 days	0.52		Williams	2000 CX ₉₃
2000 CB ₉₄	14.8	0.15	20000226	75.10997	85.78276	349.61899	11.13933	0.1771458	2.6438785	65	2	1998–2000	0.55	M-v 3	Williams	38732 2000 CB ₉₄
2000 CD ₉₄	13.9	0.15	20000226	357.99335	181.24489	353.97683	10.63510	0.0408230	2.9725590	26	1	35 days	0.61		Williams	2000 CD ₉₄
2000 CE ₉₄	15.0	0.15	20000206	21.61513	331.38866	164.05399	14.20468	0.1722016	2.7512974	22	1	33 days	0.33		Williams	2000 CE ₉₄
2000 CG ₉₄	14.5	0.15	20000206	123.32602	227.31677	169.96735	15.90431	0.1203366	2.6440080	27	1	33 days	0.61		Williams	2000 CG ₉₄
2000 CH ₉₄	14.2	0.15	20000226	334.04952	203.99817	358.33253	10.52802	0.0350914	3.1492999	23	1	35 days	0.74		Williams	2000 CH ₉₄
2000 CJ ₉₄	14.1	0.15	20000226	329.14306	193.20775	20.59349	1.64149	0.1229964	3.1990020	28	1	35 days	0.61		Williams	2000 CJ ₉₄
2000 CM ₉₄	13.4	0.15	20000226	15.03999	349.78860	165.20904	11.72603	0.1062690	2.5520128	35	1	125 days	0.51	M-v 4	Williams	2000 CM ₉₄
2000 CN ₉₄	14.5	0.15	20000226	344.59552	185.77922	6.39878	8.46752	0.0454416	2.8010171	36	1	35 days	0.61		Williams	2000 CN ₉₄
2000 CR ₉₄	14.2	0.15	20000226	40.71046	123.29160	1.94937	12.59410	0.1248553	2.5411826	62	1	66 days	0.63	M-v 5	Williams	2000 CR ₉₄
2000 CV ₉₄	16.3	0.15	20000206	91.66622	89.00631	306.67963	3.30942	0.1426737	2.4061561	21	1	26 days	0.58		Williams	2000 CV ₉₄
2000 CZ ₉₄	13.0	0.15	20000206	11.20851	30.32059	131.71479	8.16043	0.1340574	2.5662935	24	1	32 days	0.60		Williams	2000 CZ ₉₄
2000 CL ₉₆	16.6	0.15	20000206	16.91046	153.37161	335.06061	5.46606	0.1687469	2.3240340	46	1	34 days	0.50		Williams	2000 CL ₉₆
2000 CN ₉₆	16.4	0.15	20000226	303.42884	252.87971	340.77628	2.48790	0.1556253	2.4229644	19	1	29 days	0.39		Williams	2000 CN ₉₆
2000 CG ₉₇	14.6	0.15	20000226	73.07562	255.01601	171.90306	16.90747	0.2496214	3.1363826	37	1	28 days	0.56		Williams	2000 CG ₉₇
2000 CL ₉₇	16.1	0.15	20000206	59.87247	92.58529	340.85873	5.80813	0.1400185	2.2892553	41	1	36 days	0.70		Williams	2000 CL ₉₇
2000 CO ₉₇	15.0	0.15	20000226	58.31500	267.52910	169.68983	24.87295	0.2904638	3.1970514	38	1	28 days	0.51		Williams	2000 CO ₉₇
2000 CQ ₉₇	15.4	0.15	20000206	61.58481	276.42832	134.03157	14.95384	0.2230787	2.6800627	11	1	23 days	0.85		Williams	2000 CQ ₉₇
2000 CR ₉₇	15.6	0.15	20000226	318.72967	127.20777	94.24007	0.72471	0.1237718	2.3634316	33	1	30 days	1.06		Williams	2000 CR ₉₇
2000 CV ₉₇	18.8	0.15	20000206	337.00094	30.33476	136.75882	3.28730	0.0782765	2.1794653	11	1	17 days	0.22		Williams	2000 CV ₉₇
2000 CF ₉₈	14.9	0.15	20000206	106.24029	67.55378	325.82457	10.11653	0.1186005	3.1218285	14	1	25 days	0.44		Williams	2000 CF ₉₈
2000 CH ₉₈	17.3	0.15	20000206	359.82435	258.61966	251.01089	0.55876	0.1289015	2.4425698	11	1	25 days	0.22		Williams	2000 CH ₉₈
2000 CK ₉₈	16.1	0.15	20000206	238.56937	312.30702	333.81206	5.27995	0.1354187	2.3414330	20	1	33 days	0.44		Williams	2000 CK ₉₈
2000 CL ₉₈	16.7	0.15	20000206	2.33457	238.83042	258.03931	0.64085	0.1028258	2.6481707	12	1	30 days	0.23		Williams	2000 CL ₉₈
2000 CM ₉₈	16.7	0.15	20000206	220.64011	133.13604	148.92933	4.85268	0.0339101	2.7648396	12	1	24 days	0.22		Williams	2000 CM ₉₈
2000 CN ₉₈	14.5	0.15	20000206	202.57748	156.69762	149.43936	4.27304	0.2404410	2.5305758	28	1	30 days	0.37		Williams	2000 CN ₉₈
2000 CO ₉₈	17.3	0.15	20000206	76.35683	254.02058	151.53133	3.49897	0.1585228	2.3900584	12	1	24 days	0.22		Williams	2000 CO ₉₈
2000 CP ₉₈	16.6	0.15	20000226	241.69094	87.38098	193.10016	0.77512	0.1970695	2.4177417	15	1	35 days	0.27		Williams	2000 CP ₉₈
2000 CS ₉₈	15.2	0.15	20000206	93.19301	85.85596	315.79240	4.37569	0.0523709	2.7358180	26	1	31 days	0.61		Williams	2000 CS ₉₈
2000 CT ₉₈	14.7	0.15	20000206	189.66040	356.93967	318.03589	6.81652	0.2547736	2.2355315	16	1	26 days	0.48		Williams	2000 CT ₉₈
2000 CX ₉₈	16.4	0.15	20000206	143.78679	202.52834	147.99134	2.80944	0.1145225	2.2881514	18	1	32 days	0.31		Williams	2000 CX ₉₈
2000 CZ ₉₈	14.0	0.15	20000206	176.33156	177.48807	147.31031	4.07691	0.2235894	3.1787260	12	1	30 days	0.23		Williams	2000 CZ ₉₈
2000 CB ₉₉	18.4	0.15	20000206	331.19210	43.14356	144.11552	1.63460	0.2471488	2.2331813	9	1	32 days	0.38		Williams	2000 CB ₉₉

2000 MAR. 20

M.P.C. 39601

2000 CC ₉₉	15.7	0.15	20000206	73.98571	257.45054	148.17073	2.80444	0.1895263	2.4506431	49	1	44 days	0.60	Williams	2000 CC ₉₉
2000 CH ₉₉	15.4	0.15	20000206	305.49388	73.88358	136.18544	2.63544	0.1231828	3.1538248	13	1	24 days	0.54	Williams	2000 CH ₉₉
2000 CL ₉₉	16.3	0.15	20000206	48.49072	124.26603	329.31491	4.29624	0.0131604	2.7364047	9	1	19 days	0.10	Williams	2000 CL ₉₉
2000 CD ₁₀₀	15.2	0.15	20000206	70.67465	62.16244	327.79222	5.97020	0.3289614	2.7330624	19	1	37 days	0.44	Williams	2000 CD ₁₀₀
2000 CF ₁₀₀	17.8	0.15	20000206	17.38383	155.06231	320.02893	5.14460	0.0967555	2.2841312	8	1	9 days	0.28	Williams	2000 CF ₁₀₀
2000 CG ₁₀₀	15.9	0.15	20000206	29.53191	137.91338	318.96986	5.13405	0.1469667	2.4342380	8	1	9 days	0.04	Williams	2000 CG ₁₀₀
2000 CK ₁₀₀	14.4	0.15	20000206	244.52586	122.71583	135.38842	10.98963	0.0580310	2.9629707	24	1	30 days	0.45	Williams	2000 CK ₁₀₀
2000 CQ ₁₀₀	15.0	0.15	20000206	117.78488	44.82004	321.20695	14.18182	0.1455491	2.6508586	8	1	9 days	0.11	Williams	2000 CQ ₁₀₀
2000 CU ₁₀₀	15.6	0.15	20000206	156.57070	205.03524	134.02142	10.73479	0.0698766	3.0832257	10	1	18 days	0.31	Williams	2000 CU ₁₀₀
2000 CM ₁₀₁	16.0	0.15	20000226	356.61734	186.47777	348.18350	9.71936	0.1503410	2.7307882	32	1	26 days	0.90	Williams	2000 CM ₁₀₁
2000 CN ₁₀₁	14.3	0.15	20000226	236.32469	118.30015	183.73278	15.92981	0.6349112	1.5991281	60	2	1984-2000	0.72	M-v 6 Williams	38732 2000 CN ₁₀₁
2000 CO ₁₀₁	18.8	0.15	20000226	97.04297	65.22005	353.19469	15.33587	0.0896193	1.0754310	93	1	39 days	0.54	M-v 5 Williams	2000 CO ₁₀₁
2000 CP ₁₀₁	19.2	0.15	20000226	29.10259	247.45159	160.65410	10.46508	0.6189480	1.7736757	58	1	32 days	0.55	M-v 6 Williams	2000 CP ₁₀₁
2000 CQ ₁₀₁	17.7	0.15	20000226	336.59879	173.88011	29.96074	2.98402	0.4939401	2.2881837	32	1	62 days	0.52	M-v 4 Williams	38906 2000 CQ ₁₀₁
2000 CR ₁₀₁	19.8	0.15	20000226	19.22831	152.80410	333.86946	0.59973	0.2456781	1.6947700	67	1	31 days	0.47	M-v 6 Williams	2000 CR ₁₀₁
2000 CT ₁₀₁	20.5	0.15	20000226	50.96855	292.27889	135.68371	23.28782	0.3548351	1.2996195	29	1	21 days	0.68	Williams	2000 CT ₁₀₁
2000 CU ₁₀₁	12.7	0.15	20000206	83.46675	274.52957	152.58369	10.08333	0.0638207	3.1760330	50	1	35 days	0.46	Williams	2000 CU ₁₀₁
2000 CW ₁₀₁	15.0	0.15	20000206	201.08499	328.41589	352.82107	8.85419	0.1996829	2.2907668	37	1	38 days	0.72	Williams	2000 CW ₁₀₁
2000 CX ₁₀₁	15.2	0.15	20000206	275.83247	123.53253	143.35247	8.68710	0.2426166	2.4634329	41	1	37 days	0.52	Williams	2000 CX ₁₀₁
2000 CB ₁₀₂	15.4	0.15	20000206	187.35024	162.42738	152.95683	3.74846	0.1695940	2.2651986	29	1	36 days	0.62	Williams	2000 CB ₁₀₂
2000 CJ ₁₀₂	15.1	0.15	20000206	316.51617	12.78181	189.72961	2.54484	0.1706560	2.3347528	30	1	32 days	0.43	Williams	2000 CJ ₁₀₂
2000 CK ₁₀₂	15.6	0.15	20000206	355.11670	327.09556	182.83148	2.01859	0.1323576	2.4646815	24	1	38 days	0.72	Williams	2000 CK ₁₀₂
2000 CU ₁₀₂	15.1	0.15	20000206	14.03215	179.59255	325.86819	8.16244	0.0942057	2.5282288	25	1	41 days	0.75	Williams	2000 CU ₁₀₂
2000 CK ₁₀₃	12.3	0.15	20000206	148.35241	135.50053	228.05347	11.71280	0.1062609	3.0435398	26	1	35 days	0.29	Williams	2000 CK ₁₀₃
2000 CL ₁₀₃	15.5	0.15	20000206	350.44969	211.84463	318.38305	4.61947	0.0689162	2.5497748	32	1	38 days	0.56	Williams	2000 CL ₁₀₃
2000 CN ₁₀₃	15.5	0.15	20000226	23.10092	225.07655	252.80008	7.80549	0.1894816	2.4319259	20	1	61 days	0.51	M-v 4 Williams	2000 CN ₁₀₃
2000 CO ₁₀₃	14.7	0.15	20000226	88.89241	92.07628	301.19255	22.46253	0.2837906	2.2597745	22	1	61 days	0.57	M-v 5 Williams	2000 CO ₁₀₃
2000 CQ ₁₀₃	12.5	0.15	20000226	271.07008	75.19348	171.70276	18.94727	0.0471626	3.1476240	25	1	64 days	0.43	M-v 5 Williams	2000 CQ ₁₀₃
2000 CT ₁₀₃	13.0	0.15	20000226	50.81746	257.28189	196.85895	10.30982	0.1005862	3.0565839	34	1	90 days	0.44	M-v 5 Williams	2000 CT ₁₀₃
2000 CV ₁₀₃	15.3	0.15	20000226	302.09092	319.31255	276.83519	9.13287	0.1948796	2.8050200	25	1	35 days	0.53	Williams	2000 CV ₁₀₃
2000 CD ₁₀₄	13.0	0.15	20000206	14.11355	322.22335	169.17534	9.02938	0.1893709	3.9733836	43	1	38 days	0.41	Williams	2000 CD ₁₀₄
2000 CE ₁₀₄	16.3	0.15	20000206	72.55611	120.41654	298.91375	1.78220	0.1369776	2.3497859	53	1	36 days	0.67	Williams	2000 CE ₁₀₄
2000 CF ₁₀₄	14.3	0.15	20000226	323.47609	100.06973	105.67776	2.57613	0.1346442	3.1580449	36	1	31 days	0.57	Williams	2000 CF ₁₀₄
2000 CL ₁₀₄	6.2	0.15	20000206	0.00000	8.73139	141.84779	1.37935	0.0000000	42.7402252	4	1	25 days	0.13	E Marsden	2000 CL ₁₀₄
2000 CM ₁₀₄	7.5	0.15	20000206	0.00000	1.72415	149.01724	0.93119	0.0000000	42.5849615	4	1	22 days	0.13	E Marsden	2000 CM ₁₀₄
2000 CN ₁₀₄	6.9	0.15	20000206	0.00000	0.25713	150.54231	31.51916	0.0000000	42.9273894	4	1	25 days	0.10	E Marsden	2000 CN ₁₀₄
2000 CO ₁₀₄	9.9	0.15	20000206	180.52776	339.21986	346.76972	3.99528	0.2557486	17.4967924	4	1	21 days	0.11	E Marsden	2000 CO ₁₀₄
2000 CP ₁₀₄	6.4	0.15	20000206	0.00000	19.28668	129.90515	9.15548	0.0000000	46.5199314	6	1	21 days	0.09	E Marsden	2000 CP ₁₀₄
2000 CQ ₁₀₄	7.9	0.15	20000206	350.93839	177.17379	342.90498	12.48768	0.1099216	39.3298820	6	1	21 days	0.12	E Marsden	2000 CQ ₁₀₄
2000 CE ₁₀₅	7.2	0.15	20000206	0.00000	29.11750	78.83460	0.58381	0.0000000	41.7401816	4	1	21 days	0.24	E Marsden	2000 CE ₁₀₅
2000 CF ₁₀₅	7.0	0.15	20000206	0.00000	62.36160	58.47426	0.53546	0.0000000	42.4443676	4	1	25 days	0.26	E Marsden	2000 CF ₁₀₅
2000 CG ₁₀₅	6.3	0.15	20000206	0.00000	179.60803	314.06050	27.90195	0.0000000	46.4217977	4	1	22 days	0.11	E Marsden	2000 CG ₁₀₅
2000 CH ₁₀₅	6.2	0.15	20000206	0.00000	201.16479	320.07302	1.16183	0.0000000	44.0127396	4	1	25 days	0.18	E Marsden	2000 CH ₁₀₅
2000 CJ ₁₀₅	5.5	0.15	20000206	0.00000	8.04740	153.74046	10.95663	0.0000000	47.1699572	5	1	25 days	0.16	E Marsden	2000 CJ ₁₀₅
2000 CK ₁₀₅	6.5	0.15	20000206	0.00000	162.41094	329.21188	6.92163	0.0000000	47.3760886	4	1	20 days	0.06	E Marsden	2000 CK ₁₀₅
2000 CL ₁₀₅	6.5	0.15	20000206	0.00000	21.42906	113.04838	4.06296	0.0000000	44.8124054	4	1	21 days	0.08	E Marsden	2000 CL ₁₀₅
2000 CM ₁₀₅	6.3	0.15	20000206	0.00000	89.03604	45.76285	3.75667	0.0000000	41.7247289	5	1	24 days	0.17	E Marsden	2000 CM ₁₀₅
2000 CN ₁₀₅	5.2	0.15	20000206	0.00000	120.47711	28.54475	3.42737	0.0000000	45.5660544	8	1	24 days	0.17	E Marsden	2000 CN ₁₀₅
2000 CO ₁₀₅	5.8	0.15	20000206	179.97745	352.71429	307.04933	19.78232	0.1027394	44.9279608	4	1	21 days	0.05	E Marsden	2000 CO ₁₀₅
2000 CP ₁₀₅	7.7	0.15	20000206	359.68815	1.85182	133.13984	19.42549	0.5854253	83.1642149	4	1	21 days	0.16	E Marsden	2000 CP ₁₀₅
2000 CQ ₁₀₅	6.1	0.15	20000206	179.95327	185.25271	130.88819	20.54039	0.1154759	45.9228980	4	1	25 days	0.15	E Marsden	2000 CQ ₁₀₅
2000 CR ₁₀₅	5.7	0.15	20000206	331.38217	98.74921	130.32688	30.83948	0.5861711	81.7859845	4	1	21 days	0.16	E Marsden	2000 CR ₁₀₅
2000 CS ₁₀₅	7.3	0.15	20000206	359.99945	141.29177	19.00562	5.03854	0.1433804	44.7134688	4	1	24 days	0.04	E Marsden	2000 CS ₁₀₅

2000 DG	13.6	0.15	20000226	99.74738	68.65696	327.41804	17.37345	0.1941431	3.2076919	32	1	19 days	0.76		Williams	2000 DG
2000 DN	14.0	0.15	20000226	77.05574	280.77155	159.13526	0.88236	0.0146558	3.1025500	28	1	16 days	1.23		Williams	2000 DN
2000 DP	14.5	0.15	20000226	268.83809	245.02983	25.70194	2.28514	0.1861808	2.3914237	36	1	29 days	0.50		Williams	2000 DP
2000 DQ	14.3	0.15	20000226	306.06073	225.55862	12.11875	7.65349	0.2066496	2.6024907	30	1	68 days	0.55	M-v 5	Williams	2000 DQ
2000 DR	15.0	0.15	20000226	28.85320	10.14026	108.16445	8.01128	0.1961148	2.5451851	24	1	17 days	0.50		Williams	2000 DR
2000 DS	13.3	0.15	20000226	331.88528	196.04740	6.56938	15.71981	0.2055494	3.0316481	25	1	17 days	0.63		Williams	2000 DS
2000 DT	14.6	0.15	20000226	19.28582	133.16636	352.05296	23.61918	0.2684465	2.3484702	29	1	17 days	0.62		Williams	2000 DT
2000 DU	13.0	0.15	20000226	4.26076	128.88626	27.04075	11.36156	0.1144624	3.0740857	21	1	17 days	1.24		Williams	2000 DU
2000 DV	15.6	0.15	20000226	2.02825	32.36319	128.75587	6.84032	0.0902536	2.4073996	22	1	30 days	0.56		Williams	2000 DV
2000 DX	16.0	0.15	20000206	319.32615	107.33954	95.95066	6.36712	0.0796855	2.3324410	36	1	36 days	0.68		Williams	2000 DX
2000 DY	13.8	0.15	20000226	18.27589	26.25182	115.52041	11.54086	0.0695656	2.6862492	30	1	20 days	0.66		Williams	2000 DY
2000 DZ	14.4	0.15	20000226	98.75544	315.18858	97.44191	6.40407	0.1117558	2.2700662	40	1	68 days	0.58	M-v 5	Williams	2000 DZ
2000 DB ₁	16.0	0.15	20000226	234.12600	178.19315	97.58097	24.73923	0.0253974	1.8965877	20	1	8 days	0.71		Williams	2000 DB ₁
2000 DC ₁	13.8	0.15	20000226	345.03018	89.92979	73.02786	25.90654	0.1336180	3.2934645	11	1	3 days	0.98	E	Williams	2000 DC ₁
2000 DE ₁	13.9	0.15	20000226	351.40023	160.35124	358.64421	1.58164	0.0238799	2.9567741	38	1	14 days	0.61		Williams	2000 DE ₁
2000 DF ₁	13.7	0.15	20000226	291.59250	222.62118	36.57442	6.01301	0.1445601	2.2804054	11	1	15 days	0.59		Williams	2000 DF ₁
2000 DH ₁	14.5	0.15	20000226	285.71881	124.82903	149.21798	8.43800	0.1882911	2.3952567	23	1	16 days	0.43		Williams	2000 DH ₁
2000 DM ₁	18.1	0.15	20000226	285.63537	306.52016	342.93521	20.66265	0.4836017	1.3682362	95	1	29 days	0.53		Williams	2000 DM ₁
2000 DN ₁	19.9	0.15	20000226	353.79533	146.15742	42.40185	7.77143	0.6701648	2.8940360	66	1	18 days	0.87		Williams	2000 DN ₁
2000 DO ₁	20.4	0.15	20000226	323.67243	302.27745	336.28997	3.45698	0.6811172	1.4279587	173	1	24 days	0.64	M-v 7	Williams	2000 DO ₁
2000 DP ₁	14.7	0.15	20000226	321.29727	223.64834	358.69503	16.75421	0.1283307	3.1431052	21	1	17 days	0.48		Williams	2000 DP ₁
2000 DQ ₁	14.8	0.15	20000226	225.19747	173.62658	117.63235	8.54093	0.0771788	2.7734019	21	1	5 days	0.70	E	Williams	2000 DQ ₁
2000 DR ₁	17.5	0.15	20000226	345.35374	354.43221	174.46969	0.91788	0.1620755	2.3520274	10	1	6 days	0.26	E	Williams	2000 DR ₁
2000 DS ₁	16.4	0.15	20000226	296.03318	279.99767	323.73214	3.29653	0.2801698	2.5892901	14	1	6 days	0.42	E	Williams	2000 DS ₁
2000 DW ₁	18.1	0.15	20000226	301.34682	86.18083	140.39753	1.15098	0.1669696	2.2021688	9	1	6 days	0.41	E	Williams	2000 DW ₁
2000 DX ₁	18.0	0.15	20000226	293.27936	96.72523	139.92161	1.76687	0.1768559	2.2714983	9	1	6 days	0.26	E	Williams	2000 DX ₁
2000 DY ₁	15.3	0.15	20000226	125.17378	235.40997	141.38846	3.15375	0.0829857	2.4753210	18	1	14 days	0.94		Williams	2000 DY ₁
2000 DB ₂	13.6	0.15	20000226	284.26732	271.46854	357.54954	4.57616	0.1332967	3.1289533	24	1	17 days	0.56		Williams	2000 DB ₂
2000 DC ₂	14.3	0.15	20000226	291.97595	256.67835	1.44911	1.32740	0.1133189	2.9318685	24	1	17 days	0.45		Williams	2000 DC ₂
2000 DE ₂	16.5	0.15	20000226	99.78963	249.84851	173.07958	4.40873	0.1194109	2.3017373	21	1	14 days	0.30		Williams	2000 DE ₂
2000 DF ₂	14.2	0.15	20000226	167.46345	199.01438	170.90697	5.79583	0.1214483	2.6701605	26	1	17 days	0.54		Williams	2000 DF ₂
2000 DJ ₂	14.2	0.15	20000226	231.24352	149.17938	175.57296	11.84483	0.1983379	2.6887742	20	1	17 days	0.38		Williams	2000 DJ ₂
2000 DK ₂	14.8	0.15	20000226	267.24802	173.52378	123.68864	5.67994	0.1009809	2.7617739	12	1	14 days	0.24		Williams	2000 DK ₂
2000 DP ₂	14.6	0.15	20000206	341.67797	80.30531	96.62271	2.17998	0.1237710	3.0804419	42	1	37 days	0.58		Williams	2000 DP ₂
2000 DQ ₂	16.7	0.15	20000226	359.73183	2.12270	157.97088	1.89998	0.0983036	2.3904182	46	1	14 days	0.78		Williams	2000 DQ ₂
2000 DR ₂	15.7	0.15	20000206	2.44810	175.84902	341.45034	8.42254	0.0667061	2.3029487	42	1	34 days	0.62		Williams	2000 DR ₂
2000 DX ₂	15.1	0.15	20000226	58.55579	272.75681	159.12657	3.22104	0.1142755	2.6216217	19	1	11 days	0.44		Williams	2000 DX ₂
2000 DY ₂	16.0	0.15	20000226	156.37259	15.54225	324.93082	6.47956	0.2225291	2.1699660	12	1	16 days	0.21		Williams	2000 DY ₂
2000 DZ ₂	12.5	0.15	20000226	289.15569	124.84277	111.34693	11.67616	0.0239490	2.9849620	13	1	17 days	0.54		Williams	2000 DZ ₂
2000 DA ₃	12.2	0.15	20000226	225.92739	257.54564	46.57002	9.61674	0.0918522	2.9651594	19	1	17 days	0.67		Williams	2000 DA ₃
2000 DB ₃	12.6	0.15	20000226	50.34115	62.58867	40.61119	9.74991	0.0963784	3.0856620	16	1	14 days	0.80		Williams	2000 DB ₃
2000 DE ₃	12.4	0.15	20000226	189.05238	328.17143	15.62978	16.28052	0.0748952	3.1928090	31	1	30 days	0.67		Williams	2000 DE ₃
2000 DF ₃	14.3	0.15	20000226	336.33555	156.48378	45.33807	8.44306	0.1629292	2.3483651	14	1	65 days	0.49	M-v 5	Williams	2000 DF ₃
2000 DG ₃	13.5	0.15	20000206	298.30815	133.36943	112.45983	10.09658	0.1858464	2.3344592	21	1	37 days	0.37		Williams	2000 DG ₃
2000 DH ₃	11.8	0.15	20000206	215.99010	202.46281	122.82419	14.08190	0.2058050	2.5693113	20	1	37 days	0.53		Williams	2000 DH ₃
2000 DJ ₃	16.5	0.15	20000226	24.46305	338.71255	144.53232	4.90381	0.1758725	2.3285162	40	1	30 days	0.66		Williams	2000 DJ ₃
2000 DK ₃	13.6	0.15	20000206	203.93407	166.60837	146.33722	9.12401	0.0338126	3.1296414	36	1	37 days	0.78		Williams	2000 DK ₃
2000 DP ₃	14.5	0.15	20000226	268.25724	275.65112	352.88862	8.32370	0.1586929	2.5511418	26	1	13 days	0.55		Williams	2000 DP ₃
2000 DQ ₃	14.0	0.15	20000226	27.16133	111.91583	31.86128	8.24361	0.1242074	3.0840714	13	1	13 days	0.65		Williams	2000 DQ ₃
2000 DR ₃	16.2	0.15	20000226	307.07173	214.63590	357.04818	4.28570	0.2329897	2.6293812	16	1	7 days	0.41		Williams	2000 DR ₃
2000 DV ₃	15.5	0.15	20000226	235.10208	235.29373	54.10170	0.77145	0.1183504	2.4610343	31	1	17 days	0.48		Williams	2000 DV ₃
2000 DX ₃	14.3	0.15	20000226	168.85164	230.49919	114.72901	24.62411	0.0455546	1.9215417	32	1	12 days	0.29		Williams	2000 DX ₃
	12.6	0.15	20000206	253.75478	169.70576	93.08551	22.37455	0.0545379	3.2342801	22	1	35 days	0.47		Williams	2000 DX ₃

2000 MAR. 20

M.P.C. 39603

2000 DZ ₃	14.4	0.15	20000226	158.45354	285.52970	56.84759	4.82270	0.1974272	2.1948372	15	1	5 days	0.47	E	Williams	2000 DZ ₃
2000 DA ₄	13.8	0.15	20000226	334.99035	72.05882	110.97250	6.94270	0.1635039	2.7936624	20	1	13 days	0.42		Williams	2000 DA ₄
2000 DB ₄	15.5	0.15	20000226	310.58901	108.42334	105.52456	5.65761	0.1572889	2.3891883	13	1	5 days	0.60	E	Williams	2000 DB ₄
2000 DC ₄	15.7	0.15	20000226	313.07216	73.24689	132.95518	15.61352	0.1110011	2.7524030	17	1	12 days	0.52		Williams	2000 DC ₄
2000 DF ₄	15.0	0.15	20000226	310.92511	198.92531	23.91475	4.83230	0.2370228	2.6604571	20	1	5 days	0.42	E	Williams	2000 DF ₄
2000 DG ₄	16.2	0.15	20000226	26.45200	69.04671	44.13964	3.49747	0.1707320	2.2950719	17	1	5 days	0.44	E	Williams	2000 DG ₄
2000 DH ₄	15.5	0.15	20000226	275.70603	136.65794	106.30001	5.29281	0.0767762	2.1933609	19	1	12 days	0.43		Williams	2000 DH ₄
2000 DJ ₄	15.7	0.15	20000226	318.93217	90.25128	115.83105	6.10536	0.1670136	2.3027552	15	1	5 days	0.42	E	Williams	2000 DJ ₄
2000 DL ₄	13.8	0.15	20000226	20.89543	109.95000	13.24910	6.39015	0.0967178	3.1686905	38	1	30 days	0.43		Williams	2000 DL ₄
2000 DM ₄	14.2	0.15	20000226	184.46659	210.63525	114.42735	8.78378	0.1174744	2.3777710	14	1	5 days	0.44	E	Williams	2000 DM ₄
2000 DN ₄	14.0	0.15	20000226	118.01055	359.08936	24.90286	6.11289	0.0591578	2.7827090	18	1	12 days	1.29		Williams	2000 DN ₄
2000 DO ₄	15.7	0.15	20000226	339.98202	64.65450	108.11166	6.76390	0.0762642	2.2503372	10	1	5 days	0.47	E	Williams	2000 DO ₄
2000 DP ₄	15.1	0.15	20000226	36.69945	99.68961	6.80018	8.71999	0.0705490	2.4243767	16	1	10 days	0.88		Williams	2000 DP ₄
2000 DQ ₄	15.4	0.15	20000226	293.40950	117.14096	109.07122	7.81554	0.0934831	2.2926269	27	1	13 days	0.40		Williams	2000 DQ ₄
2000 DR ₄	12.9	0.15	20000226	276.71443	236.84048	6.03157	9.40863	0.1021780	2.6764552	17	1	12 days	0.39		Williams	2000 DR ₄
2000 DS ₄	13.2	0.15	20000226	78.97256	71.64504	348.15544	14.89468	0.0859017	2.6047203	19	1	6 days	0.34	E	Williams	2000 DS ₄
2000 DT ₄	15.4	0.15	20000226	311.93112	148.47128	63.09498	4.90878	0.1419877	2.3897573	12	1	5 days	0.52	E	Williams	2000 DT ₄
2000 DU ₄	15.4	0.15	20000226	6.78049	84.88353	55.90998	4.68286	0.1540706	2.4963725	18	1	5 days	0.51	E	Williams	2000 DU ₄
2000 DV ₄	13.8	0.15	20000226	127.32649	256.84292	123.59113	11.30889	0.0210455	2.6481360	24	1	10 days	0.47		Williams	2000 DV ₄
2000 DX ₄	14.8	0.15	20000226	269.95559	221.86612	40.06833	4.52653	0.1996215	2.4326567	17	1	6 days	0.50	E	Williams	2000 DX ₄
2000 DY ₄	11.2	0.15	20000226	69.27040	344.60240	69.84891	5.72440	0.2070506	5.2590552	17	1	6 days	0.40	E	Williams	2000 DY ₄
2000 DB ₅	14.1	0.15	20000226	223.34578	161.10413	131.49206	14.67103	0.0799678	2.7987062	28	1	10 days	0.72		Williams	2000 DB ₅
2000 DC ₅	12.8	0.15	20000226	201.57626	317.04611	357.69543	11.29870	0.2358429	2.9682645	14	1	5 days	0.54	E	Williams	2000 DC ₅
2000 DD ₅	14.4	0.15	20000206	246.55032	239.95877	28.82768	5.46703	0.0969296	2.4747493	41	1	38 days	0.52		Williams	2000 DD ₅
2000 DE ₅	14.1	0.15	20000226	314.94041	100.72894	116.53468	7.92421	0.2257677	3.2470701	17	1	6 days	0.54	E	Williams	2000 DE ₅
2000 DF ₅	16.8	0.15	20000226	312.81944	141.42790	71.34631	3.31476	0.1513775	2.4280359	17	1	9 days	0.51		Williams	2000 DF ₅
2000 DH ₅	16.5	0.15	20000226	9.27273	135.74809	4.32969	5.99370	0.1035152	2.3008087	18	1	12 days	0.67		Williams	2000 DH ₅
2000 DL ₅	15.1	0.15	20000226	350.29777	113.90801	45.71531	4.10787	0.0830876	2.5726623	13	1	5 days	0.46	E	Williams	2000 DL ₅
2000 DM ₅	16.0	0.15	20000226	320.55830	115.26978	73.75739	27.79834	0.0281863	1.8478901	11	1	5 days	0.41		Williams	2000 DM ₅
2000 DN ₅	13.8	0.15	20000226	36.36348	27.71069	72.71428	37.38052	0.1754630	2.7607551	12	1	5 days	0.30		Williams	2000 DN ₅
2000 DO ₅	14.2	0.15	20000226	241.92660	111.04792	182.71101	2.85426	0.1726271	2.4595229	17	1	15 days	0.55		Williams	2000 DO ₅
2000 DP ₅	13.4	0.15	20000226	189.68268	135.22668	199.22884	1.85562	0.2283698	2.7768937	12	1	7 days	0.47		Williams	2000 DP ₅
2000 DQ ₅	15.5	0.15	20000226	299.65148	49.14873	189.58310	2.00263	0.1689407	2.3497727	26	1	15 days	0.45		Williams	2000 DQ ₅
2000 DR ₅	15.6	0.15	20000226	274.28596	278.93809	332.06804	5.49550	0.0423405	2.4085450	39	1	15 days	0.65		Williams	2000 DR ₅
2000 DS ₅	14.6	0.15	20000226	303.99617	185.77047	50.34895	24.44241	0.2523463	2.3798778	13	1	4 days	0.41		Williams	2000 DS ₅
2000 DT ₅	14.3	0.15	20000226	183.24872	268.39018	63.46785	29.79043	0.1479434	1.9679163	14	1	4 days	0.43		Williams	2000 DT ₅
2000 DU ₅	15.7	0.15	20000226	10.96426	71.68536	64.24660	24.60884	0.2238391	2.2878203	17	1	4 days	0.51		Williams	2000 DU ₅
2000 DV ₅	15.2	0.15	20000206	136.47002	244.86409	111.79863	24.20000	0.1046848	1.9390639	17	1	31 days	0.33		Williams	2000 DV ₅
2000 DO ₆	14.4	0.15	20000226	7.80811	138.64338	357.37557	9.81648	0.1600613	2.6803563	15	1	5 days	0.44	E	Williams	2000 DO ₆
2000 DP ₆	14.9	0.15	20000226	181.01431	206.06135	122.12928	3.89788	0.1191847	2.1364776	17	1	10 days	0.82		Williams	2000 DP ₆
2000 DQ ₆	13.9	0.15	20000226	28.75301	121.79136	349.50547	14.08538	0.1194520	3.3521546	17	1	12 days	0.67		Williams	2000 DQ ₆
2000 DR ₆	15.3	0.15	20000226	32.90170	355.25068	120.53322	3.65353	0.0578045	2.9137879	26	1	16 days	0.69		Williams	2000 DR ₆
2000 DT ₆	15.7	0.15	20000226	37.79543	121.35980	344.61206	6.09943	0.0904251	2.3857898	12	1	4 days	0.52	E	Williams	2000 DT ₆
2000 DU ₆	14.6	0.15	20000226	96.33896	322.41784	64.95163	5.97648	0.2204750	2.5526512	11	1	5 days	0.72	E	Williams	2000 DU ₆
2000 DY ₆	16.7	0.15	20000226	55.69624	228.84546	223.20910	1.25355	0.1806740	2.4024498	29	1	11 days	0.60		Williams	2000 DY ₆
2000 DZ ₆	16.6	0.15	20000226	51.28438	280.41089	182.62908	0.91055	0.1251703	2.3876101	29	1	11 days	0.73		Williams	2000 DZ ₆
2000 DC ₇	13.1	0.15	20000226	34.11298	345.41175	144.47577	16.31794	0.1219359	2.5551388	14	1	12 days	0.46		Williams	2000 DC ₇
2000 DE ₇	12.9	0.15	20000226	262.25944	208.10754	82.53484	7.31870	0.1721107	2.4648938	6	1	8 days	0.35		Nakano	2000 DE ₇
2000 DF ₇	12.3	0.15	20000226	54.57969	21.36487	93.29198	11.82165	0.0465125	2.9968926	13	1	12 days	0.52		Williams	2000 DF ₇
2000 DG ₇	12.6	0.15	20000206	90.07497	288.77913	135.43580	14.08354	0.1525414	2.6753232	18	1	37 days	0.79		Williams	2000 DG ₇
2000 DJ ₇	15.0	0.15	20000226	17.23244	84.95501	57.03593	8.16856	0.2223797	2.3016133	22	1	65 days	0.56	M-v 5	Williams	2000 DJ ₇
2000 DK ₇	13.3	0.15	20000226	272.12835	163.64967	110.54075	10.93729	0.1133861	2.3892047	13	1	12 days	0.49		Williams	2000 DK ₇
2000 DP ₇	15.6	0.15	20000226	68.73701	268.87249	152.76774	13.56663	0.1598043	2.7914122	26	1	14 days	0.86		Williams	2000 DP ₇

2000 DX ₇	13.6	0.15	20000226	353.98807	4.76338	143.13432	9.71779	0.0571349	3.8930896	21	1	12 days	0.34	Williams	2000 DX ₇
2000 DY ₇	16.7	0.15	20000226	134.54164	210.51684	145.00157	4.13893	0.2069473	2.2264048	9	1	12 days	0.20	Williams	2000 DY ₇
2000 DA ₈	15.4	0.15	20000226	160.83586	7.59159	331.26317	1.35429	0.1145591	2.8112023	13	1	12 days	0.38	Williams	2000 DA ₈
2000 DC ₈	15.2	0.15	20000206	221.74987	144.35933	143.48225	6.58560	0.1305784	2.3495785	41	1	39 days	0.55	Williams	2000 DC ₈
2000 DD ₈	14.2	0.15	20000226	59.44483	265.46496	134.04559	2.84962	0.3874589	3.5178882	23	1	13 days	0.76	Williams	2000 DD ₈
2000 DE ₈	17.1	0.15	20000226	319.88590	61.70280	144.75074	5.78438	0.2067692	2.3334661	19	1	5 days	0.56	E Williams	2000 DE ₈
2000 DF ₈	18.2	0.15	20000226	356.22451	8.10725	155.21003	44.68580	0.3791030	2.5887657	101	1	15 days	0.58	Williams	2000 DF ₈
2000 DG ₈	12.3	0.15	20000226	351.15561	222.08068	279.08438	129.43784	0.7930242	10.8028478	68	1	10 days	0.41	Nakano	2000 DG ₈
2000 DH ₈	18.4	0.15	20000226	348.65543	25.23403	159.26943	37.60276	0.3053513	1.8389681	119	1	17 days	0.54	Nakano	2000 DH ₈
2000 DJ ₈	17.6	0.15	20000226	97.14636	262.94527	139.62297	37.74367	0.2528917	1.4115107	38	1	9 days	0.54	Nakano	2000 DJ ₈
2000 DK ₈	19.3	0.15	20000226	13.73232	340.73560	102.86365	12.67516	0.6890749	2.5385958	64	1	17 days	0.60	Williams	2000 DK ₈
2000 DL ₈	19.2	0.15	20000226	25.52746	353.88576	62.02111	8.77112	0.6093986	2.1941821	56	1	16 days	0.98	Williams	2000 DL ₈
2000 DM ₈	14.9	0.15	20000226	260.48657	317.91737	323.23179	46.81695	0.5545350	1.4840402	148	1	16 days	0.53	Williams	2000 DM ₈
2000 DN ₈	15.5	0.15	20000317	88.14161	269.19797	135.36201	36.91995	0.3987094	1.8743362	60	1	16 days	0.49	Nakano	2000 DN ₈
2000 DO ₈	24.8	0.15	20000226	352.97194	92.23957	98.95766	0.29652	0.6151852	2.4944750	55	1	5 days	0.53	M-v 6 Williams	2000 DO ₈
2000 DP ₈	15.8	0.15	20000226	285.14111	60.82172	182.34906	6.39725	0.0833966	2.3203129	16	1	11 days	0.38	Williams	2000 DP ₈
2000 DQ ₈	16.5	0.15	20000226	359.48796	26.94993	125.63728	2.18610	0.1252255	2.4521312	26	1	15 days	1.11	Williams	2000 DQ ₈
2000 DS ₈	14.1	0.15	20000226	59.74407	307.22286	160.96770	3.46549	0.0885765	3.8567261	14	1	11 days	0.46	Williams	2000 DS ₈
2000 DU ₈	14.9	0.15	20000226	196.20830	144.36398	170.99093	1.70570	0.2031242	2.7137533	9	1	7 days	0.12	Williams	2000 DU ₈
2000 DY ₈	16.5	0.15	20000226	304.37480	285.21015	306.44475	1.43090	0.2500037	2.5712530	18	1	7 days	0.78	Williams	2000 DY ₈
2000 DZ ₈	16.2	0.15	20000206	353.54902	357.95213	154.77830	4.30923	0.2135593	3.0790265	24	1	39 days	0.51	Williams	2000 DZ ₈
2000 DA ₉	14.9	0.15	20000226	139.19131	44.50501	321.72133	5.38279	0.0308235	2.7045229	24	1	14 days	0.60	Williams	2000 DA ₉
2000 DB ₉	18.4	0.15	20000226	38.66358	294.14859	156.31746	4.24530	0.2298404	2.2949305	9	1	7 days	0.30	Williams	2000 DB ₉
2000 DC ₉	15.9	0.15	20000226	279.69167	96.24844	151.39170	7.77525	0.1696687	2.7452323	15	1	14 days	0.35	Williams	2000 DC ₉
2000 DD ₉	14.4	0.15	20000226	241.61707	132.99127	153.31499	4.05752	0.2482937	3.1721785	15	1	15 days	0.38	Williams	2000 DD ₉
2000 DE ₉	15.3	0.15	20000226	235.09083	96.97563	186.69190	0.45597	0.1389301	3.0598677	15	1	15 days	0.28	Williams	2000 DE ₉
2000 DF ₉	16.1	0.15	20000226	318.47538	25.40529	165.60387	1.16264	0.0243782	2.9796369	12	1	15 days	0.24	Williams	2000 DF ₉
2000 DH ₉	15.4	0.15	20000226	90.40388	72.63002	325.82198	11.80096	0.1704532	2.6731678	22	1	15 days	0.43	Williams	2000 DH ₉
2000 DK ₉	13.5	0.15	20000226	87.42564	245.13722	157.36297	3.16025	0.1383152	5.1139844	9	1	12 days	0.32	Williams	2000 DK ₉
2000 DM ₉	14.5	0.15	20000226	188.25026	169.55637	151.19550	2.65917	0.1023350	2.9377731	39	1	15 days	0.52	Williams	2000 DM ₉
2000 DN ₉	17.2	0.15	20000226	73.82183	246.56580	167.57501	1.16952	0.1841512	2.3954741	18	1	15 days	0.28	Williams	2000 DN ₉
2000 DP ₉	16.0	0.15	20000226	88.79688	74.72161	326.02550	10.54178	0.1628455	3.0308678	9	1	13 days	0.34	Williams	2000 DP ₉
2000 DQ ₉	18.2	0.15	20000226	343.59792	15.11174	157.19280	0.25976	0.1455864	2.3438854	15	1	15 days	0.18	Williams	2000 DQ ₉
2000 DR ₉	15.5	0.15	20000226	114.56951	229.57688	154.48754	0.80508	0.1025546	2.6229808	21	1	30 days	0.34	Williams	2000 DR ₉
2000 DS ₉	16.5	0.15	20000226	93.75742	71.29326	332.55540	1.32360	0.0977810	2.8632440	15	1	13 days	0.48	Williams	2000 DS ₉
2000 DU ₉	15.9	0.15	20000226	123.85589	41.01505	329.96271	1.34016	0.1756758	2.2191928	33	1	30 days	0.49	Williams	2000 DU ₉
2000 DV ₉	16.4	0.15	20000206	29.18713	318.76401	150.09958	6.13453	0.0896354	2.2162670	46	1	38 days	0.56	Williams	2000 DV ₉
2000 DW ₉	17.1	0.15	20000226	220.74270	330.36823	330.09587	5.25097	0.1826380	2.1840274	15	1	12 days	0.35	Williams	2000 DW ₉
2000 DX ₉	14.7	0.15	20000226	251.32755	136.51258	143.53220	2.39398	0.2359074	2.8907191	9	1	6 days	0.44	E Williams	2000 DX ₉
2000 DY ₉	16.8	0.15	20000226	349.47343	174.06109	346.74211	0.76713	0.0271636	2.5782964	15	1	15 days	0.21	Williams	2000 DY ₉
2000 DZ ₉	17.5	0.15	20000226	38.12323	312.86130	150.97875	2.39548	0.1083742	2.3617089	15	1	15 days	0.36	Williams	2000 DZ ₉
2000 DA ₁₀	15.1	0.15	20000226	309.78115	233.56497	344.35077	0.69333	0.1796958	3.0194504	31	1	15 days	0.61	Williams	2000 DA ₁₀
2000 DB ₁₀	14.5	0.15	20000206	230.40354	140.96722	146.08506	5.81550	0.1467077	3.0801195	18	1	36 days	0.44	Williams	2000 DB ₁₀
2000 DC ₁₀	15.3	0.15	20000226	101.99141	58.23394	329.78942	8.88810	0.1828814	3.0157314	15	1	15 days	0.60	Williams	2000 DC ₁₀
2000 DE ₁₀	16.9	0.15	20000226	265.45994	107.55044	148.76892	7.87398	0.0999848	2.3579173	12	1	14 days	0.16	Williams	2000 DE ₁₀
2000 DF ₁₀	16.1	0.15	20000206	350.48285	10.18739	144.89389	3.23900	0.0508046	2.2218802	34	1	36 days	0.51	Williams	2000 DF ₁₀
2000 DG ₁₀	16.2	0.15	20000226	238.94696	133.16972	142.41024	2.65456	0.0497630	2.9340089	9	1	7 days	0.12	Williams	2000 DG ₁₀
2000 DH ₁₀	16.8	0.15	20000226	107.76405	232.51679	148.05125	8.71714	0.2267994	2.2486790	9	1	6 days	0.20	E Williams	2000 DH ₁₀
2000 DK ₁₀	15.2	0.15	20000206	47.48173	106.44383	324.76543	16.18785	0.2325832	3.0944506	19	1	29 days	0.49	Marsden	2000 DK ₁₀
2000 DL ₁₀	15.6	0.15	20000226	291.53015	73.16177	157.50340	3.05574	0.1346353	2.7517092	14	1	6 days	0.59	E Williams	2000 DL ₁₀
2000 DM ₁₀	16.9	0.15	20000226	265.98009	311.46426	296.98527	0.96184	0.0653697	2.7559228	9	1	7 days	0.32	E Williams	2000 DM ₁₀
2000 DN ₁₀	15.4	0.15	20000226	59.88919	102.11363	325.56115	12.52219	0.1810526	2.7997570	21	1	8 days	0.69	Williams	2000 DN ₁₀
2000 DP ₁₀	15.7	0.15	20000226	214.59248	338.00363	321.86391	2.91194	0.1202336	2.6316710	9	1	7 days	0.14	E Williams	2000 DP ₁₀

2000 MAR. 20

M.P.C. 39605

2000 DQ ₁₀	18.4	0.15	20000226	325.11721	231.43830	327.51622	4.20454	0.1847068	2.4548539	12	1	12 days	0.68		Williams	2000 DQ ₁₀
2000 DS ₁₀	16.3	0.15	20000226	42.11763	279.30316	161.42322	0.54632	0.2608922	3.1265161	20	1	7 days	0.40	E	Williams	2000 DS ₁₀
2000 DU ₁₀	17.2	0.15	20000226	314.05723	253.47463	328.32321	4.16220	0.2601915	2.6216445	18	1	15 days	0.23		Williams	2000 DU ₁₀
2000 DW ₁₀	17.8	0.15	20000226	31.67674	135.29408	332.65095	4.35789	0.1443026	2.4445971	12	1	15 days	0.24		Williams	2000 DW ₁₀
2000 DX ₁₀	17.0	0.15	20000226	340.45835	54.50304	128.55448	0.75086	0.2613767	3.2011231	9	1	6 days	0.30	E	Williams	2000 DX ₁₀
2000 DA ₁₁	15.9	0.15	20000226	359.36816	172.26967	338.50459	2.75115	0.0997217	2.6492958	33	1	15 days	0.55		Williams	2000 DA ₁₁
2000 DB ₁₁	16.0	0.15	20000226	145.52944	26.73523	335.22420	5.14883	0.0292685	2.7838573	18	1	15 days	0.27		Williams	2000 DB ₁₁
2000 DC ₁₁	15.7	0.15	20000226	305.22704	143.81767	65.61745	0.45247	0.0532975	3.0028734	12	1	15 days	0.22		Williams	2000 DC ₁₁
2000 DE ₁₁	16.1	0.15	20000226	91.39138	271.16948	138.89876	2.96851	0.0789022	2.5926055	21	1	14 days	0.60		Williams	2000 DE ₁₁
2000 DG ₁₁	16.2	0.15	20000206	53.78228	100.38256	330.95417	12.67675	0.1793191	2.6224447	31	1	32 days	0.62		Williams	2000 DG ₁₁
2000 DH ₁₁	16.3	0.15	20000226	338.09670	202.40108	335.26175	3.83599	0.1310539	2.8085792	16	1	7 days	0.53		Williams	2000 DH ₁₁
2000 DJ ₁₁	15.3	0.15	20000206	41.02710	307.22919	177.94045	5.52146	0.0871413	3.1261478	22	1	34 days	0.53		Williams	2000 DJ ₁₁
2000 DK ₁₁	15.5	0.15	20000226	322.35559	56.17925	172.40616	1.30568	0.1729827	3.1065106	19	1	13 days	0.45		Williams	2000 DK ₁₁
2000 DM ₁₁	17.3	0.15	20000226	284.70025	93.09329	171.71047	3.31886	0.1307610	2.3417834	9	1	5 days	0.21	E	Williams	2000 DM ₁₁
2000 DQ ₁₁	15.9	0.15	20000226	298.93096	89.92104	171.39028	3.56469	0.2180327	2.6798223	14	1	12 days	0.43		Williams	2000 DQ ₁₁
2000 DR ₁₁	16.4	0.15	20000206	359.45041	356.44065	173.35761	4.43980	0.1147337	2.6121330	22	1	34 days	0.49		Williams	2000 DR ₁₁
2000 DS ₁₁	16.1	0.15	20000226	205.23320	162.11031	176.36576	9.34513	0.1498218	2.4914554	9	1	5 days	0.24	E	Williams	2000 DS ₁₁
2000 DV ₁₁	16.0	0.15	20000226	71.35188	279.26298	174.47075	6.08280	0.0940759	2.4398537	24	1	14 days	0.48		Williams	2000 DV ₁₁
2000 DW ₁₁	17.5	0.15	20000226	62.99799	283.31570	171.94617	5.93816	0.1482656	2.3083888	9	1	5 days	0.23	E	Williams	2000 DW ₁₁
2000 DX ₁₁	14.6	0.15	20000226	110.15591	249.91123	176.58755	13.52546	0.0135955	2.9487068	16	1	13 days	0.27		Williams	2000 DX ₁₁
2000 DY ₁₁	16.9	0.15	20000226	348.02355	178.05020	9.39353	1.40260	0.0473652	2.2588735	17	1	13 days	0.43		Williams	2000 DY ₁₁
2000 DA ₁₂	14.3	0.15	20000226	207.90818	167.29152	174.33794	5.53972	0.2131119	3.1548042	14	1	12 days	0.49		Williams	2000 DA ₁₂
2000 DB ₁₂	16.0	0.15	20000226	203.09887	340.67212	0.82141	12.65283	0.1713624	2.5594624	9	1	5 days	0.10	E	Williams	2000 DB ₁₂
2000 DE ₁₂	14.9	0.15	20000226	149.35902	218.89985	162.34366	2.24522	0.2012844	3.0348119	9	1	5 days	0.11	E	Williams	2000 DE ₁₂
2000 DG ₁₂	15.5	0.15	20000226	54.80702	292.06994	170.67944	5.57758	0.1792797	2.6668517	22	1	13 days	0.75		Williams	2000 DG ₁₂
2000 DJ ₁₂	15.6	0.15	20000226	119.78747	231.32183	172.73501	6.01759	0.1545033	2.4703476	9	1	5 days	0.10	E	Williams	2000 DJ ₁₂
2000 DK ₁₂	15.5	0.15	20000226	215.56251	170.11832	164.85753	3.16339	0.2274651	2.3576654	9	1	12 days	0.48		Williams	2000 DK ₁₂
2000 DM ₁₂	16.2	0.15	20000226	221.63452	162.66118	170.16330	5.06144	0.2678437	2.2956762	9	1	5 days	0.37	E	Williams	2000 DM ₁₂
2000 DN ₁₂	17.1	0.15	20000226	263.06648	254.90170	42.84297	1.11391	0.2259554	2.2543774	9	1	5 days	0.13	E	Williams	2000 DN ₁₂
2000 DO ₁₂	16.0	0.15	20000226	267.47616	264.12979	26.62485	1.89279	0.1733816	2.8251778	9	1	5 days	0.20	E	Williams	2000 DO ₁₂
2000 DP ₁₂	15.5	0.15	20000226	263.70774	173.05720	132.30899	1.21770	0.2804140	2.8184958	9	1	5 days	0.19	E	Williams	2000 DP ₁₂
2000 DR ₁₂	15.3	0.15	20000226	316.97092	63.78091	161.57333	3.06708	0.0388306	3.0338376	17	1	13 days	0.40		Williams	2000 DR ₁₂
2000 DS ₁₂	16.2	0.15	20000226	61.33389	293.01528	160.32755	2.90517	0.2144874	2.9631728	9	1	5 days	0.18	E	Williams	2000 DS ₁₂
2000 DU ₁₂	16.3	0.15	20000226	45.50187	89.50367	19.78508	2.93589	0.2393876	3.1965141	9	1	5 days	0.14	E	Williams	2000 DU ₁₂
2000 DV ₁₂	15.8	0.15	20000226	241.37252	140.65894	169.97010	6.26830	0.1493967	2.4110829	12	1	12 days	0.23		Williams	2000 DV ₁₂
2000 DW ₁₂	17.0	0.15	20000226	9.26912	4.33772	160.04495	2.98010	0.0944926	2.3736361	9	1	5 days	0.15	E	Williams	2000 DW ₁₂
2000 DX ₁₂	16.2	0.15	20000226	223.73365	313.34985	11.96804	4.96496	0.1405764	2.5551305	9	1	5 days	0.25	E	Williams	2000 DX ₁₂
2000 DY ₁₂	16.5	0.15	20000226	342.77374	32.15460	164.71253	4.77256	0.0678066	2.5496316	13	1	12 days	0.30		Williams	2000 DY ₁₂
2000 DZ ₁₂	14.7	0.15	20000226	198.01446	226.06356	123.20087	1.45025	0.2662638	2.3699052	14	1	12 days	0.39		Williams	2000 DZ ₁₂
2000 DA ₁₃	16.3	0.15	20000226	155.72199	199.03534	177.86243	25.42486	0.1906665	2.4022305	9	1	5 days	0.43	E	Williams	2000 DA ₁₃
2000 DB ₁₃	16.1	0.15	20000226	118.92162	251.57435	154.04487	2.92462	0.1635294	2.4677194	9	1	5 days	0.13	E	Williams	2000 DB ₁₃
2000 DC ₁₃	15.8	0.15	20000226	127.31438	18.58000	16.84823	4.85915	0.2303872	2.5578932	9	1	5 days	0.13	E	Williams	2000 DC ₁₃
2000 DD ₁₃	14.8	0.15	20000226	237.12579	217.40913	101.24106	1.47689	0.1932756	2.3681257	26	1	13 days	0.57		Williams	2000 DD ₁₃
2000 DE ₁₃	15.8	0.15	20000226	75.11269	280.28503	162.26999	5.54517	0.1792821	2.3903839	21	1	13 days	0.50		Williams	2000 DE ₁₃
2000 DF ₁₃	13.7	0.15	20000226	197.86538	158.25339	166.31498	8.52725	0.1882402	2.7143374	26	1	12 days	0.49		Williams	2000 DF ₁₃
2000 DG ₁₃	15.6	0.15	20000226	201.38988	135.86329	187.95034	2.26907	0.2421002	2.3818349	15	1	4 days	0.61	E	Williams	2000 DG ₁₃
2000 DH ₁₃	15.9	0.15	20000226	87.75315	233.07894	166.86854	6.56515	0.2669239	2.4626965	15	1	4 days	0.97	E	Williams	2000 DH ₁₃
2000 DJ ₁₃	14.8	0.15	20000226	201.11153	352.27972	329.80770	6.99604	0.1685215	2.3105798	29	1	12 days	0.49		Williams	2000 DJ ₁₃
2000 DK ₁₃	16.7	0.15	20000226	83.10523	254.64405	169.72093	4.45364	0.0859394	2.3111372	15	1	4 days	0.68	E	Williams	2000 DK ₁₃
2000 DN ₁₃	16.2	0.15	20000206	24.64354	295.16334	181.30495	2.02812	0.1564673	2.3559995	31	1	38 days	0.50		Williams	2000 DN ₁₃
2000 DO ₁₃	17.2	0.15	20000226	294.38389	27.82085	208.53490	1.10556	0.1200186	2.4193720	18	1	5 days	0.64	E	Williams	2000 DO ₁₃
2000 DP ₁₃	15.5	0.15	20000226	128.57252	43.83649	333.46900	10.50948	0.1502466	2.5766484	18	1	5 days	0.59	E	Williams	2000 DP ₁₃
2000 DU ₁₃	16.9	0.15	20000226	294.87135	78.14917	163.36726	8.56337	0.1618125	2.7512819	13	1	5 days	0.52	E	Williams	2000 DU ₁₃

2000 DV ₁₃	16.4	0.15	20000226	59.43172	268.17417	172.89944	2.43916	0.1645842	2.3849437	28	1	12 days	0.60		Williams	2000 DV ₁₃
2000 DW ₁₃	18.2	0.15	20000226	38.93196	305.96380	168.30927	2.62506	0.0652610	2.1518086	11	1	4 days	0.31	E	Williams	2000 DW ₁₃
2000 DX ₁₃	17.5	0.15	20000226	330.77487	34.01180	162.74630	6.44542	0.1397861	2.6646149	10	1	4 days	0.46	E	Williams	2000 DX ₁₃
2000 DY ₁₃	16.4	0.15	20000226	259.86396	92.42119	170.03706	2.79383	0.0328023	2.7478505	18	1	5 days	0.51	E	Williams	2000 DY ₁₃
2000 DZ ₁₃	17.3	0.15	20000226	23.19380	303.51764	173.83627	1.59361	0.2759493	2.7079975	19	1	5 days	0.47	E	Williams	2000 DZ ₁₃
2000 DA ₁₄	18.2	0.15	20000226	296.48923	285.30381	309.43587	0.69719	0.1152622	2.1616227	13	1	5 days	0.42	E	Williams	2000 DA ₁₄
2000 DB ₁₄	15.2	0.15	20000226	206.29316	344.19440	336.05881	5.04653	0.1736411	2.3576656	30	1	16 days	0.39		Williams	2000 DB ₁₄
2000 DC ₁₄	17.0	0.15	20000226	218.15811	335.77691	337.99476	8.45980	0.2204956	2.3198189	9	1	5 days	0.28	E	Williams	2000 DC ₁₄
2000 DD ₁₄	16.3	0.15	20000226	69.72923	90.28399	335.39141	2.23544	0.2083935	2.4960397	18	1	5 days	0.56	E	Williams	2000 DD ₁₄
2000 DE ₁₄	15.8	0.15	20000226	263.08197	99.24535	162.65797	4.47610	0.0457521	3.2245841	9	1	5 days	0.13	E	Williams	2000 DE ₁₄
2000 DF ₁₄	18.4	0.15	20000226	9.16615	344.70894	160.47843	6.00399	0.1908886	2.2870910	11	1	4 days	0.51	E	Williams	2000 DF ₁₄
2000 DG ₁₄	17.2	0.15	20000226	354.97800	5.65458	160.24483	5.13492	0.1357581	2.4944465	15	1	4 days	0.52	E	Williams	2000 DG ₁₄
2000 DJ ₁₄	16.9	0.15	20000226	347.87712	42.94346	134.72615	0.59602	0.1771360	3.0163922	14	1	5 days	0.57	E	Williams	2000 DJ ₁₄
2000 DK ₁₄	15.6	0.15	20000226	313.55825	207.85142	16.46195	0.41070	0.1803766	3.1390166	33	1	12 days	0.68		Williams	2000 DK ₁₄
2000 DL ₁₄	18.9	0.15	20000226	4.12210	18.16465	133.74250	0.75334	0.2849898	2.7784740	13	1	4 days	0.56	E	Williams	2000 DL ₁₄
2000 DN ₁₄	15.8	0.15	20000206	234.40174	162.17369	124.29181	5.99603	0.0902581	2.2774771	28	1	37 days	0.58		Williams	2000 DN ₁₄
2000 DO ₁₄	16.7	0.15	20000206	313.92763	96.69395	123.05469	5.74145	0.2303928	2.2723112	37	1	37 days	0.45		Williams	2000 DO ₁₄
2000 DP ₁₄	16.3	0.15	20000226	321.46894	206.52792	359.93336	12.05351	0.1373650	2.6338012	27	1	16 days	0.61		Williams	2000 DP ₁₄
2000 DR ₁₄	16.0	0.15	20000206	34.88726	3.94831	99.11114	4.68808	0.1654967	2.3693137	36	1	37 days	0.47		Williams	2000 DR ₁₄
2000 DS ₁₄	15.3	0.15	20000206	339.97516	79.94547	101.04520	3.49176	0.1195854	2.8060220	33	1	37 days	0.47		Williams	2000 DS ₁₄
2000 DT ₁₄	15.3	0.15	20000226	86.43079	334.78241	87.22576	2.81672	0.1080006	2.1761412	37	1	64 days	0.52	M-v 5	Williams	2000 DT ₁₄
2000 DU ₁₄	15.6	0.15	20000206	45.27694	320.74309	135.58757	7.38530	0.1492448	2.5403336	32	1	37 days	0.41		Williams	2000 DU ₁₄
2000 DX ₁₄	15.0	0.15	20000206	141.92656	247.16834	125.15833	7.07406	0.1367593	2.2887169	26	1	40 days	0.77		Williams	2000 DX ₁₄
2000 DA ₁₅	16.1	0.15	20000226	14.94575	358.02971	147.94622	3.77738	0.1416233	2.3445047	12	1	14 days	0.57		Williams	2000 DA ₁₅
2000 DJ ₁₅	14.4	0.15	20000226	286.13391	98.59132	153.36997	10.44633	0.0851964	3.0721808	22	1	30 days	0.64		Williams	2000 DJ ₁₅
2000 DL ₁₅	14.7	0.15	20000226	32.17079	53.18141	76.91192	2.55400	0.0853288	2.9974612	13	1	15 days	0.49		Williams	2000 DL ₁₅
2000 DM ₁₅	14.7	0.15	20000226	292.95006	205.51598	30.57572	4.74354	0.0083437	2.7900808	17	1	15 days	0.40		Williams	2000 DM ₁₅
2000 DN ₁₅	16.1	0.15	20000226	335.14711	56.66033	138.10434	7.13503	0.0655595	2.3248476	24	1	30 days	0.65		Williams	2000 DN ₁₅
2000 DT ₁₅	14.1	0.15	20000226	262.77743	139.07916	138.76890	11.46305	0.0866225	3.0501022	22	1	32 days	0.53		Williams	2000 DT ₁₅
2000 DU ₁₅	16.1	0.15	20000226	26.95543	324.93315	163.60448	5.60013	0.1818781	2.6457844	26	1	13 days	0.39		Williams	2000 DU ₁₅
2000 DV ₁₅	13.1	0.15	20000226	203.45960	307.80790	25.31749	2.37780	0.1249128	2.9132143	24	1	13 days	0.69		Williams	2000 DV ₁₅
2000 DB ₁₆	14.2	0.15	20000226	39.42347	127.14918	357.07008	15.13444	0.1137140	2.7861694	36	1	32 days	0.59		Williams	2000 DB ₁₆
2000 DD ₁₆	14.7	0.15	20000226	279.66786	216.82589	52.36721	4.63458	0.1140424	2.2498013	19	1	13 days	0.34		Williams	2000 DD ₁₆
2000 DE ₁₆	14.7	0.15	20000226	248.88912	139.27016	174.94824	9.90950	0.2310682	2.3365112	35	1	15 days	0.70		Williams	2000 DE ₁₆
2000 DF ₁₆	16.3	0.15	20000226	346.61783	156.84138	34.81110	7.64839	0.1181802	2.3312829	14	1	13 days	0.71		Williams	2000 DF ₁₆
2000 DJ ₁₆	13.2	0.15	20000226	96.97706	70.85109	9.36376	16.59712	0.1053674	3.1420514	25	1	10 days	0.59		Williams	2000 DJ ₁₆
2000 DL ₁₆	13.4	0.15	20000226	84.41044	68.40707	10.66432	12.87210	0.1927751	2.7917223	19	1	10 days	0.58		Williams	2000 DL ₁₆
2000 DM ₁₆	14.5	0.15	20000226	332.20458	209.82638	9.76528	13.09673	0.1067819	3.0859789	16	1	10 days	0.44		Williams	2000 DM ₁₆
2000 DN ₁₆	15.8	0.15	20000226	335.89811	48.66412	163.62787	2.93378	0.1317306	2.4100637	15	1	16 days	0.69		Williams	2000 DN ₁₆
2000 DP ₁₆	15.6	0.15	20000226	61.50010	290.03652	156.65985	22.70965	0.0745630	2.6157870	14	1	11 days	0.57		Williams	2000 DP ₁₆
2000 DQ ₁₆	15.0	0.15	20000226	57.35149	116.25193	333.16698	22.66106	0.0883948	2.5890227	19	1	11 days	0.30		Williams	2000 DQ ₁₆
2000 DW ₁₆	16.9	0.15	20000226	46.47041	128.44078	338.31583	19.26670	0.0542854	2.3415755	12	1	4 days	0.44	E	Williams	2000 DW ₁₆
2000 DD ₁₇	15.8	0.15	20000226	237.15428	348.00859	309.00441	3.13162	0.1605223	2.1438067	18	1	11 days	0.45		Williams	2000 DD ₁₇
2000 DF ₁₇	16.5	0.15	20000226	342.84228	26.39861	162.26803	24.84029	0.2541620	2.2985169	32	1	12 days	0.47		Williams	2000 DF ₁₇
2000 DG ₁₇	15.4	0.15	20000226	183.85305	357.84547	338.36609	9.29285	0.0191550	2.2277479	13	1	11 days	0.46		Williams	2000 DG ₁₇
2000 DJ ₁₇	15.3	0.15	20000206	271.45018	264.15371	343.16080	18.76404	0.0570763	1.9557365	33	1	36 days	0.39		Williams	2000 DJ ₁₇
2000 DL ₁₇	16.2	0.15	20000226	282.08677	60.43290	196.40742	3.08603	0.1604029	2.1039691	14	1	11 days	0.48		Williams	2000 DL ₁₇
2000 DO ₁₇	14.0	0.15	20000226	66.26830	282.97356	164.63998	20.92316	0.0826528	2.5192084	14	1	11 days	0.34		Williams	2000 DO ₁₇
2000 DP ₁₇	16.0	0.15	20000226	40.29993	107.98802	342.24120	27.15822	0.2962770	2.8254387	26	1	11 days	0.56		Williams	2000 DP ₁₇
2000 DQ ₁₇	17.1	0.15	20000226	5.98732	167.32432	344.69374	22.63049	0.2133093	2.2234360	15	1	11 days	0.50		Williams	2000 DQ ₁₇
2000 DT ₁₇	15.8	0.15	20000226	5.88742	171.65683	347.53799	17.36461	0.1911800	2.7412958	14	1	11 days	0.43		Williams	2000 DT ₁₇
2000 DU ₁₇	15.1	0.15	20000226	217.15728	13.00040	283.05100	1.02756	0.1199259	3.1675274	9	1	7 days	0.19		Williams	2000 DU ₁₇
2000 DW ₁₇	14.1	0.15	20000226	68.28433	156.95761	278.59532	9.41074	0.0846960	3.0390743	20	1	14 days	1.16		Williams	2000 DW ₁₇

2000 MAR. 20

M.P.C. 39607

2000 DA ₁₈	15.4	0.15	20000226	352.21686	67.73233	88.17866	1.01093	0.1568775	3.1856719	20	1	19 days	0.43	Williams	2000 DA ₁₈
2000 DB ₁₈	14.5	0.15	20000206	324.93492	209.33054	334.40859	15.59432	0.0858474	3.0539304	40	1	37 days	0.49	Williams	2000 DB ₁₈
2000 DC ₁₈	13.7	0.15	20000226	254.81903	240.22611	23.37526	2.51827	0.0988610	3.0188489	12	1	10 days	0.82	Williams	2000 DC ₁₈
2000 DD ₁₈	15.0	0.15	20000206	76.10475	79.40070	338.68900	12.33077	0.0955999	2.7255515	44	1	37 days	0.71	Williams	2000 DD ₁₈
2000 DF ₁₈	15.3	0.15	20000206	44.80001	301.71877	146.10987	13.69305	0.1390284	2.6056345	40	1	38 days	0.44	Williams	2000 DF ₁₈
2000 DG ₁₈	16.3	0.15	20000226	78.27819	44.82606	12.42432	1.93311	0.1320370	2.5142903	21	1	15 days	0.67	Williams	2000 DG ₁₈
2000 DH ₁₈	15.7	0.15	20000226	217.57403	281.95969	16.90693	2.14452	0.0968579	2.5292159	16	1	9 days	0.64	Williams	2000 DH ₁₈
2000 DK ₁₈	16.3	0.15	20000226	302.81620	210.61887	18.22749	2.25571	0.1725084	2.4114426	20	1	29 days	0.36	Williams	2000 DK ₁₈
2000 DL ₁₈	15.3	0.15	20000226	268.72138	131.39242	121.69955	2.94203	0.0769011	2.4358341	14	1	6 days	0.45	E Williams	2000 DL ₁₈
2000 DM ₁₈	16.1	0.15	20000226	323.16059	217.40836	346.46988	6.93469	0.1684692	2.5454867	35	1	29 days	0.41	Williams	2000 DM ₁₈
2000 DN ₁₈	14.9	0.15	20000226	118.58692	248.72595	130.22617	3.70701	0.1745542	2.3623855	17	1	6 days	0.48	E Williams	2000 DN ₁₈
2000 DR ₁₈	14.4	0.15	20000226	156.24727	87.45963	254.42477	2.23863	0.1372285	2.5744058	14	1	5 days	0.55	E Williams	2000 DR ₁₈
2000 DU ₁₈	16.1	0.15	20000226	1.27965	217.16968	287.84470	2.54196	0.1562334	2.4115158	11	1	5 days	0.58	E Williams	2000 DU ₁₈
2000 DV ₁₈	15.3	0.15	20000226	209.01490	339.83214	321.78133	12.00292	0.1625701	2.5472638	19	1	15 days	0.58	Williams	2000 DV ₁₈
2000 DZ ₁₈	15.4	0.15	20000226	275.61708	276.51609	323.59305	9.67671	0.1016119	2.5918665	14	1	10 days	0.58	Williams	2000 DZ ₁₈
2000 DA ₁₉	14.9	0.15	20000226	18.84618	145.32103	333.44034	7.45449	0.1509055	2.7243521	22	1	6 days	0.64	E Williams	2000 DA ₁₉
2000 DB ₁₉	15.3	0.15	20000226	41.62010	323.83012	128.95778	3.57704	0.1262612	2.4004868	20	1	5 days	0.53	E Williams	2000 DB ₁₉
2000 DE ₁₉	15.3	0.15	20000226	326.39776	244.75732	311.69987	3.68788	0.2225475	2.8767172	16	1	4 days	0.61	E Williams	2000 DE ₁₉
2000 DH ₁₉	13.0	0.15	20000226	178.86320	154.47680	168.99177	0.73789	0.1185334	3.1599127	18	1	7 days	0.53	Williams	2000 DH ₁₉
2000 DJ ₁₉	14.2	0.15	20000226	113.54113	188.92201	176.97134	0.99717	0.2578887	3.1480572	18	1	14 days	0.42	Williams	2000 DJ ₁₉
2000 DK ₁₉	14.7	0.15	20000226	227.62218	321.75729	323.36810	14.30571	0.1126895	2.7107678	23	1	11 days	0.38	Williams	2000 DK ₁₉
2000 DL ₁₉	15.2	0.15	20000226	236.66800	131.14664	148.61338	8.21451	0.1222964	2.2603048	35	1	28 days	0.55	Williams	2000 DL ₁₉
2000 DM ₁₉	14.7	0.15	20000206	111.13715	66.78091	314.30928	1.05158	0.0817840	2.8380745	48	1	39 days	0.59	Williams	2000 DM ₁₉
2000 DN ₁₉	15.4	0.15	20000226	325.29332	221.17932	325.56642	13.93419	0.0850098	2.5781597	23	1	8 days	0.62	Williams	2000 DN ₁₉
2000 DO ₁₉	15.5	0.15	20000226	213.92451	324.85062	331.66004	8.82168	0.1176528	2.5647148	22	1	11 days	0.56	Williams	2000 DO ₁₉
2000 DP ₁₉	15.4	0.15	20000226	327.41709	219.28081	334.22583	6.48625	0.2048198	2.9015961	12	1	5 days	0.70	E Williams	2000 DP ₁₉
2000 DT ₁₉	16.5	0.15	20000226	309.84638	230.28372	342.81929	4.67323	0.1684976	2.3805330	27	1	11 days	0.60	Williams	2000 DT ₁₉
2000 DU ₁₉	14.6	0.15	20000226	75.59350	350.59520	58.03863	1.15327	0.1815306	2.5662258	15	1	5 days	0.44	E Williams	2000 DU ₁₉
2000 DW ₁₉	15.0	0.15	20000226	340.23341	31.07528	141.29827	3.40442	0.1410621	2.6634251	39	1	29 days	0.55	Williams	2000 DW ₁₉
2000 DX ₁₉	16.4	0.15	20000226	32.40646	327.22654	135.57585	1.10604	0.1587475	2.4226627	17	1	11 days	0.38	Williams	2000 DX ₁₉
2000 DY ₁₉	16.1	0.15	20000226	289.35114	243.95424	352.73039	1.87450	0.1774281	2.4523903	24	1	11 days	0.44	Williams	2000 DY ₁₉
2000 DZ ₁₉	14.1	0.15	20000226	145.67168	210.28294	143.11127	11.61214	0.0845465	3.0051263	23	1	13 days	0.48	Williams	2000 DZ ₁₉
2000 DB ₂₀	16.5	0.15	20000226	24.06332	306.65409	169.49597	2.85428	0.1295224	2.3363160	19	1	7 days	0.51	Williams	2000 DB ₂₀
2000 DK ₂₀	14.4	0.15	20000226	78.72524	154.23052	269.06224	2.77341	0.0210339	3.0364239	12	1	5 days	0.86	E Williams	2000 DK ₂₀
2000 DP ₂₀	15.9	0.15	20000226	47.75688	156.15350	300.03306	4.02232	0.0422771	2.2169175	14	1	5 days	0.46	E Williams	2000 DP ₂₀
2000 DQ ₂₀	13.7	0.15	20000226	203.41417	349.20965	316.91431	17.14091	0.1136221	3.2129647	19	1	7 days	0.43	Williams	2000 DQ ₂₀
2000 DR ₂₀	15.1	0.15	20000226	292.11934	69.43880	156.39767	12.69989	0.1077105	2.7490367	12	1	5 days	0.76	E Williams	2000 DR ₂₀
2000 DV ₂₀	15.6	0.15	20000226	53.47489	264.15876	166.83118	3.70255	0.2115234	2.5799928	13	1	9 days	0.76	Williams	2000 DV ₂₀
2000 DX ₂₀	15.5	0.15	20000226	310.62939	261.30843	324.86448	10.55785	0.2842866	2.7870655	11	1	4 days	0.49	E Williams	2000 DX ₂₀
2000 DY ₂₀	15.0	0.15	20000226	59.18582	284.45234	145.64942	10.11086	0.1531506	2.7461125	23	1	13 days	0.53	Williams	2000 DY ₂₀
2000 DA ₂₁	16.0	0.15	20000226	46.30712	124.65351	326.36874	3.59855	0.1108439	2.3441680	17	1	9 days	0.52	Williams	2000 DA ₂₁
2000 DC ₂₁	15.0	0.15	20000206	46.79356	98.97178	333.83847	6.99327	0.2142808	2.8011187	30	1	37 days	0.64	Williams	2000 DC ₂₁
2000 DH ₂₁	13.6	0.15	20000226	140.19283	202.54269	154.24111	3.67064	0.1250721	3.1721497	26	1	12 days	0.31	Williams	2000 DH ₂₁
2000 DJ ₂₁	16.3	0.15	20000206	36.63668	292.50539	155.93038	2.37703	0.1937694	2.3688071	26	1	36 days	0.54	Williams	2000 DJ ₂₁
2000 DK ₂₁	14.4	0.15	20000206	269.69835	286.50024	327.95121	13.10881	0.2000046	3.1898243	24	1	40 days	0.65	Williams	2000 DK ₂₁
2000 DN ₂₁	16.3	0.15	20000226	73.01669	102.55127	317.91742	5.96923	0.1275090	2.4381600	19	1	7 days	0.40	Williams	2000 DN ₂₁
2000 DP ₂₁	13.3	0.15	20000226	81.83294	74.22881	320.38473	9.54008	0.2648460	3.2612263	14	1	5 days	0.41	E Williams	2000 DP ₂₁
2000 DQ ₂₁	14.9	0.15	20000226	282.66257	92.85719	157.23463	11.11117	0.2276832	2.8725572	19	1	7 days	0.59	Williams	2000 DQ ₂₁
2000 DU ₂₁	15.8	0.15	20000206	336.51048	22.24679	156.92894	15.69600	0.2118950	3.1672221	27	1	34 days	0.65	Williams	2000 DU ₂₁
2000 DW ₂₁	15.4	0.15	20000226	334.40543	224.11761	316.32868	7.53924	0.1111910	2.6438990	13	1	5 days	0.70	E Williams	2000 DW ₂₁
2000 DX ₂₁	17.0	0.15	20000226	317.67358	338.51979	241.81214	1.17660	0.2893086	2.6335349	17	1	7 days	0.51	Williams	2000 DX ₂₁
2000 DC ₂₂	14.6	0.15	20000206	174.24777	174.00932	148.88188	8.86542	0.2624251	2.7434038	28	1	41 days	0.62	Williams	2000 DC ₂₂
2000 DD ₂₂	17.6	0.15	20000226	345.83941	195.84156	328.77109	7.40615	0.1340289	2.3994872	13	1	14 days	0.52	Williams	2000 DD ₂₂

2000 DN ₂₂	14.5	0.15	20000226	116.32444	136.75080	244.23007	2.59603	0.1174197	2.5107351	14	1	4 days	0.53	E	Williams	2000 DN ₂₂
2000 DQ ₂₂	15.3	0.15	20000226	256.61264	118.80302	144.57823	5.49162	0.1376522	2.4112931	12	1	9 days	0.74		Williams	2000 DQ ₂₂
2000 DR ₂₂	15.6	0.15	20000226	95.99980	228.26261	149.73940	13.27171	0.2884451	2.6700593	9	1	9 days	0.60		Williams	2000 DR ₂₂
2000 DU ₂₂	13.7	0.15	20000226	259.43635	269.70382	350.75219	1.32067	0.1324648	3.1470107	11	1	5 days	0.62	E	Williams	2000 DU ₂₂
2000 DV ₂₂	15.8	0.15	20000206	62.97688	91.42635	336.30000	2.87903	0.1061263	2.6400824	10	1	27 days	0.44		Marsden	2000 DV ₂₂
2000 DY ₂₂	15.1	0.15	20000226	163.39330	2.55665	334.94854	7.51078	0.2221461	2.3396627	31	1	13 days	0.53		Williams	2000 DY ₂₂
2000 DD ₂₃	15.6	0.15	20000206	267.76655	276.08710	334.09935	14.13665	0.1347757	2.5350300	37	1	37 days	0.57		Williams	2000 DD ₂₃
2000 DF ₂₃	15.5	0.15	20000226	94.25722	76.71219	326.08782	5.83930	0.0923258	2.4331704	18	1	7 days	0.42		Williams	2000 DF ₂₃
2000 DH ₂₃	14.5	0.15	20000226	211.79227	153.93826	149.02628	13.33069	0.1605169	2.6239712	20	1	8 days	0.57		Williams	2000 DH ₂₃
2000 DJ ₂₃	14.6	0.15	20000226	302.48739	265.14909	321.28884	0.88217	0.1993907	2.9219847	24	1	7 days	0.52		Williams	2000 DJ ₂₃
2000 DK ₂₃	14.9	0.15	20000226	299.26692	79.40764	147.30458	2.04727	0.1704420	2.8456045	19	1	7 days	0.52		Williams	2000 DK ₂₃
2000 DQ ₂₃	16.6	0.15	20000226	95.22449	64.50248	338.27577	3.44938	0.0909156	2.2711391	26	1	16 days	0.52		Williams	2000 DQ ₂₃
2000 DS ₂₃	15.2	0.15	20000226	155.92901	202.63485	141.29746	6.63690	0.1986891	2.3430356	29	1	13 days	0.59		Williams	2000 DS ₂₃
2000 DT ₂₃	17.5	0.15	20000226	337.42107	57.14350	133.02539	1.23910	0.2781224	2.4395610	14	1	6 days	0.60	E	Williams	2000 DT ₂₃
2000 DU ₂₃	14.2	0.15	20000226	134.95654	222.83149	146.17931	13.37888	0.0451271	2.9899881	27	1	13 days	0.52		Williams	2000 DU ₂₃
2000 DW ₂₃	15.5	0.15	20000226	72.78530	86.93422	320.72851	5.64454	0.2441912	2.3726072	14	1	5 days	0.41	E	Williams	2000 DW ₂₃
2000 DX ₂₃	14.9	0.15	20000226	209.07741	112.95965	191.05593	1.46006	0.1177149	2.6842584	24	1	13 days	0.61		Williams	2000 DX ₂₃
2000 DY ₂₃	14.8	0.15	20000226	84.57987	268.04922	151.52104	9.87320	0.0288959	2.9914021	20	1	12 days	0.49		Williams	2000 DY ₂₃
2000 DZ ₂₃	14.7	0.15	20000226	287.10912	287.74975	309.73339	2.12716	0.1472115	2.9797466	27	1	28 days	0.85		Williams	2000 DZ ₂₃
2000 DB ₂₄	16.7	0.15	20000226	346.42915	0.90122	168.86102	2.14036	0.1898181	2.7071445	38	1	28 days	0.88		Williams	2000 DB ₂₄
2000 DC ₂₄	14.6	0.15	20000226	59.80342	110.72606	334.57950	1.72807	0.0250886	3.1224233	24	1	13 days	0.59		Williams	2000 DC ₂₄
2000 DD ₂₄	16.0	0.15	20000226	58.74540	94.85581	333.49793	3.14722	0.1993508	2.5660039	28	1	13 days	0.60		Williams	2000 DD ₂₄
2000 DG ₂₄	15.1	0.15	20000206	317.60787	223.11102	337.18239	9.49659	0.1684678	3.1369178	37	1	41 days	0.45		Williams	2000 DG ₂₄
2000 DH ₂₄	14.0	0.15	20000226	190.83798	345.09893	332.68970	13.65949	0.0965152	2.8377790	33	1	29 days	0.40		Williams	2000 DH ₂₄
2000 DK ₂₄	15.9	0.15	20000226	53.57867	318.00507	126.09783	3.56492	0.1081129	2.5540987	17	1	11 days	0.45		Williams	2000 DK ₂₄
2000 DL ₂₄	17.3	0.15	20000226	17.18125	3.67123	123.63127	2.65068	0.1208713	2.4019224	18	1	13 days	0.56		Williams	2000 DL ₂₄
2000 DN ₂₄	14.4	0.15	20000206	88.07964	271.88067	138.92974	10.63760	0.0447481	2.9837165	19	1	32 days	0.54		Williams	2000 DN ₂₄
2000 DO ₂₄	15.2	0.15	20000226	326.62563	220.35794	333.48958	10.76568	0.1564376	2.6850510	21	1	6 days	0.63	E	Williams	2000 DO ₂₄
2000 DP ₂₄	14.9	0.15	20000226	21.81222	147.59962	334.74631	10.56079	0.0816781	2.9884864	27	1	15 days	0.61		Williams	2000 DP ₂₄
2000 DR ₂₄	15.6	0.15	20000226	78.61012	267.76076	140.58055	4.58689	0.1968573	2.2451675	17	1	11 days	0.52		Williams	2000 DR ₂₄
2000 DT ₂₄	15.5	0.15	20000226	35.60001	328.38698	139.96173	5.40382	0.0706054	2.7210158	14	1	7 days	0.46	E	Williams	2000 DT ₂₄
2000 DV ₂₄	15.6	0.15	20000206	304.28631	240.67765	335.87724	12.18408	0.1606974	2.7407740	42	1	37 days	0.53		Williams	2000 DV ₂₄
2000 DW ₂₄	16.0	0.15	20000226	330.32973	206.91060	339.27033	7.20188	0.1075755	2.5750051	30	1	29 days	0.54		Williams	2000 DW ₂₄
2000 DX ₂₄	15.9	0.15	20000226	342.94317	17.36030	151.38871	14.35094	0.0770751	2.7458656	21	1	13 days	0.53		Williams	2000 DX ₂₄
2000 DZ ₂₄	14.7	0.15	20000206	175.05888	161.77727	167.36234	1.96516	0.1441526	2.5240039	36	1	39 days	0.67		Williams	2000 DZ ₂₄
2000 DA ₂₅	13.7	0.15	20000226	90.49918	74.15010	325.93137	7.35765	0.1597353	3.2206413	27	1	12 days	0.82		Williams	2000 DA ₂₅
2000 DC ₂₅	16.3	0.15	20000206	6.54608	171.76510	323.89415	2.24432	0.1087351	2.2906815	26	1	36 days	0.61		Williams	2000 DC ₂₅
2000 DE ₂₅	14.3	0.15	20000226	278.10658	73.86683	168.37994	5.21837	0.0996943	2.7005785	15	1	11 days	0.50		Williams	2000 DE ₂₅
2000 DG ₂₅	14.3	0.15	20000226	207.08114	146.17529	159.45073	6.24592	0.0779704	2.6891750	18	1	11 days	0.53		Williams	2000 DG ₂₅
2000 DR ₂₅	15.3	0.15	20000206	336.13676	32.27672	153.73081	15.09277	0.2695998	3.1319081	35	1	39 days	0.47		Williams	2000 DR ₂₅
2000 DT ₂₅	15.5	0.15	20000226	260.47001	277.56695	349.74190	1.82640	0.1712642	2.4635458	34	1	29 days	0.51		Williams	2000 DT ₂₅
2000 DV ₂₅	15.3	0.15	20000226	87.51336	273.33353	131.48861	1.27975	0.1453314	2.9920626	17	1	11 days	0.61		Williams	2000 DV ₂₅
2000 DW ₂₅	14.2	0.15	20000226	229.53098	311.07313	334.11014	10.15942	0.0754438	2.9622523	28	1	15 days	0.48		Williams	2000 DW ₂₅
2000 DX ₂₅	15.5	0.15	20000226	83.09464	41.42631	2.21261	1.90556	0.2026240	2.3251587	23	1	11 days	0.46		Williams	2000 DX ₂₅
2000 DA ₂₆	15.1	0.15	20000226	192.17173	319.93638	1.53024	2.45114	0.2200080	2.3000874	14	1	7 days	0.59	E	Williams	2000 DA ₂₆
2000 DE ₂₆	15.8	0.15	20000226	260.46757	254.40106	16.04733	2.15127	0.1971330	2.3593028	32	1	13 days	0.69		Williams	2000 DE ₂₆
2000 DG ₂₆	14.6	0.15	20000226	174.15586	6.31170	327.70684	9.77943	0.1625416	2.4077180	14	1	11 days	0.38		Williams	2000 DG ₂₆
2000 DH ₂₆	14.6	0.15	20000226	209.64347	340.01575	324.75706	2.27435	0.0981897	2.8043674	22	1	12 days	0.49		Williams	2000 DH ₂₆
2000 DJ ₂₆	15.4	0.15	20000226	248.02852	128.57258	150.22462	5.32851	0.1706281	2.3155564	22	1	12 days	0.53		Williams	2000 DJ ₂₆
2000 DK ₂₆	15.5	0.15	20000226	252.72653	302.46150	330.47127	8.59590	0.1473259	2.2683967	33	1	16 days	0.49		Williams	2000 DK ₂₆
2000 DL ₂₆	14.3	0.15	20000226	196.31638	344.72619	330.70137	8.75238	0.0903980	3.0735873	27	1	29 days	0.39		Williams	2000 DL ₂₆
2000 DO ₂₆	15.7	0.15	20000226	350.05579	199.58135	327.21035	1.22420	0.2251401	3.0839515	20	1	12 days	0.53		Williams	2000 DO ₂₆
2000 DP ₂₆	14.5	0.15	20000226	240.12751	322.16482	330.50198	2.27003	0.2747468	2.5674120	21	1	11 days	0.42		Williams	2000 DP ₂₆

2000 MAR. 20

M.P.C. 39609

2000 DQ ₂₆	15.7	0.15	20000226	337.11874	223.76867	318.42193	1.03834	0.1485069	2.6032484	12	1	5 days	0.63	E	Williams	2000 DQ ₂₆
2000 DR ₂₆	16.4	0.15	20000226	28.91430	136.07666	333.87982	4.85824	0.1816243	2.6050532	17	1	12 days	0.39		Williams	2000 DR ₂₆
2000 DS ₂₆	16.4	0.15	20000226	49.82850	306.36541	146.62063	4.08891	0.0880329	2.3309010	24	1	14 days	0.53		Williams	2000 DS ₂₆
2000 DT ₂₆	14.4	0.15	20000206	7.20853	87.60858	50.48049	1.02624	0.0314066	3.0845690	40	1	34 days	0.48		Williams	2000 DT ₂₆
2000 DU ₂₆	16.2	0.15	20000226	83.71775	36.71054	11.61867	1.06190	0.1629343	2.4010462	26	1	14 days	0.60		Williams	2000 DU ₂₆
2000 DV ₂₆	16.3	0.15	20000226	272.72096	119.19444	146.31210	4.88620	0.2428882	2.3356375	12	1	4 days	0.65	E	Williams	2000 DV ₂₆
2000 DW ₂₆	15.6	0.15	20000226	314.65138	68.65737	143.16712	4.95661	0.1649327	2.8887674	24	1	11 days	0.84		Williams	2000 DW ₂₆
2000 DX ₂₆	16.4	0.15	20000226	315.75489	271.81380	305.37583	1.95818	0.2179289	2.3381814	10	1	11 days	0.41		Williams	2000 DX ₂₆
2000 DY ₂₆	15.0	0.15	20000206	331.96783	23.99172	157.61106	4.81796	0.1350793	2.5673710	42	1	41 days	0.58		Williams	2000 DY ₂₆
2000 DA ₂₇	14.7	0.15	20000226	103.00075	61.60826	327.48333	4.48701	0.1856290	2.2632892	24	1	15 days	0.24		Williams	2000 DA ₂₇
2000 DB ₂₇	15.3	0.15	20000226	44.93731	145.70565	299.19040	1.28475	0.2227366	2.7487937	14	1	5 days	0.61	E	Williams	2000 DB ₂₇
2000 DE ₂₇	15.8	0.15	20000226	54.08219	117.57953	316.78198	6.01507	0.2169352	2.4914057	12	1	11 days	0.51		Williams	2000 DE ₂₇
2000 DG ₂₇	14.3	0.15	20000206	30.44532	307.53082	161.08981	9.57413	0.1107992	3.0605034	20	1	38 days	0.30		Williams	2000 DG ₂₇
2000 DL ₂₇	14.6	0.15	20000226	294.54807	279.83414	322.36697	12.55433	0.2205048	2.6393505	13	1	6 days	0.63	E	Williams	2000 DL ₂₇
2000 DN ₂₇	14.9	0.15	20000226	232.90033	19.02525	271.60314	2.68862	0.1509700	2.4516781	12	1	6 days	0.33	E	Williams	2000 DN ₂₇
2000 DQ ₂₇	16.2	0.15	20000226	349.30640	321.46459	206.05379	2.25015	0.1634242	2.4440977	12	1	5 days	0.43	E	Williams	2000 DQ ₂₇
2000 DS ₂₇	14.9	0.15	20000226	76.96538	159.32293	250.40156	2.02647	0.2197815	2.5695999	21	1	11 days	0.54		Williams	2000 DS ₂₇
2000 DT ₂₇	15.0	0.15	20000226	254.21598	110.61942	162.18170	7.98273	0.1484819	2.3445985	15	1	11 days	0.31		Williams	2000 DT ₂₇
2000 DV ₂₇	16.1	0.15	20000226	54.71010	248.45763	190.72022	1.32317	0.1767487	2.2671636	18	1	11 days	0.47		Williams	2000 DV ₂₇
2000 DX ₂₇	16.0	0.15	20000226	278.97055	109.81041	130.81621	1.29581	0.0787212	2.7767367	17	1	12 days	0.70		Williams	2000 DX ₂₇
2000 DY ₂₇	13.8	0.15	20000226	203.53241	159.92401	149.44872	5.47590	0.0639288	3.2245756	34	1	15 days	0.63		Williams	2000 DY ₂₇
2000 DZ ₂₇	16.0	0.15	20000226	58.43190	102.58024	339.35538	2.47215	0.1079259	2.3970814	38	1	29 days	0.55		Williams	2000 DZ ₂₇
2000 DB ₂₈	14.7	0.15	20000226	294.11411	80.80593	153.04875	1.61862	0.1539907	3.1797962	24	1	12 days	0.53		Williams	2000 DB ₂₈
2000 DC ₂₈	14.8	0.15	20000226	315.73531	238.84179	334.21034	4.45400	0.1900912	3.3003331	19	1	12 days	0.35		Williams	2000 DC ₂₈
2000 DE ₂₈	15.6	0.15	20000226	104.99018	247.60881	146.32517	3.13073	0.1171715	2.5791022	20	1	9 days	0.64		Williams	2000 DE ₂₈
2000 DF ₂₈	15.7	0.15	20000226	228.72267	174.31787	121.24668	1.11765	0.1705796	2.2346510	26	1	12 days	0.62		Williams	2000 DF ₂₈
2000 DG ₂₈	14.1	0.15	20000226	120.43948	12.57887	6.43786	0.36401	0.1262947	3.1426161	14	1	12 days	0.49		Williams	2000 DG ₂₈
2000 DH ₂₈	15.4	0.15	20000226	264.11711	255.04053	9.09554	0.94768	0.1544675	2.3972162	37	1	12 days	0.48		Williams	2000 DH ₂₈
2000 DL ₂₈	16.4	0.15	20000226	44.38735	108.96015	348.54162	4.12508	0.1140444	2.2647611	13	1	5 days	0.64	E	Williams	2000 DL ₂₈
2000 DN ₂₈	15.8	0.15	20000226	254.09778	148.29453	123.98861	2.06777	0.1415128	2.3510200	22	1	11 days	0.75		Williams	2000 DN ₂₈
2000 DO ₂₈	16.1	0.15	20000206	30.56062	93.94017	12.39839	1.47156	0.1346145	2.4423958	34	1	37 days	0.48		Williams	2000 DO ₂₈
2000 DP ₂₈	14.5	0.15	20000226	260.14293	94.75516	161.53482	3.95905	0.0437444	2.7112044	19	1	11 days	0.34		Williams	2000 DP ₂₈
2000 DR ₂₈	16.9	0.15	20000226	12.10259	216.44294	281.62641	0.60563	0.0860534	2.4027403	18	1	9 days	0.78		Williams	2000 DR ₂₈
2000 DS ₂₈	14.4	0.15	20000226	81.66763	150.74948	262.28610	0.56226	0.1459056	3.0435030	12	1	5 days	0.53	E	Williams	2000 DS ₂₈
2000 DT ₂₈	14.1	0.15	20000226	121.54076	59.15393	315.12075	1.26295	0.1782630	2.9388356	22	1	11 days	0.65		Williams	2000 DT ₂₈
2000 DU ₂₈	14.6	0.15	20000226	259.52872	104.03697	154.82471	2.29475	0.0641922	3.0396451	22	1	15 days	0.48		Williams	2000 DU ₂₈
2000 DX ₂₈	16.3	0.15	20000226	39.86102	229.43134	229.98476	0.57893	0.1573023	2.4595285	11	1	11 days	0.39		Williams	2000 DX ₂₈
2000 DY ₂₈	15.0	0.15	20000226	101.13301	235.42729	159.22635	2.51155	0.1537075	2.5303460	14	1	5 days	0.49	E	Williams	2000 DY ₂₈
2000 DA ₂₉	15.4	0.15	20000226	181.89940	354.85884	334.44090	12.57077	0.0570883	2.0787585	9	1	10 days	0.42		Williams	2000 DA ₂₉
2000 DC ₂₉	16.1	0.15	20000206	31.78124	320.60891	147.20871	4.77100	0.0952811	2.3130436	48	1	39 days	0.66		Williams	2000 DC ₂₉
2000 DE ₂₉	14.5	0.15	20000226	32.91281	335.79857	136.25829	1.61077	0.0961649	3.1832014	36	1	16 days	0.42		Williams	2000 DE ₂₉
2000 DG ₂₉	16.3	0.15	20000226	62.69658	85.44420	347.18673	1.08041	0.1541738	2.7245979	11	1	12 days	0.54		Williams	2000 DG ₂₉
2000 DJ ₂₉	14.5	0.15	20000226	86.13485	263.61800	151.01036	13.20440	0.0982020	3.1103760	24	1	11 days	0.41		Williams	2000 DJ ₂₉
2000 DK ₂₉	13.6	0.15	20000226	211.81247	325.29610	338.19023	4.17927	0.0545663	2.7777620	27	1	11 days	0.67		Williams	2000 DK ₂₉
2000 DM ₂₉	14.8	0.15	20000226	81.77001	78.82166	337.66376	14.85628	0.1147149	2.8898179	13	1	5 days	0.42	E	Williams	2000 DM ₂₉
2000 DQ ₂₉	15.5	0.15	20000226	188.08827	339.13800	347.15796	6.88742	0.1493504	2.3070115	18	1	11 days	0.46		Williams	2000 DQ ₂₉
2000 DS ₂₉	15.0	0.15	20000226	278.78440	265.11113	24.43267	2.55495	0.2192712	2.3194979	8	1	11 days	0.65		Williams	2000 DS ₂₉
2000 DU ₂₉	16.2	0.15	20000206	314.99830	35.11606	171.79378	2.36847	0.1651839	2.3735398	17	1	32 days	0.45		Williams	2000 DU ₂₉
2000 DW ₂₉	15.0	0.15	20000226	337.85469	311.10439	225.46504	0.74996	0.0444479	2.9240193	14	1	11 days	0.59		Williams	2000 DW ₂₉
2000 DX ₂₉	16.1	0.15	20000226	314.31644	245.77546	321.21743	4.16930	0.0887294	2.2720150	45	1	11 days	0.61		Williams	2000 DX ₂₉
2000 DY ₂₉	17.4	0.15	20000226	12.09622	310.30825	187.84383	0.98947	0.1165840	2.3760431	23	1	13 days	0.63		Williams	2000 DY ₂₉
2000 DA ₃₀	16.3	0.15	20000226	10.29545	250.29405	249.73564	0.45305	0.1265320	2.5055130	18	1	9 days	0.83		Williams	2000 DA ₃₀
2000 DB ₃₀	16.1	0.15	20000226	43.23121	285.99228	160.19944	9.31361	0.2481603	2.3788791	13	1	5 days	0.72	E	Williams	2000 DB ₃₀

2000 DD ₃₀	15.4	0.15	20000226	168.68116	184.18388	159.85289	6.26854	0.0177805	2.6968487	26	1	15 days	0.61	Williams	2000 DD ₃₀
2000 DE ₃₀	15.2	0.15	20000226	309.86607	259.22151	325.18663	11.40335	0.2072994	2.6666595	28	1	11 days	0.40	Williams	2000 DE ₃₀
2000 DF ₃₀	15.4	0.15	20000226	92.25946	150.87110	254.62032	1.68646	0.1354891	2.2406364	15	1	4 days	0.51	E Williams	2000 DF ₃₀
2000 DG ₃₀	15.3	0.15	20000226	18.49630	327.79802	160.51880	11.48386	0.1251586	3.1002814	23	1	11 days	0.51	Williams	2000 DG ₃₀
2000 DH ₃₀	14.2	0.15	20000206	194.42992	152.13894	164.66744	10.32592	0.0915403	3.0609307	34	1	38 days	0.67	Williams	2000 DH ₃₀
2000 DK ₃₀	15.0	0.15	20000226	320.51126	35.71518	162.21393	13.07328	0.0732544	2.6835043	15	1	9 days	0.45	Williams	2000 DK ₃₀
2000 DM ₃₀	16.5	0.15	20000226	266.88467	310.45313	319.24744	6.03321	0.2138635	2.3254796	22	1	15 days	0.54	Williams	2000 DM ₃₀
2000 DO ₃₀	14.2	0.15	20000226	74.57628	239.59596	176.46211	5.39343	0.1907476	3.1776146	14	1	9 days	0.38	Williams	2000 DO ₃₀
2000 DS ₃₀	15.0	0.15	20000226	299.80813	271.62195	313.49486	5.78791	0.1098772	2.7663886	15	1	11 days	0.36	Williams	2000 DS ₃₀
2000 DZ ₃₀	15.9	0.15	20000226	270.81210	329.38690	286.77709	2.45339	0.1120660	2.2868773	19	1	11 days	0.44	Williams	2000 DZ ₃₀
2000 DA ₃₁	15.7	0.15	20000226	85.04295	195.19953	226.39455	1.90729	0.0658791	2.5193687	19	1	11 days	0.55	Williams	2000 DA ₃₁
2000 DD ₃₁	13.5	0.15	20000226	118.23012	34.84853	331.88965	5.44677	0.2501842	2.9815616	24	1	8 days	0.73	Williams	2000 DD ₃₁
2000 DE ₃₁	15.6	0.15	20000226	76.87470	102.26061	327.43326	6.63583	0.0323769	2.3536738	12	1	4 days	0.74	E Williams	2000 DE ₃₁
2000 DG ₃₁	15.1	0.15	20000226	256.41487	316.30606	307.38976	2.00598	0.0897884	2.3369354	14	1	11 days	0.90	Williams	2000 DG ₃₁
2000 DH ₃₁	15.5	0.15	20000226	238.70771	292.59220	343.95765	6.64276	0.0555462	2.2978838	11	1	5 days	0.49	E Williams	2000 DH ₃₁
2000 DJ ₃₁	17.1	0.15	20000226	357.96273	355.87506	157.88381	1.39778	0.1070705	2.3854125	17	1	11 days	0.45	Williams	2000 DJ ₃₁
2000 DK ₃₁	14.3	0.15	20000226	86.44636	269.02972	135.85411	3.82972	0.1660237	3.0919535	33	1	11 days	0.69	Williams	2000 DK ₃₁
2000 DN ₃₁	14.7	0.15	20000226	151.45947	16.60056	338.54889	9.51744	0.0751396	3.1379233	16	1	12 days	0.57	Williams	2000 DN ₃₁
2000 DU ₃₁	16.1	0.15	20000226	84.03006	245.19195	149.75899	3.17115	0.2548224	2.8993506	12	1	11 days	1.05	Williams	2000 DU ₃₁
2000 DV ₃₁	15.1	0.15	20000226	240.07267	299.87785	343.18833	5.27672	0.1524440	2.2680371	16	1	9 days	0.81	Williams	2000 DV ₃₁
2000 DD ₃₂	14.8	0.15	20000226	72.90480	251.20648	160.53964	22.19467	0.2488717	3.3311356	9	1	4 days	0.54	E Williams	2000 DD ₃₂
2000 DE ₃₂	13.4	0.15	20000226	202.37435	168.12773	146.40673	5.90485	0.1264864	3.1805663	18	1	11 days	0.59	Williams	2000 DE ₃₂
2000 DF ₃₂	14.7	0.15	20000226	237.23025	138.55404	143.97765	7.13190	0.0778449	2.6905308	18	1	11 days	0.65	Williams	2000 DF ₃₂
2000 DG ₃₂	15.1	0.15	20000226	94.91558	73.94744	338.58566	13.69749	0.0471957	2.6103436	13	1	5 days	0.55	E Williams	2000 DG ₃₂
2000 DL ₃₂	14.8	0.15	20000226	187.99130	179.37714	148.12830	12.56086	0.1880065	2.7037297	29	1	15 days	0.44	Williams	2000 DL ₃₂
2000 DM ₃₂	16.4	0.15	20000226	284.39326	101.93002	147.13400	5.26574	0.1698769	2.3219555	25	1	15 days	0.47	Williams	2000 DM ₃₂
2000 DO ₃₂	15.4	0.15	20000226	83.93048	270.99330	156.64907	10.28156	0.0132649	2.9742684	25	1	15 days	0.64	Williams	2000 DO ₃₂
2000 DP ₃₂	13.6	0.15	20000226	93.22983	78.26307	331.31205	9.90758	0.0915338	3.0470130	20	1	5 days	0.45	E Williams	2000 DP ₃₂
2000 DQ ₃₂	16.2	0.15	20000226	57.65333	95.61294	329.80111	3.96848	0.2743382	2.3919701	18	1	11 days	0.50	Williams	2000 DQ ₃₂
2000 DR ₃₂	15.3	0.15	20000226	179.64308	175.48361	158.44641	7.28737	0.1554219	2.2392040	15	1	11 days	0.51	Williams	2000 DR ₃₂
2000 DT ₃₂	14.9	0.15	20000226	36.04286	221.91453	252.28537	0.40866	0.0494704	2.9830495	18	1	11 days	0.53	Williams	2000 DT ₃₂
2000 DU ₃₂	14.5	0.15	20000226	265.97948	291.31621	331.42694	11.83227	0.1310964	2.7712932	20	1	11 days	0.53	Williams	2000 DU ₃₂
2000 DV ₃₂	16.7	0.15	20000226	14.54184	157.62116	334.01670	4.61172	0.2164126	2.5054454	14	1	4 days	0.45	E Williams	2000 DV ₃₂
2000 DW ₃₂	13.7	0.15	20000226	189.64698	154.29629	172.10516	0.23683	0.1567870	3.1434732	19	1	11 days	0.54	Williams	2000 DW ₃₂
2000 DX ₃₂	15.5	0.15	20000226	306.91002	262.42325	315.17782	1.45552	0.1054688	3.0147599	27	1	15 days	0.61	Williams	2000 DX ₃₂
2000 DY ₃₂	15.4	0.15	20000226	295.89279	261.26035	330.19097	1.26103	0.1228121	3.0493237	22	1	15 days	0.46	Williams	2000 DY ₃₂
2000 DA ₃₃	14.1	0.15	20000226	241.96476	339.66514	304.41787	3.68573	0.1358245	2.5926688	18	1	11 days	0.59	Williams	2000 DA ₃₃
2000 DB ₃₃	17.2	0.15	20000226	338.26184	17.19953	168.04127	4.97704	0.1777752	2.3434814	21	1	11 days	0.58	Williams	2000 DB ₃₃
2000 DG ₃₃	15.6	0.15	20000226	341.39970	5.06666	173.71203	3.47163	0.1457867	2.8044851	12	1	4 days	0.50	E Williams	2000 DG ₃₃
2000 DK ₃₃	15.6	0.15	20000226	2.05341	335.71578	175.32041	2.47181	0.1495739	2.8506535	19	1	11 days	0.66	Williams	2000 DK ₃₃
2000 DL ₃₃	14.4	0.15	20000226	278.72875	85.96460	161.00087	11.36300	0.1069556	3.1826276	17	1	11 days	0.40	Williams	2000 DL ₃₃
2000 DM ₃₃	16.0	0.15	20000226	119.60738	215.61141	165.64368	6.01239	0.1454525	2.2718685	14	1	11 days	0.47	Williams	2000 DM ₃₃
2000 DN ₃₃	15.7	0.15	20000226	273.62850	2.04612	257.40744	2.05891	0.1633063	2.3913290	19	1	11 days	0.53	Williams	2000 DN ₃₃
2000 DO ₃₃	16.0	0.15	20000226	75.74574	122.12803	305.32836	3.15382	0.0985875	2.3977320	19	1	11 days	0.45	Williams	2000 DO ₃₃
2000 DQ ₃₃	16.0	0.15	20000226	117.42773	68.56521	314.31459	4.55455	0.1530341	2.2808641	19	1	11 days	0.57	Williams	2000 DQ ₃₃
2000 DT ₃₃	15.7	0.15	20000226	357.96757	343.04189	174.04659	4.74275	0.0737615	2.5940067	17	1	11 days	0.52	Williams	2000 DT ₃₃
2000 DV ₃₃	14.0	0.15	20000226	356.26594	207.91042	311.63410	3.81886	0.1341771	3.1771450	15	1	11 days	0.45	Williams	2000 DV ₃₃
2000 DW ₃₃	14.8	0.15	20000226	233.35021	125.24300	168.69555	7.74701	0.1507296	2.2475566	14	1	11 days	0.52	Williams	2000 DW ₃₃
2000 DB ₃₄	15.8	0.15	20000226	289.15012	81.39379	168.02035	5.26679	0.2076252	2.3777618	15	1	11 days	0.43	Williams	2000 DB ₃₄
2000 DE ₃₄	15.1	0.15	20000226	42.59836	284.16061	158.92630	16.42639	0.2867440	3.1960048	13	1	11 days	0.21	Williams	2000 DE ₃₄
2000 DG ₃₄	14.6	0.15	20000226	308.50902	262.94549	325.68061	5.53749	0.2135181	2.9388622	14	1	11 days	0.35	Williams	2000 DG ₃₄
2000 DK ₃₄	14.8	0.15	20000226	327.17856	22.77189	178.61048	1.26633	0.1825696	3.1779429	15	1	11 days	0.45	Williams	2000 DK ₃₄
2000 DL ₃₄	16.3	0.15	20000226	19.56453	313.66979	175.86194	2.01429	0.1354545	2.3503783	14	1	11 days	0.40	Williams	2000 DL ₃₄

2000 MAR. 20

M.P.C. 39611

2000 DM ₃₄	16.1	0.15	20000226	39.80348	323.55471	145.49282	3.21010	0.0630200	2.4723843	27	1	15 days	0.43	Williams	2000 DM ₃₄
2000 DQ ₃₄	15.4	0.15	20000226	85.40722	277.13027	134.54871	1.82648	0.1467985	2.6341094	19	1	11 days	0.47	Williams	2000 DQ ₃₄
2000 DR ₃₄	14.1	0.15	20000226	208.36711	156.01217	152.04163	11.65183	0.0530819	3.2215986	14	1	5 days	0.34	E Williams	2000 DR ₃₄
2000 DS ₃₄	15.3	0.15	20000226	298.92189	72.46719	146.36408	5.53168	0.0368355	2.7555751	24	1	11 days	0.42	Williams	2000 DS ₃₄
2000 DU ₃₄	14.5	0.15	20000226	137.86728	19.86559	346.27913	2.52959	0.1447929	3.0872039	19	1	9 days	0.51	Williams	2000 DU ₃₄
2000 DV ₃₄	15.0	0.15	20000226	267.76421	99.08014	151.00637	9.80600	0.0328835	3.0331637	28	1	29 days	0.69	Williams	2000 DV ₃₄
2000 DW ₃₄	15.0	0.15	20000226	271.01210	101.21017	148.51678	4.93533	0.0565405	2.7488846	20	1	11 days	0.78	Williams	2000 DW ₃₄
2000 DY ₃₄	16.6	0.15	20000226	340.86517	201.55144	341.08872	11.63377	0.1987003	2.6845693	29	1	29 days	0.58	Williams	2000 DY ₃₄
2000 DC ₃₅	14.5	0.15	20000226	313.22200	95.71619	111.40234	2.11269	0.0764968	3.1194748	20	1	11 days	0.68	Williams	2000 DC ₃₅
2000 DG ₃₅	15.9	0.15	20000226	77.35166	76.63169	349.28786	4.55968	0.0969748	2.2480095	15	1	5 days	0.41	E Williams	2000 DG ₃₅
2000 DJ ₃₅	17.2	0.15	20000226	323.80906	69.38863	130.99581	2.01115	0.1248744	2.4106934	26	1	15 days	0.43	Williams	2000 DJ ₃₅
2000 DK ₃₅	14.3	0.15	20000226	104.22842	255.97986	138.78854	5.89441	0.1433519	3.1575297	23	1	12 days	0.55	Williams	2000 DK ₃₅
2000 DM ₃₅	15.1	0.15	20000226	73.17945	264.27783	162.15724	3.82968	0.1276311	3.0750768	14	1	11 days	0.61	Williams	2000 DM ₃₅
2000 DQ ₃₅	17.1	0.15	20000226	346.49551	207.23108	325.98822	1.39213	0.1478991	2.3663724	23	1	15 days	0.63	Williams	2000 DQ ₃₅
2000 DS ₃₅	14.5	0.15	20000226	108.60783	52.51479	332.06151	1.64464	0.2146788	2.8523580	14	1	11 days	0.42	Williams	2000 DS ₃₅
2000 DU ₃₅	14.9	0.15	20000226	99.65671	219.87952	165.12349	0.83796	0.2949218	2.4982278	14	1	11 days	0.30	Williams	2000 DU ₃₅
2000 DV ₃₅	13.8	0.15	20000226	113.33546	86.76961	289.21475	0.37805	0.2811270	2.9838700	14	1	11 days	0.61	Williams	2000 DV ₃₅
2000 DW ₃₅	15.2	0.15	20000226	315.52498	63.39218	147.15300	1.57327	0.1290100	3.1743702	18	1	11 days	0.45	Williams	2000 DW ₃₅
2000 DY ₃₅	16.1	0.15	20000206	278.48669	262.62230	337.63544	6.85983	0.0834621	2.2724280	41	1	39 days	0.59	Williams	2000 DY ₃₅
2000 DZ ₃₅	14.9	0.15	20000226	278.67148	68.68197	177.08057	0.91842	0.0842804	3.1008908	12	1	11 days	0.46	Williams	2000 DZ ₃₅
2000 DA ₃₆	14.7	0.15	20000206	359.14313	347.61503	163.74388	2.50226	0.1216136	3.0477437	24	1	36 days	0.33	Williams	2000 DA ₃₆
2000 DB ₃₆	16.7	0.15	20000226	63.68291	108.21389	337.32628	6.51361	0.0563291	2.2647361	22	1	15 days	0.46	Williams	2000 DB ₃₆
2000 DC ₃₆	14.2	0.15	20000226	17.03454	340.52144	156.77723	1.00267	0.0164480	3.1290492	14	1	11 days	0.55	Williams	2000 DC ₃₆
2000 DD ₃₆	15.9	0.15	20000226	133.68064	226.99870	152.38627	0.67876	0.0247326	2.6164701	22	1	15 days	0.67	Williams	2000 DD ₃₆
2000 DE ₃₆	14.2	0.15	20000226	175.71076	353.47337	343.42715	3.52373	0.2303744	2.5082564	13	1	5 days	0.34	E Williams	2000 DE ₃₆
2000 DG ₃₆	13.9	0.15	20000226	243.46914	128.34973	152.09333	15.71213	0.1021351	3.2482067	15	1	11 days	0.42	Williams	2000 DG ₃₆
2000 DH ₃₆	15.4	0.15	20000226	327.45529	45.34698	146.89629	2.31964	0.0773272	2.8968444	15	1	5 days	0.52	E Williams	2000 DH ₃₆
2000 DL ₃₆	13.9	0.15	20000226	159.79133	8.66133	342.18439	8.77225	0.0997496	3.0315442	12	1	5 days	0.47	E Williams	2000 DL ₃₆
2000 DM ₃₆	14.3	0.15	20000226	81.92060	76.33046	338.80652	7.14680	0.1525697	3.2124257	16	1	11 days	0.61	Williams	2000 DM ₃₆
2000 DN ₃₆	14.3	0.15	20000206	85.28667	67.07281	339.48757	13.47034	0.1659532	3.0618445	36	1	39 days	0.42	Williams	2000 DN ₃₆
2000 DO ₃₆	17.0	0.15	20000226	339.83346	194.00154	349.29141	2.14567	0.1631102	2.3233961	19	1	11 days	0.38	Williams	2000 DO ₃₆
2000 DX ₃₆	15.7	0.15	20000226	207.32874	330.32462	343.11560	5.76692	0.1226082	2.4429330	27	1	15 days	0.54	Williams	2000 DX ₃₆
2000 DY ₃₆	15.8	0.15	20000226	35.67639	353.94431	120.48651	1.40429	0.0711291	2.5491338	12	1	5 days	0.41	E Williams	2000 DY ₃₆
2000 DB ₃₇	16.1	0.15	20000226	14.74958	358.23475	137.16948	2.54554	0.1428908	3.1240927	27	1	15 days	0.56	Williams	2000 DB ₃₇
2000 DC ₃₇	15.7	0.15	20000226	99.54619	48.89184	347.63987	5.93962	0.1733529	2.3368655	11	1	5 days	0.51	E Williams	2000 DC ₃₇
2000 DD ₃₇	14.7	0.15	20000226	143.35794	231.18003	133.47247	3.91632	0.1065301	2.6111035	14	1	5 days	0.49	E Williams	2000 DD ₃₇
2000 DE ₃₇	14.5	0.15	20000226	87.22651	267.40144	149.56998	13.74310	0.0931820	2.7436935	33	1	30 days	0.36	Williams	2000 DE ₃₇
2000 DG ₃₇	14.9	0.15	20000226	48.78311	103.29357	346.39400	9.29318	0.1622266	3.1419194	23	1	11 days	0.57	Williams	2000 DG ₃₇
2000 DJ ₃₇	16.9	0.15	20000226	311.87068	216.57441	352.07179	5.94982	0.0609480	2.3975144	17	1	9 days	0.50	Williams	2000 DJ ₃₇
2000 DK ₃₇	14.8	0.15	20000226	189.55172	202.29233	124.61759	3.00607	0.0759724	2.7355979	18	1	11 days	0.54	Williams	2000 DK ₃₇
2000 DL ₃₇	15.8	0.15	20000226	282.51708	140.94378	97.15639	2.05402	0.0481654	2.5578244	33	1	30 days	0.48	Williams	2000 DL ₃₇
2000 DM ₃₇	16.7	0.15	20000226	318.16660	81.35570	132.58259	3.18222	0.1838983	2.6514621	14	1	11 days	0.43	Williams	2000 DM ₃₇
2000 DN ₃₇	14.9	0.15	20000226	143.21083	233.70205	132.06361	4.62915	0.0982826	2.6883274	30	1	15 days	0.42	Williams	2000 DN ₃₇
2000 DP ₃₇	14.9	0.15	20000226	336.20371	27.58368	153.27624	2.45653	0.0404665	2.8970706	13	1	11 days	0.51	Williams	2000 DP ₃₇
2000 DQ ₃₇	16.5	0.15	20000226	88.26962	59.78342	345.41737	2.10171	0.1933840	2.4621078	18	1	15 days	0.43	Williams	2000 DQ ₃₇
2000 DU ₃₇	15.8	0.15	20000226	40.32208	306.52177	155.59365	1.36969	0.1530539	3.1771997	19	1	15 days	0.65	Williams	2000 DU ₃₇
2000 DY ₃₇	14.3	0.15	20000226	169.22581	6.62158	336.60734	12.08753	0.1850499	2.6657300	13	1	11 days	0.48	Williams	2000 DY ₃₇
2000 DZ ₃₇	16.0	0.15	20000226	326.89333	67.24179	143.57738	0.77990	0.2603549	2.6448174	22	1	11 days	0.77	Williams	2000 DZ ₃₇
2000 DC ₃₈	15.5	0.15	20000226	325.78733	43.72630	155.88340	14.02020	0.1260232	2.7502457	28	1	11 days	0.56	Williams	2000 DC ₃₈
2000 DF ₃₈	15.0	0.15	20000226	69.98939	93.38507	332.26238	11.83338	0.1733533	2.8003095	13	1	5 days	0.51	E Williams	2000 DF ₃₈
2000 DJ ₃₈	15.0	0.15	20000226	352.60269	314.66921	209.75548	0.66374	0.0980865	3.0669585	26	1	11 days	0.45	Williams	2000 DJ ₃₈
2000 DM ₃₈	15.6	0.15	20000226	311.76065	252.52387	325.01166	2.62530	0.1424243	2.5998133	16	1	11 days	0.65	Williams	2000 DM ₃₈
2000 DO ₃₈	15.9	0.15	20000226	73.91652	276.47782	163.55507	4.49074	0.0165525	2.3226664	28	1	11 days	0.40	Williams	2000 DO ₃₈

2000 DP ₃₈	13.9	0.15	20000226	100.03241	250.46195	158.26810	16.19189	0.0597816	3.1992364	24	1	11 days	0.46	Williams	2000 DP ₃₈
2000 DQ ₃₈	15.3	0.15	20000226	101.44433	69.34267	334.85607	16.77325	0.0931132	2.7193709	20	1	9 days	0.67	Williams	2000 DQ ₃₈
2000 DR ₃₈	13.8	0.15	20000226	240.96681	109.88730	174.85209	1.22840	0.1072252	3.0098189	22	1	11 days	0.52	Williams	2000 DR ₃₈
2000 DS ₃₈	14.4	0.15	20000226	207.44511	150.37426	165.60336	4.10828	0.1660669	2.6015816	17	1	11 days	0.59	Williams	2000 DS ₃₈
2000 DU ₃₈	14.0	0.15	20000226	266.54304	100.87071	164.50913	9.48317	0.1510009	2.7481075	23	1	11 days	0.61	Williams	2000 DU ₃₈
2000 DX ₃₈	16.0	0.15	20000226	104.10051	77.15111	312.41051	3.46939	0.2168100	2.3288472	14	1	11 days	0.35	Williams	2000 DX ₃₈
2000 DZ ₃₈	15.6	0.15	20000226	61.13621	226.08081	196.25668	2.49842	0.2832994	2.5153012	13	1	11 days	0.84	Williams	2000 DZ ₃₈
2000 DB ₃₉	15.4	0.15	20000226	152.72571	36.49005	321.78453	4.69024	0.1070567	2.3373758	21	1	11 days	0.55	Williams	2000 DB ₃₉
2000 DC ₃₉	15.3	0.15	20000226	298.87947	281.56880	310.23589	3.42615	0.1341808	2.6315774	20	1	11 days	0.59	Williams	2000 DC ₃₉
2000 DD ₃₉	14.1	0.15	20000226	296.18843	36.44371	197.69010	3.09782	0.1381127	3.2525335	14	1	11 days	0.39	Williams	2000 DD ₃₉
2000 DE ₃₉	16.4	0.15	20000226	61.56103	259.21452	170.73146	8.24779	0.2145522	2.4459883	13	1	11 days	0.79	Williams	2000 DE ₃₉
2000 DG ₃₉	15.1	0.15	20000226	17.03413	270.69769	225.30235	2.41248	0.0761320	2.6631112	24	1	11 days	0.51	Williams	2000 DG ₃₉
2000 DH ₃₉	14.9	0.15	20000226	359.18245	284.99979	231.65176	2.50355	0.0462479	3.0482985	22	1	11 days	0.47	Williams	2000 DH ₃₉
2000 DK ₃₉	13.8	0.15	20000226	174.54179	144.71013	194.82193	4.29359	0.2005039	2.6023715	20	1	5 days	0.33	E Williams	2000 DK ₃₉
2000 DM ₃₉	16.6	0.15	20000226	277.50110	289.23019	324.62714	7.69173	0.1330978	2.2521422	16	1	11 days	0.47	Williams	2000 DM ₃₉
2000 DN ₃₉	14.5	0.15	20000226	251.32035	307.25893	324.62672	9.61322	0.0651026	2.9549102	12	1	11 days	0.42	Williams	2000 DN ₃₉
2000 DP ₃₉	15.6	0.15	20000226	303.84475	258.46820	322.53245	5.62511	0.0834957	2.3251395	24	1	11 days	0.34	Williams	2000 DP ₃₉
2000 DQ ₃₉	14.4	0.15	20000226	230.78999	324.85369	325.12953	9.58367	0.0499747	2.9684894	13	1	11 days	0.33	Williams	2000 DQ ₃₉
2000 DS ₃₉	13.6	0.15	20000226	129.77524	193.47375	177.74039	5.35867	0.2036474	3.0701909	17	1	11 days	0.56	Williams	2000 DS ₃₉
2000 DT ₃₉	14.9	0.15	20000226	146.32973	55.38462	309.61542	3.41294	0.0891838	2.5954356	13	1	11 days	0.53	Williams	2000 DT ₃₉
2000 DW ₃₉	13.4	0.15	20000226	137.87273	39.28853	328.38717	11.86278	0.1697371	2.9357244	15	1	11 days	0.42	Williams	2000 DW ₃₉
2000 DX ₃₉	15.8	0.15	20000226	44.43910	194.74866	263.26559	2.00331	0.1553580	2.8924792	18	1	11 days	0.50	Williams	2000 DX ₃₉
2000 DY ₃₉	13.5	0.15	20000226	222.66883	135.73660	167.09940	10.70062	0.1317513	3.0657154	12	1	11 days	0.41	Williams	2000 DY ₃₉
2000 DF ₄₀	15.5	0.15	20000226	298.13051	69.46360	161.74298	15.77342	0.1217788	2.5490565	18	1	11 days	0.50	Williams	2000 DF ₄₀
2000 DG ₄₀	16.6	0.15	20000206	314.74930	269.55792	302.79369	1.79003	0.1844810	2.3292205	42	1	39 days	0.46	Williams	2000 DG ₄₀
2000 DH ₄₀	15.6	0.15	20000206	359.57600	328.36617	181.36701	2.36546	0.1529103	2.3946143	42	1	38 days	0.43	Williams	2000 DH ₄₀
2000 DJ ₄₀	15.1	0.15	20000226	255.18323	316.57667	327.90411	7.47770	0.2292794	2.2985085	28	1	11 days	0.51	Williams	2000 DJ ₄₀
2000 DK ₄₀	14.2	0.15	20000226	303.49522	281.10115	301.94734	1.42529	0.0999475	2.6289052	33	1	11 days	0.32	Williams	2000 DK ₄₀
2000 DM ₄₀	16.0	0.15	20000226	0.29814	204.74091	311.49791	2.63748	0.1204847	2.7432338	27	1	12 days	0.51	Williams	2000 DM ₄₀
2000 DN ₄₀	15.4	0.15	20000226	51.88691	289.13931	162.13887	9.47041	0.1333102	2.7613680	24	1	11 days	0.44	Williams	2000 DN ₄₀
2000 DO ₄₀	16.4	0.15	20000206	47.76443	125.27821	326.67470	5.27328	0.1122215	2.2499447	25	1	35 days	0.59	Williams	2000 DO ₄₀
2000 DP ₄₀	15.1	0.15	20000226	74.13253	266.23457	166.64935	5.82441	0.0844388	2.7269143	22	1	11 days	0.52	Williams	2000 DP ₄₀
2000 DR ₄₀	14.3	0.15	20000226	294.25582	66.59792	162.16335	9.95913	0.0592287	3.1165144	24	1	11 days	0.41	Williams	2000 DR ₄₀
2000 DT ₄₀	16.0	0.15	20000226	90.34748	253.43226	162.85205	11.64367	0.0901552	2.3235280	28	1	12 days	0.71	Williams	2000 DT ₄₀
2000 DX ₄₀	15.2	0.15	20000226	3.20236	181.44584	330.80314	2.69985	0.1020034	2.3949893	25	1	11 days	0.36	Williams	2000 DX ₄₀
2000 DA ₄₁	16.1	0.15	20000226	14.81912	157.31718	335.07531	4.75657	0.2280624	2.7773005	19	1	15 days	0.32	Williams	2000 DA ₄₁
2000 DH ₄₁	14.7	0.15	20000226	332.32925	34.63289	153.51912	3.12475	0.0677067	2.9314388	14	1	11 days	0.42	Williams	2000 DH ₄₁
2000 DJ ₄₁	16.6	0.15	20000226	351.17676	195.58141	333.81847	3.70156	0.1672016	2.5784612	23	1	11 days	0.43	Williams	2000 DJ ₄₁
2000 DM ₄₁	14.8	0.15	20000226	182.30870	178.61258	156.47521	12.12613	0.1322998	2.7047242	23	1	15 days	0.58	Williams	2000 DM ₄₁
2000 DN ₄₁	14.1	0.15	20000226	281.37782	127.90435	126.83349	2.08362	0.1813233	3.0570907	31	1	29 days	0.43	Williams	2000 DN ₄₁
2000 DP ₄₁	16.6	0.15	20000226	11.23237	348.74761	151.16106	5.54553	0.1697031	2.3773307	38	1	15 days	0.71	Williams	2000 DP ₄₁
2000 DQ ₄₁	15.6	0.15	20000226	68.86796	98.89882	342.62775	7.83803	0.0476344	2.6522557	15	1	5 days	0.55	E Williams	2000 DQ ₄₁
2000 DR ₄₁	14.7	0.15	20000226	189.47669	338.52209	348.63904	4.28925	0.0496712	2.7546271	18	1	11 days	0.54	Williams	2000 DR ₄₁
2000 DS ₄₁	16.6	0.15	20000226	19.70125	349.49996	142.17460	5.08590	0.1033202	2.3908946	31	1	30 days	0.64	Williams	2000 DS ₄₁
2000 DT ₄₁	13.5	0.15	20000226	165.06683	211.70011	133.40260	4.08005	0.2410087	2.8140986	14	1	5 days	0.35	E Williams	2000 DT ₄₁
2000 DX ₄₁	14.9	0.15	20000226	154.32431	4.82953	355.21632	2.60325	0.0333122	2.7261990	20	1	11 days	0.54	Williams	2000 DX ₄₁
2000 DZ ₄₁	14.5	0.15	20000226	115.00557	3.17554	37.82542	0.57658	0.0031514	3.0411519	24	1	15 days	0.42	Williams	2000 DZ ₄₁
2000 DB ₄₂	16.4	0.15	20000226	52.34302	93.83432	351.32263	2.04491	0.1837085	2.3566901	13	1	11 days	0.52	Williams	2000 DB ₄₂
2000 DD ₄₂	17.1	0.15	20000206	299.42689	75.71573	149.22865	3.91856	0.1306994	2.3196484	31	1	35 days	0.40	Williams	2000 DD ₄₂
2000 DE ₄₂	14.7	0.15	20000226	254.01030	115.58448	153.19681	9.18683	0.0575684	3.0162119	24	1	11 days	0.41	Williams	2000 DE ₄₂
2000 DF ₄₂	14.7	0.15	20000226	261.49269	258.21307	6.54656	1.30843	0.0872728	2.8746506	14	1	4 days	0.51	E Williams	2000 DF ₄₂
2000 DG ₄₂	16.2	0.15	20000226	74.64802	281.41671	145.15359	3.92483	0.1348594	2.3543493	14	1	4 days	0.63	E Williams	2000 DG ₄₂
2000 DJ ₄₂	16.0	0.15	20000226	286.57993	254.03991	349.95363	1.84262	0.1208662	2.4044973	23	1	11 days	0.52	Williams	2000 DJ ₄₂

2000 MAR. 20

M.P.C. 39613

2000 DL ₄₂	15.5	0.15	20000226	248.45019	151.77094	133.30964	2.01341	0.1720888	2.4239732	27	1	15 days	0.40	Williams	2000 DL ₄₂
2000 DM ₄₂	15.6	0.15	20000226	39.21857	329.59275	135.93214	1.99223	0.1440479	3.0506491	25	1	15 days	0.51	Williams	2000 DM ₄₂
2000 DO ₄₂	15.5	0.15	20000226	310.86368	73.15250	145.47548	1.89766	0.1293094	2.6410230	15	1	11 days	0.49	Williams	2000 DO ₄₂
2000 DP ₄₂	14.4	0.15	20000226	73.06956	75.05810	354.18199	5.07355	0.1208056	3.1737875	18	1	11 days	0.57	Williams	2000 DP ₄₂
2000 DQ ₄₂	15.1	0.15	20000226	157.71158	343.12030	10.71176	2.79908	0.1211291	2.5903475	27	1	15 days	0.65	Williams	2000 DQ ₄₂
2000 DR ₄₂	16.2	0.15	20000206	313.32655	225.76338	348.11506	6.23821	0.1698674	2.7141475	26	1	34 days	0.57	Williams	2000 DR ₄₂
2000 DS ₄₂	15.3	0.15	20000226	129.09922	229.95937	143.88544	5.40823	0.1753183	2.2099179	17	1	11 days	0.38	Williams	2000 DS ₄₂
2000 DU ₄₂	15.9	0.15	20000206	282.65097	252.83828	347.17833	9.60007	0.0898838	2.9445510	10	1	26 days	0.63	Williams	2000 DU ₄₂
2000 DV ₄₂	12.8	0.15	20000226	103.90617	51.88549	340.24242	27.18554	0.1989432	3.1275519	24	1	11 days	0.39	Williams	2000 DV ₄₂
2000 DZ ₄₂	16.6	0.15	20000226	331.08552	173.45040	18.12041	2.27927	0.0922322	2.2951526	39	1	29 days	0.52	Williams	2000 DZ ₄₂
2000 DA ₄₃	15.2	0.15	20000226	334.70904	62.96590	126.35063	2.90078	0.1217024	2.8199038	18	1	9 days	0.80	Williams	2000 DA ₄₃
2000 DB ₄₃	15.9	0.15	20000226	358.49354	171.74049	346.88641	6.42369	0.0746512	2.4235435	23	1	11 days	0.57	Williams	2000 DB ₄₃
2000 DC ₄₃	15.7	0.15	20000226	61.11603	73.72091	17.14162	1.81849	0.0479813	2.8722533	25	1	15 days	0.56	Williams	2000 DC ₄₃
2000 DD ₄₃	14.9	0.15	20000226	10.41536	146.21849	358.78722	2.58006	0.0719213	3.0177020	17	1	11 days	0.38	Williams	2000 DD ₄₃
2000 DG ₄₃	15.8	0.15	20000226	243.70096	148.64958	144.59279	2.62785	0.2160061	2.3935711	28	1	15 days	0.37	Williams	2000 DG ₄₃
2000 DH ₄₃	14.5	0.15	20000226	23.29359	9.20167	118.46058	1.88126	0.1203016	3.2472354	20	1	9 days	0.78	Williams	2000 DH ₄₃
2000 DL ₄₃	14.6	0.15	20000226	174.13669	205.36759	137.08935	2.97678	0.0882932	2.8509749	22	1	11 days	0.42	Williams	2000 DL ₄₃
2000 DO ₄₃	14.9	0.15	20000226	24.56646	13.66259	115.68217	1.84158	0.0688404	3.0586485	31	1	15 days	0.61	Williams	2000 DO ₄₃
2000 DP ₄₃	14.3	0.15	20000226	41.96563	317.60841	150.98263	8.54674	0.0856287	3.1086824	11	1	9 days	0.51	Williams	2000 DP ₄₃
2000 DR ₄₃	17.0	0.15	20000226	106.74928	250.43392	145.45176	3.85658	0.1465574	2.2022168	22	1	15 days	0.55	Williams	2000 DR ₄₃
2000 DS ₄₃	15.1	0.15	20000226	353.30295	168.54250	357.15540	3.94275	0.0980732	2.7147846	16	1	5 days	0.57	E Williams	2000 DS ₄₃
2000 DV ₄₃	15.0	0.15	20000226	95.38075	59.66426	345.96189	1.44974	0.1435554	2.7132874	11	1	11 days	0.51	Williams	2000 DV ₄₃
2000 DW ₄₃	15.7	0.15	20000226	342.54355	198.89899	336.19439	6.21789	0.0141912	2.3301055	20	1	11 days	0.51	Williams	2000 DW ₄₃
2000 DX ₄₃	14.6	0.15	20000226	357.55561	359.50596	160.40264	2.56499	0.0372003	2.8022146	19	1	11 days	0.39	Williams	2000 DX ₄₃
2000 DD ₄₄	15.7	0.15	20000226	56.31448	294.25914	149.73161	3.71522	0.1636463	2.6804336	28	1	15 days	0.41	Williams	2000 DD ₄₄
2000 DE ₄₄	15.3	0.15	20000226	342.00559	22.04261	158.76771	12.12007	0.1211491	2.6260621	15	1	11 days	0.39	Williams	2000 DE ₄₄
2000 DF ₄₄	14.0	0.15	20000226	55.92202	296.57311	157.51998	17.33854	0.0791047	3.1019589	15	1	11 days	0.28	Williams	2000 DF ₄₄
2000 DG ₄₄	13.5	0.15	20000226	244.16400	30.01015	257.93859	0.71809	0.1623125	3.2104163	13	1	4 days	0.53	E Williams	2000 DG ₄₄
2000 DJ ₄₄	14.6	0.15	20000226	66.90575	279.93855	164.11304	3.88005	0.0564667	2.7867261	15	1	11 days	0.50	Williams	2000 DJ ₄₄
2000 DM ₄₄	14.8	0.15	20000226	214.39828	335.12855	335.47785	10.53565	0.1378223	2.6526111	14	1	11 days	0.44	Williams	2000 DM ₄₄
2000 DQ ₄₄	17.4	0.15	20000226	258.48312	350.28477	274.76155	0.97972	0.0541097	2.3080268	11	1	4 days	0.54	E Williams	2000 DQ ₄₄
2000 DS ₄₄	16.5	0.15	20000226	55.87855	166.27737	284.55448	1.14286	0.1066480	2.4381212	15	1	5 days	0.40	E Williams	2000 DS ₄₄
2000 DT ₄₄	14.4	0.15	20000206	55.95007	119.82754	331.71966	9.09418	0.0710261	3.4970758	21	1	35 days	0.55	Williams	2000 DT ₄₄
2000 DV ₄₄	14.7	0.15	20000226	301.81884	73.41145	167.01662	4.30334	0.2235311	2.3771097	15	1	11 days	0.23	Williams	2000 DV ₄₄
2000 DW ₄₄	15.8	0.15	20000226	238.28052	322.38336	331.11054	5.75224	0.1606975	2.2682902	17	1	11 days	0.54	Williams	2000 DW ₄₄
2000 DX ₄₄	14.7	0.15	20000206	101.69330	96.42692	310.24335	1.04392	0.0496616	2.9498273	16	1	35 days	0.44	Williams	2000 DX ₄₄
2000 DZ ₄₄	15.8	0.15	20000226	317.42304	247.86090	328.78767	9.37346	0.1837680	2.7390481	14	1	11 days	0.54	Williams	2000 DZ ₄₄
2000 DB ₄₅	14.7	0.15	20000226	24.85594	250.74674	233.55601	1.84365	0.1435468	2.9919366	13	1	11 days	0.35	Williams	2000 DB ₄₅
2000 DC ₄₅	13.3	0.15	20000226	342.71711	322.76810	216.83657	2.31382	0.1223909	4.0408999	22	1	11 days	1.08	Williams	2000 DC ₄₅
2000 DD ₄₅	16.4	0.15	20000226	257.05635	4.17815	271.70756	1.62144	0.1461468	2.5926300	14	1	11 days	0.83	Williams	2000 DD ₄₅
2000 DK ₄₅	14.1	0.15	20000226	57.28560	264.45989	178.34760	4.60776	0.1644273	3.0183070	15	1	11 days	0.53	Williams	2000 DK ₄₅
2000 DN ₄₅	14.9	0.15	20000226	307.44110	268.77935	313.34741	3.48017	0.1190914	2.6462125	17	1	11 days	0.39	Williams	2000 DN ₄₅
2000 DO ₄₅	14.0	0.15	20000206	97.77662	240.96042	164.48204	11.00986	0.0964680	2.9880229	25	1	34 days	0.55	Williams	2000 DO ₄₅
2000 DP ₄₅	13.4	0.15	20000226	118.85135	184.96561	204.53977	1.62434	0.0991997	2.7865534	13	1	11 days	0.41	Williams	2000 DP ₄₅
2000 DR ₄₅	14.3	0.15	20000226	132.62696	205.60635	166.65190	12.86137	0.1799588	2.9588800	18	1	11 days	0.82	Williams	2000 DR ₄₅
2000 DT ₄₅	14.7	0.15	20000226	35.64404	281.94280	197.68713	3.65414	0.0312959	2.7131106	13	1	11 days	0.49	Williams	2000 DT ₄₅
2000 DY ₄₅	15.5	0.15	20000226	274.88122	81.98134	172.35798	7.17944	0.1020808	2.4165440	18	1	11 days	0.52	Williams	2000 DY ₄₅
2000 DB ₄₆	15.6	0.15	20000226	343.32579	281.76838	258.75642	1.71215	0.1503222	2.4214635	15	1	11 days	0.32	Williams	2000 DB ₄₆
2000 DD ₄₆	14.3	0.15	20000226	211.84953	120.24031	190.35072	4.15428	0.0760683	2.7815104	14	1	11 days	0.51	Williams	2000 DD ₄₆
2000 DG ₄₆	15.4	0.15	20000226	322.92433	29.83927	174.83937	5.00206	0.1203375	2.4373730	15	1	11 days	0.56	Williams	2000 DG ₄₆
2000 DH ₄₆	15.1	0.15	20000226	330.62498	6.25307	187.14745	3.31227	0.0907053	2.7729748	12	1	11 days	0.69	Williams	2000 DH ₄₆
2000 DN ₄₆	13.0	0.15	20000226	214.78772	139.02273	169.52350	9.06262	0.0850981	2.9717995	15	1	11 days	0.36	Williams	2000 DN ₄₆
2000 DP ₄₆	16.2	0.15	20000226	310.79085	317.86939	261.00318	0.97210	0.1216160	2.2332541	14	1	11 days	0.59	Williams	2000 DP ₄₆

2000 DR ₄₆	18.0	0.15	20000226	314.81510	43.36489	167.79172	4.51201	0.0903654	2.2072166	15	1	11 days	0.50	Williams	2000 DR ₄₆
2000 DS ₄₆	14.8	0.15	20000226	92.86084	193.49470	223.08297	1.20706	0.0797995	2.9355170	14	1	11 days	0.33	Williams	2000 DS ₄₆
2000 DT ₄₆	17.1	0.15	20000226	325.47617	235.57078	324.04241	2.37822	0.0969864	2.2552411	14	1	11 days	0.55	Williams	2000 DT ₄₆
2000 DV ₄₆	16.2	0.15	20000226	329.00126	35.25367	166.06459	6.57238	0.1695555	2.6432813	22	1	11 days	0.64	Williams	2000 DV ₄₆
2000 DW ₄₆	14.3	0.15	20000226	137.62790	122.63666	246.78587	0.90444	0.1754044	2.8811859	18	1	11 days	0.60	Williams	2000 DW ₄₆
2000 DX ₄₆	14.1	0.15	20000226	90.22870	69.85892	334.53274	14.12667	0.2191468	2.6531763	14	1	11 days	0.50	Williams	2000 DX ₄₆
2000 DY ₄₆	13.8	0.15	20000226	85.85506	239.62568	179.67374	3.51283	0.1189896	2.7156046	15	1	11 days	0.36	Williams	2000 DY ₄₆
2000 DZ ₄₆	14.5	0.15	20000226	356.20239	211.35070	311.56283	2.65673	0.0320792	2.8090570	13	1	11 days	0.52	Williams	2000 DZ ₄₆
2000 DB ₄₇	17.0	0.15	20000226	323.70214	262.80526	305.25895	1.57165	0.1648037	2.3415329	18	1	11 days	0.58	Williams	2000 DB ₄₇
2000 DD ₄₇	15.3	0.15	20000226	314.08160	236.91206	332.11238	2.84367	0.0600815	2.7396949	18	1	11 days	0.61	Williams	2000 DD ₄₇
2000 DE ₄₇	13.4	0.15	20000226	125.74972	36.14560	337.09844	11.24057	0.2459493	3.0381693	12	1	11 days	0.45	Williams	2000 DE ₄₇
2000 DJ ₄₇	16.2	0.15	20000226	11.43066	336.21527	165.99918	1.97778	0.1572687	2.3871029	19	1	11 days	0.37	Williams	2000 DJ ₄₇
2000 DK ₄₇	17.4	0.15	20000226	349.87051	214.55557	318.79531	1.51348	0.1863816	2.6825825	12	1	4 days	0.53	E Williams	2000 DK ₄₇
2000 DP ₄₇	16.4	0.15	20000226	6.39950	319.35997	190.70140	0.87177	0.1301483	2.4364639	22	1	11 days	0.31	Williams	2000 DP ₄₇
2000 DR ₄₇	15.6	0.15	20000226	103.06599	253.73102	148.21911	3.48049	0.1193106	2.2573645	19	1	11 days	0.90	Williams	2000 DR ₄₇
2000 DS ₄₇	16.6	0.15	20000226	326.41329	60.02015	148.26563	2.18127	0.2127169	2.2951547	13	1	11 days	0.72	Williams	2000 DS ₄₇
2000 DT ₄₇	15.8	0.15	20000226	302.56670	248.31840	340.91855	5.88479	0.1314865	2.4699237	14	1	11 days	0.43	Williams	2000 DT ₄₇
2000 DV ₄₇	16.3	0.15	20000226	341.82293	24.72799	157.37779	7.71195	0.1379941	2.5214050	12	1	11 days	0.59	Williams	2000 DV ₄₇
2000 DX ₄₇	15.7	0.15	20000226	331.23048	187.53657	7.78100	1.15997	0.1343789	2.4339112	23	1	15 days	0.50	Williams	2000 DX ₄₇
2000 DB ₄₈	14.9	0.15	20000226	276.59810	272.03782	347.20594	5.71031	0.1538361	3.1034454	11	1	11 days	0.60	Williams	2000 DB ₄₈
2000 DF ₄₈	14.3	0.15	20000226	170.39317	352.81457	354.70222	1.95858	0.0399064	2.8639601	14	1	11 days	0.42	Williams	2000 DF ₄₈
2000 DG ₄₈	15.3	0.15	20000226	84.90998	70.90330	352.81972	2.40218	0.0855632	2.4075558	13	1	11 days	0.42	Williams	2000 DG ₄₈
2000 DK ₄₈	15.3	0.15	20000226	78.51534	263.21745	154.88992	7.55713	0.1910807	2.4121954	16	1	6 days	0.53	E Williams	2000 DK ₄₈
2000 DL ₄₈	13.9	0.15	20000226	83.90543	84.78746	343.75062	7.44018	0.0559129	3.1224921	14	1	11 days	0.49	Williams	2000 DL ₄₈
2000 DM ₄₈	14.2	0.15	20000226	267.72899	126.39284	142.05928	1.62145	0.1532282	3.2338852	19	1	11 days	0.44	Williams	2000 DM ₄₈
2000 DN ₄₈	14.8	0.15	20000226	130.32089	214.57202	155.20905	8.77508	0.2680876	2.3125334	15	1	11 days	0.53	Williams	2000 DN ₄₈
2000 DT ₄₈	15.9	0.15	20000226	97.81851	202.78411	206.36916	0.71569	0.0671263	2.3540857	12	1	4 days	0.50	E Williams	2000 DT ₄₈
2000 DA ₄₉	16.7	0.15	20000226	337.11303	37.68720	143.38547	2.74536	0.0746286	2.2261309	13	1	5 days	0.51	E Williams	2000 DA ₄₉
2000 DF ₄₉	14.5	0.15	20000226	261.63744	104.27653	152.83569	10.42418	0.0364325	3.1219181	13	1	5 days	0.59	E Williams	2000 DF ₄₉
2000 DJ ₄₉	13.3	0.15	20000226	189.82243	175.09844	152.88741	24.75672	0.1794482	3.1988504	18	1	11 days	0.37	Williams	2000 DJ ₄₉
2000 DP ₄₉	16.0	0.15	20000226	10.69826	143.26645	358.44946	1.53082	0.1387266	2.6956962	15	1	11 days	0.53	Williams	2000 DP ₄₉
2000 DU ₄₉	15.4	0.15	20000226	359.01581	351.03397	165.54453	14.70331	0.0383175	2.6171821	11	1	11 days	0.63	Williams	2000 DU ₄₉
2000 DV ₄₉	14.9	0.15	20000226	22.91101	164.84946	322.74109	8.64522	0.1103489	2.7987930	18	1	5 days	0.50	E Williams	2000 DV ₄₉
2000 DA ₅₀	14.0	0.15	20000226	107.10767	58.45166	327.54467	2.30160	0.2445851	2.8967844	17	1	11 days	0.43	Williams	2000 DA ₅₀
2000 DC ₅₀	13.9	0.15	20000226	127.51619	259.00216	111.57678	1.80552	0.2295252	3.0873810	13	1	5 days	0.66	E Williams	2000 DC ₅₀
2000 DK ₅₀	14.6	0.15	20000226	15.34670	311.07441	190.50078	2.51841	0.0198622	2.7549420	16	1	11 days	0.55	Williams	2000 DK ₅₀
2000 DP ₅₀	15.4	0.15	20000226	56.95736	247.92039	194.81179	1.94656	0.1732833	2.3150663	17	1	11 days	0.35	Williams	2000 DP ₅₀
2000 DQ ₅₀	16.6	0.15	20000226	294.52851	69.04790	172.23959	2.84550	0.1559892	2.4768078	12	1	4 days	0.58	E Williams	2000 DQ ₅₀
2000 DB ₅₁	14.6	0.15	20000226	191.34898	187.98208	141.48287	3.90202	0.1322956	2.5780709	17	1	11 days	0.63	Williams	2000 DB ₅₁
2000 DD ₅₁	14.5	0.15	20000226	152.04764	15.64807	344.74373	13.66009	0.1169950	2.6098010	30	1	11 days	0.65	Williams	2000 DD ₅₁
2000 DE ₅₁	16.4	0.15	20000226	355.27673	17.30942	146.34206	5.84941	0.0792961	2.6011461	27	1	15 days	0.67	Williams	2000 DE ₅₁
2000 DF ₅₁	16.3	0.15	20000226	329.64941	197.28525	358.10791	2.92553	0.1078267	2.2745628	19	1	11 days	0.41	Williams	2000 DF ₅₁
2000 DH ₅₁	14.9	0.15	20000226	37.30083	92.14583	25.51648	1.98144	0.0445849	2.8418799	25	1	11 days	0.52	Williams	2000 DH ₅₁
2000 DJ ₅₁	14.8	0.15	20000226	162.42714	200.96940	152.07651	10.27815	0.1041482	3.0589554	24	1	13 days	0.65	Williams	2000 DJ ₅₁
2000 DK ₅₁	16.0	0.15	20000226	326.36040	199.46936	0.87719	3.10191	0.1174853	2.5437403	44	1	15 days	0.35	Williams	2000 DK ₅₁
2000 DL ₅₁	15.5	0.15	20000226	71.80755	16.70952	56.84660	1.51744	0.1152530	2.6221083	29	1	11 days	0.58	Williams	2000 DL ₅₁
2000 DN ₅₁	13.8	0.15	20000226	189.79214	187.34045	143.97123	4.47227	0.1359893	2.7768080	32	1	11 days	0.55	Williams	2000 DN ₅₁
2000 DO ₅₁	16.4	0.15	20000226	349.35710	29.93810	144.63203	4.72157	0.2025324	2.5493177	37	1	15 days	0.56	Williams	2000 DO ₅₁
2000 DR ₅₁	13.2	0.15	20000226	144.24589	259.65119	102.35484	2.04794	0.2441182	3.1320052	13	1	4 days	0.70	E Williams	2000 DR ₅₁
2000 DS ₅₁	14.2	0.15	20000226	9.63340	129.97463	17.90779	0.96832	0.0709858	3.1765834	18	1	11 days	0.46	Williams	2000 DS ₅₁
2000 DW ₅₁	13.0	0.15	20000226	151.11064	217.82517	147.64244	3.06761	0.0558658	2.9158756	15	1	11 days	0.22	Williams	2000 DW ₅₁
2000 DX ₅₁	16.3	0.15	20000226	329.43710	48.83098	150.52412	3.72698	0.1445883	2.2710375	13	1	11 days	0.53	Williams	2000 DX ₅₁
2000 DY ₅₁	13.6	0.15	20000226	214.95172	163.67261	155.75055	17.21488	0.2878174	2.9398089	17	1	11 days	0.47	Williams	2000 DY ₅₁

2000 MAR. 20

M.P.C. 39615

2000 DZ ₅₁	16.0	0.15	20000226	345.46959	32.89143	146.47334	2.18560	0.1618302	2.3550102	14	1	11 days	0.49	Williams	2000 DZ ₅₁
2000 DA ₅₂	15.2	0.15	20000226	256.72632	282.63356	359.50348	2.62061	0.1862155	2.3618454	13	1	11 days	0.35	Williams	2000 DA ₅₂
2000 DB ₅₂	15.4	0.15	20000226	39.98385	304.61743	155.11982	7.67207	0.2162944	2.5979433	19	1	11 days	1.00	Williams	2000 DB ₅₂
2000 DC ₅₂	13.6	0.15	20000226	185.42972	346.91102	349.03088	5.72190	0.1774563	2.5579592	14	1	11 days	0.49	Williams	2000 DC ₅₂
2000 DD ₅₂	14.0	0.15	20000226	319.16344	44.96860	157.31146	16.51827	0.0183601	3.0947833	25	1	30 days	0.48	Williams	2000 DD ₅₂
2000 DE ₅₂	13.9	0.15	20000226	4.09038	112.42483	42.21179	1.45886	0.0999026	3.1586049	22	1	29 days	0.26	Williams	2000 DE ₅₂
2000 DL ₅₂	14.3	0.15	20000226	53.41237	119.31489	341.63768	9.41851	0.0519435	3.1530946	17	1	11 days	0.41	Williams	2000 DL ₅₂
2000 DM ₅₂	18.3	0.15	20000226	347.46124	1.72329	174.26415	0.59788	0.1514891	2.1750541	12	1	4 days	0.54	E Williams	2000 DM ₅₂
2000 DN ₅₂	15.3	0.15	20000226	304.94329	235.25017	342.73263	4.81563	0.0359545	2.7081031	16	1	11 days	0.72	Williams	2000 DN ₅₂
2000 DP ₅₂	14.5	0.15	20000226	142.07737	13.23981	354.30777	2.26946	0.1677069	2.8129048	18	1	11 days	0.56	Williams	2000 DP ₅₂
2000 DS ₅₂	15.2	0.15	20000226	227.81789	131.98993	164.88641	13.88654	0.0713843	2.6044936	17	1	11 days	0.58	Williams	2000 DS ₅₂
2000 DU ₅₂	15.2	0.15	20000226	97.19518	239.82973	165.20220	11.72998	0.1545948	2.3096349	16	1	11 days	0.36	Williams	2000 DU ₅₂
2000 DW ₅₂	17.5	0.15	20000226	327.42021	40.15199	165.58132	4.57916	0.1888502	2.3138669	21	1	11 days	0.48	Williams	2000 DW ₅₂
2000 DX ₅₂	14.4	0.15	20000226	231.08291	107.25792	193.01707	1.97358	0.1443013	2.7178863	26	1	11 days	0.48	Williams	2000 DX ₅₂
2000 DY ₅₂	15.1	0.15	20000226	167.49948	182.27535	166.77569	12.71173	0.1007143	2.3832010	19	1	11 days	0.44	Williams	2000 DY ₅₂
2000 DZ ₅₂	13.9	0.15	20000226	143.21088	181.44652	182.30997	3.92490	0.2196480	2.5505734	12	1	11 days	0.36	Williams	2000 DZ ₅₂
2000 DA ₅₃	15.7	0.15	20000226	338.59003	309.08536	239.14620	1.63382	0.1559368	2.4257421	14	1	11 days	0.44	Williams	2000 DA ₅₃
2000 DB ₅₃	16.6	0.15	20000226	98.29624	248.39110	165.67214	13.55309	0.0592736	2.7003917	16	1	15 days	0.49	Williams	2000 DB ₅₃
2000 DC ₅₃	14.0	0.15	20000226	180.01919	169.99713	169.29016	11.48617	0.0363369	3.0325682	13	1	11 days	0.49	Williams	2000 DC ₅₃
2000 DE ₅₃	15.6	0.15	20000226	292.36029	52.67183	191.02828	2.86498	0.1493816	2.3956394	14	1	11 days	0.30	Williams	2000 DE ₅₃
2000 DG ₅₃	15.9	0.15	20000226	77.58030	260.90849	175.37217	4.68574	0.0481366	2.1950930	14	1	11 days	0.35	Williams	2000 DG ₅₃
2000 DH ₅₃	13.7	0.15	20000226	203.76852	351.14500	326.97072	7.15369	0.0407920	3.0813222	18	1	11 days	0.35	Williams	2000 DH ₅₃
2000 DJ ₅₃	15.9	0.15	20000226	328.94460	321.90571	238.26344	1.76418	0.1458335	2.4130030	19	1	11 days	0.37	Williams	2000 DJ ₅₃
2000 DK ₅₃	14.4	0.15	20000226	57.21839	261.20242	170.48928	11.03171	0.2703177	2.7856433	14	1	11 days	0.35	Williams	2000 DK ₅₃
2000 DL ₅₃	12.4	0.15	20000226	158.01752	187.31494	168.84521	18.16336	0.1483803	3.1906249	12	1	11 days	0.38	Williams	2000 DL ₅₃
2000 DM ₅₃	15.5	0.15	20000226	3.70308	195.04123	320.52332	6.59148	0.0415750	2.4105938	13	1	11 days	0.58	Williams	2000 DM ₅₃
2000 DO ₅₃	14.1	0.15	20000226	252.08882	103.32969	192.82153	5.17602	0.3005902	2.8496845	18	1	11 days	0.42	Williams	2000 DO ₅₃
2000 DQ ₅₃	14.1	0.15	20000226	118.83487	143.14364	253.11467	2.19712	0.0541270	2.7066691	14	1	11 days	0.37	Williams	2000 DQ ₅₃
2000 DS ₅₃	13.3	0.15	20000226	50.03141	286.04318	169.88761	12.17279	0.1453521	3.2429917	18	1	11 days	0.35	Williams	2000 DS ₅₃
2000 DV ₅₃	15.3	0.15	20000206	41.09593	275.78270	189.27738	3.92048	0.1042230	2.5547635	28	1	38 days	0.47	Williams	2000 DV ₅₃
2000 DY ₅₃	14.3	0.15	20000226	342.29180	216.03524	323.81484	3.81423	0.0607387	2.9899999	13	1	11 days	0.56	Williams	2000 DY ₅₃
2000 DZ ₅₃	15.0	0.15	20000226	112.63910	107.83441	290.95062	1.87775	0.0856674	2.6959706	17	1	11 days	0.57	Williams	2000 DZ ₅₃
2000 DA ₅₄	14.2	0.15	20000226	221.98766	128.72807	177.94906	3.48029	0.1270049	2.5900386	16	1	11 days	0.48	Williams	2000 DA ₅₄
2000 DE ₅₄	15.8	0.15	20000226	98.09239	95.57763	324.02646	4.96943	0.0260628	2.7093636	17	1	11 days	0.36	Williams	2000 DE ₅₄
2000 DF ₅₄	14.3	0.15	20000226	184.02145	170.41496	166.96199	13.65364	0.0854034	2.7519593	18	1	11 days	0.43	Williams	2000 DF ₅₄
2000 DG ₅₄	15.7	0.15	20000226	241.45057	119.63902	174.47478	2.85250	0.1679600	2.2038287	33	1	11 days	0.44	Williams	2000 DG ₅₄
2000 DH ₅₄	14.7	0.15	20000226	256.52041	121.55420	166.99468	14.35649	0.2389469	2.7763073	25	1	11 days	0.59	Williams	2000 DH ₅₄
2000 DJ ₅₄	16.4	0.15	20000226	319.27303	33.98311	182.21838	1.99880	0.1753949	2.3324555	17	1	11 days	0.42	Williams	2000 DJ ₅₄
2000 DL ₅₄	16.1	0.15	20000226	354.55966	0.48812	165.82243	5.14946	0.0942751	2.7704000	30	1	15 days	0.42	Williams	2000 DL ₅₄
2000 DM ₅₄	14.7	0.15	20000226	81.19518	97.59147	334.72515	5.03592	0.0567809	2.7527986	15	1	11 days	0.72	Williams	2000 DM ₅₄
2000 DN ₅₄	14.0	0.15	20000226	254.62803	301.96947	335.05591	5.77800	0.1072011	3.1690061	23	1	11 days	0.55	Williams	2000 DN ₅₄
2000 DO ₅₄	15.9	0.15	20000226	220.41323	139.28255	166.65348	6.16771	0.0930791	2.4134662	30	1	15 days	0.44	Williams	2000 DO ₅₄
2000 DP ₅₄	14.3	0.15	20000226	329.90736	31.26203	162.22794	10.92530	0.0551511	3.1102013	35	1	11 days	0.52	Williams	2000 DP ₅₄
2000 DQ ₅₄	15.0	0.15	20000226	66.95522	114.03214	335.21301	3.85739	0.0353998	2.5417029	21	1	11 days	0.94	Williams	2000 DQ ₅₄
2000 DR ₅₄	15.0	0.15	20000226	193.77684	357.98026	329.82894	1.48998	0.0469243	2.9809416	17	1	11 days	0.61	Williams	2000 DR ₅₄
2000 DU ₅₄	16.1	0.15	20000226	311.63836	51.20466	167.58560	1.80662	0.1040631	3.1509906	21	1	15 days	0.50	Williams	2000 DU ₅₄
2000 DV ₅₄	13.9	0.15	20000226	120.85165	204.51951	191.16899	1.12376	0.0480558	3.2185309	22	1	11 days	0.51	Williams	2000 DV ₅₄
2000 DW ₅₄	15.0	0.15	20000226	302.11346	242.69859	345.63721	4.39918	0.1042141	2.5321377	14	1	11 days	0.59	Williams	2000 DW ₅₄
2000 DY ₅₄	14.2	0.15	20000226	128.48129	31.23278	351.40450	1.50038	0.1097227	2.5628632	12	1	11 days	0.50	Williams	2000 DY ₅₄
2000 DZ ₅₄	14.9	0.15	20000226	79.28867	61.03004	357.47511	1.75018	0.2000425	3.1027198	17	1	11 days	0.52	Williams	2000 DZ ₅₄
2000 DB ₅₅	14.4	0.15	20000226	127.36550	223.22005	157.50952	17.67912	0.1508607	2.7611475	18	1	11 days	0.39	Williams	2000 DB ₅₅
2000 DC ₅₅	14.7	0.15	20000226	100.38355	40.01773	14.66582	2.13985	0.0442861	2.8772757	17	1	11 days	0.40	Williams	2000 DC ₅₅
2000 DD ₅₅	14.6	0.15	20000226	358.91611	117.21790	43.99235	1.48980	0.1317832	3.0275762	14	1	11 days	0.43	Williams	2000 DD ₅₅

2000 DE ₅₅	15.6	0.15	20000226	331.53438	61.87949	136.97007	1.98892	0.1632013	2.4252108	14	1	11 days	0.25	Williams	2000 DE ₅₅
2000 DF ₅₅	14.4	0.15	20000226	264.77653	121.93617	152.41357	9.11998	0.1717835	2.6807627	14	1	11 days	0.39	Williams	2000 DF ₅₅
2000 DL ₅₅	14.8	0.15	20000226	77.35635	298.97748	123.04438	2.31151	0.1845956	3.0637398	21	1	11 days	0.44	Williams	2000 DL ₅₅
2000 DM ₅₅	15.3	0.15	20000226	19.97441	358.13212	136.87352	2.77781	0.1090557	2.3513034	38	1	29 days	0.48	Williams	2000 DM ₅₅
2000 DQ ₅₅	15.8	0.15	20000226	335.01467	212.41148	344.87759	8.42468	0.1947535	2.7657525	20	1	11 days	0.38	Williams	2000 DQ ₅₅
2000 DR ₅₅	17.4	0.15	20000226	35.50127	122.92619	346.32964	7.97515	0.1893210	2.5245024	17	1	15 days	0.35	Williams	2000 DR ₅₅
2000 DS ₅₅	13.8	0.15	20000226	156.36273	200.16964	158.88707	12.46393	0.1544078	2.9382341	12	1	11 days	0.36	Williams	2000 DS ₅₅
2000 DT ₅₅	15.7	0.15	20000226	245.80833	142.45772	151.01391	5.44439	0.1973961	2.4438726	22	1	11 days	0.55	Williams	2000 DT ₅₅
2000 DU ₅₅	14.3	0.15	20000226	169.15327	206.90618	143.00376	1.54244	0.1428299	3.2347005	18	1	15 days	0.67	Williams	2000 DU ₅₅
2000 DV ₅₅	14.1	0.15	20000226	217.34135	318.94025	353.01964	4.60668	0.1338837	2.6978342	19	1	11 days	0.48	Williams	2000 DV ₅₅
2000 DW ₅₅	14.4	0.15	20000226	133.08694	13.65206	12.96545	1.49433	0.0181011	2.9768533	24	1	11 days	0.43	Williams	2000 DW ₅₅
2000 DX ₅₅	14.3	0.15	20000226	72.60908	292.15898	148.89826	3.96635	0.0658089	2.7864163	27	1	11 days	0.42	Williams	2000 DX ₅₅
2000 DA ₅₆	15.4	0.15	20000226	110.23801	40.69259	3.37493	3.13318	0.0636871	2.6110961	31	1	29 days	0.45	Williams	2000 DA ₅₆
2000 DC ₅₆	15.4	0.15	20000226	106.12148	59.69910	345.25329	12.98550	0.0959740	2.6336368	21	1	11 days	0.63	Williams	2000 DC ₅₆
2000 DD ₅₆	14.5	0.15	20000226	265.69354	184.76612	90.56772	0.92595	0.1814372	2.3644992	19	1	11 days	0.34	Williams	2000 DD ₅₆
2000 DE ₅₆	15.2	0.15	20000226	222.81311	306.71465	4.11864	2.94678	0.1898709	2.1789377	17	1	11 days	0.69	Williams	2000 DE ₅₆
2000 DF ₅₆	14.5	0.15	20000226	140.42218	221.78821	157.35240	8.13988	0.0328620	3.0079088	24	1	11 days	0.38	Williams	2000 DF ₅₆
2000 DG ₅₆	16.0	0.15	20000226	321.50898	54.17632	156.51020	5.53450	0.1351195	2.5561249	29	1	14 days	0.57	Williams	2000 DG ₅₆
2000 DH ₅₆	15.4	0.15	20000226	273.27467	262.72113	351.51847	4.90074	0.0522650	2.6767823	23	1	15 days	0.40	Williams	2000 DH ₅₆
2000 DK ₅₆	14.6	0.15	20000226	245.20564	124.82798	163.39460	13.23505	0.1238491	3.2228138	26	1	15 days	0.37	Williams	2000 DK ₅₆
2000 DM ₅₆	15.0	0.15	20000226	277.49755	94.20471	162.89699	11.46196	0.1153093	2.7096881	18	1	11 days	0.44	Williams	2000 DM ₅₆
2000 DO ₅₆	15.3	0.15	20000226	161.01155	9.66928	346.58893	5.02675	0.1282391	2.6232087	21	1	15 days	0.51	Williams	2000 DO ₅₆
2000 DP ₅₆	16.5	0.15	20000226	338.30475	24.41418	166.01900	2.16135	0.1557649	2.4445433	19	1	11 days	0.53	Williams	2000 DP ₅₆
2000 DQ ₅₆	14.4	0.15	20000226	181.22378	181.80944	159.07030	4.30270	0.2584146	2.3099471	13	1	11 days	0.55	Williams	2000 DQ ₅₆
2000 DR ₅₆	14.8	0.15	20000226	191.80040	350.27206	342.43765	15.56949	0.1444684	2.4872811	14	1	11 days	0.50	Williams	2000 DR ₅₆
2000 DT ₅₆	15.5	0.15	20000226	276.15775	96.54303	162.45534	9.36392	0.1194278	2.5925028	13	1	11 days	0.43	Williams	2000 DT ₅₆
2000 DW ₅₆	15.0	0.15	20000226	10.88033	337.64084	168.61705	5.62981	0.1414610	3.2066681	22	1	11 days	0.66	Williams	2000 DW ₅₆
2000 DX ₅₆	15.2	0.15	20000226	283.75462	268.18450	334.50789	4.71548	0.0485898	2.7661515	18	1	11 days	0.47	Williams	2000 DX ₅₆
2000 DA ₅₇	14.7	0.15	20000226	281.49122	272.20796	334.57748	4.15557	0.0629113	2.6526685	24	1	11 days	0.37	Williams	2000 DA ₅₇
2000 DB ₅₇	15.5	0.15	20000226	173.29494	171.28383	175.99944	4.42587	0.0563110	2.4378431	14	1	11 days	0.45	Williams	2000 DB ₅₇
2000 DD ₅₇	16.0	0.15	20000226	275.01560	85.91478	172.51318	5.13617	0.1060694	2.6027060	17	1	11 days	0.62	Williams	2000 DD ₅₇
2000 DF ₅₇	16.4	0.15	20000226	24.21551	183.74029	302.37021	1.06426	0.1801919	2.7384960	17	1	6 days	0.29	E Williams	2000 DF ₅₇
2000 DG ₅₇	16.0	0.15	20000226	294.48835	265.22406	333.31382	5.64639	0.1079393	2.4447578	16	1	11 days	0.57	Williams	2000 DG ₅₇
2000 DJ ₅₇	14.5	0.15	20000226	215.56182	102.02909	207.94509	1.37653	0.0584648	2.8506438	14	1	11 days	0.28	Williams	2000 DJ ₅₇
2000 DK ₅₇	17.1	0.15	20000226	328.27277	223.28665	333.33288	4.65513	0.0625523	2.2040458	17	1	11 days	0.58	Williams	2000 DK ₅₇
2000 DL ₅₇	15.6	0.15	20000226	116.79709	140.29906	258.51493	0.98495	0.0660538	2.8587930	18	1	11 days	0.36	Williams	2000 DL ₅₇
2000 DM ₅₇	16.8	0.15	20000226	19.98342	315.59355	173.76024	5.46746	0.2050844	2.3021783	14	1	11 days	0.41	Williams	2000 DM ₅₇
2000 DN ₅₇	16.1	0.15	20000226	13.04086	188.32907	312.59379	3.00429	0.1978121	2.9009827	28	1	11 days	0.49	Williams	2000 DN ₅₇
2000 DP ₅₇	14.7	0.15	20000226	299.30919	12.24383	228.30741	1.96636	0.1690757	2.7912169	16	1	5 days	0.48	E Williams	2000 DP ₅₇
2000 DQ ₅₇	15.1	0.15	20000226	299.73292	319.28779	292.77859	2.31274	0.2680669	2.7029044	30	1	15 days	0.39	Williams	2000 DQ ₅₇
2000 DR ₅₇	15.3	0.15	20000226	346.79613	359.17337	177.43150	6.04517	0.0782181	2.5492177	22	1	11 days	0.51	Williams	2000 DR ₅₇
2000 DS ₅₇	15.9	0.15	20000226	14.20246	171.75330	329.83721	7.33310	0.1588791	2.7373168	24	1	15 days	0.45	Williams	2000 DS ₅₇
2000 DU ₅₇	15.8	0.15	20000226	336.14685	21.02394	168.79270	13.82942	0.0886042	2.7153926	17	1	11 days	0.43	Williams	2000 DU ₅₇
2000 DV ₅₇	16.3	0.15	20000226	48.42531	221.03269	234.43790	1.35199	0.1755665	2.4477215	29	1	15 days	0.43	Williams	2000 DV ₅₇
2000 DY ₅₇	14.1	0.15	20000226	206.43931	16.16971	307.41880	3.82465	0.1973357	2.2283867	14	1	11 days	0.40	Williams	2000 DY ₅₇
2000 DC ₅₈	15.9	0.15	20000226	358.40961	316.34629	207.09155	2.61843	0.1440333	2.6057398	18	1	11 days	0.60	Williams	2000 DC ₅₈
2000 DD ₅₈	14.3	0.15	20000226	73.55324	215.44087	220.31740	2.24926	0.1108886	2.7718172	19	1	5 days	0.58	E Williams	2000 DD ₅₈
2000 DF ₅₈	13.0	0.15	20000226	172.99616	19.46766	328.99511	9.10515	0.1093627	3.1194589	13	1	11 days	0.46	Williams	2000 DF ₅₈
2000 DH ₅₈	14.9	0.15	20000226	53.37997	276.76800	173.09618	11.55816	0.1779239	2.7482653	12	1	11 days	0.62	Williams	2000 DH ₅₈
2000 DJ ₅₈	15.3	0.15	20000226	316.15649	270.09114	301.19090	3.32102	0.0625022	2.7578389	13	1	11 days	0.39	Williams	2000 DJ ₅₈
2000 DK ₅₈	14.9	0.15	20000226	253.78864	86.53385	202.80552	3.38551	0.2092130	2.3906875	18	1	11 days	0.40	Williams	2000 DK ₅₈
2000 DL ₅₈	14.4	0.15	20000226	143.58846	56.26695	318.49549	4.89267	0.0637049	2.7435233	12	1	11 days	0.38	Williams	2000 DL ₅₈
2000 DM ₅₈	15.3	0.15	20000226	84.24103	97.59861	327.45445	8.60738	0.1194392	2.9574081	12	1	11 days	0.46	Williams	2000 DM ₅₈

2000 MAR. 20

M.P.C. 39617

2000 DN ₅₈	16.9	0.15	20000226	314.86014	344.66093	234.71233	1.43405	0.1394643	2.2616730	21	1	14 days	0.41	Williams	2000 DN ₅₈
2000 DO ₅₈	14.1	0.15	20000226	130.09797	210.82029	175.21465	9.72857	0.0842015	3.0655699	21	1	11 days	0.45	Williams	2000 DO ₅₈
2000 DQ ₅₈	15.5	0.15	20000226	296.09600	56.87913	176.83813	4.12625	0.0746428	2.7200688	14	1	11 days	0.49	Williams	2000 DQ ₅₈
2000 DR ₅₈	16.3	0.15	20000226	308.95075	263.16451	329.62368	3.95903	0.1986206	2.3931934	23	1	14 days	0.43	Williams	2000 DR ₅₈
2000 DT ₅₈	15.5	0.15	20000226	350.82219	208.36063	326.28362	3.59864	0.1770312	2.5983386	22	1	14 days	0.41	Williams	2000 DT ₅₈
2000 DU ₅₈	14.3	0.15	20000226	266.28523	111.24790	168.54612	8.89739	0.2213303	2.4324235	26	1	14 days	0.43	Williams	2000 DU ₅₈
2000 DV ₅₈	16.9	0.15	20000226	357.20037	348.38315	176.55534	2.99285	0.1283990	2.3857730	21	1	15 days	0.34	Williams	2000 DV ₅₈
2000 DW ₅₈	14.0	0.15	20000226	198.20020	351.74990	335.62784	9.78963	0.0775400	3.0655629	19	1	11 days	0.34	Williams	2000 DW ₅₈
2000 DA ₅₉	15.4	0.15	20000226	162.90437	17.63296	338.35720	9.22678	0.1305420	2.4539340	16	1	11 days	0.54	Williams	2000 DA ₅₉
2000 DC ₅₉	15.1	0.15	20000226	190.59605	170.88157	164.55353	10.86849	0.2347789	2.7593807	14	1	12 days	1.07	Williams	2000 DC ₅₉
2000 DE ₅₉	14.9	0.15	20000226	102.29245	229.10938	175.12575	1.50749	0.1467627	2.9865254	25	1	11 days	0.42	Williams	2000 DE ₅₉
2000 DF ₅₉	15.4	0.15	20000226	233.42557	10.92443	283.41740	0.60823	0.0668361	2.6109989	23	1	13 days	0.47	Williams	2000 DF ₅₉
2000 DG ₅₉	14.8	0.15	20000226	319.69174	240.37650	339.16630	12.63597	0.1929359	3.0579670	18	1	11 days	0.52	Williams	2000 DG ₅₉
2000 DH ₅₉	14.5	0.15	20000226	95.62792	249.65097	165.85655	10.74926	0.0984844	3.0005433	38	1	15 days	0.46	Williams	2000 DH ₅₉
2000 DL ₅₉	16.3	0.15	20000226	275.66629	93.94670	169.00676	2.65606	0.1483488	2.3753880	32	1	13 days	0.54	Williams	2000 DL ₅₉
2000 DM ₅₉	17.0	0.15	20000226	283.67618	298.42756	316.70515	0.76205	0.1489468	2.3824142	21	1	11 days	0.50	Williams	2000 DM ₅₉
2000 DN ₅₉	16.9	0.15	20000226	31.44774	183.14905	295.31201	0.79510	0.1586210	2.2835511	20	1	11 days	0.58	Williams	2000 DN ₅₉
2000 DO ₅₉	15.0	0.15	20000226	266.08457	278.65694	341.77978	13.05135	0.0345364	3.1131478	20	1	11 days	0.52	Williams	2000 DO ₅₉
2000 DQ ₅₉	15.8	0.15	20000226	84.69285	123.13046	293.78404	0.45090	0.1794732	2.3771416	28	1	15 days	0.43	Williams	2000 DQ ₅₉
2000 DR ₅₉	17.0	0.15	20000226	43.42639	304.95572	166.21001	11.46273	0.0885900	2.6190284	18	1	15 days	0.61	Williams	2000 DR ₅₉
2000 DS ₅₉	15.7	0.15	20000226	337.68553	19.27534	169.82715	5.25900	0.0936122	2.7189449	23	1	15 days	0.43	Williams	2000 DS ₅₉
2000 DT ₅₉	15.0	0.15	20000226	186.29536	169.41647	167.41090	1.52616	0.0366653	2.9432898	26	1	11 days	0.75	Williams	2000 DT ₅₉
2000 DU ₅₉	16.7	0.15	20000226	45.31580	132.10404	338.44013	6.57663	0.0689801	2.2646582	15	1	11 days	0.38	Williams	2000 DU ₅₉
2000 DW ₅₉	16.6	0.15	20000226	294.19006	242.25198	359.82065	1.53209	0.1352456	2.4662546	20	1	15 days	0.34	Williams	2000 DW ₅₉
2000 DX ₅₉	14.3	0.15	20000226	310.07756	243.92518	344.45007	12.46389	0.1665631	3.1918357	27	1	29 days	0.41	Williams	2000 DX ₅₉
2000 DY ₅₉	14.5	0.15	20000226	175.44829	185.03326	160.40900	3.52633	0.2439366	2.6406734	21	1	11 days	1.04	Williams	2000 DY ₅₉
2000 DZ ₅₉	17.0	0.15	20000226	343.99214	188.58128	353.16542	2.74544	0.1280860	2.3609295	21	1	15 days	0.39	Williams	2000 DZ ₅₉
2000 DA ₆₀	14.9	0.15	20000226	216.80760	291.14111	21.37482	0.47269	0.1118469	2.8541157	22	1	11 days	0.81	Williams	2000 DA ₆₀
2000 DC ₆₀	17.1	0.15	20000226	358.40908	2.47102	160.67052	1.03059	0.1557294	2.2867464	22	1	11 days	0.81	Williams	2000 DC ₆₀
2000 DD ₆₀	15.5	0.15	20000226	182.48079	177.71681	163.11002	14.42001	0.1270510	2.9878058	12	1	15 days	0.51	Williams	2000 DD ₆₀
2000 DG ₆₀	14.9	0.15	20000226	17.35414	340.52680	161.74207	6.51730	0.0774578	3.1108579	18	1	11 days	0.39	Williams	2000 DG ₆₀
2000 DH ₆₀	16.2	0.15	20000226	48.57989	309.72103	156.13117	4.00609	0.0770872	2.2492930	18	1	11 days	0.33	Williams	2000 DH ₆₀
2000 DJ ₆₀	15.8	0.15	20000226	337.07548	57.97243	130.10520	1.26507	0.0557130	3.1665154	13	1	15 days	0.46	Williams	2000 DJ ₆₀
2000 DM ₆₀	16.3	0.15	20000226	50.41608	99.21836	350.67383	2.92797	0.2093855	2.5335870	18	1	11 days	0.44	Williams	2000 DM ₆₀
2000 DN ₆₀	14.9	0.15	20000226	14.83337	151.99612	353.47937	3.88972	0.0632443	2.7597886	12	1	11 days	0.39	Williams	2000 DN ₆₀
2000 DO ₆₀	15.0	0.15	20000226	23.12775	145.90414	348.97508	4.79278	0.0949130	3.1778093	22	1	11 days	0.44	Williams	2000 DO ₆₀
2000 DP ₆₀	15.4	0.15	20000226	315.08042	65.18251	155.48298	11.99241	0.1533086	3.0429474	18	1	15 days	0.41	Williams	2000 DP ₆₀
2000 DQ ₆₀	15.5	0.15	20000226	356.27792	107.44618	57.99983	1.32491	0.1510143	2.3242818	17	1	12 days	0.27	Williams	2000 DQ ₆₀
2000 DR ₆₀	13.7	0.15	20000226	191.76270	328.79630	4.83842	5.35526	0.2071988	2.6409308	13	1	12 days	0.72	Williams	2000 DR ₆₀
2000 DT ₆₀	14.1	0.15	20000226	238.24932	154.83364	137.83699	4.18100	0.1044106	2.5432936	13	1	12 days	0.25	Williams	2000 DT ₆₀
2000 DV ₆₀	16.2	0.15	20000226	333.89581	71.16242	123.63692	1.94339	0.1325751	2.3502364	14	1	12 days	0.41	Williams	2000 DV ₆₀
2000 DW ₆₀	15.3	0.15	20000226	188.70055	339.35448	355.74466	5.85078	0.1492184	2.2570506	12	1	11 days	0.31	Williams	2000 DW ₆₀
2000 DX ₆₀	15.2	0.15	20000226	292.85284	73.77763	159.35411	17.40413	0.0351580	2.8601550	26	1	15 days	0.40	Williams	2000 DX ₆₀
2000 DY ₆₀	14.9	0.15	20000226	308.98407	88.96716	133.43537	2.10881	0.0958650	3.1357616	17	1	11 days	0.39	Williams	2000 DY ₆₀
2000 DZ ₆₀	14.1	0.15	20000226	46.22855	107.51234	359.37539	4.35683	0.0967420	2.8620211	14	1	11 days	0.21	Williams	2000 DZ ₆₀
2000 DA ₆₁	15.8	0.15	20000226	341.13681	147.19955	38.77326	1.72695	0.1211888	3.1394081	20	1	11 days	0.62	Williams	2000 DA ₆₁
2000 DB ₆₁	16.4	0.15	20000226	359.23487	25.21985	136.90082	2.93530	0.1410719	2.4073439	13	1	11 days	0.32	Williams	2000 DB ₆₁
2000 DC ₆₁	13.2	0.15	20000226	193.90088	297.32821	33.93519	2.01673	0.0998091	3.0362384	13	1	11 days	0.45	Williams	2000 DC ₆₁
2000 DE ₆₁	15.8	0.15	20000226	16.00190	134.71279	5.75228	3.34427	0.1334794	2.5451604	29	1	34 days	0.61	Williams	2000 DE ₆₁
2000 DF ₆₁	15.5	0.15	20000226	124.47287	345.79175	37.33137	1.35737	0.1883470	2.9899813	16	1	15 days	0.46	Williams	2000 DF ₆₁
2000 DG ₆₁	13.3	0.15	20000226	204.99716	274.71366	53.41501	1.43218	0.2583055	3.0434537	18	1	11 days	0.55	Williams	2000 DG ₆₁
2000 DK ₆₁	16.5	0.15	20000226	42.11639	111.81161	350.61155	3.09997	0.1897580	2.3599036	12	1	11 days	0.61	Williams	2000 DK ₆₁
2000 DL ₆₁	14.8	0.15	20000226	19.47420	356.35329	146.95675	2.86435	0.0057887	2.8363639	10	1	11 days	0.44	Williams	2000 DL ₆₁

2000 DM ₆₁	14.1	0.15	20000226	165.58389	8.81273	345.18971	24.12456	0.1604738	2.6433773	18	1	11 days	0.65	Williams	2000 DM ₆₁
2000 DN ₆₁	15.3	0.15	20000226	38.10871	320.52659	156.73901	7.38415	0.0996603	3.1181012	17	1	11 days	0.59	Williams	2000 DN ₆₁
2000 DO ₆₁	15.4	0.15	20000226	49.73967	103.20353	354.42179	3.63411	0.1530564	2.5640235	13	1	11 days	0.38	Williams	2000 DO ₆₁
2000 DP ₆₁	14.6	0.15	20000226	144.73362	26.18377	347.15180	17.46986	0.0816737	2.7090916	9	1	11 days	0.47	Williams	2000 DP ₆₁
2000 DQ ₆₁	16.8	0.15	20000226	2.31372	159.50583	359.34155	2.97751	0.1793685	2.6762243	17	1	11 days	0.39	Williams	2000 DQ ₆₁
2000 DT ₆₁	15.0	0.15	20000226	238.86458	137.30256	158.12441	5.51090	0.1178349	2.5579068	14	1	11 days	0.43	Williams	2000 DT ₆₁
2000 DV ₆₁	16.1	0.15	20000226	302.48952	233.44606	356.40539	4.14278	0.0947936	2.3116758	14	1	11 days	0.27	Williams	2000 DV ₆₁
2000 DW ₆₁	13.8	0.15	20000226	89.77459	247.13734	168.14454	6.14408	0.1615742	3.1038784	19	1	13 days	0.68	Williams	2000 DW ₆₁
2000 DX ₆₁	16.5	0.15	20000226	9.40120	171.52199	337.45240	2.24974	0.1378881	2.2633589	10	1	11 days	0.34	Williams	2000 DX ₆₁
2000 DY ₆₁	15.8	0.15	20000206	308.56711	60.04474	163.17214	2.65571	0.1554750	2.4375574	31	1	38 days	0.81	Williams	2000 DY ₆₁
2000 DZ ₆₁	14.3	0.15	20000226	177.65579	359.04895	346.15388	6.48620	0.1436750	2.7315644	20	1	11 days	0.42	Williams	2000 DZ ₆₁
2000 DB ₆₂	14.7	0.15	20000226	4.19958	352.43465	165.79439	10.35928	0.1140218	3.2557530	18	1	11 days	0.32	Williams	2000 DB ₆₂
2000 DD ₆₂	14.3	0.15	20000226	32.97427	334.69538	141.97381	0.97074	0.1795066	3.2678808	14	1	11 days	0.40	Williams	2000 DD ₆₂
2000 DE ₆₂	16.2	0.15	20000226	283.87675	84.32823	167.05363	3.06014	0.1088856	2.3211363	17	1	11 days	0.54	Williams	2000 DE ₆₂
2000 DF ₆₂	14.0	0.15	20000226	191.02550	170.51743	164.59867	19.10976	0.0893274	3.4023994	21	1	14 days	0.39	Williams	2000 DF ₆₂
2000 DG ₆₂	15.4	0.15	20000226	322.95416	42.04427	162.06991	14.23481	0.0553013	2.5967355	11	1	11 days	0.49	Williams	2000 DG ₆₂
2000 DH ₆₂	14.2	0.15	20000226	168.13057	8.72334	342.94499	6.80287	0.2311102	2.4118767	16	1	11 days	0.39	Williams	2000 DH ₆₂
2000 DJ ₆₂	13.8	0.15	20000226	79.70647	262.80068	165.18775	11.53140	0.1433683	3.2171813	17	1	11 days	0.60	Williams	2000 DJ ₆₂
2000 DK ₆₂	15.9	0.15	20000226	321.77058	226.60201	347.09645	1.53444	0.1530851	2.5365255	21	1	11 days	0.87	Williams	2000 DK ₆₂
2000 DL ₆₂	15.0	0.15	20000226	289.50373	82.54296	165.10649	12.95584	0.1196986	2.7588757	21	1	11 days	0.45	Williams	2000 DL ₆₂
2000 DM ₆₂	15.7	0.15	20000226	83.96279	92.20892	337.34235	5.71807	0.0759330	2.2722943	23	1	11 days	0.34	Williams	2000 DM ₆₂
2000 DN ₆₂	14.1	0.15	20000226	270.87772	80.65984	176.80782	2.94191	0.0474371	2.8126268	14	1	11 days	0.36	Williams	2000 DN ₆₂
2000 DO ₆₂	14.8	0.15	20000226	65.37327	104.23893	338.39933	8.85333	0.1369649	3.0529464	27	1	15 days	0.44	Williams	2000 DO ₆₂
2000 DQ ₆₂	13.5	0.15	20000226	271.82550	93.34678	171.39898	6.32143	0.1153402	3.1630708	27	1	15 days	0.54	Williams	2000 DQ ₆₂
2000 DR ₆₂	14.9	0.15	20000226	123.51219	221.53352	175.21329	4.75985	0.0308949	2.7679164	20	1	11 days	0.55	Williams	2000 DR ₆₂
2000 DS ₆₂	15.5	0.15	20000226	23.78905	312.10442	177.02401	2.19006	0.1653920	2.6816922	14	1	11 days	0.58	Williams	2000 DS ₆₂
2000 DT ₆₂	17.4	0.15	20000226	359.99884	192.25972	329.60425	3.51786	0.1133720	2.2396747	14	1	11 days	0.49	Williams	2000 DT ₆₂
2000 DV ₆₂	15.8	0.15	20000226	116.87921	62.65288	330.04057	1.99191	0.1381274	2.1900740	22	1	14 days	0.36	Williams	2000 DV ₆₂
2000 DW ₆₂	14.9	0.15	20000226	16.32350	163.76762	341.40292	13.42158	0.0568502	3.1279788	13	1	11 days	0.62	Williams	2000 DW ₆₂
2000 DY ₆₂	15.2	0.15	20000226	148.04314	57.38968	314.54883	2.31968	0.0603186	2.5484380	32	1	11 days	0.63	Williams	2000 DY ₆₂
2000 DC ₆₃	14.1	0.15	20000226	143.93611	29.11882	341.83615	14.03308	0.1624398	2.9159519	23	1	12 days	0.85	Williams	2000 DC ₆₃
2000 DD ₆₃	14.9	0.15	20000226	302.78019	255.71939	338.00607	6.26957	0.1268330	2.6657677	33	1	16 days	0.28	Williams	2000 DD ₆₃
2000 DE ₆₃	16.4	0.15	20000226	312.89394	19.92820	203.67162	0.77450	0.1470238	2.3516962	19	1	11 days	0.54	Williams	2000 DE ₆₃
2000 DF ₆₃	14.2	0.15	20000226	196.20592	143.17721	188.29031	5.08556	0.1543859	2.7460626	22	1	11 days	0.55	Williams	2000 DF ₆₃
2000 DG ₆₃	15.6	0.15	20000226	81.31840	251.33126	175.07065	8.32394	0.1324858	2.7728416	17	1	11 days	0.58	Williams	2000 DG ₆₃
2000 DH ₆₃	14.7	0.15	20000226	322.77705	233.45368	331.64148	9.23448	0.0597237	2.9793894	13	1	11 days	0.33	Williams	2000 DH ₆₃
2000 DJ ₆₃	14.5	0.15	20000226	266.19459	304.45079	315.98522	4.25843	0.0284265	2.7572633	18	1	11 days	0.58	Williams	2000 DJ ₆₃
2000 DM ₆₃	16.0	0.15	20000226	108.05057	220.59707	175.30960	7.51115	0.0822551	2.2325131	17	1	11 days	0.31	Williams	2000 DM ₆₃
2000 DN ₆₃	15.3	0.15	20000226	349.18912	221.68204	313.16677	3.33335	0.0236648	2.7900644	13	1	11 days	0.51	Williams	2000 DN ₆₃
2000 DO ₆₃	16.1	0.15	20000226	60.08354	98.58801	334.44147	8.73992	0.2664848	2.7399962	18	1	11 days	0.63	Williams	2000 DO ₆₃
2000 DQ ₆₃	12.9	0.15	20000226	240.68728	314.86315	334.16670	10.27289	0.0540558	3.1831723	20	1	11 days	0.38	Williams	2000 DQ ₆₃
2000 DR ₆₃	14.4	0.15	20000226	266.79263	303.53919	328.20159	4.94975	0.1249858	3.1400509	20	1	11 days	0.60	Williams	2000 DR ₆₃
2000 DS ₆₃	15.9	0.15	20000226	285.73000	289.99908	334.07004	6.41356	0.2296062	2.3744685	20	1	11 days	0.53	Williams	2000 DS ₆₃
2000 DT ₆₃	14.2	0.15	20000226	191.66023	152.04958	186.08268	4.00160	0.3060142	2.5917851	31	1	14 days	0.62	Williams	2000 DT ₆₃
2000 DV ₆₃	13.6	0.15	20000226	15.24589	196.48124	308.71253	4.05252	0.1058599	3.0943691	20	1	11 days	0.42	Williams	2000 DV ₆₃
2000 DW ₆₃	14.2	0.15	20000226	209.13948	10.78626	312.77428	4.06322	0.1883617	2.2615431	16	1	11 days	0.40	Williams	2000 DW ₆₃
2000 DX ₆₃	15.0	0.15	20000206	340.36340	230.93169	308.62144	3.46018	0.0766473	2.3211311	28	1	38 days	0.60	Williams	2000 DX ₆₃
2000 DA ₆₄	14.5	0.15	20000226	108.57610	224.88715	174.21248	15.35410	0.1665126	2.7427900	23	1	11 days	0.63	Williams	2000 DA ₆₄
2000 DB ₆₄	15.1	0.15	20000226	45.49372	254.88293	215.81353	2.41811	0.0873566	2.6570973	16	1	11 days	0.40	Williams	2000 DB ₆₄
2000 DC ₆₄	13.9	0.15	20000226	219.81527	337.80972	328.53731	8.43411	0.0150552	2.9930435	16	1	11 days	0.48	Williams	2000 DC ₆₄
2000 DD ₆₄	16.0	0.15	20000226	358.02999	339.54134	186.34963	4.62714	0.1492649	2.5446674	16	1	11 days	0.69	Williams	2000 DD ₆₄
2000 DE ₆₄	13.7	0.15	20000226	208.74258	49.58104	278.42815	2.37966	0.2699523	2.5911981	23	1	11 days	0.50	Williams	2000 DE ₆₄
2000 DF ₆₄	15.3	0.15	20000226	31.87278	133.39432	337.07751	14.68830	0.2710581	3.1494300	16	1	5 days	0.89	E Williams	2000 DF ₆₄

2000 MAR. 20

M.P.C. 39619

2000 DG ₆₄	17.0	0.15	20000226	12.91053	275.31261	232.23454	1.75065	0.1032435	2.3453213	24	1	13 days	0.50	Williams	2000 DG ₆₄
2000 DH ₆₄	16.7	0.15	20000226	40.62540	160.51640	315.01019	2.92638	0.0902097	2.2240529	23	1	13 days	0.61	Williams	2000 DH ₆₄
2000 DK ₆₄	17.0	0.15	20000226	346.65920	321.95903	218.04164	1.83252	0.1019876	2.3089943	22	1	13 days	0.67	Williams	2000 DK ₆₄
2000 DL ₆₄	14.6	0.15	20000226	239.72141	117.02978	176.81826	6.26876	0.1011438	2.7956333	46	1	14 days	0.49	Williams	2000 DL ₆₄
2000 DM ₆₄	15.1	0.15	20000226	335.28240	19.90750	180.70875	5.73275	0.1969166	3.1167210	25	1	11 days	0.60	Williams	2000 DM ₆₄
2000 DN ₆₄	16.4	0.15	20000226	35.21407	140.07627	331.88915	3.59198	0.1892594	2.2708626	41	1	11 days	0.42	Williams	2000 DN ₆₄
2000 DP ₆₄	15.0	0.15	20000226	294.91435	265.30956	331.89989	6.38855	0.0782292	2.3414559	17	1	11 days	0.69	Williams	2000 DP ₆₄
2000 DQ ₆₄	16.2	0.15	20000226	286.40264	54.06994	194.56748	1.98945	0.0978250	2.6225220	36	1	14 days	0.53	Williams	2000 DQ ₆₄
2000 DT ₆₄	17.1	0.15	20000226	15.54495	169.55078	330.43172	3.25353	0.1894320	2.3629591	21	1	11 days	0.47	Williams	2000 DT ₆₄
2000 DU ₆₄	14.4	0.15	20000226	154.23440	59.10978	309.61552	1.97779	0.0546806	3.0331469	20	1	11 days	0.60	Williams	2000 DU ₆₄
2000 DV ₆₄	15.4	0.15	20000226	25.01518	309.82801	180.65497	4.45256	0.1579325	3.0778800	16	1	11 days	0.42	Williams	2000 DV ₆₄
2000 DW ₆₄	15.5	0.15	20000226	349.06735	10.24674	166.30670	6.35596	0.1065319	2.5008561	28	1	14 days	0.46	Williams	2000 DW ₆₄
2000 DX ₆₄	14.7	0.15	20000226	88.95491	230.32249	187.71327	0.99825	0.1559207	3.2055054	36	1	15 days	0.54	Williams	2000 DX ₆₄
2000 DY ₆₄	16.3	0.15	20000226	267.30512	100.87788	168.51010	5.97388	0.1176096	2.2586787	22	1	11 days	0.43	Williams	2000 DY ₆₄
2000 DA ₆₅	14.9	0.15	20000226	339.07704	207.83252	343.52928	9.49656	0.1299883	3.0933406	58	1	18 days	0.47	Williams	2000 DA ₆₅
2000 DB ₆₅	15.2	0.15	20000226	30.14798	312.70970	172.49226	1.52856	0.1314696	3.0159758	30	1	15 days	0.44	Williams	2000 DB ₆₅
2000 DD ₆₅	14.4	0.15	20000226	97.31087	231.80885	179.42871	3.32288	0.1527759	3.2294674	41	1	14 days	0.47	Williams	2000 DD ₆₅
2000 DF ₆₅	14.8	0.15	20000226	237.78199	307.99094	343.20738	13.60397	0.0519876	2.4037604	45	1	29 days	0.47	Williams	2000 DF ₆₅
2000 DG ₆₅	15.0	0.15	20000226	212.19483	170.78160	146.21054	5.18657	0.2137148	2.4650100	12	1	9 days	0.54	Williams	2000 DG ₆₅
2000 DH ₆₅	16.7	0.15	20000226	351.70017	61.22694	112.51482	1.36679	0.2779206	2.7674337	11	1	4 days	0.48	E Williams	2000 DH ₆₅
2000 DK ₆₅	16.2	0.15	20000226	324.92365	192.17914	13.61980	2.09635	0.1511433	2.4377948	17	1	11 days	0.68	Williams	2000 DK ₆₅
2000 DM ₆₅	14.2	0.15	20000226	322.15344	43.83390	158.98544	12.63521	0.0806441	3.0575644	11	1	11 days	0.46	Williams	2000 DM ₆₅
2000 DP ₆₅	17.4	0.15	20000226	84.98128	86.75918	339.23084	6.23665	0.0734624	2.2916524	14	1	15 days	0.64	Williams	2000 DP ₆₅
2000 DS ₆₅	13.8	0.15	20000226	318.93869	59.36696	149.71073	1.78759	0.1013238	2.9951831	18	1	11 days	0.42	Williams	2000 DS ₆₅
2000 DT ₆₅	14.0	0.15	20000226	285.33138	49.00614	194.70401	2.20215	0.0850070	3.1286817	10	1	11 days	0.49	Williams	2000 DT ₆₅
2000 DU ₆₅	15.1	0.15	20000226	189.13604	0.27408	331.04033	6.21020	0.0653254	2.2545993	11	1	11 days	0.39	Williams	2000 DU ₆₅
2000 DV ₆₅	16.4	0.15	20000226	28.74416	162.21321	326.93171	1.47628	0.0206862	2.1334362	31	1	16 days	0.50	Williams	2000 DV ₆₅
2000 DB ₆₆	15.0	0.15	20000226	249.85387	339.60375	302.12479	2.53427	0.1106096	2.2699147	13	1	11 days	0.62	Williams	2000 DB ₆₆
2000 DE ₆₆	15.0	0.15	20000226	262.32088	294.61025	333.09520	3.58699	0.0887707	2.6301502	10	1	11 days	0.66	Williams	2000 DE ₆₆
2000 DH ₆₆	14.4	0.15	20000226	69.69695	74.98902	345.27528	8.03018	0.2587326	2.8017571	11	1	11 days	0.43	Williams	2000 DH ₆₆
2000 DJ ₆₆	18.6	0.15	20000226	3.24628	163.55487	350.85189	1.36430	0.1978022	2.3069818	11	1	4 days	0.61	E Williams	2000 DJ ₆₆
2000 DK ₆₆	17.0	0.15	20000226	295.62154	251.36982	342.26903	6.30073	0.0846876	2.4268825	24	1	16 days	0.71	Williams	2000 DK ₆₆
2000 DM ₆₆	17.2	0.15	20000226	61.59335	87.17769	347.14401	2.92941	0.2157898	2.3396633	15	1	4 days	0.53	E Williams	2000 DM ₆₆
2000 DO ₆₆	14.2	0.15	20000226	77.26057	79.66756	350.29122	4.67638	0.1184374	3.1400575	12	1	11 days	0.47	Williams	2000 DO ₆₆
2000 DS ₆₆	15.3	0.15	20000226	63.79370	313.30297	138.47266	2.43969	0.0575177	2.8840505	15	1	11 days	0.22	Williams	2000 DS ₆₆
2000 DT ₆₆	15.0	0.15	20000226	176.06520	188.61709	156.95229	10.49288	0.0654294	3.0034367	16	1	11 days	0.41	Williams	2000 DT ₆₆
2000 DU ₆₆	14.2	0.15	20000226	276.53471	134.16969	125.96240	1.92455	0.1284729	3.0974907	26	1	19 days	0.61	Williams	2000 DU ₆₆
2000 DV ₆₆	16.2	0.15	20000226	355.59038	241.89353	286.35284	0.12788	0.2622929	2.9200632	17	1	11 days	0.80	Williams	2000 DV ₆₆
2000 DW ₆₆	15.5	0.15	20000226	223.74936	334.94795	339.42043	2.25342	0.2604516	2.2428473	17	1	11 days	0.38	Williams	2000 DW ₆₆
2000 DX ₆₆	16.1	0.15	20000226	15.63290	340.41947	160.95383	3.32382	0.1250624	3.1203173	20	1	15 days	0.40	Williams	2000 DX ₆₆
2000 DY ₆₆	14.5	0.15	20000226	197.97779	136.67557	189.06100	2.13623	0.0531626	2.9195735	13	1	11 days	0.34	Williams	2000 DY ₆₆
2000 DZ ₆₆	17.0	0.15	20000226	336.53736	18.58082	169.17163	3.24651	0.0738470	2.1509420	16	1	6 days	0.72	E Williams	2000 DZ ₆₆
2000 DA ₆₇	16.3	0.15	20000226	37.34946	308.15963	164.54080	16.79986	0.1432430	3.1135747	27	1	19 days	0.60	Williams	2000 DA ₆₇
2000 DD ₆₇	14.1	0.15	20000226	73.52273	101.86411	330.85249	9.02017	0.1361415	3.0112695	11	1	5 days	0.54	E Williams	2000 DD ₆₇
2000 DE ₆₇	15.7	0.15	20000226	346.98133	210.90890	328.52061	5.32139	0.1515299	3.1650570	19	1	15 days	0.39	Williams	2000 DE ₆₇
2000 DF ₆₇	14.6	0.15	20000226	103.96841	180.83016	213.93188	2.04605	0.2281037	2.3742565	11	1	4 days	0.42	E Williams	2000 DF ₆₇
2000 DH ₆₇	14.5	0.15	20000206	286.09660	273.87368	335.81728	10.96775	0.1640176	2.6442213	34	1	34 days	0.39	Williams	2000 DH ₆₇
2000 DK ₆₇	16.2	0.15	20000226	110.44074	127.02326	271.86165	1.45333	0.1308193	2.2927408	14	1	11 days	0.62	Williams	2000 DK ₆₇
2000 DN ₆₇	16.1	0.15	20000226	73.27828	20.30421	51.24452	1.05854	0.1456036	2.3930503	18	1	11 days	0.41	Williams	2000 DN ₆₇
2000 DO ₆₇	15.1	0.15	20000226	254.17957	289.73154	352.70351	3.81178	0.1331479	2.3182008	12	1	11 days	0.30	Williams	2000 DO ₆₇
2000 DQ ₆₇	15.5	0.15	20000226	18.20952	337.85655	162.46209	11.22668	0.1047029	2.5939486	15	1	11 days	0.57	Williams	2000 DQ ₆₇
2000 DR ₆₇	15.1	0.15	20000226	330.17086	226.86264	336.38585	3.34854	0.1462643	3.1898957	15	1	11 days	0.48	Williams	2000 DR ₆₇
2000 DS ₆₇	14.8	0.15	20000226	173.52708	163.40161	184.92797	5.81359	0.2717609	2.7181460	14	1	11 days	0.55	Williams	2000 DS ₆₇

2000 DT ₆₇	14.7	0.15	20000226	196.98554	142.99043	187.74289	6.26873	0.1444825	2.3343117	12	1	11 days	0.38	Williams	2000 DT ₆₇
2000 DV ₆₇	15.3	0.15	20000226	342.90628	225.57387	317.74683	3.10775	0.0442908	2.7774581	25	1	13 days	0.51	Williams	2000 DV ₆₇
2000 DW ₆₇	16.5	0.15	20000226	12.77734	198.35836	312.21670	1.86765	0.0174157	2.6962358	21	1	14 days	0.67	Williams	2000 DW ₆₇
2000 DX ₆₇	16.0	0.15	20000226	330.18564	25.62966	172.49318	9.11823	0.0632768	3.0119066	22	1	14 days	0.56	Williams	2000 DX ₆₇
2000 DY ₆₇	16.1	0.15	20000226	225.28695	136.64659	170.17177	2.07232	0.1096669	2.5139329	18	1	15 days	0.52	Williams	2000 DY ₆₇
2000 DB ₆₈	15.4	0.15	20000226	107.37348	258.17616	151.47116	5.07606	0.0687118	2.7744311	22	1	14 days	0.68	Williams	2000 DB ₆₈
2000 DC ₆₈	16.3	0.15	20000226	315.60659	65.74779	152.73392	5.35107	0.1251219	2.2464081	30	1	12 days	0.59	Williams	2000 DC ₆₈
2000 DD ₆₈	15.6	0.15	20000226	216.27319	160.66631	148.57977	4.66646	0.0256616	2.2726203	26	1	14 days	0.65	Williams	2000 DD ₆₈
2000 DF ₆₈	15.0	0.15	20000226	115.93694	48.44895	347.95869	5.18344	0.1186721	2.3114246	18	1	11 days	0.44	Williams	2000 DF ₆₈
2000 DG ₆₈	13.8	0.15	20000226	133.50529	212.24102	164.85448	14.48660	0.2001233	2.5548591	17	1	11 days	0.46	Williams	2000 DG ₆₈
2000 DH ₆₈	15.7	0.15	20000226	350.07644	187.24121	348.41772	9.14261	0.0772779	2.7963213	32	1	15 days	0.43	Williams	2000 DH ₆₈
2000 DJ ₆₈	14.0	0.15	20000226	206.79435	335.54272	351.69398	3.60874	0.2142771	2.5994716	29	1	11 days	0.97	Williams	2000 DJ ₆₈
2000 DK ₆₈	13.5	0.15	20000226	46.14949	109.39469	355.96354	4.40817	0.1405963	3.1338783	13	1	11 days	0.23	Williams	2000 DK ₆₈
2000 DL ₆₈	14.5	0.15	20000226	197.57930	167.71967	166.32929	6.76815	0.2360097	2.4716481	30	1	11 days	1.40	Williams	2000 DL ₆₈
2000 DM ₆₈	14.7	0.15	20000226	216.01185	332.63866	344.64178	14.66671	0.1324521	2.6229155	25	1	11 days	0.39	Williams	2000 DM ₆₈
2000 DN ₆₈	16.5	0.15	20000226	299.99252	257.35767	340.81072	2.66267	0.1335628	2.2304161	45	1	18 days	0.69	Williams	2000 DN ₆₈
2000 DO ₆₈	15.8	0.15	20000226	60.05128	103.08548	346.52118	13.22091	0.1403320	2.7368665	49	1	18 days	0.59	Williams	2000 DO ₆₈
2000 DR ₆₈	13.8	0.15	20000226	197.57735	359.15543	336.36942	4.81372	0.2590931	2.7540798	22	1	11 days	0.83	Williams	2000 DR ₆₈
2000 DS ₆₈	16.0	0.15	20000206	53.12316	240.16586	205.21601	1.43600	0.1882750	2.3677030	33	1	38 days	0.71	Williams	2000 DS ₆₈
2000 DT ₆₈	14.1	0.15	20000226	57.01301	108.82694	341.57863	9.96009	0.1724208	3.0920771	27	1	30 days	0.35	Williams	2000 DT ₆₈
2000 DU ₆₈	14.8	0.15	20000226	275.19001	287.11711	340.37919	5.11384	0.1551462	2.3223518	30	1	24 days	0.86	Williams	2000 DU ₆₈
2000 DZ ₆₈	15.9	0.15	20000226	310.07083	256.46684	327.37735	5.70052	0.0843646	2.6539249	24	1	13 days	0.52	Williams	2000 DZ ₆₈
2000 DB ₆₉	14.7	0.15	20000226	52.99700	280.49807	175.05267	15.57089	0.1786426	3.2277406	19	1	13 days	0.67	Williams	2000 DB ₆₉
2000 DC ₆₉	15.9	0.15	20000226	353.71379	219.02117	315.45496	2.94748	0.1523209	2.6825168	28	1	13 days	0.57	Williams	2000 DC ₆₉
2000 DE ₆₉	15.0	0.15	20000226	160.68832	21.22227	342.25297	13.50413	0.0744155	2.8904560	23	1	13 days	0.41	Williams	2000 DE ₆₉
2000 DF ₆₉	15.1	0.15	20000226	54.03419	278.96456	179.13585	5.77152	0.1419652	3.1768125	21	1	24 days	0.67	Williams	2000 DF ₆₉
2000 DG ₆₉	16.9	0.15	20000226	306.77776	57.56262	174.51619	5.42469	0.1419236	2.1745990	26	1	13 days	0.45	Williams	2000 DG ₆₉
2000 DH ₆₉	15.3	0.15	20000226	309.28412	242.76831	340.10679	6.51900	0.0714348	2.3543920	35	1	25 days	0.58	Williams	2000 DH ₆₉
2000 DJ ₆₉	15.1	0.15	20000226	57.33585	269.93859	196.22023	1.91526	0.0349937	2.9753789	18	1	11 days	0.52	Williams	2000 DJ ₆₉
2000 DK ₆₉	15.1	0.15	20000226	349.25840	198.47969	341.09770	11.24007	0.0667961	3.0682862	23	1	13 days	0.47	Williams	2000 DK ₆₉
2000 DL ₆₉	16.2	0.15	20000206	24.39120	278.36014	206.08218	1.70513	0.1602003	2.3711602	31	1	32 days	0.57	Williams	2000 DL ₆₉
2000 DM ₆₉	14.6	0.15	20000226	228.95913	137.87622	168.50205	6.53877	0.1159975	2.7797733	18	1	12 days	0.49	Williams	2000 DM ₆₉
2000 DN ₆₉	16.8	0.15	20000226	356.87753	353.34512	175.10030	2.93344	0.1156420	2.3897658	23	1	16 days	0.41	Williams	2000 DN ₆₉
2000 DO ₆₉	15.9	0.15	20000226	12.92930	169.77075	341.38419	4.73257	0.0212688	2.1808452	25	1	11 days	0.41	Williams	2000 DO ₆₉
2000 DP ₆₉	16.4	0.15	20000226	306.04346	61.09920	176.48602	2.37087	0.1790919	2.3770636	28	1	16 days	0.51	Williams	2000 DP ₆₉
2000 DQ ₆₉	16.1	0.15	20000206	47.93085	288.36109	170.44056	7.44412	0.1272500	2.3403017	28	1	33 days	0.43	Williams	2000 DQ ₆₉
2000 DT ₆₉	15.4	0.15	20000226	67.62547	67.08174	11.47324	1.35239	0.1579185	2.3917740	29	1	24 days	0.41	Williams	2000 DT ₆₉
2000 DY ₆₉	15.9	0.15	20000226	333.95528	188.29524	10.13984	2.58167	0.1410948	2.6824254	21	1	14 days	0.92	Williams	2000 DY ₆₉
2000 DZ ₆₉	16.1	0.15	20000226	27.32868	137.43988	353.09058	8.94772	0.1013290	2.5720457	22	1	14 days	0.58	Williams	2000 DZ ₆₉
2000 DB ₇₀	14.7	0.15	20000226	315.58375	71.77195	142.79494	3.91497	0.0606071	2.7675778	32	1	14 days	0.74	Williams	2000 DB ₇₀
2000 DD ₇₀	14.7	0.15	20000226	140.34194	308.63915	73.78421	2.12702	0.0442936	3.0036654	16	1	11 days	0.53	Williams	2000 DD ₇₀
2000 DE ₇₀	14.2	0.15	20000226	265.41750	104.40756	161.27888	10.82651	0.0422164	3.0891340	13	1	11 days	0.57	Williams	2000 DE ₇₀
2000 DF ₇₀	14.4	0.15	20000226	150.65301	221.68841	150.82994	3.69318	0.0481758	2.5915274	19	1	11 days	0.35	Williams	2000 DF ₇₀
2000 DH ₇₀	15.8	0.15	20000226	347.65596	19.16318	159.14440	5.91824	0.0431392	2.2741383	19	1	11 days	0.42	Williams	2000 DH ₇₀
2000 DJ ₇₀	15.5	0.15	20000226	117.81785	42.66829	351.33910	14.19486	0.1593567	2.6855571	14	1	11 days	0.49	Williams	2000 DJ ₇₀
2000 DL ₇₀	16.1	0.15	20000226	331.07374	54.46695	147.55961	2.52433	0.1265244	2.4497346	15	1	11 days	0.55	Williams	2000 DL ₇₀
2000 DM ₇₀	16.6	0.15	20000226	33.49257	316.80603	160.35347	6.03261	0.1737384	2.3089891	23	1	11 days	0.33	Williams	2000 DM ₇₀
2000 DN ₇₀	16.3	0.15	20000226	14.07907	345.97708	159.92435	5.93829	0.1636373	3.0195077	17	1	11 days	0.59	Williams	2000 DN ₇₀
2000 DP ₇₀	16.9	0.15	20000226	321.42395	223.19239	352.44781	2.06300	0.1456102	2.4417671	23	1	14 days	0.50	Williams	2000 DP ₇₀
2000 DU ₇₀	14.1	0.15	20000226	289.50139	260.45918	341.36743	8.80585	0.0339471	2.9681896	19	1	11 days	0.40	Williams	2000 DU ₇₀
2000 DV ₇₀	16.0	0.15	20000226	49.13668	128.50316	343.35803	6.59380	0.0554914	2.3371060	18	1	11 days	0.48	Williams	2000 DV ₇₀
2000 DW ₇₀	14.4	0.15	20000226	277.26628	39.71043	221.57794	1.09276	0.0884272	3.0618244	32	1	13 days	0.39	Williams	2000 DW ₇₀
2000 DZ ₇₀	13.8	0.15	20000226	64.36697	116.65669	327.96226	5.59110	0.1738426	3.1153783	13	1	11 days	0.51	Williams	2000 DZ ₇₀

2000 MAR. 20

M.P.C. 39621

2000 DC ₇₁	14.0	0.15	20000226	202.05397	151.63552	177.60195	13.13293	0.0385239	3.2287225	18	1	13 days	0.53	Williams	2000 DC ₇₁
2000 DE ₇₁	15.2	0.15	20000226	293.90534	293.35187	318.24103	2.77580	0.1578466	2.3998980	14	1	11 days	0.34	Williams	2000 DE ₇₁
2000 DG ₇₁	16.6	0.15	20000226	22.61135	161.83134	335.02074	6.30728	0.1397447	2.2336802	38	1	35 days	0.51	Williams	2000 DG ₇₁
2000 DJ ₇₁	17.0	0.15	20000226	49.23663	273.58676	189.28714	2.30315	0.1448879	2.2089309	17	1	13 days	0.42	Williams	2000 DJ ₇₁
2000 DK ₇₁	14.9	0.15	20000206	315.85004	54.73293	171.15297	13.73010	0.2139225	2.6419718	32	1	32 days	0.45	Williams	2000 DK ₇₁
2000 DL ₇₁	14.6	0.15	20000226	29.08037	138.45697	345.53104	14.29996	0.2158154	3.1884287	15	1	11 days	0.48	Williams	2000 DL ₇₁
2000 DN ₇₁	14.6	0.15	20000226	62.02130	224.79948	223.38097	0.35700	0.1678915	3.2304909	20	1	11 days	0.58	Williams	2000 DN ₇₁
2000 DO ₇₁	14.5	0.15	20000226	186.22662	170.80397	173.55465	4.39159	0.2086400	2.4106879	24	1	11 days	0.62	Williams	2000 DO ₇₁
2000 DQ ₇₁	14.3	0.15	20000226	68.76814	110.86788	346.20485	11.33065	0.0271691	2.9523475	27	1	13 days	0.37	Williams	2000 DQ ₇₁
2000 DR ₇₁	15.7	0.15	20000226	354.60151	313.53842	220.17264	0.22543	0.1533476	2.4836258	19	1	11 days	0.47	Williams	2000 DR ₇₁
2000 DS ₇₁	15.7	0.15	20000226	230.58090	333.98611	336.32319	2.73902	0.1648051	2.2393524	26	1	13 days	0.57	Williams	2000 DS ₇₁
2000 DT ₇₁	14.2	0.15	20000226	240.93571	323.65239	347.71754	3.05726	0.2805885	2.4627257	18	1	11 days	0.57	Williams	2000 DT ₇₁
2000 DV ₇₁	17.2	0.15	20000226	45.59760	109.99726	352.27538	1.72325	0.1922799	2.2967899	21	1	13 days	0.45	Williams	2000 DV ₇₁
2000 DY ₇₁	13.8	0.15	20000226	203.84720	166.46899	166.07470	11.40277	0.2220546	3.0297285	17	1	11 days	0.39	Williams	2000 DY ₇₁
2000 DZ ₇₁	14.3	0.15	20000226	73.08865	78.83669	357.87788	4.31764	0.1552180	3.1693873	17	1	12 days	0.43	Williams	2000 DZ ₇₁
2000 DA ₇₂	16.3	0.15	20000226	14.26992	1.09731	140.69213	1.50393	0.2504778	3.0732847	12	1	11 days	0.44	Williams	2000 DA ₇₂
2000 DB ₇₂	14.5	0.15	20000226	167.60422	347.81088	9.91396	3.15621	0.1332661	2.7209556	18	1	11 days	0.39	Williams	2000 DB ₇₂
2000 DC ₇₂	15.1	0.15	20000226	320.62435	216.04309	353.40390	15.69357	0.0437525	3.1276888	16	1	11 days	0.60	Williams	2000 DC ₇₂
2000 DD ₇₂	14.3	0.15	20000226	116.76864	20.10028	25.49016	2.39755	0.0480805	2.8985251	13	1	11 days	0.32	Williams	2000 DD ₇₂
2000 DE ₇₂	16.0	0.15	20000226	55.49503	297.79858	156.09650	7.53608	0.1602397	2.5363388	26	1	24 days	0.83	Williams	2000 DE ₇₂
2000 DG ₇₂	14.6	0.15	20000226	242.75394	244.29391	50.53074	1.96187	0.1006662	3.1220316	12	1	11 days	0.39	Williams	2000 DG ₇₂
2000 DH ₇₂	14.5	0.15	20000226	201.18352	266.05558	64.77457	1.93576	0.1037226	3.1637154	13	1	11 days	0.40	Williams	2000 DH ₇₂
2000 DK ₇₂	14.5	0.15	20000226	67.72342	318.64770	129.47355	2.07797	0.1097652	3.0666259	18	1	11 days	0.54	Williams	2000 DK ₇₂
2000 DL ₇₂	15.6	0.15	20000226	358.10578	176.49065	352.88556	12.14413	0.0408951	2.6687621	27	1	15 days	1.19	Williams	2000 DL ₇₂
2000 DM ₇₂	15.1	0.15	20000226	144.99415	15.17464	358.39397	8.12027	0.1658519	2.4637228	18	1	11 days	0.35	Williams	2000 DM ₇₂
2000 DQ ₇₂	16.1	0.15	20000226	107.01617	56.75963	358.15758	6.12194	0.0460714	2.2980798	21	1	12 days	0.70	Williams	2000 DQ ₇₂
2000 DR ₇₂	15.5	0.15	20000226	294.46087	98.96980	149.25976	4.22717	0.1356220	2.7315956	13	1	11 days	0.64	Williams	2000 DR ₇₂
2000 DS ₇₂	16.3	0.15	20000226	45.03495	316.61228	159.44548	6.59496	0.0653399	2.3178552	18	1	11 days	0.38	Williams	2000 DS ₇₂
2000 DW ₇₂	16.5	0.15	20000226	343.32077	184.24430	1.91256	4.15874	0.0797764	2.2922176	22	1	12 days	0.49	Williams	2000 DW ₇₂
2000 DX ₇₂	15.5	0.15	20000226	2.95249	169.21554	354.35483	3.64641	0.1265243	3.0168108	20	1	12 days	0.74	Williams	2000 DX ₇₂
2000 DY ₇₂	14.8	0.15	20000226	102.46893	19.24933	33.68564	0.45261	0.1083952	2.3661876	17	1	11 days	0.43	Williams	2000 DY ₇₂
2000 DZ ₇₂	16.9	0.15	20000226	358.33557	180.11603	348.79342	7.89706	0.2360797	2.7711541	17	1	11 days	0.50	Williams	2000 DZ ₇₂
2000 DA ₇₃	16.0	0.15	20000226	1.02017	175.08344	349.30025	2.93918	0.1520905	2.3612977	36	1	13 days	0.55	Williams	2000 DA ₇₃
2000 DB ₇₃	14.9	0.15	20000226	70.12446	355.48981	85.53957	0.65445	0.1537764	3.1317060	22	1	12 days	0.65	Williams	2000 DB ₇₃
2000 DD ₇₃	15.8	0.15	20000226	323.55040	219.37816	352.94821	2.26244	0.1164767	2.4499300	21	1	11 days	0.52	Williams	2000 DD ₇₃
2000 DF ₇₃	15.7	0.15	20000226	103.09780	292.90886	129.70575	0.33675	0.0239482	2.5998563	17	1	11 days	0.56	Williams	2000 DF ₇₃
2000 DH ₇₃	16.2	0.15	20000226	9.74225	2.56764	154.52092	2.94843	0.0679891	2.7298754	18	1	11 days	0.38	Williams	2000 DH ₇₃
2000 DK ₇₃	14.0	0.15	20000226	215.68209	172.03430	149.14843	2.83094	0.1209389	2.8986326	18	1	11 days	0.38	Williams	2000 DK ₇₃
2000 DM ₇₃	15.0	0.15	20000226	50.26778	314.33693	158.17640	2.83631	0.0742348	3.0486719	17	1	11 days	0.55	Williams	2000 DM ₇₃
2000 DO ₇₃	14.4	0.15	20000226	189.87182	342.30368	1.51950	3.50572	0.2589788	2.2917677	26	1	16 days	0.51	Williams	2000 DO ₇₃
2000 DQ ₇₃	14.6	0.15	20000226	113.80413	258.16679	151.26245	2.37423	0.0675680	2.8835081	18	1	13 days	0.44	Williams	2000 DQ ₇₃
2000 DR ₇₃	15.1	0.15	20000226	295.33987	79.33866	161.24748	3.87033	0.0606579	2.7445249	22	1	11 days	0.43	Williams	2000 DR ₇₃
2000 DS ₇₃	14.9	0.15	20000226	273.94561	87.02252	176.03540	2.68951	0.0729179	2.5589953	30	1	16 days	0.56	Williams	2000 DS ₇₃
2000 DT ₇₃	15.0	0.15	20000226	58.19688	89.73453	1.26677	1.41742	0.1783668	2.7484694	14	1	5 days	0.41	E Williams	2000 DT ₇₃
2000 DW ₇₃	14.9	0.15	20000226	299.00565	254.94316	354.94563	5.40903	0.1837375	2.5554701	18	1	15 days	0.35	Williams	2000 DW ₇₃
2000 DZ ₇₃	15.3	0.15	20000226	146.20926	33.92805	342.06669	6.95572	0.1184344	2.2921210	14	1	11 days	0.54	Williams	2000 DZ ₇₃
2000 DA ₇₄	14.3	0.15	20000226	225.22888	326.18726	346.04883	10.86588	0.0945145	2.9759371	13	1	11 days	0.41	Williams	2000 DA ₇₄
2000 DB ₇₄	16.9	0.15	20000226	40.68513	300.75025	178.11021	3.36593	0.0970548	2.3115194	16	1	13 days	0.56	Williams	2000 DB ₇₄
2000 DC ₇₄	15.9	0.15	20000226	335.60800	28.60900	170.81222	5.96173	0.1461933	2.2638906	35	1	17 days	0.57	Williams	2000 DC ₇₄
2000 DD ₇₄	15.6	0.15	20000226	80.71830	163.52081	279.38137	1.01559	0.0621346	3.0727548	17	1	13 days	0.65	Williams	2000 DD ₇₄
2000 DF ₇₄	15.4	0.15	20000226	141.84355	156.01789	226.95494	1.76913	0.0764184	2.7285477	18	1	13 days	0.41	Williams	2000 DF ₇₄
2000 DG ₇₄	14.6	0.15	20000226	251.37162	98.86278	195.79614	3.22852	0.1671461	2.4576377	14	1	11 days	0.19	Williams	2000 DG ₇₄
2000 DH ₇₄	14.4	0.15	20000226	67.34082	107.15191	342.13248	12.59930	0.1169140	2.7227224	26	1	13 days	0.47	Williams	2000 DH ₇₄

2000 DJ ₇₄	15.1	0.15	20000226	237.24568	329.24460	326.84525	3.26039	0.0429857	2.5416259	12	1	11 days	0.39	Williams	2000 DJ ₇₄
2000 DP ₇₄	14.4	0.15	20000226	89.11071	255.98823	182.84731	5.45440	0.0171994	2.7078923	14	1	11 days	0.49	Williams	2000 DP ₇₄
2000 DS ₇₄	17.0	0.15	20000226	306.78257	45.68584	185.03384	5.62299	0.0979282	2.2628708	22	1	13 days	0.65	Williams	2000 DS ₇₄
2000 DT ₇₄	14.9	0.15	20000226	257.09334	100.53870	182.81659	10.22311	0.0985732	2.5747151	22	1	13 days	0.47	Williams	2000 DT ₇₄
2000 DW ₇₄	14.2	0.15	20000226	131.18023	191.17186	204.41804	4.02592	0.0469865	2.7842849	12	1	11 days	0.34	Williams	2000 DW ₇₄
2000 DC ₇₅	15.2	0.15	20000226	139.43997	74.22348	311.79913	2.43859	0.0928764	2.8484812	18	1	13 days	0.63	Williams	2000 DC ₇₅
2000 DE ₇₅	16.5	0.15	20000226	52.74897	223.19676	237.79509	1.60331	0.1525483	2.3753261	14	1	13 days	0.47	Williams	2000 DE ₇₅
2000 DJ ₇₅	14.1	0.15	20000226	309.58179	260.98303	328.65934	3.80010	0.0733654	3.1643562	17	1	13 days	0.41	Williams	2000 DJ ₇₅
2000 DK ₇₅	14.8	0.15	20000226	106.01573	56.96276	353.43663	9.24516	0.0592720	2.9795284	16	1	11 days	0.58	Williams	2000 DK ₇₅
2000 DM ₇₅	15.0	0.15	20000226	18.14559	357.23559	143.62284	4.25788	0.0830879	2.3751471	13	1	11 days	0.33	Williams	2000 DM ₇₅
2000 DN ₇₅	15.9	0.15	20000226	3.35804	8.90167	149.07004	4.89609	0.0903877	2.2260466	18	1	11 days	0.53	Williams	2000 DN ₇₅
2000 DO ₇₅	13.4	0.15	20000226	223.13207	235.86580	81.69697	1.67932	0.2633342	3.2514420	16	1	11 days	0.48	Williams	2000 DO ₇₅
2000 DP ₇₅	15.3	0.15	20000226	45.02002	93.74823	5.39335	4.15586	0.1971185	3.0795321	17	1	11 days	0.43	Williams	2000 DP ₇₅
2000 DS ₇₅	14.4	0.15	20000226	122.39653	231.05903	158.78552	7.25761	0.1375699	2.8767814	12	1	11 days	0.45	Williams	2000 DS ₇₅
2000 DT ₇₅	16.8	0.15	20000226	352.01459	182.27575	351.96217	5.07920	0.1852639	2.4948491	17	1	11 days	0.41	Williams	2000 DT ₇₅
2000 DU ₇₅	14.0	0.15	20000226	216.68145	274.46710	43.89641	1.45707	0.1780527	3.2052229	17	1	11 days	0.60	Williams	2000 DU ₇₅
2000 DV ₇₅	15.2	0.15	20000226	181.86868	186.38442	156.39804	6.18146	0.1506808	2.3771006	15	1	11 days	0.37	Williams	2000 DV ₇₅
2000 DW ₇₅	15.8	0.15	20000226	123.73174	235.32912	154.06033	7.22976	0.1191856	2.2684128	11	1	11 days	0.22	Williams	2000 DW ₇₅
2000 DX ₇₅	15.3	0.15	20000226	93.97752	54.46604	10.97876	2.94793	0.0375945	2.5860470	17	1	11 days	0.54	Williams	2000 DX ₇₅
2000 DB ₇₆	14.2	0.15	20000226	0.33344	1.02031	162.53213	8.97858	0.0893195	2.7951902	13	1	11 days	0.28	Williams	2000 DB ₇₆
2000 DC ₇₆	16.6	0.15	20000226	356.58500	152.84045	15.83191	0.39814	0.2271518	2.7479775	17	1	11 days	0.63	Williams	2000 DC ₇₆
2000 DD ₇₆	16.0	0.15	20000226	313.00889	62.50602	162.22266	4.90935	0.1443895	2.3410768	25	1	14 days	0.61	Williams	2000 DD ₇₆
2000 DF ₇₆	15.0	0.15	20000226	75.15494	258.14050	179.79920	4.69595	0.1126072	3.1915517	14	1	11 days	0.64	Williams	2000 DF ₇₆
2000 DG ₇₆	15.4	0.15	20000226	158.46762	20.38019	341.93889	6.32844	0.1137757	2.3141865	34	1	11 days	0.38	Williams	2000 DG ₇₆
2000 DJ ₇₆	15.9	0.15	20000226	76.63127	78.46647	341.03322	9.62895	0.2530382	2.4098754	27	1	13 days	0.62	Williams	2000 DJ ₇₆
2000 DK ₇₆	16.4	0.15	20000226	261.54546	112.51748	169.94912	7.48348	0.1759620	2.2568835	28	1	14 days	1.03	Williams	2000 DK ₇₆
2000 DO ₇₆	16.2	0.15	20000226	356.83976	350.61130	178.57279	7.49376	0.1469959	2.6104893	30	1	14 days	0.60	Williams	2000 DO ₇₆
2000 DP ₇₆	15.6	0.15	20000226	359.05783	205.67390	320.84411	4.09828	0.1950947	2.6910801	11	1	9 days	0.67	Williams	2000 DP ₇₆
2000 DT ₇₆	15.2	0.15	20000226	134.28372	47.40035	334.15409	4.82610	0.1509449	2.5965894	20	1	12 days	0.52	Williams	2000 DT ₇₆
2000 DV ₇₆	14.1	0.15	20000226	338.63519	235.10892	321.14202	3.15814	0.1338769	3.9683530	25	1	13 days	0.74	Williams	2000 DV ₇₆
2000 DW ₇₆	15.8	0.15	20000226	263.51803	322.36737	313.81870	1.48392	0.1313124	2.2602200	35	1	25 days	0.56	Williams	2000 DW ₇₆
2000 DX ₇₆	15.3	0.15	20000226	224.48327	128.65762	185.65160	1.97664	0.1833676	2.4393087	20	1	11 days	0.40	Williams	2000 DX ₇₆
2000 DY ₇₆	16.9	0.15	20000226	287.35845	84.43797	171.32994	6.02368	0.1623572	2.1177537	25	1	16 days	0.56	Williams	2000 DY ₇₆
2000 DZ ₇₆	15.6	0.15	20000226	149.95827	191.36841	180.04474	2.13686	0.0812186	2.2298357	16	1	11 days	0.93	Williams	2000 DZ ₇₆
2000 DA ₇₇	16.1	0.15	20000226	40.56270	306.97960	169.04297	12.24931	0.1040025	2.3722424	20	1	12 days	0.42	Williams	2000 DA ₇₇
2000 DB ₇₇	15.3	0.15	20000226	353.08859	187.36835	346.50708	12.87874	0.0901715	2.6375921	24	1	12 days	0.47	Williams	2000 DB ₇₇
2000 DC ₇₇	15.4	0.15	20000226	320.69615	50.06982	177.09315	1.20977	0.2345582	3.2383862	17	1	11 days	0.51	Williams	2000 DC ₇₇
2000 DD ₇₇	14.3	0.15	20000226	353.85351	165.04004	6.93885	2.48254	0.0915430	3.0535864	13	1	11 days	0.51	Williams	2000 DD ₇₇
2000 DF ₇₇	15.8	0.15	20000226	16.40338	341.77321	156.87253	4.56756	0.1998099	2.5427519	21	1	14 days	0.45	Williams	2000 DF ₇₇
2000 DG ₇₇	16.0	0.15	20000226	36.96561	122.34693	354.76343	5.56618	0.1313984	2.5559102	18	1	11 days	0.46	Williams	2000 DG ₇₇
2000 DH ₇₇	15.4	0.15	20000226	331.78041	203.23691	354.28117	4.88659	0.0853301	2.3400221	13	1	11 days	0.38	Williams	2000 DH ₇₇
2000 DK ₇₇	13.1	0.15	20000226	99.42015	271.06591	126.59923	2.29161	0.2792763	3.1620224	12	1	11 days	0.33	Williams	2000 DK ₇₇
2000 DM ₇₇	14.8	0.15	20000226	337.57010	181.45359	6.33130	4.44539	0.0079031	2.7549732	27	1	11 days	0.68	Williams	2000 DM ₇₇
2000 DN ₇₇	14.3	0.15	20000226	347.27524	68.85700	114.12032	2.25825	0.1669328	3.2027017	19	1	4 days	0.45	Williams	2000 DN ₇₇
2000 DO ₇₇	14.6	0.15	20000226	186.89942	317.62781	22.72113	2.77312	0.1504401	2.4041009	23	1	11 days	0.33	Williams	2000 DO ₇₇
2000 DP ₇₇	14.2	0.15	20000226	90.31167	27.90604	28.99724	2.10733	0.1693956	3.2016264	17	1	11 days	0.46	Williams	2000 DP ₇₇
2000 DQ ₇₇	14.2	0.15	20000226	254.27688	259.41080	37.77245	1.52217	0.2509219	3.1531552	17	1	11 days	0.30	Williams	2000 DQ ₇₇
2000 DR ₇₇	14.8	0.15	20000226	197.75666	170.65113	162.72959	13.98363	0.1477547	2.8323633	17	1	11 days	0.56	Williams	2000 DR ₇₇
2000 DS ₇₇	14.5	0.15	20000226	96.82384	42.68220	19.50919	1.84448	0.0680813	2.9012167	18	1	11 days	0.46	Williams	2000 DS ₇₇
2000 DT ₇₇	13.6	0.15	20000226	81.51792	267.67735	161.10029	10.97161	0.1486039	3.1290795	14	1	11 days	0.32	Williams	2000 DT ₇₇
2000 DU ₇₇	14.9	0.15	20000226	62.24300	89.05419	357.45900	1.53994	0.1564109	2.8260246	15	1	11 days	0.62	Williams	2000 DU ₇₇
2000 DV ₇₇	15.5	0.15	20000226	6.94034	166.61673	351.50150	7.62998	0.0178440	2.3457138	15	1	11 days	0.44	Williams	2000 DV ₇₇
2000 DW ₇₇	14.7	0.15	20000226	60.27368	293.64000	158.84291	5.26348	0.1323817	3.2054224	17	1	11 days	0.36	Williams	2000 DW ₇₇

2000 MAR. 20

M.P.C. 39623

2000 DX ₇₇	15.7	0.15	20000226	312.64846	62.02030	163.68914	4.21379	0.1332053	2.5668600	18	1	11 days	0.34	Williams	2000 DX ₇₇
2000 DY ₇₇	15.5	0.15	20000226	33.97501	308.43978	170.35569	3.05184	0.1808703	3.1628861	24	1	13 days	0.55	Williams	2000 DY ₇₇
2000 DZ ₇₇	14.4	0.15	20000226	43.14701	311.95795	168.56290	2.22875	0.0537571	3.0665604	13	1	11 days	0.36	Williams	2000 DZ ₇₇
2000 DA ₇₈	14.3	0.15	20000226	228.15146	321.01220	350.00368	5.12693	0.1583214	2.2623417	31	1	29 days	0.45	Williams	2000 DA ₇₈
2000 DB ₇₈	16.3	0.15	20000226	78.70281	93.16567	342.78818	6.84876	0.1007345	2.3825215	12	1	11 days	0.40	Williams	2000 DB ₇₈
2000 DC ₇₈	16.6	0.15	20000226	306.42228	246.33011	338.77730	3.82325	0.0563010	2.1910541	38	1	24 days	0.75	Williams	2000 DC ₇₈
2000 DF ₇₈	14.8	0.15	20000226	324.06116	355.52812	217.84183	1.77442	0.1486745	2.3914165	14	1	11 days	0.26	Williams	2000 DF ₇₈
2000 DG ₇₈	15.8	0.15	20000226	63.72908	260.17592	191.91435	3.50241	0.0942020	2.2151821	13	1	11 days	0.41	Williams	2000 DG ₇₈
2000 DH ₇₈	14.6	0.15	20000226	43.79328	136.95821	337.62042	9.13608	0.1046359	2.7686140	13	1	11 days	0.32	Williams	2000 DH ₇₈
2000 DK ₇₈	13.9	0.15	20000226	232.55554	97.98388	210.47911	3.31862	0.1587187	2.5231046	12	1	11 days	0.42	Williams	2000 DK ₇₈
2000 DM ₇₈	14.3	0.15	20000226	185.66803	1.75424	344.16818	15.48611	0.0931678	2.9815748	19	1	13 days	0.50	Williams	2000 DM ₇₈
2000 DO ₇₈	15.6	0.15	20000226	4.07675	176.53023	345.22290	12.85847	0.1282269	2.5394301	11	1	11 days	0.30	Williams	2000 DO ₇₈
2000 DP ₇₈	15.6	0.15	20000226	333.82648	219.33806	346.17712	12.75209	0.1931050	2.6858740	16	1	11 days	0.40	Williams	2000 DP ₇₈
2000 DQ ₇₈	14.9	0.15	20000226	268.27956	105.59920	172.05038	12.84632	0.1566562	2.6165644	22	1	11 days	0.65	Williams	2000 DQ ₇₈
2000 DR ₇₈	14.7	0.15	20000226	192.44438	351.74044	347.36310	7.38952	0.0944490	2.7191638	16	1	11 days	0.48	Williams	2000 DR ₇₈
2000 DT ₇₈	14.3	0.15	20000226	337.29097	149.00416	46.53337	1.79459	0.1176270	3.0946748	23	1	15 days	0.53	Williams	2000 DT ₇₈
2000 DV ₇₈	14.0	0.15	20000226	169.97096	195.31659	163.73575	8.53659	0.0637809	3.0905813	12	1	11 days	0.44	Williams	2000 DV ₇₈
2000 DW ₇₈	15.0	0.15	20000226	340.03478	38.88513	153.80965	4.56873	0.0870618	2.7577180	23	1	33 days	0.47	Williams	2000 DW ₇₈
2000 DA ₇₉	12.3	0.15	20000226	90.74137	246.21057	185.74396	4.50656	0.0733180	2.9856287	17	1	11 days	0.61	Williams	2000 DA ₇₉
2000 DB ₇₉	13.4	0.15	20000226	213.16015	152.09726	178.03097	13.40183	0.2181171	2.6833925	18	1	13 days	0.67	Williams	2000 DB ₇₉
2000 DC ₇₉	16.0	0.15	20000226	41.26787	317.39902	146.41485	3.46215	0.1263859	2.3847554	33	1	15 days	0.66	Williams	2000 DC ₇₉
2000 DD ₇₉	19.2	0.15	20000226	225.67821	324.77313	332.31691	22.92996	0.1745792	1.7851996	14	1	6 days	0.50	E Williams	2000 DD ₇₉
2000 DE ₇₉	16.5	0.15	20000226	201.55930	326.12356	348.85883	19.06163	0.0624011	1.9352155	24	1	12 days	0.40	Williams	2000 DE ₇₉
2000 DG ₇₉	15.1	0.15	20000226	48.02321	284.62196	147.79278	34.53100	0.3312895	2.9221264	19	1	12 days	0.31	Williams	2000 DG ₇₉
2000 DK ₇₉	15.9	0.15	20000226	73.83034	2.39779	43.54225	60.66868	0.4150469	1.7775177	15	1	12 days	0.51	Williams	2000 DK ₇₉
2000 DP ₇₉	15.0	0.15	20000226	244.55066	263.17688	4.40368	6.92554	0.0965919	2.3110694	23	1	12 days	0.51	Williams	2000 DP ₇₉
2000 DZ ₇₉	15.1	0.15	20000226	301.06135	136.47565	93.39280	3.13163	0.2337932	2.5829003	12	1	6 days	0.35	E Williams	2000 DZ ₇₉
2000 DB ₈₀	15.0	0.15	20000226	18.07805	100.42762	21.69852	3.44684	0.1161851	2.3963141	13	1	6 days	0.34	E Williams	2000 DB ₈₀
2000 DG ₈₀	13.1	0.15	20000226	116.15952	27.69222	347.03545	12.31310	0.1068276	3.1524531	13	1	10 days	0.33	Williams	2000 DG ₈₀
2000 DH ₈₀	14.9	0.15	20000226	343.64236	178.88229	350.58465	10.72066	0.1838489	2.4492455	12	1	10 days	0.45	Williams	2000 DH ₈₀
2000 DK ₈₀	14.5	0.15	20000226	9.15979	120.02671	12.39501	8.14971	0.0939120	2.7551495	14	1	10 days	0.57	Williams	2000 DK ₈₀
2000 DO ₈₀	15.8	0.15	20000226	15.33776	92.02247	34.73672	3.19475	0.1123587	2.3655438	18	1	10 days	0.36	Williams	2000 DO ₈₀
2000 DP ₈₀	14.2	0.15	20000226	294.43890	202.19858	37.83345	3.63960	0.2625400	2.8323920	14	1	6 days	0.53	E Williams	2000 DP ₈₀
2000 DS ₈₀	15.1	0.15	20000226	57.33791	45.14237	26.93119	1.44496	0.1657349	2.4140102	17	1	10 days	0.46	Williams	2000 DS ₈₀
2000 DD ₈₁	15.4	0.15	20000226	279.16877	132.64369	104.76443	5.97704	0.0837358	2.2338163	22	1	30 days	0.41	Williams	2000 DD ₈₁
2000 DH ₈₁	13.7	0.15	20000226	162.76460	350.66285	346.34030	11.43393	0.0915283	2.6606026	11	1	10 days	0.49	Williams	2000 DH ₈₁
2000 DP ₈₁	15.0	0.15	20000226	63.22475	297.70277	131.36943	11.77821	0.1203877	2.5479606	11	1	6 days	0.87	E Williams	2000 DP ₈₁
2000 DV ₈₁	15.3	0.15	20000226	149.52113	273.92039	80.18277	4.39115	0.0460229	2.1912870	12	1	6 days	0.35	E Williams	2000 DV ₈₁
2000 DW ₈₁	15.5	0.15	20000226	266.14671	233.59412	14.04080	7.08873	0.0713526	2.3075955	12	1	6 days	0.40	E Williams	2000 DW ₈₁
2000 DX ₈₂	14.3	0.15	20000226	352.30694	48.27516	107.90041	8.47040	0.1022440	3.1412158	23	1	30 days	0.43	Williams	2000 DX ₈₂
2000 DB ₈₃	14.5	0.15	20000226	74.17438	284.71169	131.08503	9.26099	0.1641670	2.4778199	17	1	6 days	0.95	E Williams	2000 DB ₈₃
2000 DD ₈₃	13.8	0.15	20000226	74.96489	275.95037	131.90910	12.96374	0.2181390	3.0478125	18	1	6 days	0.64	E Williams	2000 DD ₈₃
2000 DF ₈₃	13.9	0.15	20000226	314.36526	176.66951	36.81869	2.20800	0.1929829	3.0727923	14	1	10 days	0.44	Williams	2000 DF ₈₃
2000 DJ ₈₃	15.9	0.15	20000206	258.74479	271.93959	346.76975	6.75768	0.1133015	2.2369616	31	1	37 days	0.64	Williams	2000 DJ ₈₃
2000 DK ₈₃	15.0	0.15	20000226	47.97957	11.41116	86.42101	2.47696	0.0458111	2.9636644	19	1	12 days	0.61	Williams	2000 DK ₈₃
2000 DL ₈₃	13.5	0.15	20000226	95.35956	321.32315	81.07028	2.02593	0.1061628	3.2196490	13	1	6 days	0.72	E Williams	2000 DL ₈₃
2000 DN ₈₃	13.8	0.15	20000226	273.72595	115.15947	128.16339	10.22349	0.0739512	3.1591382	17	1	10 days	0.64	Williams	2000 DN ₈₃
2000 DO ₈₃	13.9	0.15	20000206	83.17200	60.78941	355.96785	8.48767	0.0396199	2.8121213	23	1	27 days	0.36	Williams	2000 DO ₈₃
2000 DP ₈₃	16.0	0.15	20000226	352.67623	161.74719	358.16525	7.98541	0.1498361	2.7900662	12	1	12 days	0.52	Williams	2000 DP ₈₃
2000 DS ₈₃	15.7	0.15	20000226	53.18426	19.83144	64.97201	5.08388	0.1083652	2.3785848	11	1	10 days	0.67	Williams	2000 DS ₈₃
2000 DZ ₈₃	14.6	0.15	20000226	179.53883	218.30679	114.68330	2.83940	0.0491415	3.0935516	30	1	16 days	0.64	Williams	2000 DZ ₈₃
2000 DL ₈₄	12.9	0.15	20000226	137.71772	237.85986	113.84164	7.45331	0.2985370	3.0916896	16	1	10 days	0.67	Williams	2000 DL ₈₄
2000 DM ₈₄	14.7	0.15	20000226	206.92786	75.00314	227.20135	0.12066	0.1841462	2.2517809	14	1	5 days	0.76	E Williams	2000 DM ₈₄

2000 DN ₈₄	13.4	0.15	20000226	126.36357	42.12860	322.61213	8.37354	0.1019000	3.1924541	11	1	5 days	0.73	E Williams	2000 DN ₈₄
2000 DO ₈₄	15.8	0.15	20000226	9.44835	171.23401	321.68151	5.46617	0.0739556	2.2744069	17	1	6 days	0.43	E Williams	2000 DO ₈₄
2000 DU ₈₄	16.8	0.15	20000226	61.04932	293.54304	134.94132	2.60773	0.1643578	2.4053257	9	1	11 days	0.44	Williams	2000 DU ₈₄
2000 DZ ₈₄	14.7	0.15	20000226	280.40648	118.19894	130.67651	13.74171	0.1814551	2.6785705	14	1	11 days	0.51	Williams	2000 DZ ₈₄
2000 DD ₈₅	14.2	0.15	20000226	82.17703	38.54028	15.87597	5.36149	0.1032899	2.7693469	17	1	9 days	0.49	Williams	2000 DD ₈₅
2000 DL ₈₅	15.5	0.15	20000226	32.17629	1.48520	104.51325	8.00117	0.1654929	2.7416067	24	1	30 days	0.45	Williams	2000 DL ₈₅
2000 DM ₈₅	14.8	0.15	20000226	258.36728	152.57708	126.17422	12.88444	0.2682963	2.6865093	27	1	12 days	0.69	Williams	2000 DM ₈₅
2000 DN ₈₅	14.1	0.15	20000226	23.75922	8.20270	115.64617	9.28710	0.0496591	3.0064571	13	1	9 days	0.41	Williams	2000 DN ₈₅
2000 DO ₈₅	14.9	0.15	20000226	64.45690	55.40944	8.68028	8.41812	0.1909880	2.5757770	35	1	11 days	0.55	Williams	2000 DO ₈₅
2000 DP ₈₅	14.7	0.15	20000226	112.75941	324.93044	60.21585	4.96575	0.1210999	2.5583248	18	1	9 days	0.64	Williams	2000 DP ₈₅
2000 DT ₈₅	14.7	0.15	20000226	206.06020	176.81123	130.46145	15.70792	0.0485739	2.6064113	12	1	8 days	0.82	Williams	2000 DT ₈₅
2000 DV ₈₅	14.9	0.15	20000206	230.11011	222.05780	71.38156	5.68634	0.2248031	2.5463220	21	1	35 days	0.57	Williams	2000 DV ₈₅
2000 DW ₈₅	14.4	0.15	20000226	188.71506	202.52575	119.95923	11.82158	0.0225525	3.0446716	20	1	9 days	0.71	Williams	2000 DW ₈₅
2000 DX ₈₅	14.6	0.15	20000226	26.10603	119.85403	350.95151	18.32162	0.1887193	3.1781149	16	1	12 days	0.37	Williams	2000 DX ₈₅
2000 DY ₈₅	16.2	0.15	20000226	19.57945	354.03224	122.56844	9.38305	0.2813146	2.6190894	14	1	9 days	0.34	Williams	2000 DY ₈₅
2000 DB ₈₆	15.2	0.15	20000226	315.46756	179.24743	37.49526	5.96334	0.2150570	2.9087744	20	1	5 days	0.75	E Williams	2000 DB ₈₆
2000 DC ₈₆	15.6	0.15	20000206	338.99507	168.66586	4.67789	10.20584	0.1389915	2.7049144	41	1	38 days	0.74	Williams	2000 DC ₈₆
2000 DE ₈₆	13.8	0.15	20000226	291.84249	119.77337	122.25392	10.98661	0.1969122	3.1793321	33	1	11 days	0.42	Williams	2000 DE ₈₆
2000 DG ₈₆	15.2	0.15	20000206	296.28562	113.85060	112.60450	6.59591	0.1464832	2.3712142	43	1	38 days	0.51	Williams	2000 DG ₈₆
2000 DH ₈₆	14.0	0.15	20000226	218.00968	303.79318	1.74457	10.91629	0.2171384	2.5641728	19	1	9 days	0.50	Williams	2000 DH ₈₆
2000 DJ ₈₆	14.9	0.15	20000206	210.19166	226.59652	79.68341	5.01426	0.1646572	2.2882960	35	1	35 days	0.59	Williams	2000 DJ ₈₆
2000 DL ₈₆	15.7	0.15	20000226	317.27860	119.28473	90.25479	4.70136	0.1489529	2.2529116	13	1	5 days	0.40	E Williams	2000 DL ₈₆
2000 DQ ₈₆	17.1	0.15	20000226	270.23659	272.74417	337.22962	7.06862	0.1025411	2.2851388	10	1	14 days	0.47	Williams	2000 DQ ₈₆
2000 DT ₈₆	14.8	0.15	20000206	182.27505	246.97092	80.30355	6.32049	0.0356827	2.5958051	23	1	38 days	0.40	Williams	2000 DT ₈₆
2000 DY ₈₆	16.3	0.15	20000226	321.17348	168.49673	40.26671	5.59084	0.1753383	2.3821644	13	1	11 days	0.53	Williams	2000 DY ₈₆
2000 DA ₈₇	15.0	0.15	20000226	171.91456	331.00395	11.38806	7.28153	0.0622318	2.6429545	34	1	30 days	0.52	Williams	2000 DA ₈₇
2000 DB ₈₇	14.4	0.15	20000226	327.05799	184.76782	10.42331	8.20755	0.1036703	3.1190236	13	1	5 days	0.53	E Williams	2000 DB ₈₇
2000 DC ₈₇	15.6	0.15	20000226	51.11267	92.29998	1.87624	8.48989	0.1058547	2.4247083	18	1	5 days	0.63	E Williams	2000 DC ₈₇
2000 DD ₈₇	14.5	0.15	20000206	44.93608	110.82773	350.74687	16.33516	0.0463199	2.7566648	47	1	38 days	0.50	Williams	2000 DD ₈₇
2000 DG ₈₇	14.0	0.15	20000226	78.86832	280.40989	134.22623	23.38348	0.1236508	3.0355731	13	1	9 days	0.61	Williams	2000 DG ₈₇
2000 DH ₈₇	16.3	0.15	20000226	323.66324	108.16734	102.82531	3.99092	0.2708811	2.4417750	12	1	5 days	0.51	E Williams	2000 DH ₈₇
2000 DJ ₈₇	13.6	0.15	20000226	133.24146	235.34241	137.08793	21.53823	0.0482451	3.0165377	13	1	5 days	0.37	E Williams	2000 DJ ₈₇
2000 DK ₈₇	13.5	0.15	20000226	81.76436	319.46798	87.71288	7.02930	0.1664298	3.2036212	13	1	12 days	0.45	Williams	2000 DK ₈₇
2000 DN ₈₇	14.0	0.15	20000226	97.99577	266.60531	123.94077	12.75556	0.1996192	2.7506175	12	1	6 days	0.54	E Williams	2000 DN ₈₇
2000 DQ ₈₇	16.2	0.15	20000226	320.87587	167.57111	30.02627	5.06914	0.0695188	2.2101787	11	1	5 days	0.40	E Williams	2000 DQ ₈₇
2000 DT ₈₇	15.2	0.15	20000226	43.67188	347.00856	107.86055	5.88368	0.1768778	2.4205178	21	1	30 days	0.56	Williams	2000 DT ₈₇
2000 DV ₈₇	13.7	0.15	20000226	270.31774	144.64269	105.43705	9.16371	0.0791747	3.0602694	16	1	12 days	0.43	Williams	2000 DV ₈₇
2000 DD ₈₈	15.9	0.15	20000226	249.21375	141.61135	135.73966	1.56755	0.1033546	2.2122374	15	1	11 days	0.62	Williams	2000 DD ₈₈
2000 DE ₈₈	15.6	0.15	20000226	339.41095	173.43558	12.95826	2.71561	0.1270872	2.6002604	26	1	12 days	0.33	Williams	2000 DE ₈₈
2000 DF ₈₈	14.6	0.15	20000226	281.98283	236.40041	22.89558	2.30936	0.1845679	2.4209602	31	1	30 days	0.30	Williams	2000 DF ₈₈
2000 DG ₈₈	13.8	0.15	20000226	5.17485	159.46496	354.36416	8.37892	0.1223115	3.9659832	31	1	12 days	0.83	Williams	2000 DG ₈₈
2000 DH ₈₈	13.0	0.15	20000226	184.93010	303.52631	33.57819	2.43280	0.1624982	2.9663561	29	1	11 days	0.54	Williams	2000 DH ₈₈
2000 DJ ₈₈	14.0	0.15	20000226	168.49664	284.37037	66.66592	1.91611	0.0560422	3.0749717	20	1	12 days	0.47	Williams	2000 DJ ₈₈
2000 DM ₈₈	14.5	0.15	20000226	39.49509	343.31859	129.19192	2.86105	0.1498442	3.0045731	19	1	14 days	0.63	Williams	2000 DM ₈₈
2000 DP ₈₈	16.0	0.15	20000226	81.51638	89.09533	333.38497	2.73275	0.1364185	2.2027978	31	1	11 days	0.88	Williams	2000 DP ₈₈
2000 DQ ₈₈	16.2	0.15	20000226	347.88557	22.68394	154.07925	23.76134	0.0426256	1.9439451	22	1	30 days	0.33	Williams	2000 DQ ₈₈
2000 DT ₈₈	16.7	0.15	20000226	1.97597	181.66305	339.98537	7.81495	0.0798275	2.7907271	11	1	14 days	0.18	Williams	2000 DT ₈₈
2000 DU ₈₈	16.7	0.15	20000226	55.18964	114.68319	342.13059	24.71568	0.1112831	2.6929084	9	1	15 days	0.33	Williams	2000 DU ₈₈
2000 DV ₈₈	14.8	0.15	20000226	276.11106	290.24205	346.79397	26.07307	0.2392243	3.1335917	14	1	14 days	0.47	Williams	2000 DV ₈₈
2000 DX ₈₈	16.3	0.15	20000226	86.34354	89.41272	341.31360	6.29346	0.0506332	2.2715547	9	1	15 days	0.20	Williams	2000 DX ₈₈
2000 DY ₈₈	16.9	0.15	20000226	326.26449	288.75089	276.92449	0.64035	0.2770200	3.1687956	9	1	12 days	0.42	Williams	2000 DY ₈₈
2000 DA ₈₉	17.1	0.15	20000226	180.21487	172.92547	156.33264	1.27129	0.1389489	2.2523252	9	1	15 days	0.36	Williams	2000 DA ₈₉
2000 DD ₈₉	17.1	0.15	20000226	80.89834	273.51957	148.37349	5.12164	0.0602690	2.7800785	9	1	15 days	0.23	Williams	2000 DD ₈₉

2000 MAR. 20

M.P.C. 39625

2000 DE ₈₉	16.0	0.15	20000226	138.17682	26.23888	334.64743	2.89075	0.1654671	2.2857899	15	1	15 days	0.40	Williams	2000 DE ₈₉
2000 DF ₈₉	16.4	0.15	20000226	203.48955	330.26343	342.13553	2.03316	0.1589440	2.4245896	9	1	15 days	0.15	Williams	2000 DF ₈₉
2000 DO ₈₉	17.1	0.15	20000226	292.41246	93.85584	140.93448	2.81922	0.1447563	2.3478280	13	1	15 days	0.18	Williams	2000 DO ₈₉
2000 DR ₈₉	13.9	0.15	20000226	330.33423	44.09816	140.65783	6.46205	0.1009319	5.4539397	9	1	15 days	0.17	Williams	2000 DR ₈₉
2000 DY ₈₉	17.0	0.15	20000226	359.66299	191.79579	313.47519	3.81847	0.1163342	2.3757683	9	1	11 days	0.12	Williams	2000 DY ₈₉
2000 DC ₉₀	16.1	0.15	20000226	219.53319	339.27214	314.08468	4.15984	0.1489024	2.3132848	9	1	11 days	0.10	Williams	2000 DC ₉₀
2000 DD ₉₀	16.7	0.15	20000226	33.01006	225.61000	235.15106	0.60381	0.1451031	2.6589083	12	1	16 days	0.13	Williams	2000 DD ₉₀
2000 DK ₉₀	16.7	0.15	20000226	71.29043	235.13677	181.23768	0.86294	0.1529106	2.4174093	12	1	16 days	0.14	Williams	2000 DK ₉₀
2000 DV ₉₀	17.3	0.15	20000226	83.53704	76.73575	322.87852	1.44560	0.2022011	2.3649067	12	1	16 days	0.22	Williams	2000 DV ₉₀
2000 DY ₉₀	16.0	0.15	20000226	59.40277	275.94079	139.50545	0.36821	0.2670099	3.2150687	9	1	11 days	0.11	Williams	2000 DY ₉₀
2000 DB ₉₁	16.6	0.15	20000226	353.61545	186.83271	330.83703	28.49102	0.1434268	3.1809647	12	1	14 days	0.21	Williams	2000 DB ₉₁
2000 DG ₉₁	17.1	0.15	20000226	14.34555	155.54428	334.31106	16.71704	0.1610409	3.1306624	9	1	14 days	0.19	Williams	2000 DG ₉₁
2000 DH ₉₁	13.8	0.15	20000226	208.05428	154.34429	166.20708	11.78422	0.1283457	3.1472802	30	1	15 days	1.38	Williams	2000 DH ₉₁
2000 DJ ₉₁	15.8	0.15	20000226	290.13794	79.78663	166.70233	8.07250	0.1277290	3.1504129	15	1	13 days	0.16	Williams	2000 DJ ₉₁
2000 DM ₉₁	16.9	0.15	20000226	168.35215	182.84586	168.03525	4.67500	0.1668981	2.5586351	12	1	11 days	0.19	Williams	2000 DM ₉₁
2000 DN ₉₁	14.5	0.15	20000226	148.43788	187.39640	179.80440	1.18932	0.1401253	3.2181661	12	1	13 days	0.49	Williams	2000 DN ₉₁
2000 DR ₉₁	16.8	0.15	20000226	6.03595	346.29033	169.40722	2.80753	0.0475715	2.6414392	9	1	10 days	0.18	Williams	2000 DR ₉₁
2000 DS ₉₁	19.1	0.15	20000226	18.58364	328.73073	164.13460	1.58552	0.1999461	2.2481478	9	1	11 days	0.24	Williams	2000 DS ₉₁
2000 DT ₉₁	16.5	0.15	20000226	274.24886	284.93828	340.99074	3.54809	0.1600275	2.2458190	21	1	13 days	0.58	Williams	2000 DT ₉₁
2000 DC ₉₂	13.9	0.15	20000206	308.96735	54.95047	178.28742	5.86661	0.0964813	3.0808697	24	1	34 days	0.44	Williams	2000 DC ₉₂
2000 DD ₉₂	14.4	0.15	20000226	84.04344	91.62100	359.70763	4.81982	0.0208019	3.0517529	20	1	16 days	0.40	Williams	2000 DD ₉₂
2000 DF ₉₂	14.4	0.15	20000226	255.82239	122.69963	172.19127	1.85578	0.1228547	2.7909310	15	1	13 days	0.48	Williams	2000 DF ₉₂
2000 DK ₉₂	15.1	0.15	20000226	91.59595	65.88915	3.13468	8.48642	0.1576610	2.7789817	9	1	12 days	0.31	Williams	2000 DK ₉₂
2000 DL ₉₂	14.9	0.15	20000226	352.94612	171.07501	14.95026	3.65277	0.1336703	2.6186946	25	1	16 days	0.37	Williams	2000 DL ₉₂
2000 DN ₉₂	15.6	0.15	20000206	343.99198	73.13597	120.38749	1.37799	0.2262275	2.6066262	38	1	32 days	0.59	Williams	2000 DN ₉₂
2000 DV ₉₂	18.7	0.15	20000226	353.65345	194.80035	333.90988	0.54646	0.2052758	2.1850583	11	1	10 days	0.60	Williams	2000 DV ₉₂
2000 DO ₉₃	16.8	0.15	20000226	55.38659	77.31932	358.52311	4.64052	0.1642712	2.5359922	17	1	13 days	0.46	Williams	2000 DO ₉₃
2000 DR ₉₃	17.2	0.15	20000226	315.40157	212.53295	356.93352	4.50376	0.1671842	2.3970939	16	1	13 days	1.17	Williams	2000 DR ₉₃
2000 DS ₉₃	16.3	0.15	20000226	348.01241	143.68600	23.43415	2.72272	0.1859375	2.5967903	17	1	13 days	0.41	Williams	2000 DS ₉₃
2000 DU ₉₃	13.0	0.15	20000226	212.93316	173.07342	132.24365	9.19745	0.2097935	2.7972466	22	1	30 days	0.47	Williams	2000 DU ₉₃
2000 DV ₉₃	15.9	0.15	20000226	40.72111	114.90435	342.57421	12.28388	0.1191356	2.7690918	15	1	13 days	0.50	Williams	2000 DV ₉₃
2000 DX ₉₃	13.1	0.15	20000226	143.18084	237.94292	114.23260	6.87275	0.2218385	3.0982264	16	1	10 days	0.49	Williams	2000 DX ₉₃
2000 DZ ₉₃	13.6	0.15	20000226	171.72179	342.85661	350.74912	6.72433	0.2164910	3.0514103	23	1	12 days	0.46	Williams	2000 DZ ₉₃
2000 DA ₉₄	14.2	0.15	20000226	45.38639	85.05226	16.40360	3.35629	0.0309288	2.7056462	19	1	12 days	0.45	Williams	2000 DA ₉₄
2000 DB ₉₄	15.8	0.15	20000226	291.22632	133.92541	104.97838	3.01328	0.1745159	2.3771570	22	1	15 days	0.63	Williams	2000 DB ₉₄
2000 DC ₉₄	11.6	0.15	20000226	89.79679	333.12611	61.95917	3.09303	0.2030159	5.2983389	17	1	12 days	0.56	Williams	2000 DC ₉₄
2000 DE ₉₄	14.4	0.15	20000226	310.86161	65.58771	142.07534	10.98731	0.0843813	3.0755090	22	1	30 days	0.44	Williams	2000 DE ₉₄
2000 DF ₉₄	14.9	0.15	20000226	348.92496	180.48914	342.24616	14.02026	0.0897262	2.8445278	13	1	10 days	0.55	Williams	2000 DF ₉₄
2000 DH ₉₄	14.9	0.15	20000206	341.69441	54.01557	118.07433	5.04701	0.2044006	2.6695211	38	1	35 days	0.37	Williams	2000 DH ₉₄
2000 DM ₉₄	14.5	0.15	20000226	93.62784	52.55745	349.15303	10.86559	0.1213371	2.7479151	18	1	10 days	0.50	Williams	2000 DM ₉₄
2000 DQ ₉₄	14.0	0.15	20000226	185.29312	179.32883	146.79561	22.84718	0.0512533	2.9917510	21	1	15 days	0.84	Williams	2000 DQ ₉₄
2000 DS ₉₄	14.1	0.15	20000226	80.73810	87.42842	336.69662	21.82847	0.0456904	3.1562031	27	1	29 days	0.40	Williams	2000 DS ₉₄
2000 DU ₉₄	16.1	0.15	20000226	314.16193	118.98522	85.96750	2.00920	0.0778403	2.1611272	19	1	15 days	0.64	Williams	2000 DU ₉₄
2000 DW ₉₄	15.0	0.15	20000226	213.66350	300.75072	0.82900	6.73982	0.0759862	2.2767144	14	1	12 days	0.41	Williams	2000 DW ₉₄
2000 DF ₉₅	13.8	0.15	20000226	165.29909	243.59675	101.32747	2.88090	0.0493374	3.1719669	13	1	12 days	0.24	Williams	2000 DF ₉₅
2000 DH ₉₅	16.8	0.15	20000206	319.98384	61.86741	140.17904	7.77883	0.1719115	2.5591046	28	1	39 days	0.80	Williams	2000 DH ₉₅
2000 DL ₉₅	13.3	0.15	20000226	354.72887	86.23136	72.21615	2.30140	0.0781232	3.9470116	12	1	13 days	0.52	Williams	2000 DL ₉₅
2000 DP ₉₅	14.2	0.15	20000226	7.64324	6.22305	137.99632	11.80091	0.0529734	2.7324266	18	1	13 days	0.93	Williams	2000 DP ₉₅
2000 DS ₉₅	14.6	0.15	20000226	12.46618	353.03168	144.06047	18.63513	0.1260190	3.0663359	12	1	10 days	0.39	Williams	2000 DS ₉₅
2000 DZ ₉₅	16.0	0.15	20000226	18.43463	115.82610	11.47892	3.88457	0.1358462	2.4263452	23	1	29 days	0.51	Williams	2000 DZ ₉₅
2000 DE ₉₆	15.5	0.15	20000226	66.13190	103.86253	316.40304	4.63006	0.1554791	2.3696895	12	1	9 days	0.59	Williams	2000 DE ₉₆
2000 DJ ₉₆	15.9	0.15	20000226	329.80886	46.73333	137.84398	2.54062	0.1378594	2.4227542	27	1	12 days	0.48	Williams	2000 DJ ₉₆
2000 DK ₉₆	14.7	0.15	20000226	195.37883	167.43515	145.84222	9.39469	0.2102929	2.2259876	21	1	11 days	0.61	Williams	2000 DK ₉₆

2000 DO ₉₆	14.8	0.15	20000226	85.99328	79.33877	323.75246	4.21053	0.1291483	2.6515968	22	1	14 days	1.32	Williams	2000 DO ₉₆
2000 DD ₉₇	15.6	0.15	20000226	308.89312	237.34298	344.24419	4.84420	0.2132194	2.3109117	27	1	29 days	0.43	Williams	2000 DD ₉₇
2000 DF ₉₇	16.6	0.15	20000226	39.60530	312.82146	154.47877	5.89452	0.0453326	2.3134357	16	1	12 days	0.43	Williams	2000 DF ₉₇
2000 DG ₉₇	16.8	0.15	20000226	76.12650	82.90228	334.35370	4.11742	0.1450309	2.2849866	15	1	12 days	0.34	Williams	2000 DG ₉₇
2000 DL ₉₇	15.0	0.15	20000206	198.46003	324.56145	348.45609	2.97966	0.1191748	2.6444096	35	1	35 days	0.58	Williams	2000 DL ₉₇
2000 DR ₉₇	15.6	0.15	20000226	48.53521	32.75632	50.55594	4.99734	0.1932439	2.4934625	11	1	8 days	1.05	Williams	2000 DR ₉₇
2000 DU ₉₇	13.0	0.15	20000226	125.85860	25.59290	350.74234	16.01043	0.1088889	3.1041419	15	1	12 days	0.24	Williams	2000 DU ₉₇
2000 DX ₉₇	15.1	0.15	20000206	295.15572	181.25896	47.53283	4.11892	0.1443606	2.5721368	38	1	38 days	0.40	Williams	2000 DX ₉₇
2000 DY ₉₇	13.9	0.15	20000226	103.57117	254.25635	136.08678	13.71475	0.1884353	2.6588928	14	1	11 days	0.35	Williams	2000 DY ₉₇
2000 DA ₉₈	15.8	0.15	20000206	352.33374	47.45676	108.39371	4.58456	0.0658480	2.1864859	38	1	39 days	0.42	Williams	2000 DA ₉₈
2000 DB ₉₈	13.3	0.15	20000226	255.94383	140.93308	126.24606	11.52179	0.0924748	3.0518217	18	1	12 days	0.38	Williams	2000 DB ₉₈
2000 DG ₉₈	15.3	0.15	20000226	162.21339	331.49670	18.75690	6.22623	0.0583061	2.7685270	18	1	11 days	0.68	Williams	2000 DG ₉₈
2000 DH ₉₈	15.7	0.15	20000226	73.21928	326.07535	101.33029	4.25079	0.1275745	2.1886172	13	1	9 days	0.72	Williams	2000 DH ₉₈
2000 DJ ₉₈	14.4	0.15	20000226	192.25958	195.78703	128.92075	10.21282	0.0732068	2.7363876	32	1	30 days	0.45	Williams	2000 DJ ₉₈
2000 DK ₉₈	14.6	0.15	20000226	277.36129	185.33309	65.84681	4.58985	0.1185341	2.6320538	14	1	8 days	0.47	Williams	2000 DK ₉₈
2000 DN ₉₈	15.3	0.15	20000226	48.43204	43.50374	51.55571	5.07827	0.1191707	2.6074160	12	1	11 days	0.45	Williams	2000 DN ₉₈
2000 DO ₉₈	13.6	0.15	20000206	130.88395	249.39800	123.27199	11.57017	0.1127095	2.9782715	38	1	38 days	0.43	Williams	2000 DO ₉₈
2000 DQ ₉₈	15.0	0.15	20000226	262.71129	150.99160	124.80992	8.01161	0.2122101	2.3391766	18	1	9 days	0.81	Williams	2000 DQ ₉₈
2000 DT ₉₈	15.2	0.15	20000226	248.06253	255.95141	30.42543	5.67691	0.2377764	2.1843801	11	1	9 days	0.37	Williams	2000 DT ₉₈
2000 DV ₉₈	14.4	0.15	20000226	332.08181	174.88118	6.51461	9.39388	0.0164543	3.0729096	13	1	11 days	0.41	Williams	2000 DV ₉₈
2000 DX ₉₈	15.6	0.15	20000206	339.48120	158.89244	14.67793	6.45241	0.0598141	3.2129951	27	1	35 days	0.77	Williams	2000 DX ₉₈
2000 DB ₉₉	14.7	0.15	20000226	179.11858	218.18040	114.65893	7.24656	0.1204865	2.3861389	11	1	9 days	0.38	Williams	2000 DB ₉₉
2000 DC ₉₉	17.1	0.15	20000226	302.34487	84.57809	145.71689	6.64237	0.1719312	2.2771884	22	1	16 days	0.45	Williams	2000 DC ₉₉
2000 DK ₉₉	16.2	0.15	20000206	80.32436	56.16292	358.97339	4.00506	0.1469520	2.3409397	27	1	36 days	0.71	Williams	2000 DK ₉₉
2000 DM ₉₉	15.3	0.15	20000226	121.45952	24.06310	2.53478	10.20967	0.0809787	2.2435011	12	1	8 days	0.65	Williams	2000 DM ₉₉
2000 DO ₉₉	15.6	0.15	20000206	101.40201	297.04392	96.97134	6.08564	0.1471659	2.2985746	27	1	38 days	0.50	Williams	2000 DO ₉₉
2000 DP ₉₉	13.3	0.15	20000226	2.31398	82.88661	69.74148	6.08328	0.1612318	3.9364090	23	1	30 days	0.51	Williams	2000 DP ₉₉
2000 DQ ₉₉	17.0	0.15	20000206	0.07589	47.89328	100.73894	4.51506	0.1735213	2.3686876	40	1	37 days	0.60	Williams	2000 DQ ₉₉
2000 DR ₉₉	13.9	0.15	20000226	90.65623	324.04934	97.61752	6.21905	0.0350276	2.7795029	24	1	30 days	0.40	Williams	2000 DR ₉₉
2000 DT ₉₉	13.1	0.15	20000226	155.65719	239.97434	116.42449	10.15240	0.0981606	3.1646869	19	1	12 days	0.39	Williams	2000 DT ₉₉
2000 DV ₉₉	14.9	0.15	20000206	206.08708	274.06019	37.48665	7.36667	0.1286854	2.4605136	28	1	35 days	0.41	Williams	2000 DV ₉₉
2000 DX ₉₉	15.9	0.15	20000226	90.75882	4.76747	45.26631	6.03993	0.1428823	2.2479884	24	1	12 days	0.39	Williams	2000 DX ₉₉
2000 DZ ₉₉	14.3	0.15	20000226	136.64309	350.82011	23.81929	9.37894	0.0756697	2.9684819	18	1	12 days	0.53	Williams	2000 DZ ₉₉
2000 DC ₁₀₀	16.7	0.15	20000226	23.40506	19.46619	108.91184	3.93959	0.1084993	2.1874131	17	1	11 days	0.54	Williams	2000 DC ₁₀₀
2000 DE ₁₀₀	13.8	0.15	20000226	49.78389	294.14762	96.88011	4.91009	0.6390418	3.1708992	13	1	12 days	0.42	Williams	2000 DE ₁₀₀
2000 DH ₁₀₀	16.2	0.15	20000226	25.16829	97.33895	21.20484	6.63089	0.2088272	2.5473103	14	1	11 days	0.49	Williams	2000 DH ₁₀₀
2000 DO ₁₀₀	16.0	0.15	20000226	327.06598	154.46620	47.83467	3.75909	0.1568914	2.3079330	15	1	12 days	0.39	Williams	2000 DO ₁₀₀
2000 DQ ₁₀₀	14.9	0.15	20000226	11.60380	55.67863	90.58661	5.47883	0.0153614	3.0819657	23	1	16 days	0.55	Williams	2000 DQ ₁₀₀
2000 DR ₁₀₀	13.3	0.15	20000226	200.28790	309.22483	13.41624	9.11833	0.1406969	3.0372419	23	1	30 days	0.45	Williams	2000 DR ₁₀₀
2000 DU ₁₀₀	14.0	0.15	20000226	244.51719	288.08466	2.10866	13.39968	0.1795123	2.6863331	13	1	12 days	0.49	Williams	2000 DU ₁₀₀
2000 DV ₁₀₀	15.5	0.15	20000226	62.86594	32.78882	34.04561	5.97350	0.2524437	2.5811338	16	1	12 days	0.60	Williams	2000 DV ₁₀₀
2000 DW ₁₀₀	15.0	0.15	20000226	200.37068	300.03944	23.44689	6.34779	0.1626420	2.3011154	22	1	30 days	0.65	Williams	2000 DW ₁₀₀
2000 DX ₁₀₀	16.4	0.15	20000226	106.67831	358.75878	37.43682	4.76532	0.1539452	2.1735466	14	1	11 days	0.43	Williams	2000 DX ₁₀₀
2000 DY ₁₀₀	13.5	0.15	20000226	197.73362	192.83519	131.63874	11.90056	0.0912716	3.0864476	13	1	9 days	0.39	Williams	2000 DY ₁₀₀
2000 DB ₁₀₁	14.7	0.15	20000226	85.71584	317.77444	100.40080	5.35809	0.1328549	2.3650084	22	1	30 days	0.73	Williams	2000 DB ₁₀₁
2000 DC ₁₀₁	15.3	0.15	20000226	318.86908	73.25668	138.82025	9.95703	0.1346044	2.5646239	24	1	30 days	0.41	Williams	2000 DC ₁₀₁
2000 DE ₁₀₁	13.3	0.15	20000206	234.17100	278.87833	9.35889	9.91839	0.0733572	3.0460608	28	1	37 days	0.39	Williams	2000 DE ₁₀₁
2000 DH ₁₀₁	12.4	0.15	20000226	155.60615	227.26809	130.72445	12.47437	0.1708412	3.1721542	14	1	12 days	0.46	Williams	2000 DH ₁₀₁
2000 DJ ₁₀₁	13.6	0.15	20000226	205.42488	264.01147	51.22359	6.03025	0.0221250	3.0687774	15	1	12 days	0.45	Williams	2000 DJ ₁₀₁
2000 DL ₁₀₁	15.1	0.15	20000226	246.56248	225.19051	56.59268	5.10756	0.0872165	2.3822529	13	1	12 days	0.57	Williams	2000 DL ₁₀₁
2000 DO ₁₀₁	12.9	0.15	20000206	50.09162	334.00023	129.52136	11.62488	0.0266486	3.1549185	33	1	38 days	0.37	Williams	2000 DO ₁₀₁
2000 DP ₁₀₁	15.7	0.15	20000226	39.77513	90.35938	20.51305	7.31619	0.0973534	2.3259725	17	1	12 days	0.60	Williams	2000 DP ₁₀₁
2000 DS ₁₀₁	13.8	0.15	20000226	37.25472	353.18932	126.18853	11.12755	0.0422619	2.9491542	11	1	12 days	0.49	Williams	2000 DS ₁₀₁

2000 MAR. 20

M.P.C. 39627

2000 DX ₁₀₁	14.2	0.15	20000226	248.42677	232.87354	45.71437	6.81519	0.0698784	2.7581168	13	1	12 days	0.49	Williams	2000 DX ₁₀₁
2000 DY ₁₀₁	13.5	0.15	20000226	139.80590	252.37845	121.06043	7.14231	0.1078168	3.1865602	18	1	12 days	0.35	Williams	2000 DY ₁₀₁
2000 DZ ₁₀₁	13.7	0.15	20000226	229.70972	154.93708	144.14567	15.38311	0.1000881	2.5578498	15	1	12 days	0.32	Williams	2000 DZ ₁₀₁
2000 DB ₁₀₂	12.7	0.15	20000226	221.83322	308.25218	4.11173	13.45278	0.2245104	3.3540082	12	1	5 days	0.38	E Williams	2000 DB ₁₀₂
2000 DC ₁₀₂	14.1	0.15	20000226	322.10575	57.05889	147.50379	17.79084	0.0757442	2.8072448	19	1	30 days	0.40	Williams	2000 DC ₁₀₂
2000 DD ₁₀₂	15.3	0.15	20000226	60.85052	306.07122	135.16924	8.63015	0.1667996	2.4235439	15	1	12 days	0.36	Williams	2000 DD ₁₀₂
2000 DE ₁₀₂	16.1	0.15	20000226	307.20735	118.73804	108.80645	4.62909	0.1449325	2.3115308	14	1	12 days	0.60	Williams	2000 DE ₁₀₂
2000 DH ₁₀₂	14.8	0.15	20000206	250.66315	170.39563	111.57934	6.19384	0.1744467	2.2545250	26	1	37 days	0.66	Williams	2000 DH ₁₀₂
2000 DJ ₁₀₂	13.8	0.15	20000226	98.89021	290.52706	126.84314	10.66198	0.0406182	3.0872630	13	1	9 days	0.42	Williams	2000 DJ ₁₀₂
2000 DK ₁₀₂	15.3	0.15	20000226	44.92387	17.04445	71.63369	4.65483	0.2619752	2.6089490	24	1	30 days	0.49	Williams	2000 DK ₁₀₂
2000 DN ₁₀₂	15.9	0.15	20000226	12.59644	68.91963	76.29878	4.55516	0.0854877	2.4049246	17	1	12 days	0.35	Williams	2000 DN ₁₀₂
2000 DP ₁₀₂	13.5	0.15	20000226	94.93764	41.99873	14.31551	9.52616	0.0825416	3.0887871	20	1	12 days	0.43	Williams	2000 DP ₁₀₂
2000 DQ ₁₀₂	14.8	0.15	20000226	150.22470	255.44968	109.21887	5.71297	0.1161917	2.2855119	14	1	12 days	0.38	Williams	2000 DQ ₁₀₂
2000 DS ₁₀₂	13.4	0.15	20000226	164.64715	338.55478	14.18241	10.31127	0.1223147	2.9658221	15	1	12 days	0.40	Williams	2000 DS ₁₀₂
2000 DV ₁₀₂	13.0	0.15	20000226	105.86236	247.02022	145.25096	15.33457	0.2454830	3.1471220	30	1	12 days	0.51	Williams	2000 DV ₁₀₂
2000 DW ₁₀₂	16.1	0.15	20000226	17.98426	54.74156	80.08760	3.36515	0.1736146	2.4162923	23	1	30 days	0.39	Williams	2000 DW ₁₀₂
2000 DX ₁₀₂	13.6	0.15	20000226	238.29960	154.80534	135.72572	10.18690	0.0707353	3.0874944	22	1	30 days	0.50	Williams	2000 DX ₁₀₂
2000 DY ₁₀₂	15.7	0.15	20000226	79.12196	27.97274	34.72999	4.87551	0.1661242	2.2788931	25	1	12 days	0.54	Williams	2000 DY ₁₀₂
2000 DZ ₁₀₂	12.9	0.15	20000226	165.96727	218.14624	134.91475	11.47980	0.1330949	2.9660218	15	1	12 days	0.35	Williams	2000 DZ ₁₀₂
2000 DC ₁₀₃	13.8	0.15	20000226	244.01861	282.43033	13.63376	9.53685	0.2070896	2.5780082	28	1	12 days	0.40	Williams	2000 DC ₁₀₃
2000 DD ₁₀₃	15.2	0.15	20000226	118.08907	339.75698	48.26866	5.14488	0.1662012	2.2794859	18	1	12 days	0.43	Williams	2000 DD ₁₀₃
2000 DE ₁₀₃	14.9	0.15	20000226	336.12268	176.78285	12.56173	10.19374	0.0851158	2.9757838	13	1	9 days	0.70	Williams	2000 DE ₁₀₃
2000 DJ ₁₀₃	14.1	0.15	20000226	13.23770	136.57247	7.09431	13.88228	0.0969062	3.1327137	17	1	12 days	0.49	Williams	2000 DJ ₁₀₃
2000 DK ₁₀₃	15.9	0.15	20000226	45.44537	52.27736	49.76736	5.57774	0.1343024	2.3195560	11	1	12 days	0.62	Williams	2000 DK ₁₀₃
2000 DM ₁₀₃	14.1	0.15	20000226	97.73400	16.86193	40.93851	6.95310	0.0532837	3.0405158	12	1	12 days	0.45	Williams	2000 DM ₁₀₃
2000 DO ₁₀₃	13.6	0.15	20000226	289.28137	142.32594	105.35059	7.86640	0.1334561	3.0969950	15	1	12 days	0.42	Williams	2000 DO ₁₀₃
2000 DR ₁₀₃	13.6	0.15	20000226	194.00527	234.60914	96.12798	4.92712	0.1008521	2.7156009	17	1	30 days	0.43	Williams	2000 DR ₁₀₃
2000 DS ₁₀₃	13.1	0.15	20000226	207.46044	311.75884	8.21250	11.91852	0.1109322	3.2178206	14	1	12 days	0.49	Williams	2000 DS ₁₀₃
2000 DT ₁₀₃	13.6	0.15	20000226	135.67045	20.93903	3.99204	12.26860	0.0165315	2.8080410	19	1	30 days	0.29	Williams	2000 DT ₁₀₃
2000 DU ₁₀₃	13.4	0.15	20000206	94.65941	49.06266	7.13189	11.39398	0.0716819	3.1668713	16	1	37 days	0.36	Williams	2000 DU ₁₀₃
2000 DV ₁₀₃	14.0	0.15	20000226	249.81723	210.65900	71.39845	4.83621	0.0953741	2.5864665	15	1	12 days	0.29	Williams	2000 DV ₁₀₃
2000 DZ ₁₀₃	15.3	0.15	20000226	168.95361	315.53121	37.50427	5.91304	0.0146605	2.4316563	13	1	12 days	0.30	Williams	2000 DZ ₁₀₃
2000 DE ₁₀₄	14.5	0.15	20000226	299.44797	115.67493	122.94625	6.83449	0.1312339	3.1325789	28	1	30 days	0.56	Williams	2000 DE ₁₀₄
2000 DG ₁₀₄	13.3	0.15	20000226	173.45600	337.78777	12.06851	12.11087	0.0360152	3.1691862	17	1	12 days	0.85	Williams	2000 DG ₁₀₄
2000 DH ₁₀₄	14.4	0.15	20000226	134.84319	313.47055	62.42151	5.23798	0.1863609	2.2953762	14	1	12 days	0.35	Williams	2000 DH ₁₀₄
2000 DL ₁₀₄	14.1	0.15	20000226	274.66083	236.68196	26.56959	8.52976	0.1392908	2.6227819	17	1	12 days	0.36	Williams	2000 DL ₁₀₄
2000 DN ₁₀₄	13.6	0.15	20000206	82.63406	308.35645	114.83997	8.79212	0.1126864	2.7685199	25	1	37 days	0.46	Williams	2000 DN ₁₀₄
2000 DP ₁₀₄	15.8	0.15	20000226	309.59961	158.03917	68.62154	6.01849	0.1432218	2.4155506	16	1	12 days	0.61	Williams	2000 DP ₁₀₄
2000 DS ₁₀₄	15.2	0.15	20000226	240.64906	186.80776	107.98370	6.45197	0.1272341	2.3471868	13	1	12 days	0.50	Williams	2000 DS ₁₀₄
2000 DW ₁₀₄	16.5	0.15	20000226	298.64196	113.61125	129.80693	7.34052	0.2103119	2.3052614	18	1	12 days	0.40	Williams	2000 DW ₁₀₄
2000 DY ₁₀₄	15.2	0.15	20000226	77.41290	315.09570	113.21514	7.49844	0.1174329	2.4608406	11	1	9 days	0.66	Williams	2000 DY ₁₀₄
2000 DC ₁₀₅	13.8	0.15	20000226	206.22090	189.89710	132.99174	11.83395	0.0901115	3.1187490	11	1	12 days	0.59	Williams	2000 DC ₁₀₅
2000 DD ₁₀₅	16.3	0.15	20000226	36.67420	330.70505	138.92029	4.18542	0.1507093	2.5639877	24	1	12 days	0.50	Williams	2000 DD ₁₀₅
2000 DE ₁₀₅	16.3	0.15	20000226	15.23731	347.50630	148.94780	7.56101	0.1741039	2.5504808	24	1	14 days	1.41	Williams	2000 DE ₁₀₅
2000 DF ₁₀₅	15.3	0.15	20000226	181.96272	193.88445	143.52311	6.74304	0.1622417	2.2874397	13	1	12 days	0.45	Williams	2000 DF ₁₀₅
2000 DH ₁₀₅	14.6	0.15	20000226	181.86448	37.10920	306.94433	0.91910	0.1834540	2.6028375	22	1	12 days	0.56	Williams	2000 DH ₁₀₅
2000 DN ₁₀₅	13.1	0.15	20000226	142.32757	304.50078	70.54280	5.18172	0.1386157	3.2119324	12	1	12 days	0.60	Williams	2000 DN ₁₀₅
2000 DO ₁₀₅	15.7	0.15	20000226	272.59897	163.76769	102.14510	5.22281	0.1256571	2.3218890	14	1	12 days	0.45	Williams	2000 DO ₁₀₅
2000 DQ ₁₀₅	14.3	0.15	20000226	283.38235	121.29039	148.68084	14.83421	0.2405239	2.6361278	14	1	12 days	0.35	Williams	2000 DQ ₁₀₅
2000 DW ₁₀₅	15.6	0.15	20000226	106.49168	307.44965	96.32717	5.29077	0.1341007	2.1658212	13	1	12 days	0.46	Williams	2000 DW ₁₀₅
2000 DX ₁₀₅	13.7	0.15	20000206	27.15961	356.02259	132.40818	10.28295	0.0963795	3.0707292	24	1	37 days	0.57	Williams	2000 DX ₁₀₅
2000 DY ₁₀₅	13.0	0.15	20000226	107.59378	258.93114	149.63317	20.82110	0.1025101	3.1697829	14	1	12 days	0.43	Williams	2000 DY ₁₀₅
2000 DC ₁₀₆	13.7	0.15	20000226	145.98135	336.17808	37.59601	8.18002	0.0807335	3.0387762	12	1	12 days	0.48	Williams	2000 DC ₁₀₆

2000 DD ₁₀₆	13.3	0.15	20000226	245.45121	156.34152	133.29010	12.08764	0.1028724	2.7243124	15	1	12 days	0.66	Williams	2000 DD ₁₀₆
2000 DE ₁₀₆	14.7	0.15	20000226	276.81304	207.06722	60.54475	6.05342	0.1744064	2.5608805	13	1	12 days	0.43	Williams	2000 DE ₁₀₆
2000 DS ₁₀₆	13.9	0.15	20000206	158.74356	223.86907	139.78901	12.94988	0.0936850	3.1831517	20	1	40 days	0.49	Williams	2000 DS ₁₀₆
2000 DV ₁₀₆	14.7	0.15	20000226	44.91853	334.03291	139.34582	13.32578	0.0965830	2.8124183	12	1	12 days	0.41	Williams	2000 DV ₁₀₆
2000 DX ₁₀₆	14.5	0.15	20000226	143.52052	274.64098	97.13982	6.81244	0.1965173	2.2451755	13	1	12 days	0.42	Williams	2000 DX ₁₀₆
2000 DZ ₁₀₆	15.1	0.15	20000226	89.69231	8.59020	59.78580	6.60555	0.0727019	2.3912385	12	1	12 days	0.34	Williams	2000 DZ ₁₀₆
2000 DA ₁₀₇	16.8	0.15	20000206	24.22874	17.02758	112.61127	5.30915	0.0904745	2.2204492	19	1	40 days	0.57	Williams	2000 DA ₁₀₇
2000 DC ₁₀₇	13.3	0.15	20000226	269.29428	229.62595	34.53845	9.95363	0.0433096	3.1399705	12	1	12 days	0.32	Williams	2000 DC ₁₀₇
2000 DE ₁₀₇	13.5	0.15	20000226	225.90849	260.65149	49.93670	7.74407	0.0912967	3.0227341	13	1	12 days	0.33	Williams	2000 DE ₁₀₇
2000 DH ₁₀₇	13.0	0.15	20000226	234.17419	163.70305	153.18871	21.01122	0.2391913	3.0837704	27	1	32 days	0.50	Williams	2000 DH ₁₀₇
2000 DL ₁₀₇	14.9	0.15	20000226	330.36809	139.65088	66.62886	6.78371	0.1036537	2.7330463	13	1	12 days	0.43	Williams	2000 DL ₁₀₇
2000 DO ₁₀₇	14.6	0.15	20000226	103.42271	197.66446	215.70142	1.05589	0.1059372	2.9591016	17	1	11 days	0.34	Williams	2000 DO ₁₀₇
2000 DP ₁₀₇	17.8	0.15	20000226	263.67220	289.49349	358.88340	8.66475	0.3766052	1.3648836	137	1	15 days	0.63	Williams	2000 DP ₁₀₇
2000 DX ₁₀₇	15.1	0.15	20000226	131.89587	263.76538	99.24519	8.32732	0.1129367	2.3082505	10	1	10 days	0.63	Williams	2000 DX ₁₀₇
2000 DA ₁₀₈	15.8	0.15	20000226	325.45463	91.78662	103.94483	3.33425	0.1415096	2.4227635	14	1	12 days	0.58	Williams	2000 DA ₁₀₈
2000 DF ₁₀₈	13.5	0.15	20000226	102.07129	243.88628	139.98677	13.31002	0.2521724	3.0006339	11	1	13 days	0.55	Williams	2000 DF ₁₀₈
2000 DG ₁₀₈	17.3	0.15	20000206	332.29786	101.62568	82.16487	3.04924	0.1529441	2.3912034	28	1	35 days	0.73	Williams	2000 DG ₁₀₈
2000 DO ₁₀₈	14.8	0.15	20000226	52.31643	117.47667	333.14692	7.79393	0.0557396	2.9754193	16	1	11 days	0.49	Williams	2000 DO ₁₀₈
2000 DP ₁₀₈	16.8	0.15	20000226	22.49296	308.73006	176.17446	3.21623	0.1107752	2.3316050	24	1	15 days	0.48	Williams	2000 DP ₁₀₈
2000 DV ₁₀₈	14.0	0.15	20000226	233.48295	162.34862	122.99165	10.88594	0.0427449	3.0158861	14	1	11 days	0.55	Williams	2000 DV ₁₀₈
2000 DZ ₁₀₈	15.7	0.15	20000226	94.20028	62.72331	340.52344	4.93219	0.1495343	2.3048814	34	1	29 days	0.75	Williams	2000 DZ ₁₀₈
2000 DA ₁₀₉	14.4	0.15	20000226	80.60312	304.57015	122.81736	3.15501	0.0518307	2.9213227	13	1	11 days	0.66	Williams	2000 DA ₁₀₉
2000 DH ₁₀₉	15.3	0.15	20000226	63.88469	253.32921	188.62742	1.60692	0.1159793	2.6028532	14	1	11 days	0.60	Williams	2000 DH ₁₀₉
2000 DM ₁₀₉	14.7	0.15	20000226	71.42560	81.83670	347.20512	27.83102	0.1359054	2.6058775	15	1	12 days	0.52	Williams	2000 DM ₁₀₉
2000 DN ₁₀₉	14.2	0.15	20000206	296.16958	206.47809	14.85760	10.13730	0.0462735	2.9951446	29	1	38 days	0.53	Williams	2000 DN ₁₀₉
2000 DS ₁₀₉	15.1	0.15	20000226	338.54957	29.86160	159.40522	22.28365	0.1570864	3.0297597	11	1	11 days	0.44	Williams	2000 DS ₁₀₉
2000 DT ₁₀₉	14.7	0.15	20000226	133.20459	253.36700	129.76611	2.28755	0.0696216	2.6143917	13	1	11 days	0.56	Williams	2000 DT ₁₀₉
2000 DU ₁₀₉	15.6	0.15	20000226	311.87242	67.52544	156.73101	3.23784	0.1466551	2.4064223	13	1	11 days	0.49	Williams	2000 DU ₁₀₉
2000 DV ₁₀₉	17.4	0.15	20000226	324.29295	219.23622	350.46486	2.62064	0.1566751	2.0995014	16	1	11 days	0.73	Williams	2000 DV ₁₀₉
2000 DW ₁₀₉	17.0	0.15	20000226	29.56543	256.21108	227.46477	1.98713	0.0925116	2.2979455	14	1	11 days	0.76	Williams	2000 DW ₁₀₉
2000 DC ₁₁₀	14.2	0.15	20000226	214.46533	158.84689	159.57753	10.64898	0.0801125	3.1215034	12	1	11 days	0.57	Williams	2000 DC ₁₁₀
2000 DG ₁₁₀	14.4	0.15	20000226	69.95790	82.08362	18.51116	22.12785	0.0828843	2.5623102	20	1	12 days	0.43	Williams	2000 DG ₁₁₀
2000 DH ₁₁₀	14.6	0.15	20000226	304.99690	177.68147	72.50662	2.20951	0.1852692	3.1964624	19	1	15 days	1.12	Williams	2000 DH ₁₁₀
2000 DJ ₁₁₀	16.2	0.15	20000226	57.87425	305.77567	140.58191	5.91100	0.1455996	2.9733305	13	1	8 days	0.67	Marsden	2000 DJ ₁₁₀
2000 DK ₁₁₀	14.1	0.15	20000206	318.46971	221.92958	349.24338	16.57937	0.1629660	3.1162729	35	1	37 days	0.47	Williams	2000 DK ₁₁₀
2000 DL ₁₁₀	15.7	0.15	20000206	351.55378	157.21806	8.60079	4.44261	0.1347559	2.7990427	30	1	38 days	0.66	Williams	2000 DL ₁₁₀
2000 DM ₁₁₀	15.1	0.15	20000226	258.66408	163.44583	109.30691	3.35406	0.0957036	3.1533517	22	1	12 days	0.63	Williams	2000 DM ₁₁₀
2000 DQ ₁₁₀	16.4	0.15	20000226	19.33648	95.59893	347.95076	58.33767	0.6318641	3.3502971	131	1	17 days	0.68	Williams	2000 DQ ₁₁₀
2000 DR ₁₁₀	14.9	0.15	20000226	106.25717	51.43346	6.66456	22.29977	0.0575301	2.6330745	6	1	14 days	0.13	Williams	2000 DR ₁₁₀
2000 EA	14.9	0.15	20000226	20.25642	157.63170	345.52455	3.94106	0.0197895	2.6709977	63	1	18 days	0.69	Williams	2000 EA
2000 EC	15.8	0.15	20000226	345.36507	198.50452	345.06253	6.59210	0.0928466	2.2780507	44	1	24 days	0.82	Williams	2000 EC
2000 ED	13.2	0.15	20000226	343.66239	101.31895	91.06061	9.98836	0.1645422	2.4428921	14	1	11 days	1.25	Williams	2000 ED
2000 EE	12.8	0.15	20000226	353.74248	99.53752	78.23667	13.08526	0.1002689	2.7040509	16	1	14 days	0.56	Williams	2000 EE
2000 EF	12.9	0.15	20000226	291.13364	180.50913	78.20575	13.08749	0.1629863	2.6698091	10	1	14 days	0.64	Williams	2000 EF
2000 EK	16.1	0.15	20000226	198.07220	83.77316	247.16187	1.21952	0.1539334	2.4199789	7	1	8 days	0.18	Williams	2000 EK
2000 EL	17.2	0.15	20000206	28.28426	150.36127	320.68888	2.23117	0.2168545	2.2935743	14	1	34 days	0.72	Williams	2000 EL
2000 EM	15.2	0.15	20000226	69.62256	63.18346	19.80390	5.80110	0.1545787	3.1036726	8	1	9 days	0.41	Williams	2000 EM
2000 EN	16.4	0.15	20000226	117.69070	35.55464	5.82247	9.51729	0.1027442	2.3687069	8	1	10 days	0.47	Williams	2000 EN
2000 EO	14.2	0.15	20000226	274.75603	109.86957	182.15421	1.72860	0.1219706	2.9744838	22	1	10 days	0.35	Williams	2000 EO
2000 EP	15.9	0.15	20000226	21.34532	182.08944	313.93320	0.75352	0.1841538	2.9440920	23	1	9 days	1.14	Williams	2000 EP
2000 ER	14.9	0.15	20000226	281.93568	236.89283	26.49732	4.10025	0.1412911	2.6404801	16	1	11 days	0.54	Williams	2000 ER
2000 ES	15.6	0.15	20000226	313.83495	18.11505	231.60664	3.13370	0.3142835	2.3799409	21	1	9 days	0.41	Williams	2000 ES
2000 EU	14.9	0.15	20000226	240.32398	307.08714	0.45034	4.81766	0.1637121	2.3198358	17	1	13 days	0.86	Williams	2000 EU

2000 MAR. 20

M.P.C. 39629

2000 EW	15.3	0.15	20000226	313.97901	227.94874	8.21351	7.71842	0.1018382	2.2106372	15	1	8 days	0.44	Williams	2000 EW
2000 EX	14.5	0.15	20000226	65.93938	267.50153	188.53746	8.23688	0.2204704	2.9073333	21	1	7 days	0.58	Williams	2000 EX
2000 ED ₁	16.2	0.15	20000226	321.16165	45.52784	152.79814	3.12029	0.1074430	2.3485956	34	1	16 days	0.59	Williams	2000 ED ₁
2000 EE ₁	16.3	0.15	20000226	313.73950	248.20044	319.96188	1.69036	0.1185636	2.3973264	29	1	16 days	0.79	Williams	2000 EE ₁
2000 EJ ₁	15.6	0.15	20000226	214.75653	328.56283	334.97107	10.65704	0.1291334	2.4452345	15	1	7 days	0.33	Williams	2000 EJ ₁
2000 EK ₁	14.7	0.15	20000226	166.23310	358.39860	343.66755	3.47712	0.0635376	3.2442894	18	1	9 days	0.42	Williams	2000 EK ₁
2000 EN ₁	16.7	0.15	20000226	10.50256	160.91068	334.54198	8.48413	0.2612551	2.8030454	12	1	8 days	0.79	Williams	2000 EN ₁
2000 EQ ₁	15.3	0.15	20000226	82.84104	107.53042	314.16410	2.78992	0.0756922	2.7974075	19	1	8 days	0.50	Williams	2000 EQ ₁
2000 ET ₁	18.0	0.15	20000226	323.61265	283.34066	296.24169	2.31716	0.2912925	2.0298598	12	1	2 days	0.86	E Williams	2000 ET ₁
2000 EU ₁	14.8	0.15	20000226	249.08439	30.20467	245.36258	2.65827	0.0830356	2.8445145	19	1	8 days	0.39	Williams	2000 EU ₁
2000 EV ₁	16.1	0.15	20000226	32.84804	299.06186	180.43002	5.50612	0.0581667	2.3654234	11	1	8 days	0.45	Williams	2000 EV ₁
2000 EY ₁	13.7	0.15	20000226	138.23874	249.14393	118.35939	3.25773	0.1417027	2.8925811	14	1	2 days	0.36	E Williams	2000 EY ₁
2000 EZ ₁	16.8	0.15	20000226	48.11289	320.17309	127.20962	2.83154	0.2020112	2.4896273	17	1	8 days	0.53	Williams	2000 EZ ₁
2000 EB ₂	16.0	0.15	20000226	179.44210	171.75574	165.70935	6.14582	0.0462490	2.1774721	26	1	11 days	0.53	Williams	2000 EB ₂
2000 EC ₂	16.6	0.15	20000226	109.52855	44.40833	350.78674	5.67338	0.1334832	2.1821052	34	1	15 days	0.64	Williams	2000 EC ₂
2000 EH ₂	16.5	0.15	20000226	58.14776	279.90458	155.58034	1.20424	0.2428569	3.1724601	16	1	12 days	0.55	Williams	2000 EH ₂
2000 EJ ₂	14.8	0.15	20000226	135.63701	122.82739	249.54731	0.52109	0.1898176	2.5975184	13	1	8 days	0.86	Williams	2000 EJ ₂
2000 EK ₂	15.0	0.15	20000226	331.48575	31.00578	172.06333	6.11988	0.2039579	3.0777955	13	1	8 days	0.51	Williams	2000 EK ₂
2000 EM ₂	17.5	0.15	20000226	353.69167	214.57437	314.77607	1.85752	0.1991046	2.2909180	19	1	8 days	0.38	Williams	2000 EM ₂
2000 EN ₂	15.1	0.15	20000226	86.89072	143.76836	268.75072	1.55416	0.1935842	2.3733315	11	1	8 days	0.60	Williams	2000 EN ₂
2000 EO ₂	15.6	0.15	20000226	22.84160	348.77064	141.19160	3.80947	0.1464301	2.9719951	30	1	12 days	0.49	Williams	2000 EO ₂
2000 EP ₂	15.4	0.15	20000226	102.78277	55.20926	351.75949	7.66988	0.0986891	2.2295296	28	1	11 days	0.57	Williams	2000 EP ₂
2000 EQ ₂	16.0	0.15	20000226	279.14500	55.87215	198.93152	4.12968	0.0881573	2.3373931	17	1	8 days	0.52	Williams	2000 EQ ₂
2000 ES ₂	17.7	0.15	20000226	15.03137	168.49131	333.39788	3.48076	0.1444568	2.2601120	21	1	8 days	0.73	Williams	2000 ES ₂
2000 ET ₂	16.9	0.15	20000226	65.57056	108.31200	336.50420	5.82512	0.1148591	2.2227337	38	1	15 days	0.63	Williams	2000 ET ₂
2000 EU ₂	17.9	0.15	20000226	343.54332	216.51560	329.83291	2.43882	0.1778024	2.4592618	17	1	9 days	0.99	Williams	2000 EU ₂
2000 EV ₂	17.5	0.15	20000226	357.50537	335.91681	189.78638	1.76975	0.0974262	2.2035696	15	1	2 days	0.96	E Williams	2000 EV ₂
2000 EY ₂	15.2	0.15	20000226	134.02065	208.10318	172.63652	7.08581	0.1350867	2.8026302	18	1	9 days	0.56	Williams	2000 EY ₂
2000 EZ ₂	15.2	0.15	20000226	174.13262	128.06016	220.29181	1.11670	0.2951203	2.8017128	10	1	9 days	0.59	Williams	2000 EZ ₂
2000 EA ₃	16.2	0.15	20000226	316.57388	56.57965	158.42053	2.71925	0.0955079	2.2384026	14	1	8 days	0.43	Williams	2000 EA ₃
2000 EB ₃	15.2	0.15	20000226	353.82583	10.51245	161.58723	4.22004	0.1204775	2.7973008	15	1	8 days	0.51	Williams	2000 EB ₃
2000 EC ₃	15.1	0.15	20000226	310.01927	61.91866	162.04503	6.68563	0.0991360	2.7635795	13	1	8 days	0.52	Williams	2000 EC ₃
2000 ED ₃	16.7	0.15	20000226	20.37059	345.90422	149.39266	1.59137	0.1549838	2.3213702	12	1	8 days	0.38	Williams	2000 ED ₃
2000 EE ₃	17.2	0.15	20000226	326.61218	38.60016	164.22115	5.47854	0.0850561	2.1961331	18	1	8 days	0.49	Williams	2000 EE ₃
2000 EF ₃	16.6	0.15	20000226	340.33098	198.61035	349.45020	7.11335	0.1113474	2.3222576	21	1	12 days	0.32	Williams	2000 EF ₃
2000 EG ₃	15.5	0.15	20000226	290.75745	66.59181	177.36943	11.43080	0.0932127	2.5791183	26	1	8 days	0.64	Williams	2000 EG ₃
2000 EH ₃	15.3	0.15	20000226	308.98336	252.23540	336.86901	12.09504	0.1269950	3.1382070	24	1	11 days	0.66	Williams	2000 EH ₃
2000 EJ ₃	14.8	0.15	20000226	228.06918	135.41882	181.74766	8.63781	0.2949342	2.2889543	14	1	8 days	0.43	Williams	2000 EJ ₃
2000 EK ₃	15.0	0.15	20000206	270.34382	90.20332	176.36306	9.88768	0.1523420	2.4544815	39	1	32 days	0.71	Williams	2000 EK ₃
2000 EM ₃	16.1	0.15	20000226	206.45990	175.30424	148.65226	4.99003	0.1210397	2.1678382	16	1	8 days	0.45	Williams	2000 EM ₃
2000 EN ₃	17.4	0.15	20000226	21.61307	109.06473	22.93893	2.16172	0.1805642	2.2189191	14	1	8 days	0.61	Williams	2000 EN ₃
2000 EO ₃	14.8	0.15	20000226	272.44472	222.87760	47.94337	2.02997	0.1566455	2.6668689	24	1	9 days	0.83	Williams	2000 EO ₃
2000 EP ₃	14.8	0.15	20000226	82.11027	21.32977	52.43932	1.58225	0.0897197	3.0591698	23	1	11 days	0.64	Williams	2000 EP ₃
2000 EQ ₃	14.6	0.15	20000226	35.04285	338.80162	143.45871	3.57119	0.1042996	2.5713477	25	1	30 days	0.36	Williams	2000 EQ ₃
2000 ER ₃	15.7	0.15	20000226	309.45372	236.69577	353.36188	13.75444	0.1478750	2.6481972	16	1	8 days	0.55	Williams	2000 ER ₃
2000 EU ₃	16.4	0.15	20000226	63.22770	291.64738	162.23587	2.83816	0.0698346	2.4587854	14	1	8 days	0.61	Williams	2000 EU ₃
2000 EV ₃	14.3	0.15	20000226	241.42167	12.66480	299.27202	0.94018	0.2923794	2.7038374	22	1	8 days	0.50	Williams	2000 EV ₃
2000 EA ₄	15.9	0.15	20000206	13.33300	71.58663	57.23320	3.47202	0.1279448	2.4334463	36	1	38 days	0.40	Williams	2000 EA ₄
2000 EC ₄	14.9	0.15	20000226	334.86350	237.19069	351.80893	4.63957	0.2155645	3.1406926	9	1	5 days	0.63	E Williams	2000 EC ₄
2000 ED ₄	14.9	0.15	20000226	20.18042	233.04279	287.16858	2.36481	0.0512458	2.7590304	10	1	3 days	0.41	E Williams	2000 ED ₄
2000 EE ₄	15.6	0.15	20000226	60.18326	245.34881	227.15360	3.06709	0.0732067	2.3386850	11	1	3 days	0.39	E Williams	2000 EE ₄
2000 EG ₄	15.6	0.15	20000226	9.82520	350.26334	150.88272	34.95794	0.1885261	2.5974575	14	1	30 days	0.48	Williams	2000 EG ₄
2000 EH ₄	14.6	0.15	20000226	8.07946	160.01147	343.91693	30.07418	0.1072092	2.5664452	44	1	27 days	0.48	Williams	2000 EH ₄

2000 EJ ₄	16.2	0.15	20000226	309.85200	220.40695	10.15516	0.35613	0.2905083	3.0587118	12	1	9 days	0.27	Williams	2000 EJ ₄
2000 EK ₄	15.9	0.15	20000226	92.70421	235.16197	159.25829	3.15921	0.1818278	2.9117742	12	1	10 days	0.43	Williams	2000 EK ₄
2000 EL ₄	17.3	0.15	20000226	51.31692	286.52848	160.19068	2.64004	0.1187165	2.2624344	15	1	10 days	0.32	Williams	2000 EL ₄
2000 EO ₄	16.6	0.15	20000226	284.27439	264.01649	324.77300	3.41132	0.0395659	2.6438090	12	1	7 days	0.17	Williams	2000 EO ₄
2000 EQ ₄	17.7	0.15	20000226	26.60025	140.77500	335.19276	0.99648	0.1360366	2.3551980	12	1	8 days	0.28	Williams	2000 EQ ₄
2000 ET ₄	16.1	0.15	20000226	192.93604	318.55545	2.56512	0.83770	0.1712222	2.4552903	9	1	10 days	0.49	Williams	2000 ET ₄
2000 EU ₄	16.4	0.15	20000226	342.10634	197.08769	334.22823	10.75984	0.0828438	3.2369790	12	1	8 days	0.27	Williams	2000 EU ₄
2000 EW ₄	16.4	0.15	20000226	203.59433	333.94877	334.97871	10.07792	0.0596922	3.1293206	9	1	7 days	0.15	Williams	2000 EW ₄
2000 EX ₄	17.5	0.15	20000226	38.69549	88.11986	15.62718	0.66025	0.1176154	2.2860741	12	1	10 days	0.24	Williams	2000 EX ₄
2000 ED ₅	15.4	0.15	20000206	341.92834	10.91734	161.80719	15.25331	0.0266119	2.6041152	14	1	34 days	0.48	Williams	2000 ED ₅
2000 EJ ₅	15.5	0.15	20000226	151.28832	19.87281	339.08280	10.34251	0.2113403	3.0663414	9	1	13 days	0.13	Williams	2000 EJ ₅
2000 EQ ₅	16.5	0.15	20000226	115.38115	47.01767	349.62673	2.43408	0.0900730	2.6014561	13	1	13 days	0.55	Williams	2000 EQ ₅
2000 ET ₅	16.9	0.15	20000226	196.19661	160.83817	154.39155	2.26874	0.1082708	2.4572086	9	1	10 days	0.25	Williams	2000 ET ₅
2000 EU ₅	15.7	0.15	20000226	141.83135	220.02517	164.59975	1.39016	0.1453207	2.1719793	10	1	9 days	0.34	Williams	2000 EU ₅
2000 EV ₅	14.2	0.15	20000226	21.94935	63.57614	80.80399	0.42122	0.1830290	3.1193493	29	1	16 days	0.43	Williams	2000 EV ₅
2000 EW ₅	14.6	0.15	20000226	22.09205	339.28445	170.41585	2.89825	0.1407243	3.9498157	13	1	9 days	0.42	Williams	2000 EW ₅
2000 EY ₅	15.3	0.15	20000226	59.83003	96.54039	5.16386	4.76035	0.1459328	2.8533232	16	1	9 days	0.43	Williams	2000 EY ₅
2000 EC ₆	15.9	0.15	20000226	288.47406	263.45971	11.98601	2.52991	0.2400535	2.4844816	15	1	9 days	0.93	Williams	2000 EC ₆
2000 EE ₆	15.4	0.15	20000226	109.83624	238.73330	175.87018	11.78722	0.1383154	2.6410555	10	1	8 days	0.47	Williams	2000 EE ₆
2000 EF ₆	16.8	0.15	20000226	30.10256	112.31227	14.98687	2.34707	0.2191485	2.3960182	17	1	9 days	0.61	Williams	2000 EF ₆
2000 EK ₆	15.2	0.15	20000226	50.39537	104.19795	6.83558	7.69476	0.1698077	3.1165660	15	1	9 days	0.54	Williams	2000 EK ₆
2000 ER ₆	17.0	0.15	20000226	348.50103	93.09966	96.92838	1.33496	0.0800403	2.3766844	9	1	9 days	0.38	Williams	2000 ER ₆
2000 EY ₆	17.0	0.15	20000226	27.81657	113.67617	22.65952	3.81565	0.1755101	2.3395113	16	1	9 days	0.82	Williams	2000 EY ₆
2000 EZ ₆	14.3	0.15	20000226	11.00119	354.10893	170.23053	9.03856	0.1671814	3.0780507	24	1	10 days	0.52	Williams	2000 EZ ₆
2000 EB ₇	17.6	0.15	20000226	7.51614	336.67877	176.14394	2.01735	0.1510162	2.4591608	44	1	19 days	0.51	Williams	2000 EB ₇
2000 ED ₇	17.8	0.15	20000226	2.51541	349.33396	170.33331	4.28137	0.2299136	3.0624291	12	1	7 days	0.63	Williams	2000 ED ₇
2000 EE ₇	17.0	0.15	20000226	308.95980	302.81245	278.50497	0.77982	0.0875546	2.3834982	9	1	8 days	0.36	Williams	2000 EE ₇
2000 EK ₇	15.3	0.15	20000226	240.31830	124.96858	176.56437	2.59047	0.1984753	2.8097314	9	1	9 days	0.22	Williams	2000 EK ₇
2000 EL ₇	18.2	0.15	20000226	321.72049	37.06142	177.14658	0.99346	0.1554844	2.3791369	9	1	9 days	0.17	Williams	2000 EL ₇
2000 EM ₇	16.9	0.15	20000226	4.24913	174.21095	343.14298	6.06391	0.1943476	3.1054766	12	1	7 days	0.34	Williams	2000 EM ₇
2000 EN ₇	16.4	0.15	20000226	250.69968	110.60583	174.58167	1.58699	0.1104559	2.7395766	21	1	12 days	0.31	Williams	2000 EN ₇
2000 EO ₇	17.4	0.15	20000226	25.43204	322.51719	173.36229	1.86978	0.0490990	2.5230162	15	1	9 days	0.63	Williams	2000 EO ₇
2000 EP ₇	17.2	0.15	20000226	277.10032	91.77316	168.30395	2.14446	0.1188314	2.1859204	18	1	12 days	0.50	Williams	2000 EP ₇
2000 EQ ₇	15.9	0.15	20000226	214.96745	336.23115	341.48805	1.95040	0.1331146	2.7626657	12	1	9 days	0.25	Williams	2000 EQ ₇
2000 ES ₇	10.6	0.15	20000226	62.89235	23.89246	45.33836	2.97128	0.0458136	5.2266632	21	1	69 days	0.81	M-v 6 Williams	2000 ES ₇
2000 ET ₇	15.9	0.15	20000226	70.07916	288.44519	140.85890	4.90777	0.1721731	2.3843700	16	1	13 days	1.00	Williams	2000 ET ₇
2000 EU ₇	16.3	0.15	20000226	301.01091	120.33681	121.08356	2.19500	0.2118487	2.2982096	18	1	17 days	1.46	Williams	2000 EU ₇
2000 EV ₇	15.1	0.15	20000226	220.52968	317.48520	4.18136	7.16920	0.1381763	2.2799008	29	1	18 days	0.68	Williams	2000 EV ₇
2000 EX ₇	14.3	0.15	20000226	347.79562	131.04322	44.60367	15.33733	0.0842066	3.1756159	10	1	7 days	0.53	Williams	2000 EX ₇
2000 EB ₈	14.8	0.15	20000226	37.72178	83.17235	53.70791	16.88265	0.0846547	3.1310766	9	1	3 days	0.45	E Williams	2000 EB ₈
2000 EC ₈	13.9	0.15	20000226	139.14557	21.11903	334.02700	8.42517	0.1478077	2.6255853	18	1	9 days	0.78	Williams	2000 EC ₈
2000 EF ₈	14.2	0.15	20000226	137.83890	136.07034	221.19689	2.41093	0.1813897	2.4829086	13	1	3 days	0.47	E Williams	2000 EF ₈
2000 EK ₈	17.1	0.15	20000226	9.81298	138.00926	358.16969	1.19773	0.1015487	2.3356257	11	1	8 days	0.41	Williams	2000 EK ₈
2000 EM ₈	13.7	0.15	20000226	144.80531	96.27902	260.47568	0.87064	0.1407337	2.9062056	10	1	8 days	0.37	Williams	2000 EM ₈
2000 EP ₈	14.5	0.15	20000226	66.42863	277.80909	138.41762	2.86101	0.2472090	3.1944932	34	1	15 days	1.06	Williams	2000 EP ₈
2000 ER ₈	15.1	0.15	20000226	197.23646	165.91412	154.40733	7.87644	0.1775810	2.1970639	20	1	9 days	0.46	Williams	2000 ER ₈
2000 ES ₈	15.4	0.15	20000226	76.99500	288.82000	127.17425	1.52325	0.1726441	2.6493983	18	1	8 days	0.55	Williams	2000 ES ₈
2000 EU ₈	14.1	0.15	20000226	354.33875	359.99662	158.56378	11.50872	0.0038335	3.0644600	14	1	8 days	0.56	Williams	2000 EU ₈
2000 EX ₈	16.3	0.15	20000226	336.81497	36.34280	150.21191	4.86628	0.1724023	2.5786577	19	1	15 days	0.33	Williams	2000 EX ₈
2000 EC ₉	16.8	0.15	20000226	60.53738	87.41430	359.37624	1.74982	0.0823486	2.3737784	22	1	11 days	0.93	Williams	2000 EC ₉
2000 ED ₉	14.5	0.15	20000226	249.85531	140.46841	149.78869	12.19148	0.2530646	2.6696101	21	1	11 days	0.58	Williams	2000 ED ₉
2000 EH ₉	15.5	0.15	20000226	259.07403	323.64133	318.77633	8.01264	0.2471234	2.2506335	13	1	6 days	0.58	E Williams	2000 EH ₉
2000 EJ ₉	15.5	0.15	20000226	79.79802	273.00042	146.53324	6.06266	0.1575894	2.3036970	14	1	6 days	0.62	E Williams	2000 EJ ₉

2000 EK ₉	14.1	0.15	20000226	262.95018	161.33985	110.71625	2.62541	0.1632567	3.1616864	28	1	16 days	0.47	Williams	2000 EK ₉
2000 EO ₉	15.0	0.15	20000226	18.54899	330.18209	168.67177	9.16316	0.0841252	3.0662292	19	1	8 days	0.41	Williams	2000 EO ₉
2000 EP ₉	16.0	0.15	20000226	128.37715	94.06268	281.60496	2.14661	0.2305471	2.1794185	14	1	8 days	0.58	Williams	2000 EP ₉
2000 ER ₉	16.1	0.15	20000226	325.12474	39.88570	177.53659	5.10651	0.2376188	2.6458865	15	1	8 days	0.50	Williams	2000 ER ₉
2000 ES ₉	16.1	0.15	20000226	265.85116	98.16165	173.98559	7.35735	0.1325225	2.2635822	24	1	12 days	0.52	Williams	2000 ES ₉
2000 ET ₉	13.9	0.15	20000226	187.38132	357.17681	343.94607	39.00641	0.2717305	3.2254182	12	1	7 days	0.40	Williams	2000 ET ₉
2000 EU ₉	16.0	0.15	20000226	328.47986	34.27080	168.31527	13.84697	0.1196954	2.6112955	13	1	8 days	0.59	Williams	2000 EU ₉
2000 EV ₉	15.3	0.15	20000226	221.73222	77.81968	228.34062	1.22970	0.0570851	2.5648588	26	1	12 days	0.61	Williams	2000 EV ₉
2000 EW ₉	13.9	0.15	20000226	351.03425	137.24682	44.55213	24.03518	0.2742798	3.1191609	23	1	12 days	0.54	Williams	2000 EW ₉
2000 EX ₉	17.5	0.15	20000226	321.79091	44.14819	170.82680	0.38540	0.1608759	2.3729165	26	1	12 days	0.44	Williams	2000 EX ₉
2000 EY ₉	16.1	0.15	20000226	359.63979	355.02993	170.04123	4.55897	0.1214417	2.9946136	34	1	8 days	0.42	Williams	2000 EY ₉
2000 EA ₁₀	16.6	0.15	20000226	304.07970	249.28565	343.17305	4.54089	0.1175236	2.5440111	35	1	14 days	0.57	Williams	2000 EA ₁₀
2000 EB ₁₀	17.3	0.15	20000226	354.08819	347.18854	185.83286	2.43358	0.1140157	2.4152127	23	1	13 days	0.52	Williams	2000 EB ₁₀
2000 EC ₁₀	15.9	0.15	20000226	41.61009	250.54724	224.14151	1.01436	0.1225669	2.8017146	19	1	8 days	0.51	Williams	2000 EC ₁₀
2000 ED ₁₀	14.9	0.15	20000226	349.66173	259.35395	279.32580	1.18988	0.0539206	2.5982358	13	1	8 days	0.44	Williams	2000 ED ₁₀
2000 EE ₁₀	13.4	0.15	20000226	257.09218	324.57853	325.83102	3.01647	0.1812618	2.8062122	15	1	8 days	0.38	Williams	2000 EE ₁₀
2000 EF ₁₀	15.2	0.15	20000226	102.78058	242.40235	174.99588	8.35119	0.0757437	3.0332627	15	1	8 days	0.40	Williams	2000 EF ₁₀
2000 EG ₁₀	15.5	0.15	20000226	322.82327	353.37845	213.44205	1.14548	0.0399032	2.3295007	17	1	8 days	0.40	Williams	2000 EG ₁₀
2000 EH ₁₀	17.9	0.15	20000226	9.45219	180.15891	332.48699	1.94165	0.1309837	2.1076457	18	1	8 days	0.67	Williams	2000 EH ₁₀
2000 EJ ₁₀	16.9	0.15	20000226	358.95287	177.52405	349.66219	3.55181	0.1700700	2.3765747	33	1	13 days	0.64	Williams	2000 EJ ₁₀
2000 EK ₁₀	15.6	0.15	20000226	326.85424	214.76330	353.45126	13.08425	0.1045995	2.5864302	30	1	17 days	0.73	Williams	2000 EK ₁₀
2000 EL ₁₀	17.8	0.15	20000226	30.75840	76.69859	40.44111	0.57676	0.2280290	2.2148182	21	1	9 days	1.05	Williams	2000 EL ₁₀
2000 EM ₁₀	15.8	0.15	20000226	247.72994	239.38955	49.52706	0.44232	0.0874204	2.3083542	14	1	8 days	0.36	Williams	2000 EM ₁₀
2000 EN ₁₀	15.2	0.15	20000226	279.00988	266.43852	353.57514	6.94579	0.0979886	2.4321601	23	1	8 days	0.38	Williams	2000 EN ₁₀
2000 EO ₁₀	16.0	0.15	20000226	84.34152	270.27352	162.36366	4.17573	0.0936204	2.3549458	13	1	8 days	0.76	Williams	2000 EO ₁₀
2000 EQ ₁₀	14.6	0.15	20000226	246.65356	307.70695	353.28609	12.87509	0.1920695	2.8614047	18	1	8 days	0.61	Williams	2000 EQ ₁₀
2000 ER ₁₀	15.6	0.15	20000226	37.39402	304.78703	149.12040	0.29239	0.2174794	2.9872594	17	1	7 days	0.52	Williams	2000 ER ₁₀
2000 EU ₁₀	14.7	0.15	20000226	67.50692	275.50286	132.64766	11.45620	0.2886426	2.7251215	17	1	10 days	0.90	Williams	2000 EU ₁₀
2000 EV ₁₀	13.8	0.15	20000226	302.20875	95.21033	128.87078	12.21556	0.1380000	3.2396364	33	1	8 days	0.84	Williams	2000 EV ₁₀
2000 EW ₁₀	17.9	0.15	20000226	356.57563	163.76251	357.12438	4.15129	0.1604580	2.3631928	16	1	15 days	0.69	Williams	2000 EW ₁₀
2000 EY ₁₀	14.9	0.15	20000226	210.95013	317.25097	354.56514	13.64652	0.1580059	2.3296514	19	1	5 days	0.71	E Williams	2000 EY ₁₀
2000 EZ ₁₀	13.4	0.15	20000226	139.09019	223.94362	141.32863	12.95200	0.2230482	2.9314904	14	1	8 days	0.45	Williams	2000 EZ ₁₀
2000 EA ₁₁	15.1	0.15	20000226	189.51443	201.79823	127.59523	6.16808	0.0527155	2.3606966	15	1	8 days	0.59	Williams	2000 EA ₁₁
2000 EB ₁₁	14.0	0.15	20000226	95.96597	353.33489	50.22353	3.70849	0.1682949	3.0138855	14	1	7 days	0.39	Williams	2000 EB ₁₁
2000 EC ₁₁	15.8	0.15	20000226	294.05099	104.66963	132.39081	7.99864	0.1163077	2.7337531	19	1	9 days	0.41	Williams	2000 EC ₁₁
2000 EE ₁₁	13.6	0.15	20000226	205.12921	310.24643	5.77227	9.28645	0.0728287	3.0838920	22	1	8 days	0.64	Williams	2000 EE ₁₁
2000 EH ₁₁	13.9	0.15	20000226	186.65801	203.08649	126.97732	9.07369	0.1384235	2.8129942	14	1	5 days	0.51	E Williams	2000 EH ₁₁
2000 EK ₁₁	16.6	0.15	20000226	149.08618	2.14672	5.62804	3.07509	0.0357486	2.3101750	11	1	7 days	0.66	Williams	2000 EK ₁₁
2000 EN ₁₁	14.2	0.15	20000226	333.94588	51.66155	135.02719	27.87422	0.1578955	3.1983635	21	1	30 days	0.90	Williams	2000 EN ₁₁
2000 EP ₁₁	13.7	0.15	20000226	102.84894	280.07939	106.75179	15.20131	0.2640925	3.2056484	21	1	8 days	0.52	Williams	2000 EP ₁₁
2000 EQ ₁₁	15.2	0.15	20000226	0.28101	42.51726	113.90809	13.32668	0.1207356	2.6116876	17	1	8 days	0.42	Williams	2000 EQ ₁₁
2000 ER ₁₁	14.9	0.15	20000226	347.40870	175.63823	346.23108	25.90524	0.1154265	3.1898638	22	1	8 days	0.81	Williams	2000 ER ₁₁
2000 ES ₁₁	16.3	0.15	20000226	310.04426	165.03672	55.66670	6.35109	0.2084207	2.3768978	21	1	7 days	0.59	E Williams	2000 ES ₁₁
2000 EU ₁₁	13.5	0.15	20000226	351.95734	113.94104	43.96645	9.29277	0.1483934	3.9982876	26	1	8 days	0.50	Williams	2000 EU ₁₁
2000 EW ₁₁	13.8	0.15	20000226	84.34969	54.13425	358.85901	16.68813	0.0880710	3.1537206	21	1	8 days	0.78	Williams	2000 EW ₁₁
2000 EX ₁₁	15.3	0.15	20000226	262.83945	164.39512	98.99444	8.79073	0.1434601	2.2466955	20	1	7 days	0.88	E Williams	2000 EX ₁₁
2000 EY ₁₁	13.7	0.15	20000226	114.67491	279.66248	101.91262	11.77436	0.1319007	3.0255570	21	1	8 days	0.59	Williams	2000 EY ₁₁
2000 EZ ₁₁	13.7	0.15	20000226	262.06269	181.88627	84.20729	9.10485	0.1759056	2.8668626	12	1	5 days	0.32	E Williams	2000 EZ ₁₁
2000 EA ₁₂	13.1	0.15	20000226	159.86482	337.07708	14.41949	17.98065	0.0688326	3.2050107	16	1	8 days	0.55	Williams	2000 EA ₁₂
2000 EB ₁₂	14.2	0.15	20000226	172.03722	207.36793	136.77224	26.59220	0.1804482	2.3031253	21	1	8 days	0.42	Williams	2000 EB ₁₂
2000 EE ₁₂	16.0	0.15	20000226	83.40530	336.28213	74.43899	7.29976	0.1438826	2.4504077	25	1	8 days	0.85	Williams	2000 EE ₁₂
2000 EF ₁₂	13.6	0.15	20000226	110.74571	251.73418	126.79303	12.81689	0.2307816	2.9936486	14	1	5 days	0.45	E Williams	2000 EF ₁₂
2000 EH ₁₂	13.6	0.15	20000226	98.80508	16.58225	4.25838	15.20724	0.2796376	3.1666106	22	1	8 days	0.40	Williams	2000 EH ₁₂

2000 EK ₁₂	15.3	0.15	20000226	17.59524	11.54552	119.55766	11.90158	0.1293295	2.6267639	18	1	5 days	0.38	E	Williams	2000 EK ₁₂
2000 EL ₁₂	14.8	0.15	20000226	302.80432	132.48524	97.19489	8.82941	0.1768958	2.7853120	27	1	8 days	0.37		Williams	2000 EL ₁₂
2000 EM ₁₂	15.3	0.15	20000226	300.27570	144.15480	95.72637	8.15083	0.2353254	2.5689881	28	1	8 days	0.43		Williams	2000 EM ₁₂
2000 EN ₁₂	15.3	0.15	20000226	254.96039	174.33580	103.97086	8.83832	0.1870951	2.2058659	18	1	5 days	0.57	E	Williams	2000 EN ₁₂
2000 EO ₁₂	13.4	0.15	20000226	263.04159	178.43819	82.52125	8.96266	0.0944529	3.0770515	13	1	8 days	0.50		Williams	2000 EO ₁₂
2000 EP ₁₂	13.5	0.15	20000226	277.66491	211.90268	35.07693	9.61312	0.1010671	3.0641063	18	1	8 days	0.46		Williams	2000 EP ₁₂
2000 ER ₁₂	13.9	0.15	20000226	299.63145	162.75254	65.78283	8.81916	0.0959979	3.1337017	15	1	8 days	0.49		Williams	2000 ER ₁₂
2000 ET ₁₂	13.5	0.15	20000226	5.93630	93.32227	56.85436	10.61332	0.0250527	3.2583059	22	1	8 days	0.53		Williams	2000 ET ₁₂
2000 EU ₁₂	14.7	0.15	20000226	97.50959	351.09229	51.31483	9.89198	0.1567414	2.3827585	17	1	8 days	0.55		Williams	2000 EU ₁₂
2000 EW ₁₂	12.6	0.15	20000226	163.62197	263.31700	87.28996	9.79527	0.1680876	3.2614424	15	1	8 days	0.45		Williams	2000 EW ₁₂
2000 EX ₁₂	13.2	0.15	20000226	212.54148	199.39415	111.30455	11.29873	0.0712086	3.0930901	14	1	8 days	0.48		Williams	2000 EX ₁₂
2000 EY ₁₂	13.5	0.15	20000226	201.55523	279.95268	42.62776	10.06244	0.1781522	2.7254810	14	1	8 days	0.65		Williams	2000 EY ₁₂
2000 EZ ₁₂	14.2	0.15	20000226	295.73508	186.08802	52.33306	8.04886	0.1405843	2.6078738	15	1	8 days	0.39		Williams	2000 EZ ₁₂
2000 EB ₁₃	14.1	0.15	20000226	201.96271	264.07147	47.26999	8.29732	0.0751926	2.7108032	11	1	8 days	0.50		Williams	2000 EB ₁₃
2000 EC ₁₃	15.0	0.15	20000226	321.39294	83.09059	119.78197	15.04299	0.0862384	2.5774146	19	1	8 days	0.65		Williams	2000 EC ₁₃
2000 EE ₁₃	13.7	0.15	20000226	329.28675	80.82292	129.62293	20.27222	0.2639101	3.2172562	15	1	8 days	0.21		Williams	2000 EE ₁₃
2000 EH ₁₃	14.5	0.15	20000226	292.12639	74.57109	175.94485	6.73503	0.2676057	2.9758788	18	1	6 days	0.41	E	Williams	2000 EH ₁₃
2000 EJ ₁₃	15.5	0.15	20000226	31.34930	17.69184	89.23636	4.98236	0.0530790	2.7818161	27	1	29 days	0.41		Williams	2000 EJ ₁₃
2000 EK ₁₃	15.5	0.15	20000226	320.66577	127.17257	73.77888	3.88905	0.1111397	2.1896503	19	1	4 days	0.48	E	Williams	2000 EK ₁₃
2000 EL ₁₃	15.6	0.15	20000226	281.37140	316.26690	279.90651	3.01766	0.1265346	2.4160421	27	1	13 days	0.57		Williams	2000 EL ₁₃
2000 EO ₁₃	16.9	0.15	20000226	337.22323	185.56571	3.81999	5.00974	0.2119847	2.6072159	35	1	30 days	0.52		Williams	2000 EO ₁₃
2000 EP ₁₃	13.8	0.15	20000226	141.64554	324.19150	37.93124	3.60457	0.2281427	2.8073325	13	1	6 days	0.60	E	Williams	2000 EP ₁₃
2000 EQ ₁₃	13.0	0.15	20000226	126.43383	235.64330	136.98668	7.85782	0.2395745	2.7305592	13	1	7 days	0.34		Williams	2000 EQ ₁₃
2000 ER ₁₃	13.7	0.15	20000226	153.33193	295.06264	64.36550	2.98990	0.1048185	2.8331271	13	1	7 days	0.37		Williams	2000 ER ₁₃
2000 ES ₁₃	16.6	0.15	20000226	324.45834	91.62876	116.09539	3.11430	0.1805729	2.4096387	17	1	7 days	0.46		Williams	2000 ES ₁₃
2000 ET ₁₃	15.3	0.15	20000226	87.91900	37.15924	14.69549	4.23853	0.1579143	2.2906939	12	1	7 days	0.44		Williams	2000 ET ₁₃
2000 EU ₁₃	16.8	0.15	20000226	338.81689	83.06131	104.43199	2.91413	0.1717121	2.3450112	17	1	7 days	0.44		Williams	2000 EU ₁₃
2000 EW ₁₃	16.2	0.15	20000226	74.77006	290.28448	128.38589	5.12099	0.2098885	2.2886050	9	1	2 days	0.45	E	Williams	2000 EW ₁₃
2000 EX ₁₃	17.5	0.15	20000226	311.12914	270.27477	340.95196	4.89092	0.3777643	2.3265051	49	1	11 days	0.49		Williams	2000 EX ₁₃
2000 EY ₁₃	19.9	0.15	20000226	352.41471	197.91817	345.30994	29.71242	0.4653229	2.6546531	20	1	4 days	0.53		Williams	2000 EY ₁₃
2000 EZ ₁₃	16.8	0.15	20000226	222.09319	321.38463	342.32375	52.64283	0.1352843	1.9078317	62	1	9 days	0.58		Williams	2000 EZ ₁₃
2000 EA ₁₄	20.9	0.15	20000226	84.66980	205.95365	204.03449	3.55096	0.2023622	1.1167522	49	1	12 days	0.63		Williams	2000 EA ₁₄
2000 EB ₁₄	23.0	0.15	20000226	264.80498	139.53736	162.96915	11.69528	0.4988238	0.8962149	30	1	4 days	1.04		Williams	2000 EB ₁₄
2000 EC ₁₄	20.5	0.15	20000226	5.47565	334.82696	158.54451	11.45686	0.5359379	2.6358430	33	1	6 days	0.65		Williams	2000 EC ₁₄
2000 ED ₁₄	20.6	0.15	20000226	256.63553	309.99098	4.04039	13.73450	0.5661897	0.8347585	58	1	11 days	0.52	M-v 8	Williams	2000 ED ₁₄
2000 EE ₁₄	17.1	0.15	20000226	161.53374	197.77107	155.84349	26.52269	0.5333236	0.6616946	92	1	14 days	0.55		Williams	2000 EE ₁₄
2000 EH ₁₄	15.4	0.15	20000226	52.98381	282.56971	180.20466	4.16746	0.1982920	2.4682806	24	1	8 days	0.84		Williams	2000 EH ₁₄
2000 EJ ₁₄	13.0	0.15	20000226	205.33877	329.10807	11.12846	1.79400	0.1106075	2.9068473	32	1	11 days	0.49		Williams	2000 EJ ₁₄
2000 EK ₁₄	15.5	0.15	20000226	357.60650	12.99689	163.24093	3.90153	0.1277525	2.7402504	28	1	18 days	0.77		Williams	2000 EK ₁₄
2000 EL ₁₄	14.8	0.15	20000226	163.79590	216.86004	133.26731	4.41856	0.1803880	2.3570938	13	1	9 days	1.83		Williams	2000 EL ₁₄
2000 EN ₁₄	14.9	0.15	20000226	143.18345	211.40469	168.09349	3.37873	0.1471374	2.3637261	21	1	12 days	1.14		Williams	2000 EN ₁₄
2000 EO ₁₄	16.2	0.15	20000226	32.92571	73.34672	51.33366	1.49863	0.1712234	2.3062207	26	1	16 days	0.62		Williams	2000 EO ₁₄
2000 EP ₁₄	16.1	0.15	20000226	303.43002	242.16378	6.23427	7.91528	0.1900705	2.3278667	33	1	16 days	0.63		Williams	2000 EP ₁₄
2000 ES ₁₄	15.0	0.15	20000226	317.74354	171.87611	43.15730	12.55969	0.1950618	2.5930384	13	1	8 days	0.64		Williams	2000 ES ₁₄
2000 EV ₁₄	15.2	0.15	20000226	275.69392	272.20941	352.64010	15.04926	0.1025032	3.0363200	18	1	8 days	0.72		Williams	2000 EV ₁₄
2000 EX ₁₄	13.0	0.15	20000226	351.76949	160.37436	351.47804	8.05619	0.1018947	4.0068980	18	1	10 days	0.29		Williams	2000 EX ₁₄
2000 EY ₁₄	15.1	0.15	20000226	10.20122	75.84277	65.50748	22.01887	0.2929587	2.2955605	39	1	29 days	0.46		Williams	2000 EY ₁₄
2000 EA ₁₅	14.1	0.15	20000226	268.06898	109.26224	174.67880	9.02514	0.0796178	2.9630865	26	1	15 days	0.86		Williams	2000 EA ₁₅
2000 EC ₁₅	15.4	0.15	20000226	269.13644	301.46621	355.64313	10.36388	0.1479571	2.3032277	8	1	5 days	0.32	E	Williams	2000 EC ₁₅
2000 ED ₁₅	14.7	0.15	20000226	262.03684	11.21673	307.97140	2.68506	0.2644828	2.6650677	7	1	10 days	0.40		Williams	2000 ED ₁₅
2000 EF ₁₅	15.8	0.15	20000226	318.33936	71.93684	161.02964	11.72975	0.1862308	2.7793611	11	1	10 days	0.79		Williams	2000 EF ₁₅
2000 EH ₁₅	17.4	0.15	20000226	22.83996	318.80094	173.76511	4.13010	0.2389747	2.5448819	14	1	8 days	0.90		Williams	2000 EH ₁₅
2000 EJ ₁₅	16.6	0.15	20000226	1.88482	353.54780	175.72813	6.51740	0.1227276	2.7103950	14	1	8 days	1.00		Williams	2000 EJ ₁₅

2000 MAR. 20

M.P.C. 39633

2000 EM ₁₅	15.2	0.15	20000226	91.66170	15.43507	45.28089	4.12130	0.1740516	2.3511215	15	1	6 days	0.49	E	Williams	2000 EM ₁₅
2000 EN ₁₅	16.5	0.15	20000226	184.06628	192.95799	142.52961	22.62818	0.0623914	1.9127367	15	1	5 days	0.42		Williams	2000 EN ₁₅
2000 EO ₁₅	15.4	0.15	20000226	241.28487	224.34545	68.89745	7.04625	0.1455413	2.3974115	18	1	7 days	0.31		Williams	2000 EO ₁₅
2000 EP ₁₅	16.4	0.15	20000317	357.11392	25.27146	149.49018	0.49228	0.2467577	3.1111108	17	1	7 days	0.63		Nakano	2000 EP ₁₅
2000 EQ ₁₅	17.1	0.15	20000226	297.40808	63.06489	183.12335	1.39382	0.1755688	2.4254451	26	1	8 days	0.61		Williams	2000 EQ ₁₅
2000 ET ₁₅	15.3	0.15	20000226	20.25127	303.21694	190.48626	2.47757	0.1844687	3.9963872	12	1	8 days	0.26		Williams	2000 ET ₁₅
2000 EU ₁₅	17.2	0.15	20000226	351.59220	354.74163	178.05436	3.66911	0.1296968	2.3776446	10	1	8 days	0.29		Williams	2000 EU ₁₅
2000 EX ₁₅	16.6	0.15	20000226	6.87546	346.68517	170.00462	8.73225	0.0800009	3.1635845	12	1	6 days	0.34	E	Williams	2000 EX ₁₅
2000 EY ₁₅	18.9	0.15	20000226	6.54600	339.23654	171.54675	3.24721	0.2879929	2.8718558	9	1	6 days	0.27	E	Williams	2000 EY ₁₅
2000 EZ ₁₅	17.4	0.15	20000226	197.71509	345.63606	342.53477	3.98939	0.0397129	2.5513217	9	1	7 days	0.19		Williams	2000 EZ ₁₅
2000 EA ₁₆	18.8	0.15	20000226	333.80681	245.82801	312.80620	0.28148	0.1590395	2.0581701	22	1	9 days	1.58		Williams	2000 EA ₁₆
2000 EB ₁₆	14.9	0.15	20000226	158.51740	16.36684	339.82607	12.51326	0.2763544	2.6568131	9	1	8 days	0.24		Williams	2000 EB ₁₆
2000 EC ₁₆	16.0	0.15	20000226	134.83024	180.86312	194.48813	1.86430	0.1839801	2.3158102	9	1	8 days	0.56		Williams	2000 EC ₁₆
2000 EE ₁₆	14.5	0.15	20000226	220.61086	336.19282	337.29045	7.34526	0.1650895	2.7352086	11	1	8 days	0.55		Williams	2000 EE ₁₆
2000 EG ₁₆	15.3	0.15	20000226	130.02150	30.88780	344.35351	12.02360	0.2862693	2.6777733	27	1	11 days	0.82		Williams	2000 EG ₁₆
2000 EJ ₁₆	15.3	0.15	20000226	48.03065	25.45104	70.03831	1.85138	0.1442284	2.6145139	14	1	9 days	0.68		Williams	2000 EJ ₁₆
2000 EK ₁₆	15.9	0.15	20000226	226.34358	353.75627	313.40737	4.38429	0.1485996	2.2309729	12	1	8 days	0.88		Williams	2000 EK ₁₆
2000 EM ₁₆	15.0	0.15	20000226	263.12209	304.51685	328.23206	5.44996	0.0959692	2.3978834	22	1	11 days	0.74		Williams	2000 EM ₁₆
2000 EN ₁₆	14.4	0.15	20000226	228.00815	327.84005	339.84610	7.96498	0.1117909	2.4342004	17	1	8 days	0.36		Williams	2000 EN ₁₆
2000 EO ₁₆	13.7	0.15	20000226	97.29293	239.59394	182.51429	9.80294	0.0700378	2.9638987	13	1	8 days	0.31		Williams	2000 EO ₁₆
2000 EQ ₁₆	15.3	0.15	20000226	64.86546	253.66560	195.32308	3.71161	0.1095119	2.2345943	14	1	8 days	0.45		Williams	2000 EQ ₁₆
2000 EV ₁₆	14.8	0.15	20000226	32.32660	294.75913	185.73004	6.07377	0.2169331	3.1454635	13	1	8 days	0.59		Williams	2000 EV ₁₆
2000 EW ₁₆	16.2	0.15	20000226	308.63119	285.26871	311.80551	1.65926	0.1684448	2.3456671	25	1	17 days	0.47		Williams	2000 EW ₁₆
2000 EY ₁₆	15.0	0.15	20000226	33.64074	127.06520	356.96743	10.66157	0.1452866	2.5005468	23	1	12 days	0.52		Williams	2000 EY ₁₆
2000 EZ ₁₆	14.1	0.15	20000226	252.00313	286.93266	358.17933	9.35858	0.0553057	2.9637708	22	1	13 days	0.91		Williams	2000 EZ ₁₆
2000 EA ₁₇	15.2	0.15	20000226	273.31665	114.62239	160.95326	2.23542	0.1666245	2.3878718	30	1	13 days	0.82		Williams	2000 EA ₁₇
2000 EB ₁₇	16.5	0.15	20000226	341.46650	185.89100	7.33031	2.23808	0.1542070	2.3187003	21	1	13 days	0.35		Williams	2000 EB ₁₇
2000 EC ₁₇	15.5	0.15	20000226	352.05724	202.38494	336.30783	2.04332	0.1455954	2.3162137	16	1	8 days	0.58		Williams	2000 EC ₁₇
2000 ED ₁₇	14.1	0.15	20000226	258.32476	89.51424	194.16489	1.62451	0.0986596	2.7526169	18	1	13 days	0.63		Williams	2000 ED ₁₇
2000 EE ₁₇	12.2	0.15	20000226	231.73997	118.57216	196.28887	0.40689	0.1790033	2.9723117	12	1	8 days	0.44		Williams	2000 EE ₁₇
2000 EF ₁₇	15.2	0.15	20000226	335.83016	23.87549	173.27325	6.02606	0.0681086	2.3722885	24	1	16 days	0.41		Williams	2000 EF ₁₇
2000 EG ₁₇	13.0	0.15	20000226	68.51723	108.45973	344.67766	1.24749	0.0923440	2.9750903	13	1	8 days	0.46		Williams	2000 EG ₁₇
2000 EK ₁₇	13.9	0.15	20000226	353.78444	197.89931	341.73178	6.88191	0.0899871	3.1206578	17	1	13 days	0.43		Williams	2000 EK ₁₇
2000 EL ₁₇	15.6	0.15	20000226	1.27766	348.86516	178.95388	6.47802	0.2035669	3.0890070	15	1	13 days	0.35		Williams	2000 EL ₁₇
2000 EN ₁₇	14.8	0.15	20000226	302.46287	98.24227	125.91060	13.33841	0.1461630	2.6354767	24	1	9 days	0.51		Williams	2000 EN ₁₇
2000 EQ ₁₇	14.8	0.15	20000226	47.97201	346.38221	97.01196	7.55014	0.2187937	2.5215343	27	1	8 days	0.53		Williams	2000 EQ ₁₇
2000 ER ₁₇	12.9	0.15	20000226	230.04604	286.03784	4.08085	15.12477	0.1008639	2.5453744	22	1	8 days	0.41		Williams	2000 ER ₁₇
2000 ES ₁₇	15.6	0.15	20000226	89.52600	330.96370	76.20673	6.85497	0.1523270	2.2972995	13	1	5 days	0.42	E	Williams	2000 ES ₁₇
2000 EU ₁₇	14.4	0.15	20000226	348.56421	46.04033	125.96369	12.91475	0.1108008	2.6147983	20	1	8 days	0.44		Williams	2000 EU ₁₇
2000 EV ₁₇	15.4	0.15	20000226	33.38560	40.21258	79.78047	7.43650	0.0614985	2.3407947	18	1	8 days	0.54		Williams	2000 EV ₁₇
2000 EW ₁₇	13.7	0.15	20000226	354.49517	149.11892	14.49608	13.44015	0.1158658	2.6627381	19	1	8 days	0.28		Williams	2000 EW ₁₇
2000 EZ ₁₇	14.8	0.15	20000226	247.16721	161.12924	122.45283	14.67086	0.1277976	2.5277722	18	1	8 days	0.63		Williams	2000 EZ ₁₇
2000 EA ₁₈	14.5	0.15	20000226	341.02837	68.21474	112.51210	12.58888	0.0960763	3.0400037	19	1	8 days	0.40		Williams	2000 EA ₁₈
2000 EB ₁₈	14.8	0.15	20000226	74.68967	71.26047	3.79497	21.72768	0.0517534	2.6525470	18	1	8 days	0.54		Williams	2000 EB ₁₈
2000 EC ₁₈	15.0	0.15	20000226	295.42347	180.60675	47.84011	7.63340	0.0557712	2.3378913	14	1	8 days	0.40		Williams	2000 EC ₁₈
2000 ED ₁₈	13.0	0.15	20000226	162.65615	246.41289	115.51607	15.14676	0.1010663	2.8064368	19	1	8 days	0.39		Williams	2000 ED ₁₈
2000 EF ₁₈	13.9	0.15	20000226	86.20528	293.71549	114.06265	14.47221	0.2099496	3.1423455	15	1	8 days	0.41		Williams	2000 EF ₁₈
2000 EG ₁₈	14.9	0.15	20000226	10.49441	94.95607	48.28642	9.52897	0.1157828	2.7458053	16	1	8 days	0.40		Williams	2000 EG ₁₈
2000 EH ₁₈	14.5	0.15	20000226	311.57331	114.29953	94.67966	11.05636	0.0362234	3.0042379	13	1	5 days	0.59	E	Williams	2000 EH ₁₈
2000 EJ ₁₈	14.9	0.15	20000226	52.05965	4.68854	88.74213	10.25207	0.1210921	2.8118272	10	1	8 days	0.59		Williams	2000 EJ ₁₈
2000 EK ₁₈	15.1	0.15	20000226	18.99999	133.30368	354.81216	8.64614	0.1336028	2.7422067	13	1	4 days	0.69	E	Williams	2000 EK ₁₈
2000 EP ₁₈	14.7	0.15	20000226	349.34885	167.87957	357.01522	7.72131	0.0541316	3.1320909	14	1	6 days	0.61	E	Williams	2000 EP ₁₈
2000 ER ₁₈	15.0	0.15	20000206	31.69742	13.23884	96.58474	3.33285	0.1249782	3.2195812	27	1	35 days	0.50		Williams	2000 ER ₁₈

2000 ES ₁₈	14.7	0.15	20000226	75.03435	36.38157	19.97675	3.20761	0.2198150	2.4111740	15	1	7 days	0.59	E Williams	2000 ES ₁₈
2000 ET ₁₈	15.2	0.15	20000226	114.76800	13.16932	16.22090	3.68833	0.1332761	2.2038066	19	1	7 days	0.58	E Williams	2000 ET ₁₈
2000 EV ₁₈	15.6	0.15	20000226	262.32334	276.49135	351.10168	12.02531	0.1185862	2.7852155	27	1	16 days	0.59	Williams	2000 EV ₁₈
2000 EW ₁₈	14.2	0.15	20000226	280.13941	102.73790	146.19636	10.44955	0.1004256	3.1396436	12	1	7 days	0.57	Williams	2000 EW ₁₈
2000 EA ₁₉	15.6	0.15	20000226	59.44847	86.25020	5.67668	6.71382	0.0845766	2.3619001	13	1	4 days	0.49	E Williams	2000 EA ₁₉
2000 EC ₁₉	16.0	0.15	20000226	2.71578	85.95216	70.76323	2.25274	0.1277927	2.4376885	24	1	15 days	0.30	Williams	2000 EC ₁₉
2000 EE ₁₉	13.0	0.15	20000226	149.32482	296.04910	64.88898	3.45446	0.2410969	2.8984846	18	1	7 days	0.53	Williams	2000 EE ₁₉
2000 EF ₁₉	15.5	0.15	20000226	271.33966	251.98886	4.90630	7.54921	0.0675310	2.3368381	18	1	7 days	0.58	Williams	2000 EF ₁₉
2000 EJ ₁₉	14.1	0.15	20000226	71.90192	56.61048	14.17284	5.69963	0.1634243	3.1975916	17	1	7 days	0.54	Williams	2000 EJ ₁₉
2000 EK ₁₉	16.4	0.15	20000226	45.77085	353.77822	105.29597	2.94067	0.1675921	2.4067104	24	1	15 days	0.58	Williams	2000 EK ₁₉
2000 EM ₁₉	16.8	0.15	20000226	83.90874	331.61071	98.38949	2.57084	0.0616293	2.1648003	24	1	15 days	0.36	Williams	2000 EM ₁₉
2000 EO ₁₉	14.0	0.15	20000226	306.74860	219.62564	23.02183	18.34747	0.1935911	3.1850091	17	1	7 days	0.68	Williams	2000 EO ₁₉
2000 EQ ₁₉	14.9	0.15	20000226	92.11999	42.78945	353.41840	8.80486	0.2650611	2.3902639	14	1	4 days	0.65	E Williams	2000 EQ ₁₉
2000 ER ₁₉	15.2	0.15	20000226	45.44012	35.83514	74.03328	2.82335	0.0572542	2.5479878	18	1	7 days	0.59	Williams	2000 ER ₁₉
2000 ES ₁₉	15.2	0.15	20000226	59.11377	310.28352	136.29504	6.23190	0.1437342	2.8364441	12	1	4 days	0.57	E Williams	2000 ES ₁₉
2000 ET ₁₉	15.3	0.15	20000226	7.95863	65.65791	94.02215	6.61099	0.1248653	2.3142156	13	1	7 days	0.40	Williams	2000 ET ₁₉
2000 EW ₁₉	13.6	0.15	20000226	286.39773	357.48930	241.54475	6.20399	0.1104402	2.8181275	14	1	3 days	0.34	E Williams	2000 EW ₁₉
2000 EX ₁₉	15.6	0.15	20000226	297.61410	165.00101	88.99719	6.06957	0.1058089	2.2393922	12	1	5 days	0.78	E Williams	2000 EX ₁₉
2000 EY ₁₉	13.9	0.15	20000226	278.21907	114.10222	160.29459	15.99550	0.0456998	3.1496124	15	1	5 days	0.47	E Williams	2000 EY ₁₉
2000 EZ ₁₉	13.1	0.15	20000226	37.48043	70.29521	67.07451	10.38583	0.1603827	3.2670457	12	1	4 days	0.48	E Williams	2000 EZ ₁₉
2000 EB ₂₀	15.7	0.15	20000226	306.86015	85.27310	177.40119	23.14337	0.2933204	2.2513192	22	1	11 days	0.66	Williams	2000 EB ₂₀
2000 ED ₂₀	15.6	0.15	20000226	17.24981	329.39929	185.92593	24.29697	0.1983607	2.3447178	22	1	35 days	0.55	Williams	2000 ED ₂₀
2000 EE ₂₀	12.9	0.15	20000226	255.78854	122.96050	184.36998	9.31982	0.1177058	3.1380168	16	1	5 days	0.57	E Williams	2000 EE ₂₀
2000 EG ₂₀	16.3	0.15	20000226	279.64986	87.31155	163.11719	24.59003	0.1184359	1.9936612	15	1	8 days	0.31	Williams	2000 EG ₂₀
2000 EH ₂₀	15.2	0.15	20000226	67.15172	184.03405	250.60775	10.90778	0.1065254	2.7233323	12	1	10 days	0.55	Williams	2000 EH ₂₀
2000 EJ ₂₀	13.9	0.15	20000226	224.62725	53.91393	253.83967	12.80146	0.2810991	2.8474783	13	1	6 days	0.46	E Williams	2000 EJ ₂₀
2000 EM ₂₀	14.7	0.15	20000206	78.99079	143.32808	272.01437	12.00128	0.1509948	2.7199320	25	1	36 days	0.71	Williams	2000 EM ₂₀
2000 EN ₂₀	15.2	0.15	20000226	249.20761	33.26304	243.72595	11.40456	0.1099303	2.6853586	11	1	10 days	0.54	Williams	2000 EN ₂₀
2000 EP ₂₀	14.1	0.15	20000226	19.64983	298.13969	193.12791	24.13897	0.0713297	3.1256046	13	1	6 days	0.44	E Williams	2000 EP ₂₀
2000 EQ ₂₀	13.1	0.15	20000226	336.03010	323.66233	224.30725	14.23922	0.1305785	2.9484098	22	1	32 days	0.27	Williams	2000 EQ ₂₀
2000 ER ₂₀	14.5	0.15	20000226	321.13513	285.23857	281.25420	15.80783	0.1133935	3.2218788	16	1	10 days	0.58	Williams	2000 ER ₂₀
2000 ET ₂₀	15.0	0.15	20000206	14.14008	201.16214	295.12276	11.45144	0.0989281	2.7229470	32	1	36 days	0.79	Williams	2000 ET ₂₀
2000 EV ₂₀	14.8	0.15	20000226	226.52053	55.71730	242.89848	8.96226	0.0769446	2.7377609	16	1	11 days	0.48	Williams	2000 EV ₂₀
2000 EY ₂₀	14.8	0.15	20000226	259.31436	18.68206	260.51746	8.29123	0.1804812	2.7954631	11	1	6 days	0.45	E Williams	2000 EY ₂₀
2000 EC ₂₁	13.7	0.15	20000226	76.29493	201.56278	238.94395	8.36480	0.0357492	3.0407966	20	1	11 days	0.39	Williams	2000 EC ₂₁
2000 ED ₂₁	14.4	0.15	20000226	93.80113	207.68795	212.25097	11.81019	0.0667606	2.9823666	17	1	6 days	0.74	E Williams	2000 ED ₂₁
2000 EE ₂₁	15.6	0.15	20000226	205.90114	38.11589	284.28095	9.37137	0.1457380	2.2074289	16	1	11 days	0.58	Williams	2000 EE ₂₁
2000 EG ₂₁	15.3	0.15	20000226	228.10143	355.07917	305.03911	13.92045	0.0695143	2.6623683	16	1	9 days	0.84	Williams	2000 EG ₂₁
2000 EK ₂₁	15.5	0.15	20000226	83.94651	200.61136	227.61350	12.51262	0.0869373	2.5835265	11	1	6 days	0.48	E Williams	2000 EK ₂₁
2000 EL ₂₁	14.7	0.15	20000226	210.37189	99.09485	218.71889	14.23131	0.1127701	2.6611266	12	1	6 days	0.70	E Williams	2000 EL ₂₁
2000 EM ₂₁	14.9	0.15	20000226	9.89430	158.07731	27.15206	13.42648	0.1719127	2.4145299	15	1	11 days	0.25	Williams	2000 EM ₂₁
2000 EN ₂₁	15.8	0.15	20000226	40.49295	315.67061	144.59180	24.93235	0.2028712	2.3916006	15	1	8 days	0.38	Williams	2000 EN ₂₁
2000 EP ₂₁	15.6	0.15	20000206	120.93800	14.37333	17.40149	21.71985	0.0631209	1.9235913	18	1	38 days	0.33	Williams	2000 EP ₂₁
2000 EQ ₂₁	15.0	0.15	20000226	10.22630	17.37159	148.28422	30.99584	0.1320795	2.6733393	12	1	11 days	0.58	Williams	2000 EQ ₂₁
2000 EW ₂₁	16.3	0.15	20000226	292.39968	229.95396	5.37826	22.27850	0.0414962	1.9829825	15	1	7 days	0.50	Williams	2000 EW ₂₁
2000 EY ₂₁	16.3	0.15	20000226	208.93531	168.34257	157.22849	23.40577	0.0743475	1.9268936	12	1	7 days	0.37	Williams	2000 EY ₂₁
2000 EA ₂₂	15.3	0.15	20000226	310.21339	87.72546	152.31388	23.82906	0.2003615	2.2797216	16	1	7 days	0.54	Williams	2000 EA ₂₂
2000 EH ₂₂	15.9	0.15	20000226	271.82929	89.33231	154.70415	5.47688	0.1147957	2.7616892	9	1	11 days	0.14	Williams	2000 EH ₂₂
2000 ES ₂₂	14.7	0.15	20000206	91.55416	258.60734	146.07452	16.22688	0.0358193	3.1520118	11	1	35 days	0.24	Williams	2000 ES ₂₂
2000 EW ₂₂	16.2	0.15	20000206	265.19121	286.67770	330.09104	5.59475	0.1823331	2.3841292	20	1	37 days	0.43	Williams	2000 EW ₂₂
2000 EY ₂₂	17.0	0.15	20000226	327.02372	35.79446	172.11941	6.21841	0.1435374	3.0441607	12	1	9 days	0.50	Williams	2000 EY ₂₂
2000 EZ ₂₂	18.6	0.15	20000226	275.85090	92.86212	169.87596	6.63748	0.1293587	2.1909312	15	1	12 days	0.49	Williams	2000 EZ ₂₂
2000 EA ₂₃	18.5	0.15	20000226	325.75054	4.84777	202.61334	0.70133	0.1311181	2.3618763	9	1	9 days	0.19	Williams	2000 EA ₂₃

2000 MAR. 20

M.P.C. 39635

2000 EB ₂₃	15.7	0.15	20000226	148.84372	176.64573	187.52254	1.49356	0.2864706	2.9485073	9	1	9 days	0.16	Williams	2000 EB ₂₃
2000 EC ₂₃	15.8	0.15	20000226	271.47781	307.61328	339.08412	3.31216	0.3029498	2.5852477	29	1	11 days	0.46	Williams	2000 EC ₂₃
2000 ED ₂₃	17.7	0.15	20000226	284.51074	78.23460	177.47936	1.58782	0.1395877	2.3625892	12	1	8 days	0.30	Williams	2000 ED ₂₃
2000 EH ₂₃	18.5	0.15	20000226	16.15635	158.96920	345.46251	2.81837	0.1029184	2.4694420	9	1	9 days	0.14	Williams	2000 EH ₂₃
2000 EJ ₂₃	19.2	0.15	20000226	352.74504	188.85991	345.09748	2.26705	0.1997308	2.3120870	9	1	9 days	0.30	Williams	2000 EJ ₂₃
2000 EL ₂₃	16.4	0.15	20000226	112.69553	227.42686	163.52528	0.95322	0.0436783	2.9649541	12	1	8 days	0.17	Williams	2000 EL ₂₃
2000 EM ₂₃	15.6	0.15	20000226	74.83208	262.30427	172.46273	2.32541	0.1052760	2.7136699	15	1	3 days	0.72	E Williams	2000 EM ₂₃
2000 EN ₂₃	18.6	0.15	20000226	341.58304	211.58005	333.96589	1.25517	0.1527851	2.1222408	9	1	3 days	0.49	E Williams	2000 EN ₂₃
2000 EP ₂₃	15.7	0.15	20000226	166.13704	18.81894	334.94295	1.92943	0.2829591	2.7256644	9	1	4 days	0.17	E Williams	2000 EP ₂₃
2000 EQ ₂₃	20.0	0.15	20000226	344.25923	204.77842	347.59960	9.29049	0.2998773	2.4635994	9	1	4 days	0.11	E Williams	2000 EQ ₂₃
2000 ER ₂₃	15.9	0.15	20000226	313.06776	48.86352	190.65015	3.21362	0.1738282	2.6004274	16	1	3 days	0.25	E Williams	2000 ER ₂₃
2000 ES ₂₃	17.0	0.15	20000226	56.47083	275.93322	192.63607	2.66941	0.1049255	2.4271045	11	1	2 days	0.40	E Williams	2000 ES ₂₃
2000 ET ₂₃	15.4	0.15	20000226	277.54380	93.51655	195.48744	1.96106	0.2565386	2.5360992	19	1	3 days	0.50	E Williams	2000 ET ₂₃
2000 EU ₂₃	17.1	0.15	20000226	357.14523	322.90180	217.33413	0.92182	0.1153996	2.7815631	10	1	2 days	1.12	E Williams	2000 EU ₂₃
2000 EV ₂₃	14.7	0.15	20000226	262.14205	283.74666	357.66767	7.79474	0.0453641	2.8004568	22	1	15 days	0.42	Williams	2000 EV ₂₃
2000 EW ₂₃	15.9	0.15	20000226	53.58732	146.30300	336.14854	1.15893	0.0198373	2.7050761	13	1	3 days	0.51	E Williams	2000 EW ₂₃
2000 EX ₂₃	17.2	0.15	20000226	338.66200	209.32723	350.84702	2.79478	0.0737939	2.3582857	10	1	2 days	0.40	E Williams	2000 EX ₂₃
2000 EA ₂₄	15.9	0.15	20000226	285.04573	290.85768	353.54593	4.82237	0.2816149	2.4023906	14	1	3 days	0.55	E Williams	2000 EA ₂₄
2000 EC ₂₄	14.1	0.15	20000226	271.24417	293.18184	356.11394	4.13295	0.1800124	3.1274692	14	1	3 days	0.57	E Williams	2000 EC ₂₄
2000 EE ₂₄	17.3	0.15	20000226	51.85464	285.55594	182.16388	3.82538	0.1571618	2.2994285	12	1	3 days	0.62	E Williams	2000 EE ₂₄
2000 EF ₂₄	14.1	0.15	20000226	61.94965	279.36141	188.52230	1.89078	0.0904409	3.0064773	19	1	3 days	0.38	E Williams	2000 EF ₂₄
2000 EH ₂₄	17.6	0.15	20000226	65.34889	103.11277	353.88838	3.41318	0.1245503	2.2655223	9	1	2 days	0.21	E Williams	2000 EH ₂₄
2000 EJ ₂₄	15.5	0.15	20000226	336.46788	205.34662	1.19710	17.33152	0.0646515	3.1891154	9	1	3 days	0.43	E Williams	2000 EJ ₂₄
2000 EM ₂₄	17.2	0.15	20000226	29.92788	133.95343	358.06882	3.24354	0.1703835	2.2011243	18	1	3 days	0.67	E Williams	2000 EM ₂₄
2000 EN ₂₄	16.4	0.15	20000226	45.43780	106.15105	358.07376	3.66583	0.2626705	2.5508613	14	1	3 days	0.37	E Williams	2000 EN ₂₄
2000 EO ₂₄	15.6	0.15	20000226	300.31524	63.21879	189.07831	1.30376	0.1454969	2.4476096	15	1	3 days	0.53	E Williams	2000 EO ₂₄
2000 EQ ₂₄	15.1	0.15	20000226	106.85980	53.90401	0.71897	2.35689	0.1896014	2.8140007	9	1	3 days	0.28	E Williams	2000 EQ ₂₄
2000 ER ₂₄	15.8	0.15	20000226	89.88426	68.12427	0.17885	11.76615	0.1788596	2.3884294	16	1	3 days	0.68	E Williams	2000 ER ₂₄
2000 ES ₂₄	16.4	0.15	20000226	59.64783	97.31547	358.48027	3.95743	0.2085337	2.7126730	9	1	3 days	0.55	E Williams	2000 ES ₂₄
2000 ET ₂₄	14.6	0.15	20000226	76.51517	76.47305	2.69806	16.00489	0.2193702	3.1757124	14	1	3 days	0.57	E Williams	2000 ET ₂₄
2000 EU ₂₄	13.9	0.15	20000226	74.37495	81.71950	2.42668	8.97155	0.1950125	3.2190242	16	1	3 days	0.47	E Williams	2000 EU ₂₄
2000 EW ₂₄	13.3	0.15	20000226	249.36774	126.17555	183.29570	10.06132	0.1753731	3.0913569	19	1	3 days	0.69	E Williams	2000 EW ₂₄
2000 EX ₂₄	16.1	0.15	20000226	30.03836	312.47145	177.90488	0.32326	0.2038042	2.4091510	17	1	3 days	0.64	E Williams	2000 EX ₂₄
2000 EY ₂₄	19.0	0.15	20000226	23.94244	311.06587	176.92311	3.21738	0.2964980	2.2736942	9	1	3 days	1.18	E Williams	2000 EY ₂₄
2000 EZ ₂₄	15.0	0.15	20000226	57.10598	108.22751	3.89155	7.07186	0.1073958	3.1078787	11	1	2 days	0.54	E Williams	2000 EZ ₂₄
2000 EB ₂₅	17.0	0.15	20000226	301.33900	86.95260	178.31603	4.68594	0.2606199	2.4766911	13	1	3 days	0.48	E Williams	2000 EB ₂₅
2000 EC ₂₅	15.3	0.15	20000226	350.74174	8.70213	179.48199	9.55038	0.1228931	2.4237980	18	1	3 days	0.61	E Williams	2000 EC ₂₅
2000 ED ₂₅	15.5	0.15	20000226	79.93238	266.60114	169.97398	1.10663	0.2188726	3.1127322	9	1	2 days	0.24	E Williams	2000 ED ₂₅
2000 EE ₂₅	16.4	0.15	20000226	82.60562	60.26221	10.86647	2.37939	0.2322568	2.6800646	9	1	3 days	0.59	E Williams	2000 EE ₂₅
2000 EJ ₂₅	16.4	0.15	20000226	63.36508	286.06110	166.11744	0.73102	0.2020699	2.4794909	15	1	3 days	0.44	E Williams	2000 EJ ₂₅
2000 EK ₂₅	16.5	0.15	20000226	50.86948	101.57793	10.23026	1.66171	0.1606250	2.6869773	10	1	3 days	0.37	E Williams	2000 EK ₂₅
2000 EL ₂₅	15.8	0.15	20000226	277.99627	286.35128	7.49669	5.50631	0.2716228	2.8761184	9	1	3 days	0.34	E Williams	2000 EL ₂₅
2000 EN ₂₅	16.2	0.15	20000226	52.96297	80.03745	18.31039	1.17103	0.2449605	2.5104067	28	1	3 days	0.66	E Williams	2000 EN ₂₅
2000 ES ₂₅	16.1	0.15	20000226	30.24513	133.63549	3.79612	7.01966	0.1335629	2.3711972	25	1	10 days	0.60	Williams	2000 ES ₂₅
2000 EU ₂₅	15.1	0.15	20000226	324.37017	204.61919	15.92926	1.76247	0.1024823	2.3869319	29	1	4 days	0.72	E Williams	2000 EU ₂₅
2000 EV ₂₅	15.6	0.15	20000226	266.50569	109.55027	182.49806	16.52197	0.1436353	3.1835460	15	1	7 days	0.62	Williams	2000 EV ₂₅
2000 EW ₂₅	14.3	0.15	20000226	52.17927	306.40726	178.24389	4.45035	0.0533400	3.1756160	21	1	7 days	0.84	Williams	2000 EW ₂₅
2000 EY ₂₅	16.0	0.15	20000226	64.29362	283.84326	172.77216	2.90611	0.1586408	2.4236489	25	1	5 days	0.47	E Williams	2000 EY ₂₅
2000 EZ ₂₅	14.9	0.15	20000226	36.98830	124.77157	8.24027	5.95046	0.1101917	2.5219941	34	1	5 days	0.42	E Williams	2000 EZ ₂₅
2000 EA ₂₆	17.5	0.15	20000226	46.96171	324.34813	146.73089	1.09014	0.2085198	2.6051060	9	1	3 days	0.33	E Williams	2000 EA ₂₆
2000 EB ₂₆	13.8	0.15	20000226	133.00283	4.64163	38.97079	1.50601	0.0926657	3.2451776	18	1	4 days	1.01	E Williams	2000 EB ₂₆
2000 EC ₂₆	14.0	0.15	20000226	278.01350	101.79225	176.85430	5.94626	0.1476344	2.4199948	30	1	12 days	0.69	Williams	2000 EC ₂₆
2000 EG ₂₆	19.0	0.15	20000226	139.70258	204.55120	165.92891	17.31932	0.1851648	1.8082143	8	1	6 days	0.29	E Williams	2000 EG ₂₆

2000 EH ₂₆	21.6	0.15	20000226	329.80976	18.63904	215.72887	0.39493	0.4796212	1.8570495	21	1	11 days	0.39	Williams	2000 EH ₂₆
2000 EJ ₂₆	19.5	0.15	20000226	291.88832	285.69908	10.74127	9.27355	0.6166669	1.3849228	21	1	11 days	0.88	Williams	2000 EJ ₂₆
2000 EK ₂₆	18.1	0.15	20000226	24.65107	305.40336	126.69973	15.59222	0.6581994	2.3997992	34	1	10 days	0.69	Williams	2000 EK ₂₆
2000 EL ₂₆	18.6	0.15	20000226	301.10411	96.59834	152.49684	27.15567	0.3098694	1.6946227	26	1	10 days	1.22	Williams	2000 EL ₂₆
2000 EM ₂₆	22.4	0.15	20000226	107.36370	23.88432	345.36723	3.87669	0.4697391	0.8157986	32	1	9 days	0.60	Williams	2000 EM ₂₆
2000 EN ₂₆	15.9	0.15	20000226	38.70555	78.04008	33.41248	3.30244	0.2086728	2.3158445	11	1	6 days	1.04	E Williams	2000 EN ₂₆
2000 EP ₂₆	15.4	0.15	20000226	10.33314	161.79080	357.93075	22.15677	0.1323008	2.2623299	15	1	3 days	0.34	E Williams	2000 EP ₂₆
2000 EQ ₂₆	16.5	0.15	20000226	65.63479	99.47376	2.33052	19.41331	0.0827610	1.9551910	16	1	10 days	0.42	Williams	2000 EQ ₂₆
2000 ER ₂₆	17.1	0.15	20000226	159.29777	197.04101	176.42731	21.29116	0.0660564	1.9200173	17	1	6 days	0.83	Williams	2000 ER ₂₆
2000 ES ₂₆	17.2	0.15	20000226	47.57893	296.24412	179.75930	23.28143	0.0969607	1.8951748	18	1	5 days	0.69	E Williams	2000 ES ₂₆
2000 ET ₂₆	14.5	0.15	20000226	63.54097	65.89815	6.53341	31.48695	0.3978563	2.5333545	12	1	2 days	0.28	E Williams	2000 ET ₂₆
2000 EY ₂₆	16.5	0.15	20000226	178.82519	224.67117	129.49181	3.10672	0.1663141	2.3755807	10	1	5 days	1.40	Williams	2000 EY ₂₆
2000 EZ ₂₆	16.5	0.15	20000226	21.52698	337.56107	145.75127	6.87969	0.0734776	2.3920904	14	1	11 days	0.74	Williams	2000 EZ ₂₆
2000 EA ₂₇	14.2	0.15	20000226	121.10644	220.80707	144.19903	5.45793	0.2724246	2.6035573	10	1	8 days	0.70	Williams	2000 EA ₂₇
2000 EB ₂₇	13.8	0.15	20000226	156.37961	192.90963	158.58237	11.03232	0.0910209	3.0708164	13	1	8 days	0.39	Williams	2000 EB ₂₇
2000 EE ₂₇	15.1	0.15	20000226	254.57102	307.46777	333.13717	1.34290	0.1489846	2.3976033	13	1	11 days	0.53	Williams	2000 EE ₂₇
2000 EF ₂₇	14.8	0.15	20000226	18.13319	167.76746	336.17463	7.34109	0.0836270	3.1514221	15	1	8 days	0.81	Williams	2000 EF ₂₇
2000 EG ₂₇	14.2	0.15	20000226	97.52771	72.12150	329.22068	5.85382	0.2611885	3.0355599	14	1	8 days	0.75	Williams	2000 EG ₂₇
2000 EH ₂₇	17.8	0.15	20000226	351.41680	322.74967	212.65685	1.67571	0.1574726	2.2886492	19	1	8 days	0.65	Williams	2000 EH ₂₇
2000 EJ ₂₇	16.4	0.15	20000226	312.05210	38.94009	188.24037	4.33337	0.1522112	2.4368696	15	1	8 days	0.40	Williams	2000 EJ ₂₇
2000 EK ₂₇	17.6	0.15	20000226	37.59587	262.84709	212.75003	1.46802	0.1341964	2.2631080	17	1	8 days	0.80	Williams	2000 EK ₂₇
2000 EL ₂₇	16.5	0.15	20000226	313.69579	251.91855	335.83200	7.60909	0.1736532	2.5041962	17	1	8 days	0.80	Williams	2000 EL ₂₇
2000 ER ₂₇	16.3	0.15	20000226	256.23802	192.11022	69.94793	7.25600	0.0936979	2.3315786	10	1	8 days	0.51	Williams	2000 ER ₂₇
2000 ES ₂₇	16.2	0.15	20000226	77.35545	341.01858	81.61936	7.52803	0.0934642	2.4065963	12	1	8 days	0.66	Williams	2000 ES ₂₇
2000 ET ₂₇	14.0	0.15	20000226	290.35729	177.48884	51.06307	11.37941	0.0293820	3.0864247	9	1	8 days	0.47	Williams	2000 ET ₂₇
2000 EU ₂₇	14.8	0.15	20000226	232.20878	210.58874	81.76433	7.16238	0.1795967	2.2745651	19	1	8 days	0.31	Williams	2000 EU ₂₇
2000 EV ₂₇	13.5	0.15	20000226	62.31560	314.92680	127.71453	20.01751	0.0534913	3.3165130	13	1	8 days	0.35	Williams	2000 EV ₂₇
2000 EW ₂₇	14.5	0.15	20000226	93.91574	267.95722	130.14461	19.81590	0.1726172	3.1964742	18	1	8 days	0.57	Williams	2000 EW ₂₇
2000 EZ ₂₇	14.8	0.15	20000226	291.63241	229.26388	10.04642	11.27567	0.1423550	2.6653465	13	1	8 days	0.50	Williams	2000 EZ ₂₇
2000 EB ₂₈	15.7	0.15	20000226	301.74969	160.78254	72.30530	5.69340	0.1717904	2.3293181	13	1	7 days	0.39	E Williams	2000 EB ₂₈
2000 EF ₂₈	14.9	0.15	20000226	341.10193	171.35619	8.82582	15.87369	0.1201965	2.7004171	15	1	8 days	0.46	Williams	2000 EF ₂₈
2000 EG ₂₈	13.6	0.15	20000226	93.67552	322.58489	95.71769	11.49788	0.0412982	3.1901465	15	1	8 days	0.31	Williams	2000 EG ₂₈
2000 EH ₂₈	15.5	0.15	20000226	309.95288	120.45209	111.96466	12.05462	0.2297805	2.5946262	15	1	8 days	0.33	Williams	2000 EH ₂₈
2000 EM ₂₈	12.9	0.15	20000226	83.33858	18.25645	49.63344	11.05186	0.0874976	2.9666479	15	1	8 days	0.21	Williams	2000 EM ₂₈
2000 EO ₂₈	13.5	0.15	20000226	87.16797	353.86425	74.60092	10.29321	0.0582507	3.2198453	15	1	8 days	0.69	Williams	2000 EO ₂₈
2000 ER ₂₈	15.2	0.15	20000226	65.73754	46.18661	28.79304	13.81324	0.1435725	2.5809022	15	1	8 days	0.64	Williams	2000 ER ₂₈
2000 ES ₂₈	14.9	0.15	20000226	57.20536	69.86106	18.45911	12.01232	0.1017504	2.6530049	13	1	8 days	0.55	Williams	2000 ES ₂₈
2000 EX ₂₈	14.3	0.15	20000226	344.82472	71.27863	108.04837	15.34598	0.0870059	2.6430269	15	1	11 days	0.24	Williams	2000 EX ₂₈
2000 EC ₂₉	13.1	0.15	20000226	114.24406	6.70452	39.03018	17.81587	0.0846322	3.1108183	15	1	8 days	0.71	Williams	2000 EC ₂₉
2000 ED ₂₉	13.1	0.15	20000226	293.71217	147.23158	107.61463	14.38700	0.1616239	3.1665936	15	1	8 days	0.28	Williams	2000 ED ₂₉
2000 EF ₂₉	13.0	0.15	20000226	292.64211	155.33689	110.98975	14.92659	0.2437976	3.0758957	15	1	11 days	0.32	Williams	2000 EF ₂₉
2000 EH ₂₉	14.7	0.15	20000226	270.50747	328.17912	308.21495	6.04455	0.2824441	2.6990471	12	1	6 days	0.41	E Williams	2000 EH ₂₉
2000 EN ₂₉	14.1	0.15	20000226	99.08927	277.92972	142.43738	17.96956	0.0593039	3.0536991	18	1	7 days	0.49	Williams	2000 EN ₂₉
2000 ES ₂₉	15.3	0.15	20000226	302.62553	176.17485	44.60156	3.67652	0.1032831	2.6380011	27	1	16 days	0.54	Williams	2000 ES ₂₉
2000 EU ₂₉	15.0	0.15	20000226	305.52391	226.24691	353.02399	11.21821	0.1198505	2.6027500	13	1	7 days	0.48	Williams	2000 EU ₂₉
2000 EX ₂₉	14.8	0.15	20000226	269.02715	138.06673	124.32577	6.56426	0.1586930	2.4399633	12	1	7 days	0.63	Williams	2000 EX ₂₉
2000 EZ ₂₉	16.0	0.15	20000226	56.01608	26.12891	54.96192	3.08636	0.1705089	2.3388259	14	1	6 days	0.38	E Williams	2000 EZ ₂₉
2000 EA ₃₀	15.0	0.15	20000226	305.42487	84.33864	148.02684	23.49999	0.2039318	3.1811345	22	1	16 days	0.39	Williams	2000 EA ₃₀
2000 EB ₃₀	14.1	0.15	20000226	149.64951	228.67762	129.57820	13.94128	0.1788017	2.5399135	14	1	7 days	0.52	Williams	2000 EB ₃₀
2000 EC ₃₀	15.4	0.15	20000226	289.60924	119.19763	135.15862	12.87013	0.2273255	2.6028672	23	1	16 days	0.33	Williams	2000 EC ₃₀
2000 ED ₃₀	14.7	0.15	20000206	109.25955	348.14906	41.73500	6.28988	0.1478747	2.1910606	19	1	37 days	0.49	Williams	2000 ED ₃₀
2000 EF ₃₀	13.8	0.15	20000226	244.36503	232.42455	56.47947	7.83437	0.1331112	2.6020325	15	1	7 days	0.28	Williams	2000 EF ₃₀
2000 EJ ₃₀	13.3	0.15	20000226	179.60293	221.97801	119.91071	11.16459	0.0866148	2.9441303	15	1	7 days	0.43	Williams	2000 EJ ₃₀

2000 MAR. 20

M.P.C. 39637

2000 EK ₃₀	13.7	0.15	20000226	201.37479	318.36795	7.66384	14.92986	0.2083506	2.5669603	19	1	7 days	0.31	Williams	2000 EK ₃₀
2000 EM ₃₀	13.2	0.15	20000226	116.90441	17.18131	9.66216	14.96710	0.1899173	3.0379627	15	1	7 days	0.43	Williams	2000 EM ₃₀
2000 EO ₃₀	16.0	0.15	20000226	336.93132	152.80079	35.28049	7.13523	0.0797680	2.2686286	14	1	7 days	0.64	Williams	2000 EO ₃₀
2000 EQ ₃₀	14.6	0.15	20000226	26.58851	17.92240	110.81611	9.06654	0.1090189	2.8576787	15	1	7 days	0.46	Williams	2000 EQ ₃₀
2000 EU ₃₀	14.3	0.15	20000226	117.36259	356.03713	38.74777	10.61327	0.0917500	3.0035477	19	1	10 days	0.44	Williams	2000 EU ₃₀
2000 EV ₃₀	13.2	0.15	20000226	182.66646	288.98060	50.14268	9.92729	0.0785558	3.0186513	15	1	7 days	0.38	Williams	2000 EV ₃₀
2000 EA ₃₁	16.4	0.15	20000226	4.97517	119.43582	35.49006	6.94596	0.1121894	2.2503740	14	1	7 days	0.56	Williams	2000 EA ₃₁
2000 EC ₃₁	13.6	0.15	20000226	215.89281	204.01579	111.08609	10.13082	0.1288080	3.0749930	15	1	7 days	0.78	Williams	2000 EC ₃₁
2000 EF ₃₁	15.2	0.15	20000226	78.60967	9.68889	65.61164	7.10841	0.0864572	2.4174314	13	1	7 days	0.46	Williams	2000 EF ₃₁
2000 EG ₃₁	15.0	0.15	20000226	322.11686	100.13839	106.01585	7.58520	0.0602602	2.3403173	15	1	7 days	0.40	Williams	2000 EG ₃₁
2000 EH ₃₁	14.1	0.15	20000226	120.55538	300.09031	88.33255	8.78121	0.2044548	2.5880814	15	1	7 days	0.45	Williams	2000 EH ₃₁
2000 EK ₃₁	13.5	0.15	20000226	323.72738	187.46561	3.24699	10.48813	0.0107056	3.1835896	25	1	30 days	0.66	Williams	2000 EK ₃₁
2000 EN ₃₁	15.8	0.15	20000226	326.67818	163.51492	43.10906	8.02246	0.1723360	2.4800051	14	1	7 days	0.43	Williams	2000 EN ₃₁
2000 EO ₃₁	13.6	0.15	20000206	102.69118	37.14543	5.41165	22.15299	0.1212350	3.1959036	18	1	38 days	0.48	Williams	2000 EO ₃₁
2000 ET ₃₁	13.5	0.15	20000226	215.27502	291.95350	21.29107	13.26996	0.1206934	2.8507332	12	1	7 days	0.37	Williams	2000 ET ₃₁
2000 EW ₃₁	16.9	0.15	20000226	28.60409	117.31625	357.25040	7.14254	0.1612820	2.5581355	13	1	6 days	0.59	E Williams	2000 EW ₃₁
2000 EA ₃₂	15.9	0.15	20000226	100.43214	265.57806	140.53657	6.96158	0.0786839	2.2628022	13	1	6 days	0.45	E Williams	2000 EA ₃₂
2000 EB ₃₂	15.7	0.15	20000226	225.51589	174.56677	123.61214	3.93012	0.1119300	2.1124117	13	1	7 days	0.51	E Williams	2000 EB ₃₂
2000 EG ₃₂	15.0	0.15	20000226	223.64195	231.73210	73.31403	3.48789	0.2059648	2.4211142	22	1	16 days	0.58	Williams	2000 EG ₃₂
2000 EL ₃₂	15.5	0.15	20000226	342.05284	146.79408	37.12296	2.09418	0.1790052	3.2494705	17	1	6 days	0.53	E Williams	2000 EL ₃₂
2000 EM ₃₂	14.4	0.15	20000226	162.47231	212.98944	143.64270	12.41911	0.0219078	3.0416579	19	1	7 days	0.43	Williams	2000 EM ₃₂
2000 EO ₃₂	14.9	0.15	20000226	68.33153	37.29316	31.86256	4.31132	0.1937842	2.5739009	19	1	7 days	0.43	Williams	2000 EO ₃₂
2000 EP ₃₂	16.4	0.15	20000226	329.91078	79.35768	119.51533	5.25358	0.1404256	2.6911552	13	1	6 days	0.51	E Williams	2000 EP ₃₂
2000 ER ₃₂	14.8	0.15	20000226	178.02991	325.31951	16.00699	7.15874	0.1486360	2.3723640	14	1	6 days	0.38	E Williams	2000 ER ₃₂
2000 ET ₃₂	13.4	0.15	20000226	111.91865	39.14426	0.31904	10.37741	0.0870297	2.9928206	15	1	7 days	0.32	Williams	2000 ET ₃₂
2000 EU ₃₂	16.2	0.15	20000226	281.76853	163.39071	95.69245	3.49393	0.1824768	2.3772246	19	1	10 days	0.53	Williams	2000 EU ₃₂
2000 EV ₃₂	15.0	0.15	20000226	219.21132	177.94034	132.00941	7.14990	0.1407086	2.3559528	14	1	7 days	0.45	Williams	2000 EV ₃₂
2000 EX ₃₂	14.2	0.15	20000226	206.69145	185.86591	134.42191	7.56427	0.1414644	2.2868692	15	1	7 days	0.21	Williams	2000 EX ₃₂
2000 EE ₃₃	14.7	0.15	20000226	110.73459	258.79824	136.92215	7.94688	0.1483704	2.3638439	15	1	7 days	0.35	Williams	2000 EE ₃₃
2000 EG ₃₃	14.8	0.15	20000226	253.48739	150.71885	138.26695	9.03533	0.2070831	2.4810620	12	1	7 days	1.05	Williams	2000 EG ₃₃
2000 EL ₃₃	13.6	0.15	20000226	134.70683	270.85011	104.01673	6.20743	0.1762664	3.1370253	16	1	12 days	0.60	Williams	2000 EL ₃₃
2000 EM ₃₃	14.4	0.15	20000226	317.75531	109.12528	102.42030	7.26034	0.0834122	3.0510946	14	1	7 days	0.54	Williams	2000 EM ₃₃
2000 EN ₃₃	14.9	0.15	20000226	322.51354	70.38539	138.77565	12.71384	0.1121788	2.7894109	18	1	7 days	0.54	Williams	2000 EN ₃₃
2000 EP ₃₃	13.9	0.15	20000226	225.10819	181.57852	133.24769	14.49732	0.1899141	2.6132397	15	1	7 days	0.45	Williams	2000 EP ₃₃
2000 EQ ₃₃	15.2	0.15	20000226	213.72969	231.29204	83.90531	7.54659	0.0583808	2.3924397	10	1	7 days	0.28	Williams	2000 EQ ₃₃
2000 ET ₃₃	15.9	0.15	20000206	42.90779	26.08467	79.10733	6.54637	0.1147927	2.2570956	23	1	40 days	0.32	Williams	2000 ET ₃₃
2000 EX ₃₃	14.8	0.15	20000226	283.49294	130.80032	130.56735	13.44756	0.1389497	2.6591912	11	1	7 days	0.63	Williams	2000 EX ₃₃
2000 EY ₃₃	14.8	0.15	20000226	123.07703	283.64213	104.04020	9.45324	0.2344694	2.2526865	13	1	7 days	0.56	Williams	2000 EY ₃₃
2000 EA ₃₄	14.3	0.15	20000226	253.84838	265.79133	29.06698	14.35075	0.1810950	2.5679240	13	1	7 days	0.50	Williams	2000 EA ₃₄
2000 EC ₃₄	14.7	0.15	20000226	328.79542	89.63546	118.44539	12.53703	0.1210585	2.6394030	15	1	7 days	0.73	Williams	2000 EC ₃₄
2000 ED ₃₄	14.8	0.15	20000226	252.89296	191.33056	94.96472	10.78512	0.1016857	2.3612737	14	1	7 days	0.49	Williams	2000 ED ₃₄
2000 EF ₃₄	16.4	0.15	20000226	344.78442	51.50942	128.48559	4.46738	0.2296940	2.6810091	13	1	6 days	0.38	E Williams	2000 EF ₃₄
2000 EJ ₃₄	14.3	0.15	20000226	143.59619	294.63301	76.38916	3.00352	0.1040143	2.8364587	12	1	7 days	0.65	Williams	2000 EJ ₃₄
2000 EL ₃₄	14.9	0.15	20000226	284.48178	190.10236	59.92775	9.08041	0.0650832	2.4843048	13	1	7 days	0.47	Williams	2000 EL ₃₄
2000 EM ₃₄	13.2	0.15	20000226	210.35681	195.18876	130.43916	15.04943	0.1236605	2.7019720	12	1	7 days	0.45	Williams	2000 EM ₃₄
2000 EN ₃₄	14.3	0.15	20000226	36.55077	5.80140	122.14754	12.90600	0.0832491	2.6758809	10	1	7 days	0.43	Williams	2000 EN ₃₄
2000 EO ₃₄	15.0	0.15	20000226	315.58669	109.91100	124.64854	12.43252	0.2107982	2.5858039	13	1	7 days	0.50	Williams	2000 EO ₃₄
2000 EP ₃₄	12.7	0.15	20000226	251.86063	232.23793	55.69840	15.15258	0.0506987	3.2351709	13	1	7 days	0.65	Williams	2000 EP ₃₄
2000 EQ ₃₄	15.1	0.15	20000226	215.19790	253.38609	55.93224	1.57195	0.1116419	2.3318862	12	1	6 days	0.76	E Williams	2000 EQ ₃₄
2000 ER ₃₄	12.9	0.15	20000226	298.56638	126.97961	132.72509	18.62411	0.1769933	3.1262467	13	1	10 days	0.37	Williams	2000 ER ₃₄
2000 EU ₃₄	12.9	0.15	20000226	134.93990	283.79724	103.10544	12.06915	0.1370700	3.0431668	9	1	7 days	0.66	Williams	2000 EU ₃₄
2000 EX ₃₄	16.3	0.15	20000226	52.70662	10.95572	70.72894	6.54941	0.1567209	2.2774175	13	1	5 days	0.48	E Williams	2000 EX ₃₄
2000 EB ₃₅	13.6	0.15	20000226	103.77222	130.95990	238.06480	8.19446	0.2359677	2.5039196	10	1	4 days	0.49	E Williams	2000 EB ₃₅

2000 EE ₃₅	15.0	0.15	20000226	13.54882	274.32641	219.87503	6.69015	0.1460675	2.7194903	16	1	5 days	0.49	E Williams	2000 EE ₃₅
2000 EL ₃₅	16.2	0.15	20000226	47.03285	101.59650	2.85623	4.92635	0.0621155	2.4133405	13	1	3 days	0.55	E Williams	2000 EL ₃₅
2000 EN ₃₅	15.1	0.15	20000226	289.16557	139.37312	106.98570	9.66424	0.1584105	2.5529010	15	1	4 days	0.53	E Williams	2000 EN ₃₅
2000 EP ₃₅	13.2	0.15	20000226	285.46164	228.21346	44.45010	11.19256	0.2122648	3.1902579	13	1	4 days	0.57	E Williams	2000 EP ₃₅
2000 EW ₃₅	15.5	0.15	20000226	114.17973	230.31965	176.07447	3.97283	0.0439679	3.0848874	24	1	11 days	0.61	Williams	2000 EW ₃₅
2000 EY ₃₅	17.2	0.15	20000226	130.08130	47.71006	340.26576	4.54999	0.0781086	2.2143130	23	1	11 days	0.59	Williams	2000 EY ₃₅
2000 EZ ₃₅	17.2	0.15	20000226	274.54169	88.80135	171.17831	10.06762	0.0838497	2.3766271	19	1	11 days	0.50	Williams	2000 EZ ₃₅
2000 EA ₃₆	16.3	0.15	20000226	116.41988	49.80912	338.64880	2.46221	0.2322349	2.3424679	21	1	9 days	0.55	Williams	2000 EA ₃₆
2000 EB ₃₆	18.3	0.15	20000226	8.15713	166.02198	343.71256	3.38927	0.2114140	2.1659365	30	1	8 days	0.71	Williams	2000 EB ₃₆
2000 EC ₃₆	16.9	0.15	20000226	249.55107	53.94646	230.77493	0.68068	0.0982117	2.2662860	19	1	11 days	0.39	Williams	2000 EC ₃₆
2000 ED ₃₆	14.2	0.15	20000226	14.53342	36.77510	107.96543	13.77837	0.1609829	2.3990776	18	1	11 days	0.48	Williams	2000 ED ₃₆
2000 EE ₃₆	10.2	0.15	20000226	73.01958	344.65334	88.60127	16.02588	0.1817873	3.1473799	14	1	11 days	0.16	Williams	2000 EE ₃₆
2000 EF ₃₆	13.5	0.15	20000226	85.23512	326.16625	100.07599	6.88892	0.1122485	2.4353734	19	1	7 days	1.07	Williams	2000 EF ₃₆
2000 EH ₃₆	13.1	0.15	20000226	264.04237	161.37193	118.36957	10.71696	0.1472042	3.0158875	13	1	7 days	0.43	Williams	2000 EH ₃₆
2000 EK ₃₆	14.8	0.15	20000226	325.75307	81.67493	133.49668	13.51805	0.1618832	2.6691168	14	1	7 days	0.79	Williams	2000 EK ₃₆
2000 EL ₃₆	13.7	0.15	20000226	334.70659	153.44454	45.64848	10.66249	0.1071002	2.7521910	24	1	8 days	0.65	Williams	2000 EL ₃₆
2000 EM ₃₆	13.3	0.15	20000226	76.36652	340.25991	90.26108	9.55609	0.1952829	2.7014614	14	1	7 days	0.46	Williams	2000 EM ₃₆
2000 EN ₃₆	12.6	0.15	20000226	118.03744	338.15455	62.36334	12.38416	0.1393042	3.0617523	13	1	7 days	0.78	Williams	2000 EN ₃₆
2000 EO ₃₆	15.0	0.15	20000226	308.14994	210.48265	30.85531	2.70584	0.1712526	2.3796291	33	1	16 days	0.62	Williams	2000 EO ₃₆
2000 ER ₃₆	14.7	0.15	20000226	155.81399	202.11975	174.48490	17.01832	0.0707599	2.6145333	18	1	6 days	0.38	E Williams	2000 ER ₃₆
2000 ES ₃₆	15.1	0.15	20000226	341.84037	48.10024	146.33456	1.63407	0.0708057	2.5140825	20	1	6 days	0.46	E Williams	2000 ES ₃₆
2000 EV ₃₆	15.1	0.15	20000226	51.37592	86.84073	12.70028	8.55452	0.2344879	2.8138786	19	1	6 days	0.56	E Williams	2000 EV ₃₆
2000 EX ₃₆	14.8	0.15	20000226	65.38103	38.42362	60.25065	2.71186	0.1228052	2.9759068	17	1	6 days	0.55	E Williams	2000 EX ₃₆
2000 EY ₃₆	15.6	0.15	20000226	310.16012	217.08289	21.23248	4.62634	0.1454915	2.3073263	23	1	16 days	0.79	Williams	2000 EY ₃₆
2000 EZ ₃₆	16.4	0.15	20000226	12.21466	146.63795	3.66575	1.34532	0.2036357	2.1835596	15	1	3 days	0.73	E Williams	2000 EZ ₃₆
2000 EB ₃₇	16.5	0.15	20000226	1.19995	164.08976	4.80081	1.68859	0.1828385	2.3165654	19	1	6 days	0.44	E Williams	2000 EB ₃₇
2000 EC ₃₇	15.5	0.15	20000226	311.39166	351.38993	240.71367	0.57950	0.1132203	2.3550405	19	1	6 days	0.47	E Williams	2000 EC ₃₇
2000 ED ₃₇	15.3	0.15	20000226	225.90309	320.33450	355.91544	7.82281	0.1001777	2.3356864	19	1	6 days	0.79	E Williams	2000 ED ₃₇
2000 EE ₃₇	14.8	0.15	20000226	210.20381	335.11981	353.90896	2.57056	0.0616409	2.7278887	17	1	6 days	0.35	E Williams	2000 EE ₃₇
2000 EG ₃₇	13.8	0.15	20000226	46.55466	134.03797	344.07011	4.24346	0.1287959	3.2533038	19	1	6 days	0.39	E Williams	2000 EG ₃₇
2000 EH ₃₇	15.7	0.15	20000226	339.36594	211.88066	345.88156	4.63342	0.1016694	2.2656328	14	1	3 days	0.43	E Williams	2000 EH ₃₇
2000 EJ ₃₇	14.6	0.15	20000226	293.39236	85.25412	186.68849	5.70448	0.2550585	2.8916427	18	1	6 days	0.51	E Williams	2000 EJ ₃₇
2000 EL ₃₇	14.7	0.15	20000226	329.28737	262.40997	311.91609	2.24131	0.1458612	2.4426011	15	1	3 days	0.45	E Williams	2000 EL ₃₇
2000 EM ₃₇	15.2	0.15	20000226	315.44888	288.63871	303.31265	1.82400	0.1476369	2.4185240	14	1	3 days	0.53	E Williams	2000 EM ₃₇
2000 EN ₃₇	16.4	0.15	20000226	13.73816	328.15422	179.70910	11.33342	0.2844748	2.9989069	18	1	6 days	0.70	E Williams	2000 EN ₃₇
2000 EQ ₃₇	15.2	0.15	20000226	15.93010	279.92306	236.78914	0.90462	0.1043976	2.9412770	17	1	6 days	0.74	E Williams	2000 EQ ₃₇
2000 ER ₃₇	16.1	0.15	20000226	350.71867	6.73624	180.47836	10.94485	0.1971648	2.5743332	19	1	6 days	0.55	E Williams	2000 ER ₃₇
2000 ES ₃₇	15.2	0.15	20000226	31.43126	269.21899	215.88084	1.03083	0.2441641	3.0666689	18	1	6 days	0.62	E Williams	2000 ES ₃₇
2000 ET ₃₇	14.4	0.15	20000226	30.07581	313.76652	177.37046	15.74736	0.1966309	3.0942887	22	1	14 days	0.38	Williams	2000 ET ₃₇
2000 EV ₃₇	13.9	0.15	20000226	48.88526	283.00851	173.65219	6.33747	0.2856371	3.8619883	17	1	6 days	0.54	E Williams	2000 EV ₃₇
2000 EW ₃₇	15.2	0.15	20000226	283.13232	273.55317	1.59284	7.96834	0.2044290	2.4851807	18	1	6 days	0.54	E Williams	2000 EW ₃₇
2000 EX ₃₇	13.2	0.15	20000226	290.83937	260.40120	6.11353	5.44724	0.1772010	3.2253748	15	1	3 days	0.30	E Williams	2000 EX ₃₇
2000 EY ₃₇	15.0	0.15	20000226	65.87170	79.11832	8.19424	4.08162	0.1996358	2.7495645	22	1	14 days	1.05	Williams	2000 EY ₃₇
2000 EA ₃₈	16.0	0.15	20000226	26.48767	82.49513	54.17013	1.30304	0.1632068	2.4226748	23	1	6 days	0.53	E Williams	2000 EA ₃₈
2000 EB ₃₈	13.7	0.15	20000226	244.45951	138.49949	172.96280	11.45220	0.1970000	2.6785399	15	1	3 days	0.37	E Williams	2000 EB ₃₈
2000 ED ₃₈	16.6	0.15	20000226	18.27960	324.36828	174.06903	1.16860	0.2926946	2.6320053	18	1	6 days	0.60	E Williams	2000 ED ₃₈
2000 EE ₃₈	14.2	0.15	20000226	304.25884	71.68147	190.00154	8.58760	0.2644504	3.0313320	13	1	3 days	0.76	E Williams	2000 EE ₃₈
2000 EG ₃₈	13.7	0.15	20000226	259.66620	98.70668	190.68990	7.01695	0.1119856	2.6823579	15	1	3 days	0.40	E Williams	2000 EG ₃₈
2000 EH ₃₈	15.1	0.15	20000226	316.71091	244.61053	343.47498	5.40766	0.1278917	2.2514011	15	1	3 days	0.32	E Williams	2000 EH ₃₈
2000 EL ₃₈	13.3	0.15	20000226	244.36512	118.92666	183.89472	10.53943	0.0898068	2.9793871	18	1	6 days	0.77	E Williams	2000 EL ₃₈
2000 EN ₃₈	14.5	0.15	20000226	254.51879	308.86305	357.41662	8.60415	0.2235106	2.8122548	19	1	6 days	0.47	E Williams	2000 EN ₃₈
2000 EO ₃₈	15.3	0.15	20000226	290.83514	283.20454	352.86874	5.54476	0.2780552	2.2508738	15	1	3 days	0.45	E Williams	2000 EO ₃₈
2000 EP ₃₈	14.9	0.15	20000226	78.25781	84.86508	6.54912	1.43833	0.0791243	3.0439780	16	1	6 days	0.55	E Williams	2000 EP ₃₈

2000 MAR. 20

M.P.C. 39639

2000 EQ ₃₈	14.5	0.15	20000226	0.57263	352.54152	182.64555	15.28763	0.2165673	3.2149544	14	1	3 days	0.46	E Williams	2000 EQ ₃₈
2000 ER ₃₈	13.3	0.15	20000226	287.89673	348.75538	277.83586	1.23871	0.1409666	3.1080129	15	1	3 days	0.54	E Williams	2000 ER ₃₈
2000 ES ₃₈	13.6	0.15	20000226	269.85188	88.81515	191.60415	3.67476	0.1121796	2.7142629	13	1	3 days	0.38	E Williams	2000 ES ₃₈
2000 ET ₃₈	13.3	0.15	20000226	235.05728	122.17537	186.27972	12.68638	0.0514185	2.9239161	15	1	3 days	0.39	E Williams	2000 ET ₃₈
2000 EU ₃₈	15.2	0.15	20000226	46.73954	137.18456	321.94614	1.55668	0.2819299	2.5349997	15	1	3 days	0.48	E Williams	2000 EU ₃₈
2000 EW ₃₈	13.4	0.15	20000226	48.44600	293.43491	183.99241	12.53011	0.1251203	2.9002689	15	1	3 days	0.15	E Williams	2000 EW ₃₈
2000 EX ₃₈	14.9	0.15	20000226	15.13142	160.15475	345.52560	4.15888	0.2736633	2.5294058	15	1	3 days	0.36	E Williams	2000 EX ₃₈
2000 EY ₃₈	14.4	0.15	20000226	287.95827	282.34424	352.04308	6.75949	0.2143014	2.6643893	18	1	6 days	0.31	E Williams	2000 EY ₃₈
2000 EA ₃₉	15.9	0.15	20000226	41.90875	301.29470	178.33632	7.09257	0.1780035	3.0098582	17	1	6 days	1.03	E Williams	2000 EA ₃₉
2000 EB ₃₉	14.0	0.15	20000226	129.76196	43.72378	1.52292	10.94187	0.0485355	2.9377040	15	1	4 days	0.51	E Williams	2000 EB ₃₉
2000 EC ₃₉	14.3	0.15	20000226	221.93523	291.69848	33.83220	0.37944	0.1035832	3.1470866	16	1	6 days	0.66	E Williams	2000 EC ₃₉
2000 ED ₃₉	15.6	0.15	20000226	83.70003	86.92974	355.75618	1.30147	0.0852207	2.2377086	15	1	3 days	0.54	E Williams	2000 ED ₃₉
2000 EE ₃₉	15.9	0.15	20000226	359.27916	166.53684	8.52062	1.51863	0.1814268	2.5228122	22	1	6 days	0.53	E Williams	2000 EE ₃₉
2000 EF ₃₉	14.7	0.15	20000226	341.18800	160.00579	40.44628	1.73589	0.0868275	3.0743700	16	1	6 days	0.50	E Williams	2000 EF ₃₉
2000 EG ₃₉	11.9	0.15	20000226	218.62101	147.15055	179.68421	21.25130	0.0800840	3.1531256	14	1	3 days	0.20	E Williams	2000 EG ₃₉
2000 EH ₃₉	15.7	0.15	20000226	51.67719	310.06430	152.95287	1.25634	0.2093200	2.5962222	13	1	3 days	0.58	E Williams	2000 EH ₃₉
2000 EJ ₃₉	14.4	0.15	20000226	262.07603	134.60583	167.32302	5.61551	0.2434231	2.7344621	11	1	3 days	0.65	E Williams	2000 EJ ₃₉
2000 EK ₃₉	17.4	0.15	20000226	26.01659	104.77752	17.78852	2.44639	0.2997023	2.2306212	19	1	6 days	1.11	E Williams	2000 EK ₃₉
2000 EL ₃₉	14.8	0.15	20000226	270.68639	265.82405	9.34632	7.44905	0.0855917	2.4204509	22	1	9 days	0.59	Williams	2000 EL ₃₉
2000 EM ₃₉	14.4	0.15	20000226	34.18020	104.79405	24.21305	3.43075	0.1685040	2.8341703	19	1	6 days	0.57	E Williams	2000 EM ₃₉
2000 EN ₃₉	14.4	0.15	20000226	56.75453	72.49923	25.82177	3.47120	0.2108335	3.0703524	14	1	3 days	0.55	E Williams	2000 EN ₃₉
2000 EO ₃₉	15.5	0.15	20000226	0.26349	165.23599	11.75722	7.86383	0.1531254	3.1469642	21	1	16 days	0.60	Williams	2000 EO ₃₉
2000 EP ₃₉	14.2	0.15	20000226	286.49312	251.72360	21.89410	5.48356	0.1861391	3.0798859	22	1	9 days	0.52	Williams	2000 EP ₃₉
2000 EQ ₃₉	14.3	0.15	20000226	56.40273	324.98280	147.11736	2.37591	0.0966544	2.9197777	14	1	3 days	0.41	E Williams	2000 EQ ₃₉
2000 ER ₃₉	16.1	0.15	20000226	337.03730	163.27313	45.82109	1.65307	0.2031272	2.5632286	20	1	9 days	0.54	Williams	2000 ER ₃₉
2000 ES ₃₉	14.5	0.15	20000226	227.43855	191.05117	125.81898	2.32178	0.0596626	2.9819775	15	1	6 days	0.49	E Williams	2000 ES ₃₉
2000 ET ₃₉	17.3	0.15	20000226	17.00739	120.09084	25.05604	3.05435	0.2293823	2.3626222	18	1	6 days	0.82	E Williams	2000 ET ₃₉
2000 EU ₃₉	15.2	0.15	20000226	75.44389	27.52833	48.73823	2.82829	0.2344551	2.7853078	18	1	6 days	0.77	E Williams	2000 EU ₃₉
2000 EX ₃₉	14.0	0.15	20000226	60.40692	97.27475	12.57285	8.38955	0.0657468	2.4887915	18	1	6 days	0.41	E Williams	2000 EX ₃₉
2000 EY ₃₉	15.4	0.15	20000226	295.80141	212.72464	46.83788	1.97719	0.1668341	2.4540987	13	1	3 days	0.37	E Williams	2000 EY ₃₉
2000 EZ ₃₉	14.3	0.15	20000226	6.78385	125.39212	40.60120	2.29806	0.1733881	2.6543045	19	1	6 days	0.50	E Williams	2000 EZ ₃₉
2000 EA ₄₀	14.8	0.15	20000226	86.82298	3.24539	79.81931	2.01682	0.0833176	2.8395290	18	1	6 days	0.65	E Williams	2000 EA ₄₀
2000 EB ₄₀	16.2	0.15	20000226	318.14395	205.43629	22.83879	3.48933	0.1187161	2.4537532	19	1	6 days	0.58	E Williams	2000 EB ₄₀
2000 EC ₄₀	14.7	0.15	20000226	23.68686	336.42925	175.15203	9.54673	0.0821990	3.0042077	18	1	6 days	0.41	E Williams	2000 EC ₄₀
2000 ED ₄₀	14.0	0.15	20000226	63.51053	63.19991	24.02361	4.94496	0.2579546	3.1339523	14	1	3 days	0.72	E Williams	2000 ED ₄₀
2000 EE ₄₀	13.1	0.15	20000226	81.49493	90.50537	353.87747	5.70203	0.1283940	3.1833478	14	1	3 days	0.57	E Williams	2000 EE ₄₀
2000 EF ₄₀	15.2	0.15	20000226	41.48016	121.40049	344.52681	2.64792	0.2965382	2.7625898	13	1	3 days	0.45	E Williams	2000 EF ₄₀
2000 EJ ₄₀	13.3	0.15	20000226	299.00989	259.21768	15.05591	2.65982	0.2874578	3.2552178	24	1	6 days	0.45	E Williams	2000 EJ ₄₀
2000 EK ₄₀	16.8	0.15	20000226	300.33150	76.67675	163.82785	2.58224	0.0503768	2.1140560	23	1	6 days	0.64	E Williams	2000 EK ₄₀
2000 EL ₄₀	14.4	0.15	20000226	66.54302	97.06053	359.65969	8.79027	0.1337178	2.5226560	15	1	3 days	0.41	E Williams	2000 EL ₄₀
2000 EM ₄₀	12.5	0.15	20000226	288.96088	273.15449	0.38967	4.92700	0.1864362	3.1932934	14	1	3 days	0.33	E Williams	2000 EM ₄₀
2000 EN ₄₀	13.7	0.15	20000226	299.31511	222.76518	31.23532	2.40334	0.1203975	3.0572244	33	1	6 days	0.55	E Williams	2000 EN ₄₀
2000 EQ ₄₀	13.1	0.15	20000226	240.19452	134.13737	168.40028	10.04190	0.0250940	2.9712390	14	1	4 days	0.47	E Williams	2000 EQ ₄₀
2000 ER ₄₀	13.2	0.15	20000226	266.29377	213.65915	71.28659	2.37301	0.0879965	3.1533426	20	1	3 days	0.44	E Williams	2000 ER ₄₀
2000 ES ₄₀	15.1	0.15	20000226	28.26320	115.36011	15.40767	7.63529	0.2483403	2.8650554	20	1	3 days	0.50	E Williams	2000 ES ₄₀
2000 ET ₄₀	14.2	0.15	20000226	62.80262	16.13315	79.42081	2.25614	0.1933083	2.6200971	13	1	3 days	0.43	E Williams	2000 ET ₄₀
2000 EU ₄₀	14.7	0.15	20000226	16.38982	148.28010	5.05071	0.60667	0.2220252	3.1185788	13	1	3 days	0.58	E Williams	2000 EU ₄₀
2000 EV ₄₀	14.6	0.15	20000226	239.58953	175.21287	134.91508	2.09821	0.0733884	3.1042458	11	1	6 days	0.42	E Williams	2000 EV ₄₀
2000 EW ₄₀	15.2	0.15	20000226	356.10633	8.91986	176.07625	12.09543	0.0694473	2.8082946	17	1	10 days	0.57	Williams	2000 EW ₄₀
2000 EX ₄₀	14.6	0.15	20000226	58.81791	321.67189	147.40616	2.34139	0.1300289	2.9909397	20	1	6 days	0.56	E Williams	2000 EX ₄₀
2000 EY ₄₀	14.9	0.15	20000226	29.21860	323.47570	172.45234	1.41494	0.2182447	3.1618006	14	1	3 days	0.73	E Williams	2000 EY ₄₀
2000 EZ ₄₀	17.3	0.15	20000226	22.34905	119.73518	25.23134	1.39494	0.1890749	2.5103701	17	1	10 days	0.54	Williams	2000 EZ ₄₀
2000 EA ₄₁	15.2	0.15	20000226	342.05684	196.37899	5.20020	5.14606	0.1720050	2.2804695	14	1	3 days	0.30	E Williams	2000 EA ₄₁

2000 EB ₄₁	15.0	0.15	20000226	275.92310	266.43283	25.10318	4.57146	0.2302778	2.5790580	26	1	13 days	0.54	Williams	2000 EB ₄₁
2000 EC ₄₁	13.1	0.15	20000226	265.94179	280.27904	13.19715	13.00648	0.1374530	3.1041100	14	1	3 days	0.57	E Williams	2000 EC ₄₁
2000 ED ₄₁	14.5	0.15	20000226	24.09654	353.91772	150.22710	3.11924	0.2186445	3.2162619	12	1	3 days	0.35	E Williams	2000 ED ₄₁
2000 EF ₄₁	14.9	0.15	20000226	32.40567	76.34861	46.17282	2.21262	0.2941674	2.9320205	12	1	3 days	0.40	E Williams	2000 EF ₄₁
2000 EH ₄₁	14.2	0.15	20000226	244.88645	157.78237	159.33688	3.29089	0.2124089	2.3553116	14	1	3 days	0.41	E Williams	2000 EH ₄₁
2000 EJ ₄₁	15.2	0.15	20000226	9.40432	159.81220	9.39402	12.73621	0.0901815	2.5638750	18	1	10 days	0.31	Williams	2000 EJ ₄₁
2000 EM ₄₁	14.9	0.15	20000226	347.96407	49.68321	143.38189	1.72517	0.0126388	2.3006560	13	1	3 days	0.51	E Williams	2000 EM ₄₁
2000 EN ₄₁	14.9	0.15	20000226	49.47002	297.99539	172.60960	5.15916	0.2093668	2.6362942	12	1	3 days	0.74	E Williams	2000 EN ₄₁
2000 EO ₄₁	14.5	0.15	20000226	20.93633	131.73088	22.34502	4.58084	0.1243628	2.6270370	14	1	3 days	0.48	E Williams	2000 EO ₄₁
2000 EU ₄₁	15.2	0.15	20000226	66.03212	88.50573	10.36978	2.79732	0.0880774	2.5447507	14	1	3 days	0.46	E Williams	2000 EU ₄₁
2000 EV ₄₁	15.0	0.15	20000226	304.59179	102.20315	152.17011	1.71302	0.2104866	3.1926607	22	1	6 days	0.45	E Williams	2000 EV ₄₁
2000 EW ₄₁	15.1	0.15	20000226	223.16880	152.67549	165.70611	4.03744	0.0889436	2.3373206	18	1	6 days	0.60	E Williams	2000 EW ₄₁
2000 EX ₄₁	15.3	0.15	20000226	293.89621	243.45883	28.58948	2.13359	0.2626309	2.5668967	13	1	3 days	0.51	E Williams	2000 EX ₄₁
2000 EZ ₄₁	13.6	0.15	20000226	163.60006	234.48855	138.82204	0.30912	0.0872205	3.1971304	13	1	3 days	0.46	E Williams	2000 EZ ₄₁
2000 EA ₄₂	15.1	0.15	20000226	244.71431	205.25018	93.33667	0.14591	0.0545925	2.7365212	18	1	6 days	0.53	E Williams	2000 EA ₄₂
2000 EC ₄₂	14.3	0.15	20000226	81.08982	187.90566	247.77718	1.59181	0.1684344	2.4809952	14	1	3 days	0.31	E Williams	2000 EC ₄₂
2000 ED ₄₂	13.0	0.15	20000226	273.55465	311.37694	344.48698	5.69114	0.2708618	3.2182751	14	1	3 days	0.27	E Williams	2000 ED ₄₂
2000 EE ₄₂	16.2	0.15	20000226	40.75256	127.11446	348.62252	1.41816	0.1907164	2.3508098	14	1	3 days	0.60	E Williams	2000 EE ₄₂
2000 EF ₄₂	14.9	0.15	20000226	32.71485	306.44872	180.87067	14.61281	0.2175123	3.1717053	13	1	3 days	0.53	E Williams	2000 EF ₄₂
2000 EG ₄₂	15.1	0.15	20000226	50.86359	289.84431	178.83003	12.25515	0.1652136	2.6144260	13	1	3 days	0.45	E Williams	2000 EG ₄₂
2000 EH ₄₂	14.4	0.15	20000226	158.56500	14.73087	359.29348	9.81703	0.1554551	2.3704148	19	1	4 days	0.54	E Williams	2000 EH ₄₂
2000 EJ ₄₂	13.9	0.15	20000226	160.04611	25.16832	350.41239	6.57170	0.0729454	2.7273630	14	1	3 days	0.45	E Williams	2000 EJ ₄₂
2000 EM ₄₂	16.3	0.15	20000226	20.85874	134.44607	13.29592	3.67726	0.1337936	2.4198979	17	1	6 days	0.45	E Williams	2000 EM ₄₂
2000 EN ₄₂	14.9	0.15	20000226	41.20650	318.54226	165.68373	4.59627	0.1358961	2.8260353	18	1	6 days	0.52	E Williams	2000 EN ₄₂
2000 EO ₄₂	16.2	0.15	20000226	350.41588	15.03664	173.57822	14.03901	0.0953023	2.8121386	15	1	6 days	0.63	E Williams	2000 EO ₄₂
2000 EP ₄₂	15.6	0.15	20000226	355.37221	26.65830	154.44584	3.82192	0.0880120	2.3880775	13	1	3 days	0.34	E Williams	2000 EP ₄₂
2000 EQ ₄₂	14.0	0.15	20000226	84.69239	72.20834	14.52294	8.91047	0.0760691	3.2222256	12	1	3 days	0.83	E Williams	2000 EQ ₄₂
2000 ER ₄₂	16.3	0.15	20000226	57.52621	91.09956	19.26653	4.52845	0.0888662	2.4439631	17	1	6 days	0.50	E Williams	2000 ER ₄₂
2000 ET ₄₂	17.3	0.15	20000226	11.63859	349.58047	169.30222	5.30783	0.1276496	2.2243785	18	1	6 days	1.15	E Williams	2000 ET ₄₂
2000 EU ₄₂	16.0	0.15	20000226	46.29236	90.25405	14.57959	3.31100	0.2471495	2.4797899	13	1	3 days	0.44	E Williams	2000 EU ₄₂
2000 EV ₄₂	14.2	0.15	20000226	295.22958	89.78938	177.27034	14.77925	0.1922310	3.2311305	12	1	3 days	0.69	E Williams	2000 EV ₄₂
2000 EW ₄₂	14.0	0.15	20000226	291.48032	310.73018	319.26890	0.89132	0.1889017	2.9971426	13	1	3 days	0.35	E Williams	2000 EW ₄₂
2000 EX ₄₂	17.2	0.15	20000226	10.42577	345.28593	175.64730	6.39557	0.1201543	2.2114781	20	1	6 days	0.72	E Williams	2000 EX ₄₂
2000 EY ₄₂	15.7	0.15	20000226	9.08617	161.90312	2.96097	1.83215	0.0883403	2.3136425	17	1	3 days	0.67	E Williams	2000 EY ₄₂
2000 EZ ₄₂	14.5	0.15	20000226	198.59533	342.18711	6.05315	13.90361	0.1955600	2.7413942	17	1	6 days	0.50	E Williams	2000 EZ ₄₂
2000 EA ₄₃	15.2	0.15	20000226	294.50358	90.47180	182.33201	5.47770	0.2630270	2.4103289	14	1	3 days	0.38	E Williams	2000 EA ₄₃
2000 EB ₄₃	12.8	0.15	20000226	50.84878	113.31703	2.13871	4.48640	0.1656447	3.9375580	13	1	3 days	0.34	E Williams	2000 EB ₄₃
2000 ED ₄₃	15.5	0.15	20000226	277.35511	257.96500	30.40601	3.64012	0.2475113	2.2995157	16	1	3 days	0.62	E Williams	2000 ED ₄₃
2000 EE ₄₃	14.2	0.15	20000226	22.05984	23.05558	120.48740	1.96177	0.2446390	3.2306799	12	1	3 days	0.27	E Williams	2000 EE ₄₃
2000 EF ₄₃	17.1	0.15	20000226	38.56759	313.87389	171.53081	1.16317	0.1567271	2.3956285	21	1	10 days	0.84	Williams	2000 EF ₄₃
2000 EH ₄₃	15.4	0.15	20000226	350.46406	18.25404	172.14157	2.16315	0.1257208	2.5901035	17	1	3 days	0.43	E Williams	2000 EH ₄₃
2000 EJ ₄₃	16.1	0.15	20000226	279.84847	95.82415	178.70412	6.25668	0.1405087	2.2515499	17	1	12 days	0.43	Williams	2000 EJ ₄₃
2000 EK ₄₃	14.3	0.15	20000226	325.13124	193.39929	32.26771	2.23253	0.1270467	3.1728409	24	1	5 days	0.51	E Williams	2000 EK ₄₃
2000 EL ₄₃	17.3	0.15	20000226	54.39902	309.36188	147.66435	2.41940	0.2504727	2.5025421	9	1	6 days	0.36	E Williams	2000 EL ₄₃
2000 EM ₄₃	13.9	0.15	20000226	282.16209	193.36029	97.48097	1.15862	0.2625948	3.0522891	16	1	3 days	0.46	E Williams	2000 EM ₄₃
2000 EN ₄₃	15.5	0.15	20000226	311.29189	59.83156	170.00922	5.99227	0.0331285	2.2291285	13	1	3 days	0.34	E Williams	2000 EN ₄₃
2000 EO ₄₃	15.2	0.15	20000226	43.09657	78.93954	28.89109	3.70816	0.2890705	2.9445520	12	1	3 days	0.58	E Williams	2000 EO ₄₃
2000 EP ₄₃	14.1	0.15	20000226	263.04010	122.63483	178.64017	7.43102	0.2143874	2.4632363	11	1	3 days	0.55	E Williams	2000 EP ₄₃
2000 ER ₄₃	16.4	0.15	20000226	16.79636	345.46836	167.61620	3.38448	0.1641642	2.2213312	13	1	3 days	0.70	E Williams	2000 ER ₄₃
2000 EU ₄₃	13.9	0.15	20000226	65.50911	293.98782	176.20260	7.11251	0.0814589	3.0194137	13	1	3 days	0.61	E Williams	2000 EU ₄₃
2000 EV ₄₃	15.6	0.15	20000226	20.61566	123.95869	18.95422	3.48798	0.2700903	2.7464755	13	1	3 days	0.60	E Williams	2000 EV ₄₃
2000 EZ ₄₃	15.8	0.15	20000226	333.54288	30.48815	178.02747	4.32489	0.1137809	2.5232547	12	1	3 days	0.77	E Williams	2000 EZ ₄₃
2000 EA ₄₄	15.8	0.15	20000226	237.32519	145.26588	179.36041	5.08934	0.2968129	2.3122196	17	1	6 days	0.77	E Williams	2000 EA ₄₄

2000 MAR. 20

M.P.C. 39641

2000 EB ₄₄	14.9	0.15	20000226	281.26820	225.65802	61.80878	2.26088	0.2628474	2.4915702	18	1	3 days	0.63	E Williams	2000 EB ₄₄
2000 EC ₄₄	15.4	0.15	20000226	262.58051	243.76259	35.98418	1.17654	0.0309672	2.1818163	11	1	3 days	0.44	E Williams	2000 EC ₄₄
2000 EG ₄₄	15.4	0.15	20000226	266.23136	81.11147	204.69155	3.98227	0.1339717	2.3781748	14	1	2 days	0.79	E Williams	2000 EG ₄₄
2000 EH ₄₄	14.0	0.15	20000226	83.33191	135.93640	320.56326	3.16768	0.0029015	3.2053454	11	1	2 days	0.90	E Williams	2000 EH ₄₄
2000 EJ ₄₄	15.4	0.15	20000226	57.21536	262.45533	204.42420	3.07067	0.1187348	2.4465309	13	1	2 days	0.45	E Williams	2000 EJ ₄₄
2000 EK ₄₄	13.7	0.15	20000226	29.61949	145.52338	354.94224	12.90333	0.1196566	2.8332330	14	1	2 days	0.45	E Williams	2000 EK ₄₄
2000 EL ₄₄	15.1	0.15	20000226	45.68049	121.62768	341.96624	4.78667	0.2690323	2.7024753	15	1	2 days	0.51	E Williams	2000 EL ₄₄
2000 EM ₄₄	14.3	0.15	20000226	275.12648	299.53164	350.02120	6.76608	0.2346219	2.5299487	15	1	2 days	0.39	E Williams	2000 EM ₄₄
2000 EP ₄₄	15.5	0.15	20000226	250.85934	98.74304	204.40225	3.76713	0.1631486	2.1581695	14	1	2 days	0.51	E Williams	2000 EP ₄₄
2000 EQ ₄₄	14.8	0.15	20000226	197.51749	151.96493	194.26179	8.10091	0.1223829	2.5113708	11	1	2 days	0.59	E Williams	2000 EQ ₄₄
2000 ER ₄₄	15.3	0.15	20000226	329.06170	226.70294	351.34547	7.46182	0.1728315	2.3658642	15	1	2 days	0.33	E Williams	2000 ER ₄₄
2000 ES ₄₄	16.2	0.15	20000226	314.32441	296.43012	305.84680	1.17667	0.2175504	2.3896662	10	1	2 days	0.57	E Williams	2000 ES ₄₄
2000 EV ₄₄	13.9	0.15	20000226	281.52403	55.52323	232.01948	1.51764	0.2655536	2.4805068	15	1	2 days	0.41	E Williams	2000 EV ₄₄
2000 EW ₄₄	14.0	0.15	20000226	90.03002	252.63336	190.83463	10.80424	0.0676543	3.1465254	13	1	2 days	0.61	E Williams	2000 EW ₄₄
2000 EY ₄₄	16.5	0.15	20000226	31.97570	137.26960	349.42222	5.17977	0.2120900	2.3128316	12	1	2 days	0.45	E Williams	2000 EY ₄₄
2000 EZ ₄₄	14.4	0.15	20000226	61.21041	108.73888	358.74806	11.07328	0.1053617	2.8158812	13	1	2 days	0.53	E Williams	2000 EZ ₄₄
2000 EA ₄₅	15.8	0.15	20000226	71.67370	248.16036	205.17799	3.75210	0.1104615	2.2655299	13	1	2 days	0.57	E Williams	2000 EA ₄₅
2000 EB ₄₅	15.4	0.15	20000226	37.46292	143.21747	345.64849	6.39217	0.1429288	2.5133496	14	1	2 days	0.37	E Williams	2000 EB ₄₅
2000 EC ₄₅	14.7	0.15	20000226	11.25602	166.89975	356.42898	13.80875	0.1390457	2.7336369	13	1	2 days	0.40	E Williams	2000 EC ₄₅
2000 EE ₄₅	13.6	0.15	20000226	85.44056	122.56269	317.53822	2.97481	0.1480922	3.1417600	15	1	2 days	0.51	E Williams	2000 EE ₄₅
2000 EF ₄₅	16.9	0.15	20000226	7.59327	177.92806	341.62712	3.65077	0.2589379	2.2999043	13	1	2 days	0.70	E Williams	2000 EF ₄₅
2000 EG ₄₅	13.8	0.15	20000226	329.69116	229.27337	350.99381	4.55598	0.1361625	3.0204898	20	1	2 days	0.44	E Williams	2000 EG ₄₅
2000 EH ₄₅	14.4	0.15	20000226	8.47738	285.09436	246.17195	1.30110	0.0689428	2.8885962	14	1	2 days	0.59	E Williams	2000 EH ₄₅
2000 EK ₄₅	14.2	0.15	20000226	48.32043	276.57107	187.18149	4.94175	0.2377552	2.3777863	15	1	2 days	0.37	E Williams	2000 EK ₄₅
2000 EL ₄₅	14.2	0.15	20000226	261.62761	95.96139	200.73888	2.81567	0.1731988	2.4456669	15	1	2 days	0.61	E Williams	2000 EL ₄₅
2000 EM ₄₅	15.0	0.15	20000226	296.10606	73.28734	190.33888	6.95474	0.1911056	2.4806870	15	1	2 days	0.47	E Williams	2000 EM ₄₅
2000 EP ₄₅	13.1	0.15	20000226	283.52218	93.64550	189.20537	9.34297	0.2124670	3.0825927	15	1	2 days	0.42	E Williams	2000 EP ₄₅
2000 EQ ₄₅	14.3	0.15	20000226	277.38510	101.84449	187.27739	5.99887	0.2304074	2.6114206	14	1	2 days	0.30	E Williams	2000 EQ ₄₅
2000 ER ₄₅	15.4	0.15	20000226	54.42932	214.10560	245.90005	0.35878	0.2256657	2.6084338	10	1	2 days	0.57	E Williams	2000 ER ₄₅
2000 ES ₄₅	15.4	0.15	20000226	322.12231	45.42384	182.67767	9.54717	0.1695823	2.3143846	13	1	2 days	0.27	E Williams	2000 ES ₄₅
2000 ET ₄₅	12.8	0.15	20000226	44.27790	128.09120	0.40388	1.82892	0.1006366	3.0399344	15	1	2 days	0.27	E Williams	2000 ET ₄₅
2000 EU ₄₅	13.1	0.15	20000226	256.22666	125.71095	185.41970	20.55100	0.2504203	2.6346846	14	1	2 days	0.31	E Williams	2000 EU ₄₅
2000 EV ₄₅	15.3	0.15	20000226	358.87861	183.84771	354.78793	2.18971	0.1828407	2.5349336	15	1	2 days	0.28	E Williams	2000 EV ₄₅
2000 EX ₄₅	14.5	0.15	20000226	62.50070	275.47108	195.84467	3.32572	0.0746100	2.8306921	14	1	2 days	0.63	E Williams	2000 EX ₄₅
2000 EY ₄₅	15.2	0.15	20000226	42.55428	182.50210	296.50989	0.91720	0.2012324	2.7574002	11	1	2 days	0.41	E Williams	2000 EY ₄₅
2000 EZ ₄₅	15.6	0.15	20000226	317.59497	24.51507	212.21769	1.86418	0.1760820	2.4301294	15	1	2 days	0.56	E Williams	2000 EZ ₄₅
2000 EA ₄₆	15.2	0.15	20000226	270.37786	290.99326	357.83144	6.90426	0.1640177	2.4132046	14	1	2 days	0.84	E Williams	2000 EA ₄₆
2000 EB ₄₆	16.2	0.15	20000226	50.43117	138.02254	335.75123	3.68497	0.1385421	2.1635268	12	1	2 days	0.94	E Williams	2000 EB ₄₆
2000 EC ₄₆	13.5	0.15	20000226	281.50960	95.25198	191.24888	16.64488	0.2253380	2.6805720	14	1	2 days	0.28	E Williams	2000 EC ₄₆
2000 ED ₄₆	13.2	0.15	20000226	255.66884	294.30552	356.95914	9.33207	0.0268655	3.0520448	14	1	2 days	0.32	E Williams	2000 ED ₄₆
2000 EE ₄₆	13.6	0.15	20000226	84.39659	221.24900	214.42454	3.85924	0.2030667	2.7209614	14	1	2 days	0.38	E Williams	2000 EE ₄₆
2000 EF ₄₆	13.2	0.15	20000226	97.65793	80.53105	355.08355	3.08149	0.1020729	3.1465731	15	1	2 days	0.63	E Williams	2000 EF ₄₆
2000 EG ₄₆	15.1	0.15	20000226	16.31841	159.70412	357.07902	5.95239	0.1620984	2.6215064	16	1	2 days	1.00	E Williams	2000 EG ₄₆
2000 EJ ₄₆	15.1	0.15	20000226	288.42895	71.50761	187.53582	6.40716	0.0735418	2.3477741	15	1	2 days	0.42	E Williams	2000 EJ ₄₆
2000 EK ₄₆	12.7	0.15	20000226	41.71124	142.77242	346.65407	1.96941	0.1534584	3.9369873	15	1	2 days	0.47	E Williams	2000 EK ₄₆
2000 EM ₄₆	14.0	0.15	20000226	64.57204	292.15401	178.31523	0.68079	0.0759645	3.1839437	12	1	2 days	0.72	E Williams	2000 EM ₄₆
2000 EN ₄₆	15.4	0.15	20000226	74.14276	99.89147	2.72779	5.79038	0.0233373	2.2539411	14	1	2 days	0.57	E Williams	2000 EN ₄₆
2000 EO ₄₆	14.3	0.15	20000226	259.08315	285.55612	6.61085	0.64699	0.0896201	2.5194735	14	1	2 days	0.32	E Williams	2000 EO ₄₆
2000 EP ₄₆	14.3	0.15	20000226	317.36268	196.87919	39.02025	0.52206	0.1270921	3.0284265	11	1	2 days	0.56	E Williams	2000 EP ₄₆
2000 EQ ₄₆	13.3	0.15	20000226	176.54558	183.91799	182.26677	5.27530	0.1371222	2.5883700	13	1	2 days	1.15	E Williams	2000 EQ ₄₆
2000 ER ₄₆	14.1	0.15	20000226	282.91067	111.77614	181.49545	2.28414	0.2821823	2.9631322	13	1	2 days	0.53	E Williams	2000 ER ₄₆
2000 ES ₄₆	13.9	0.15	20000226	203.40108	163.53229	182.89343	6.53104	0.1769699	2.3327321	14	1	2 days	0.52	E Williams	2000 ES ₄₆
2000 ET ₄₆	14.0	0.15	20000226	287.38540	290.58830	357.80051	7.25406	0.2897237	2.6047848	14	1	2 days	0.46	E Williams	2000 ET ₄₆

2000 EU ₄₆	15.1	0.15	20000226	331.08068	219.57429	357.18096	5.22327	0.1495047	2.3292416	13	1	2 days	0.48	E Williams	2000 EU ₄₆
2000 EV ₄₆	13.9	0.15	20000226	231.45902	70.40673	243.85088	1.01917	0.0162689	2.8788160	9	1	2 days	0.52	E Williams	2000 EV ₄₆
2000 EW ₄₆	15.1	0.15	20000226	263.02353	296.09381	3.49129	8.53784	0.1966201	2.2584409	12	1	2 days	0.60	E Williams	2000 EW ₄₆
2000 EY ₄₆	14.0	0.15	20000226	270.32124	76.64286	223.12968	1.32069	0.2246337	2.9031830	10	1	2 days	0.52	E Williams	2000 EY ₄₆
2000 EZ ₄₆	15.1	0.15	20000226	46.52929	246.08132	223.55753	2.14111	0.2534802	2.8405679	10	1	2 days	0.82	E Williams	2000 EZ ₄₆
2000 EA ₄₇	17.0	0.15	20000226	21.04112	296.94620	201.28330	2.48416	0.2642077	2.2138650	13	1	2 days	0.84	E Williams	2000 EA ₄₇
2000 EB ₄₇	13.4	0.15	20000226	154.20713	193.47796	191.89082	13.83825	0.1075303	2.6077892	14	1	2 days	0.24	E Williams	2000 EB ₄₇
2000 EC ₄₇	13.4	0.15	20000226	262.71316	291.11964	8.98912	6.21009	0.1563455	3.0681898	14	1	2 days	0.36	E Williams	2000 EC ₄₇
2000 ED ₄₇	12.3	0.15	20000226	99.68402	248.27835	186.64102	7.89370	0.1065523	3.1800804	14	1	2 days	0.29	E Williams	2000 ED ₄₇
2000 EF ₄₇	12.8	0.15	20000226	82.04229	266.73044	185.99222	18.00053	0.0944738	3.2340006	14	1	2 days	0.29	E Williams	2000 EF ₄₇
2000 EG ₄₇	13.7	0.15	20000226	93.11969	33.34041	49.15684	1.31742	0.0847180	3.0566863	13	1	2 days	0.42	E Williams	2000 EG ₄₇
2000 EH ₄₇	13.7	0.15	20000226	94.38287	254.84762	184.23306	9.49965	0.1066129	3.0145676	12	1	2 days	0.49	E Williams	2000 EH ₄₇
2000 EJ ₄₇	15.8	0.15	20000226	22.30469	138.67439	11.57159	4.08866	0.1214190	2.2481107	14	1	2 days	0.63	E Williams	2000 EJ ₄₇
2000 EK ₄₇	14.5	0.15	20000226	54.55699	81.91621	20.55551	3.31076	0.2400685	2.8162053	14	1	2 days	0.65	E Williams	2000 EK ₄₇
2000 ET ₄₇	14.0	0.15	20000226	225.62315	346.05718	352.68015	4.65949	0.2963184	2.3263119	14	1	2 days	0.67	E Williams	2000 ET ₄₇
2000 EW ₄₈	15.6	0.15	20000226	328.07244	232.60240	348.08051	6.65148	0.1819959	2.4852400	14	1	2 days	0.37	E Williams	2000 EW ₄₈
2000 EX ₄₈	16.7	0.15	20000226	22.40240	258.92273	234.71172	1.80926	0.2769318	2.4819595	12	1	2 days	0.60	E Williams	2000 EX ₄₈
2000 EZ ₄₈	15.4	0.15	20000226	183.03059	22.48400	335.20610	3.14796	0.0566681	2.1384990	12	1	2 days	0.53	E Williams	2000 EZ ₄₈
2000 EA ₄₉	13.8	0.15	20000226	271.11282	97.30065	207.02951	4.64730	0.2790666	2.7410205	12	1	2 days	0.31	E Williams	2000 EA ₄₉
2000 EB ₄₉	15.6	0.15	20000226	28.10692	203.84684	285.54065	1.16282	0.2920626	2.7217833	12	1	2 days	0.61	E Williams	2000 EB ₄₉
2000 EJ ₄₉	14.2	0.15	20000226	218.63035	142.96880	188.47715	16.51008	0.1760394	2.6205988	10	1	2 days	0.48	E Williams	2000 EJ ₄₉
2000 EL ₄₉	13.4	0.15	20000226	29.60534	107.05049	23.61906	17.58531	0.1250896	3.1723334	11	1	3 days	0.84	E Williams	2000 EL ₄₉
2000 EN ₄₉	13.7	0.15	20000226	153.51003	228.61627	143.40103	15.09393	0.2990127	2.9654901	15	1	3 days	0.57	E Williams	2000 EN ₄₉
2000 ER ₄₉	15.1	0.15	20000226	207.08602	276.05640	61.77414	8.13916	0.2868853	2.2973550	14	1	3 days	0.43	E Williams	2000 ER ₄₉
2000 EW ₄₉	14.4	0.15	20000226	314.07268	142.70142	79.57027	2.33264	0.1854747	2.9879338	18	1	7 days	0.70	Williams	2000 EW ₄₉
2000 EY ₄₉	15.4	0.15	20000226	19.46176	105.14926	41.43866	2.40554	0.1423450	2.6921738	27	1	9 days	0.45	Williams	2000 EY ₄₉
2000 EA ₅₀	16.2	0.15	20000226	23.94504	123.63407	9.80583	5.86916	0.2236177	2.5403320	16	1	9 days	1.22	Williams	2000 EA ₅₀
2000 EB ₅₀	14.7	0.15	20000226	325.02982	49.33939	182.54738	12.07093	0.1477513	2.6547392	9	1	7 days	0.43	Williams	2000 EB ₅₀
2000 EC ₅₀	14.7	0.15	20000226	320.66039	41.60913	189.88022	1.93598	0.0788265	2.5261935	9	1	4 days	1.09	E Williams	2000 EC ₅₀
2000 ED ₅₀	14.0	0.15	20000226	27.56703	149.19071	10.29749	9.19765	0.0500298	3.1007104	19	1	10 days	0.57	Williams	2000 ED ₅₀
2000 EE ₅₀	16.0	0.15	20000226	340.31597	162.08057	8.98877	12.17953	0.0962177	2.4761975	10	1	3 days	0.78	E Williams	2000 EE ₅₀
2000 EF ₅₀	15.2	0.15	20000226	276.40064	153.23337	120.40665	10.06365	0.2893918	2.9147385	9	1	3 days	0.55	E Williams	2000 EF ₅₀
2000 EH ₅₀	15.3	0.15	20000226	181.78498	307.09048	35.65313	21.33952	0.0941249	1.9311780	16	1	5 days	0.39	Williams	2000 EH ₅₀
2000 EL ₅₀	16.0	0.15	20000226	358.12837	208.43163	323.04269	7.91601	0.2409748	3.1466961	7	1	2 days	0.37	E Marsden	2000 EL ₅₀
2000 EN ₅₀	16.4	0.15	20000226	48.77675	99.07714	0.14232	12.28195	0.2403976	2.6492317	18	1	4 days	1.11	E Williams	2000 EN ₅₀
2000 EP ₅₀	16.4	0.15	20000226	187.38269	339.89879	7.15597	3.85182	0.0562372	2.2801795	12	1	3 days	0.60	E Marsden	2000 EP ₅₀
2000 EQ ₅₀	16.3	0.15	20000226	234.15845	308.49437	5.39007	5.23039	0.1690486	2.2487185	13	1	3 days	0.76	E Marsden	2000 EQ ₅₀
2000 ER ₅₀	15.6	0.15	20000226	110.38247	232.49435	178.20640	4.90221	0.1816083	2.3268279	11	1	3 days	0.32	E Williams	2000 ER ₅₀
2000 EV ₅₀	14.6	0.15	20000226	43.31163	229.58937	227.06751	3.14764	0.2249227	3.0629731	7	1	4 days	0.39	E Williams	2000 EV ₅₀
2000 EW ₅₀	13.4	0.15	20000226	189.38664	197.83911	146.47056	6.37178	0.1905543	2.5222429	18	1	5 days	0.40	E Williams	2000 EW ₅₀
2000 EC ₅₁	16.5	0.15	20000226	104.12249	67.82875	328.59030	3.91690	0.2311507	2.2766315	12	1	8 days	0.33	Williams	2000 EC ₅₁
2000 EG ₅₁	16.4	0.15	20000226	69.28051	225.60702	210.79236	1.11038	0.1649736	2.7371117	13	1	11 days	0.52	Williams	2000 EG ₅₁
2000 EH ₅₁	17.0	0.15	20000226	25.65831	306.95683	182.97661	2.97005	0.1477922	3.0239561	12	1	11 days	0.32	Williams	2000 EH ₅₁
2000 EJ ₅₁	17.5	0.15	20000226	11.27286	318.50367	190.16084	1.79926	0.1530381	2.9237934	9	1	11 days	0.12	Williams	2000 EJ ₅₁
2000 EK ₅₁	15.5	0.15	20000226	130.37057	52.12913	323.23800	2.32189	0.2810578	2.5496048	14	1	11 days	0.48	Williams	2000 EK ₅₁
2000 EL ₅₁	16.6	0.15	20000226	208.56202	127.80528	193.08989	1.59571	0.0847783	2.8891874	9	1	11 days	0.20	Williams	2000 EL ₅₁
2000 EM ₅₁	15.7	0.15	20000226	184.57380	160.63735	182.16108	2.75084	0.2670701	2.6162893	16	1	11 days	0.43	Williams	2000 EM ₅₁
2000 EO ₅₁	16.8	0.15	20000226	70.17043	264.65473	172.72790	6.42752	0.1547332	2.9879871	9	1	11 days	0.11	Williams	2000 EO ₅₁
2000 EX ₅₁	17.8	0.15	20000226	339.87973	242.79856	306.93962	0.87788	0.1194790	2.5220497	9	1	11 days	0.11	Williams	2000 EX ₅₁
2000 EY ₅₁	16.2	0.15	20000226	261.00977	313.79140	316.36736	0.95855	0.0474676	2.9487876	9	1	11 days	0.14	Williams	2000 EY ₅₁
2000 EZ ₅₁	14.9	0.15	20000226	133.25978	182.29166	192.54998	1.02537	0.2820645	2.9642507	14	1	11 days	0.55	Williams	2000 EZ ₅₁
2000 EB ₅₂	16.1	0.15	20000226	164.94165	34.58658	323.24715	1.01180	0.1498321	2.9499816	9	1	11 days	0.18	Williams	2000 EB ₅₂
2000 ED ₅₂	17.8	0.15	20000226	316.61018	239.36019	332.75201	1.27777	0.0496410	2.2703094	12	1	11 days	0.26	Williams	2000 ED ₅₂

2000 EF ₅₂	14.3	0.15	20000226	171.94183	7.80982	343.96216	1.65779	0.2924242	2.8497279	18	1	11 days	0.39	Williams	2000 EF ₅₂
2000 EH ₅₂	15.1	0.15	20000226	230.15216	127.84015	181.51329	1.01329	0.1638411	3.0117018	21	1	11 days	0.50	Williams	2000 EH ₅₂
2000 EJ ₅₂	17.9	0.15	20000226	8.52356	172.26243	343.56924	1.81337	0.0539611	2.5697902	9	1	11 days	0.19	Williams	2000 EJ ₅₂
2000 EP ₅₂	17.0	0.15	20000226	164.51016	185.69567	171.03916	1.92878	0.2470708	2.4592609	9	1	11 days	0.24	Williams	2000 EP ₅₂
2000 ER ₅₂	17.9	0.15	20000226	348.42375	8.98764	170.72142	1.38894	0.1160982	2.3972731	16	1	11 days	0.49	Williams	2000 ER ₅₂
2000 ET ₅₂	16.7	0.15	20000226	313.61438	44.96623	168.61587	5.49952	0.0083875	2.6712126	9	1	11 days	0.15	Williams	2000 ET ₅₂
2000 EU ₅₂	16.2	0.15	20000226	70.50861	90.80205	348.03297	6.55618	0.1414558	2.2535955	10	1	8 days	0.32	Williams	2000 EU ₅₂
2000 EX ₅₂	17.1	0.15	20000226	17.18815	162.83447	340.81688	1.14527	0.0778588	2.5444617	18	1	12 days	0.36	Williams	2000 EX ₅₂
2000 EZ ₅₂	16.1	0.15	20000226	171.45196	3.99672	347.14719	5.29217	0.1537629	2.3302755	15	1	12 days	0.17	Williams	2000 EZ ₅₂
2000 EL ₅₃	18.0	0.15	20000226	28.73809	297.53832	188.63728	1.84369	0.2460411	2.3407612	15	1	3 days	0.60	E Williams	2000 EL ₅₃
2000 EV ₅₃	18.7	0.15	20000226	296.29741	284.65000	324.83288	0.17155	0.2985271	2.0882063	12	1	3 days	0.31	E Williams	2000 EV ₅₃
2000 ES ₅₅	13.8	0.15	20000226	215.68679	166.41699	161.85441	3.03008	0.2866475	2.6939862	19	1	7 days	0.49	Williams	2000 ES ₅₅
2000 EB ₅₆	16.0	0.15	20000206	34.76644	113.70726	357.54118	5.48369	0.0757357	2.3308200	21	1	35 days	0.45	Williams	2000 EB ₅₆
2000 EG ₅₆	14.9	0.15	20000226	332.12698	36.58442	168.71539	5.35010	0.1547377	2.4835365	12	1	6 days	0.64	E Williams	2000 EG ₅₆
2000 EJ ₅₆	14.7	0.15	20000226	231.35644	319.02917	349.72621	8.19337	0.0987379	2.7219087	23	1	17 days	0.51	Williams	2000 EJ ₅₆
2000 EK ₅₆	14.6	0.15	20000226	278.04869	125.71250	151.45260	2.76308	0.2110497	2.4602965	16	1	6 days	0.49	E Williams	2000 EK ₅₆
2000 EL ₅₆	14.6	0.15	20000226	315.09158	52.19292	175.53179	13.25856	0.1242765	2.6948112	24	1	16 days	0.43	Williams	2000 EL ₅₆
2000 EM ₅₆	16.5	0.15	20000226	8.90165	330.92964	183.38539	0.72329	0.1858780	2.1084234	16	1	6 days	1.17	E Williams	2000 EM ₅₆
2000 EU ₅₆	15.7	0.15	20000226	23.18851	100.87063	28.83972	2.83426	0.2914609	2.7681986	14	1	6 days	0.66	E Williams	2000 EU ₅₆
2000 EY ₅₆	14.7	0.15	20000226	81.24505	105.83399	330.37085	3.69274	0.1000714	2.2970609	12	1	6 days	0.48	E Williams	2000 EY ₅₆
2000 EC ₅₇	17.1	0.15	20000226	20.20377	312.60036	183.72162	5.63766	0.2350264	2.5810769	12	1	4 days	0.49	E Williams	2000 EC ₅₇
2000 EF ₅₇	16.6	0.15	20000226	26.54354	276.89529	217.95974	0.92669	0.1331361	2.2806036	13	1	4 days	0.57	E Williams	2000 EF ₅₇
2000 EK ₅₇	14.0	0.15	20000226	32.81087	146.05397	349.71589	9.56475	0.0689000	3.0754138	13	1	6 days	0.46	E Williams	2000 EK ₅₇
2000 EL ₅₇	16.4	0.15	20000226	23.28646	258.38697	236.69688	0.42633	0.1891775	2.3613190	16	1	6 days	0.58	E Williams	2000 EL ₅₇
2000 EM ₅₇	17.7	0.15	20000226	11.01435	254.42327	256.28052	0.38567	0.1940705	2.0927431	12	1	6 days	0.64	E Williams	2000 EM ₅₇
2000 EN ₅₇	15.3	0.15	20000226	42.68727	297.32945	178.80086	11.72392	0.1448585	2.6864239	20	1	16 days	0.45	Williams	2000 EN ₅₇
2000 EO ₅₇	15.4	0.15	20000226	345.53538	271.22681	279.83675	0.65177	0.1204467	3.0802811	13	1	6 days	0.82	E Williams	2000 EO ₅₇
2000 EP ₅₇	15.6	0.15	20000226	297.96068	73.61658	177.90706	9.99985	0.1598934	2.6432123	14	1	6 days	0.67	E Williams	2000 EP ₅₇
2000 EQ ₅₇	15.5	0.15	20000226	332.61886	328.40129	238.86875	1.31542	0.1656362	2.2484753	15	1	7 days	0.29	E Williams	2000 EQ ₅₇
2000 ER ₅₇	13.8	0.15	20000226	112.04082	229.08089	186.42949	8.13235	0.0686560	3.2390488	21	1	17 days	0.83	Williams	2000 ER ₅₇
2000 ES ₅₇	15.9	0.15	20000226	76.37443	107.91304	329.10155	3.72254	0.1622744	2.3580437	19	1	7 days	0.51	E Williams	2000 ES ₅₇
2000 ET ₅₇	15.7	0.15	20000226	3.46128	323.93289	202.19516	4.28910	0.2270616	3.0003702	17	1	6 days	0.64	E Williams	2000 ET ₅₇
2000 EU ₅₇	16.4	0.15	20000226	355.28820	328.34654	209.81860	2.96936	0.1297429	2.5735443	13	1	6 days	0.53	E Williams	2000 EU ₅₇
2000 EV ₅₇	14.9	0.15	20000226	245.76903	124.63957	160.75866	3.47101	0.0186006	2.2575026	16	1	6 days	0.73	E Williams	2000 EV ₅₇
2000 EW ₅₇	16.1	0.15	20000226	280.81943	301.19320	325.03547	2.50736	0.1259299	2.3622785	13	1	6 days	0.43	E Williams	2000 EW ₅₇
2000 EX ₅₇	17.0	0.15	20000226	317.47503	41.69209	178.87690	24.35723	0.0707005	2.4042459	12	1	6 days	0.64	E Williams	2000 EX ₅₇
2000 EB ₅₈	15.1	0.15	20000226	21.21912	241.11249	259.37688	0.36418	0.2053092	3.1772627	14	1	6 days	0.41	E Williams	2000 EB ₅₈
2000 EC ₅₈	16.5	0.15	20000226	196.35538	162.40276	174.08469	23.98514	0.0740868	1.8437730	17	1	14 days	0.53	Williams	2000 EC ₅₈
2000 EF ₅₈	16.9	0.15	20000226	47.42910	151.90907	319.40613	2.57127	0.1260223	2.2333006	18	1	7 days	0.47	E Williams	2000 EF ₅₈
2000 EK ₅₈	15.2	0.15	20000226	37.11806	131.03034	349.25466	6.40444	0.1975735	3.2257835	12	1	6 days	0.36	E Williams	2000 EK ₅₈
2000 ER ₅₉	16.0	0.15	20000226	354.34628	33.04012	148.83385	2.33879	0.1742321	2.9881876	14	1	4 days	0.40	E Williams	2000 ER ₅₉
2000 EH ₆₀	17.3	0.15	20000226	31.27935	150.06745	349.94674	5.28074	0.0316158	2.2823619	13	1	4 days	0.53	E Williams	2000 EH ₆₀
2000 EL ₆₀	16.3	0.15	20000226	294.21334	83.42031	184.01640	2.71154	0.2409463	2.5253959	14	1	4 days	0.53	E Williams	2000 EL ₆₀
2000 EN ₆₀	15.0	0.15	20000226	271.95264	88.08796	192.81572	1.51757	0.1456202	2.9467147	14	1	4 days	0.42	E Williams	2000 EN ₆₀
2000 EP ₆₀	15.4	0.15	20000226	293.82078	78.36253	181.10218	5.57306	0.1518694	3.1288591	14	1	4 days	0.37	E Williams	2000 EP ₆₀
2000 ES ₆₀	17.2	0.15	20000226	9.79050	175.75062	343.92282	3.79123	0.0889917	2.1339557	13	1	4 days	0.43	E Williams	2000 ES ₆₀
2000 EW ₆₀	16.9	0.15	20000226	12.38150	163.59410	351.38825	7.00606	0.1762270	2.5961356	14	1	4 days	0.65	E Williams	2000 EW ₆₀
2000 EY ₆₀	14.2	0.15	20000226	58.01931	122.21339	356.17054	15.86430	0.0066084	3.1715242	14	1	4 days	0.77	E Williams	2000 EY ₆₀
2000 ER ₆₁	17.2	0.15	20000226	18.49474	151.69164	352.05461	3.62746	0.2181610	2.5448534	14	1	4 days	0.71	E Williams	2000 ER ₆₁
2000 EV ₆₁	15.9	0.15	20000226	38.63814	130.01902	346.67654	2.13827	0.2272847	2.8708469	14	1	4 days	0.49	E Williams	2000 EV ₆₁
2000 EZ ₆₁	18.1	0.15	20000226	32.40352	296.74511	177.84924	3.04604	0.2831513	2.2739356	14	1	4 days	0.66	E Williams	2000 EZ ₆₁
2000 EG ₆₂	15.2	0.15	20000226	263.51151	272.44204	19.28054	1.44991	0.1609228	3.0312103	14	1	4 days	0.67	E Williams	2000 EG ₆₂
2000 EL ₆₂	13.9	0.15	20000226	30.90061	327.56826	167.00215	7.66065	0.1477127	3.6895713	16	1	6 days	0.33	Williams	2000 EL ₆₂

2000 EO ₆₂	16.4	0.15	20000226	274.64390	275.90948	8.80901	8.89515	0.2287081	2.4430955	14	1	4 days	0.35	E Williams	2000 EO ₆₂
2000 EQ ₆₂	16.4	0.15	20000226	296.55335	133.66945	128.79012	2.42489	0.2266871	2.5229189	14	1	4 days	0.49	E Williams	2000 EQ ₆₂
2000 ER ₆₂	15.8	0.15	20000226	261.24085	279.64415	10.88679	6.87689	0.1633888	2.4095556	14	1	4 days	0.35	E Williams	2000 ER ₆₂
2000 ES ₆₂	14.3	0.15	20000226	247.55761	293.85902	13.46779	6.55169	0.2019732	2.7100077	14	1	4 days	0.34	E Williams	2000 ES ₆₂
2000 EJ ₆₃	16.6	0.15	20000226	329.53258	190.29067	22.42528	2.17487	0.1476684	2.2905352	14	1	4 days	0.29	E Williams	2000 EJ ₆₃
2000 EL ₆₃	14.3	0.15	20000226	294.14563	204.67809	50.83175	1.89512	0.1176462	3.1070500	14	1	4 days	0.38	E Williams	2000 EL ₆₃
2000 EP ₆₃	16.8	0.15	20000226	310.17392	72.09546	162.32018	5.09366	0.1262469	2.1278341	14	1	4 days	0.30	E Williams	2000 EP ₆₃
2000 ER ₆₃	15.5	0.15	20000226	58.79045	92.25416	11.73152	8.41710	0.1225246	2.7084858	14	1	4 days	0.39	E Williams	2000 ER ₆₃
2000 ES ₆₃	15.9	0.15	20000226	238.68335	150.22421	155.57817	4.02657	0.0838916	2.5795002	12	1	4 days	0.63	E Williams	2000 ES ₆₃
2000 ET ₆₃	15.5	0.15	20000226	226.64057	168.90320	157.08297	4.49123	0.2121033	2.5799304	13	1	4 days	0.54	E Williams	2000 ET ₆₃
2000 EV ₆₃	15.5	0.15	20000226	284.72401	88.90701	170.20048	12.08561	0.0657217	2.6224261	14	1	4 days	0.44	E Williams	2000 EV ₆₃
2000 EE ₆₄	16.4	0.15	20000226	57.14335	37.81154	70.07121	1.03027	0.0920731	2.2626950	12	1	7 days	0.59	Williams	2000 EE ₆₄
2000 EG ₆₄	16.8	0.15	20000226	314.14918	76.77794	170.21342	6.05275	0.2530419	2.7294020	14	1	4 days	0.43	E Williams	2000 EG ₆₄
2000 EU ₆₅	15.9	0.15	20000226	37.59643	331.15188	154.13985	1.14497	0.1878005	3.1463540	15	1	6 days	1.04	E Williams	2000 EU ₆₅
2000 EV ₆₅	14.9	0.15	20000226	274.36178	242.97725	40.66547	0.94668	0.1550075	3.1256451	10	1	4 days	0.53	E Williams	2000 EV ₆₅
2000 EE ₆₆	15.3	0.15	20000226	359.33693	167.79729	8.26951	14.05671	0.1157663	2.6562198	19	1	9 days	0.58	Williams	2000 EE ₆₆
2000 EL ₆₆	13.6	0.15	20000226	265.24743	178.57756	119.88350	2.96412	0.2197711	3.2373101	13	1	5 days	0.76	E Williams	2000 EL ₆₆
2000 EM ₆₆	15.9	0.15	20000226	325.66972	110.26743	107.40490	2.32303	0.1122837	2.4304176	17	1	9 days	0.44	Williams	2000 EM ₆₆
2000 EN ₆₆	14.6	0.15	20000226	112.76089	45.65273	11.31924	13.38917	0.0755522	2.5744952	17	1	4 days	0.58	E Williams	2000 EN ₆₆
2000 EO ₆₆	14.4	0.15	20000226	231.70806	248.61061	62.89692	3.15466	0.0516483	2.8821077	21	1	9 days	0.46	Williams	2000 EO ₆₆
2000 EQ ₆₆	16.9	0.15	20000226	8.92847	50.28369	111.81085	2.20707	0.1256880	2.2648631	14	1	4 days	0.62	E Williams	2000 EQ ₆₆
2000 ER ₆₆	14.4	0.15	20000226	164.17518	309.29890	63.49528	2.91850	0.0862991	2.8762262	17	1	16 days	0.57	Williams	2000 ER ₆₆
2000 ES ₆₆	16.4	0.15	20000226	347.54535	21.39317	172.29301	13.36165	0.1857150	2.6584147	19	1	6 days	0.96	E Williams	2000 ES ₆₆
2000 EY ₆₆	14.2	0.15	20000226	196.61667	170.62224	183.01977	24.75772	0.2701291	3.2827202	11	1	4 days	0.47	E Williams	2000 EY ₆₆
2000 EA ₆₇	14.7	0.15	20000226	286.11498	257.61030	23.95810	1.56361	0.2329071	3.0630857	14	1	2 days	0.52	E Williams	2000 EA ₆₇
2000 EB ₆₇	16.2	0.15	20000226	305.88982	75.79565	188.30057	6.00960	0.2993097	2.5035609	10	1	7 days	0.44	Williams	2000 EB ₆₇
2000 EY ₆₇	14.8	0.15	20000226	192.71275	350.63353	357.16570	8.35055	0.1612401	2.4169318	16	1	6 days	0.72	E Williams	2000 EY ₆₇
2000 ED ₆₈	15.5	0.15	20000226	22.42829	115.53804	1.17882	28.22273	0.4341151	3.5011995	13	1	3 days	0.51	Williams	2000 ED ₆₈
2000 ER ₆₈	15.6	0.15	20000226	26.44328	359.40574	130.91993	2.02174	0.2609525	3.0317574	12	1	4 days	0.45	E Williams	2000 ER ₆₈
2000 EU ₆₈	14.1	0.15	20000226	300.17650	218.70301	37.69103	1.86978	0.1388017	3.2465505	17	1	3 days	0.65	E Williams	2000 EU ₆₈
2000 EV ₆₈	15.9	0.15	20000226	260.35839	275.53383	11.05517	6.27579	0.0732964	2.3495660	20	1	12 days	0.37	Williams	2000 EV ₆₈
2000 EX ₆₈	16.6	0.15	20000226	300.01221	115.10161	147.28323	1.78580	0.2215364	2.4838204	18	1	4 days	0.42	E Williams	2000 EX ₆₈
2000 EA ₆₉	14.9	0.15	20000226	146.57172	318.65710	75.63741	1.92594	0.0439054	3.2672548	9	1	4 days	0.66	E Williams	2000 EA ₆₉
2000 ER ₇₀	17.1	0.15	20000226	6.19383	339.11581	110.60954	37.53277	0.3824411	2.1034702	16	1	7 days	0.54	Williams	2000 ER ₇₀
2000 ES ₇₀	17.1	0.15	20000226	34.93230	281.65013	177.88514	25.82993	0.3243273	1.8279327	93	1	12 days	0.88	Williams	2000 ES ₇₀
2000 ET ₇₀	18.3	0.15	20000226	122.63769	46.19965	331.25628	22.23803	0.1234277	0.9464568	111	1	9 days	0.50	Williams	2000 ET ₇₀
2000 EU ₇₀	18.6	0.15	20000226	19.80603	253.05807	166.43938	12.99717	0.7635703	2.2052779	46	1	6 days	1.23	Williams	2000 EU ₇₀
2000 EV ₇₀	20.4	0.15	20000226	36.92621	314.78988	108.67020	1.38544	0.5280680	1.2040992	83	1	10 days	0.71	Williams	2000 EV ₇₀
2000 EW ₇₀	21.0	0.15	20000226	245.51862	125.46853	178.41998	5.47996	0.3213785	0.9363776	92	1	10 days	0.54	M-v 8 Williams	2000 EW ₇₀
2000 EY ₇₀	14.9	0.15	20000226	192.88994	241.91951	106.68713	8.64173	0.1402715	2.3736977	15	1	7 days	0.43	E Williams	2000 EY ₇₀
2000 ES ₇₁	17.3	0.15	20000226	317.31361	242.35664	343.94486	4.40189	0.1657298	2.1601742	9	1	3 days	0.11	E Williams	2000 ES ₇₁
2000 EN ₇₃	15.9	0.15	20000226	157.20837	190.67272	172.46722	11.36959	0.1035193	3.0288242	9	1	4 days	0.18	E Williams	2000 EN ₇₃
2000 EO ₇₃	18.3	0.15	20000226	17.51170	319.56459	179.63940	4.08271	0.1530747	2.5702225	9	1	4 days	0.22	E Williams	2000 EO ₇₃
2000 EP ₇₃	18.1	0.15	20000226	273.65335	92.91235	173.24771	3.87916	0.1309522	2.2617783	9	1	4 days	0.17	E Williams	2000 EP ₇₃
2000 EQ ₇₃	18.2	0.15	20000226	293.49148	71.54781	172.28990	4.89779	0.1174652	2.1674547	9	1	4 days	0.18	E Williams	2000 EQ ₇₃
2000 ER ₇₃	18.9	0.15	20000226	4.08648	171.21277	346.82468	5.06315	0.1690115	2.3817830	13	1	4 days	0.98	E Williams	2000 ER ₇₃
2000 ES ₇₃	16.5	0.15	20000226	60.48329	283.55219	172.77179	3.90733	0.0796880	2.3751913	19	1	11 days	0.31	Williams	2000 ES ₇₃
2000 EZ ₇₃	15.5	0.15	20000226	271.41513	244.07486	20.28896	0.73174	0.0737527	2.7603805	14	1	4 days	0.57	E Williams	2000 EZ ₇₃
2000 EA ₇₄	20.7	0.15	20000226	342.94396	26.95076	163.99109	2.02924	0.2367541	2.0299490	13	1	4 days	0.94	E Williams	2000 EA ₇₄
2000 ES ₇₄	17.6	0.15	20000226	288.16125	254.16882	344.98694	3.38086	0.0271784	2.7714081	9	1	4 days	0.32	E Williams	2000 ES ₇₄
2000 EC ₇₅	15.2	0.15	20000226	48.13360	91.77950	348.70801	18.01274	0.2842345	2.1999794	17	1	7 days	0.93	Williams	2000 EC ₇₅
2000 EJ ₇₅	15.2	0.15	20000226	22.90677	305.89022	189.50830	23.75371	0.2377062	2.2771739	12	1	8 days	0.41	Williams	2000 EJ ₇₅
2000 EM ₇₅	16.7	0.15	20000226	19.18790	138.02019	357.91338	23.35660	0.2508554	2.2741584	26	1	5 days	0.55	E Williams	2000 EM ₇₅

2000 MAR. 20

M.P.C. 39645

2000 EX ₇₅	13.8	0.15	20000226	118.71809	22.14631	354.49370	13.88805	0.1985222	2.7268299	13	1	7 days	0.70	Williams	2000 EX ₇₅
2000 EZ ₇₅	13.3	0.15	20000226	232.60979	299.04885	353.57546	11.83052	0.1436878	2.5387666	13	1	7 days	0.24	Williams	2000 EZ ₇₅
2000 EA ₇₆	13.3	0.15	20000226	93.88292	41.56224	355.51033	11.38822	0.2034714	3.0178351	14	1	7 days	0.31	Williams	2000 EA ₇₆
2000 ED ₇₆	14.7	0.15	20000226	154.34156	249.15590	105.70449	5.27685	0.2007720	2.2209442	14	1	7 days	0.27	Williams	2000 ED ₇₆
2000 EE ₇₆	15.3	0.15	20000226	140.87033	264.15122	101.42982	7.13141	0.1878249	2.1503898	14	1	7 days	0.57	Williams	2000 EE ₇₆
2000 EO ₇₇	15.5	0.15	20000226	297.89628	143.44978	95.19549	2.37353	0.1975435	2.6798416	13	1	7 days	0.45	E Williams	2000 EO ₇₇
2000 EP ₇₇	14.5	0.15	20000226	149.88913	9.60699	346.29076	12.52984	0.1678155	2.9123659	13	1	7 days	0.53	E Williams	2000 EP ₇₇
2000 ER ₇₇	15.1	0.15	20000226	250.72193	159.33035	110.52496	3.90001	0.0476562	2.9205006	13	1	7 days	0.53	E Williams	2000 ER ₇₇
2000 ET ₇₇	16.4	0.15	20000226	304.90555	173.08289	68.69663	2.18100	0.2750175	2.4059312	13	1	7 days	0.48	E Williams	2000 ET ₇₇
2000 EW ₇₇	15.8	0.15	20000226	358.88803	43.31397	114.25554	2.55332	0.0734649	2.4139139	13	1	7 days	0.26	E Williams	2000 EW ₇₇
2000 EY ₇₇	15.7	0.15	20000226	321.30889	102.54225	120.12839	3.75149	0.2850008	3.0983155	14	1	6 days	0.81	E Williams	2000 EY ₇₇
2000 EZ ₇₇	14.5	0.15	20000226	22.21053	62.99897	65.14800	3.65030	0.1019123	2.9706648	13	1	7 days	0.55	E Williams	2000 EZ ₇₇
2000 EA ₇₈	15.6	0.15	20000226	80.47509	319.71526	89.26668	3.32463	0.2314613	2.3821165	14	1	7 days	0.52	E Williams	2000 EA ₇₈
2000 ED ₇₈	16.9	0.15	20000226	334.81066	63.91079	128.56596	5.47634	0.1764030	2.3980511	13	1	7 days	0.54	E Williams	2000 ED ₇₈
2000 EH ₇₈	15.4	0.15	20000226	9.05597	97.75204	45.54363	2.55276	0.2103571	3.2020363	14	1	7 days	0.22	Williams	2000 EH ₇₈
2000 EY ₇₈	16.3	0.15	20000226	55.54135	32.00102	52.23673	3.11411	0.1635810	2.3160770	14	1	7 days	0.40	Williams	2000 EY ₇₈
2000 EN ₇₈	15.6	0.15	20000206	0.01265	10.78268	141.28623	11.95616	0.1600221	3.0620555	11	1	35 days	0.31	Williams	2000 EN ₇₈
2000 EP ₇₈	14.4	0.15	20000226	62.96075	343.39500	100.82744	4.56095	0.0927955	2.6150673	14	1	7 days	0.21	Williams	2000 EP ₇₈
2000 EQ ₇₈	12.8	0.15	20000226	32.40064	340.41919	137.82513	10.26147	0.0990479	3.1574796	16	1	8 days	0.18	Williams	2000 EQ ₇₈
2000 EU ₇₈	14.6	0.15	20000226	358.78646	92.17379	66.73542	3.10699	0.0447919	2.9279905	14	1	7 days	0.27	Williams	2000 EU ₇₈
2000 EX ₇₈	13.6	0.15	20000226	110.92286	342.20086	39.62626	2.97081	0.2806176	2.9563351	14	1	7 days	0.50	Williams	2000 EX ₇₈
2000 EC ₇₉	15.7	0.15	20000226	81.06513	309.14293	123.16176	6.24722	0.0424019	2.5108638	14	1	7 days	0.36	Williams	2000 EC ₇₉
2000 EF ₇₉	15.2	0.15	20000226	175.51957	231.48852	110.67972	5.03740	0.1609655	2.2349422	13	1	7 days	0.65	Williams	2000 EF ₇₉
2000 EJ ₇₉	15.4	0.15	20000226	318.53090	195.57587	12.07413	6.40576	0.0939275	2.2466856	14	1	7 days	0.21	Williams	2000 EJ ₇₉
2000 EM ₇₉	15.3	0.15	20000226	313.72904	199.11116	12.96311	6.07279	0.0798713	2.4018717	13	1	7 days	0.36	Williams	2000 EM ₇₉
2000 EQ ₇₉	15.4	0.15	20000226	254.69356	198.79023	71.88743	3.10572	0.0587394	2.9568597	13	1	7 days	0.63	Williams	2000 EQ ₇₉
2000 ER ₇₉	14.3	0.15	20000226	281.38523	133.26219	124.91020	5.83456	0.1767152	3.2672159	12	1	7 days	0.49	Williams	2000 ER ₇₉
2000 ES ₇₉	15.3	0.15	20000226	305.65623	97.74399	132.37955	5.60585	0.1599197	2.3924624	14	1	7 days	0.33	Williams	2000 ES ₇₉
2000 EU ₇₉	14.6	0.15	20000226	233.23087	278.72050	14.97261	6.30545	0.0881058	2.7949612	12	1	7 days	0.47	Williams	2000 EU ₇₉
2000 EV ₇₉	13.2	0.15	20000226	348.98372	173.19914	358.85287	10.55743	0.0764902	3.0036162	14	1	7 days	0.25	Williams	2000 EV ₇₉
2000 EW ₇₉	13.8	0.15	20000226	324.98416	103.63173	103.85490	3.54263	0.1642267	3.1387598	14	1	7 days	0.28	Williams	2000 EW ₇₉
2000 EY ₇₉	14.4	0.15	20000226	24.64199	65.36309	62.99134	4.05993	0.1113311	3.2451458	14	1	7 days	0.36	Williams	2000 EY ₇₉
2000 EZ ₇₉	15.1	0.15	20000226	244.91187	192.54798	99.42486	4.76700	0.1837640	2.2569080	13	1	7 days	0.39	Williams	2000 EZ ₇₉
2000 EA ₈₀	13.7	0.15	20000226	122.04672	34.07953	0.02998	9.38833	0.0362607	3.0220889	13	1	7 days	0.27	Williams	2000 EA ₈₀
2000 EB ₈₀	14.8	0.15	20000226	344.28504	163.44969	18.84479	4.62614	0.1791294	3.2263192	14	1	7 days	0.32	Williams	2000 EB ₈₀
2000 EC ₈₀	14.5	0.15	20000226	86.62899	54.45375	350.63923	16.87954	0.2487443	2.6417632	14	1	7 days	0.62	Williams	2000 EC ₈₀
2000 EK ₈₀	13.7	0.15	20000226	70.36200	44.47070	23.45309	5.41715	0.1885532	3.2695231	14	1	7 days	0.26	Williams	2000 EK ₈₀
2000 ES ₈₁	15.8	0.15	20000226	281.86436	179.60429	63.96186	4.10945	0.0142220	2.6426510	11	1	10 days	0.37	Williams	2000 ES ₈₁
2000 EV ₈₁	15.5	0.15	20000226	205.69435	234.65166	92.90081	4.20122	0.2228370	2.2567994	13	1	10 days	0.41	Williams	2000 EV ₈₁
2000 EU ₈₃	16.2	0.15	20000226	290.80945	203.67425	44.32929	2.74639	0.1930192	2.3421116	12	1	7 days	0.43	E Williams	2000 EU ₈₃
2000 EV ₈₃	14.3	0.15	20000226	237.69238	215.36575	82.23268	3.43768	0.2202803	2.2652685	13	1	7 days	0.40	Williams	2000 EV ₈₃
2000 EX ₈₃	15.2	0.15	20000226	2.84512	18.16323	136.37341	7.15749	0.1822395	2.3801033	13	1	7 days	0.21	Williams	2000 EX ₈₃
2000 EY ₈₃	15.4	0.15	20000226	294.46210	105.18666	132.96047	4.94486	0.1160172	2.9270598	11	1	7 days	0.52	Williams	2000 EY ₈₃
2000 EL ₈₄	13.6	0.15	20000226	127.55692	244.52733	148.04737	10.59862	0.1021659	2.9876613	12	1	6 days	0.30	E Williams	2000 EL ₈₄
2000 EQ ₈₄	12.9	0.15	20000226	68.93475	245.15627	191.95160	10.80524	0.0691112	3.1704363	14	1	5 days	0.38	E Williams	2000 EQ ₈₄
2000 ER ₈₄	15.8	0.15	20000226	3.98368	291.03428	218.13521	6.30908	0.1657501	2.5372527	12	1	5 days	0.62	E Williams	2000 ER ₈₄
2000 EV ₈₄	14.1	0.15	20000226	185.65660	160.20834	173.96320	18.22588	0.1700140	2.6982338	10	1	5 days	0.38	E Williams	2000 EV ₈₄
2000 EW ₈₄	15.4	0.15	20000226	275.35617	298.84590	317.00417	7.57352	0.1054956	2.2804823	12	1	5 days	0.64	E Williams	2000 EW ₈₄
2000 EC ₈₅	16.4	0.15	20000206	338.23128	282.78547	256.31023	7.10861	0.1770520	2.3996228	24	1	36 days	0.59	Williams	2000 EC ₈₅
2000 ED ₈₅	14.5	0.15	20000226	309.71855	352.13816	214.44514	10.87649	0.0212141	2.9033759	16	1	13 days	0.49	Williams	2000 ED ₈₅
2000 EE ₈₅	15.0	0.15	20000206	31.07949	186.35232	286.45665	11.76837	0.1066231	2.6683647	25	1	36 days	0.43	Williams	2000 EE ₈₅
2000 EF ₈₅	13.6	0.15	20000226	346.11836	255.43287	277.18534	9.65202	0.0712133	3.0545717	26	1	13 days	0.36	Williams	2000 EF ₈₅
2000 EH ₈₅	13.7	0.15	20000226	37.34945	211.12204	252.17606	9.08978	0.1984203	3.2037229	13	1	6 days	0.47	E Williams	2000 EH ₈₅

2000 EL ₈₅	15.8	0.15	20000226	1.57395	269.83714	245.91562	6.33535	0.0395838	2.3457557	13	1	6 days	0.62	E	Williams	2000 EL ₈₅	
2000 EN ₈₅	13.2	0.15	20000226	223.79006	97.70822	201.54082	10.95378	0.0545827	2.9761202	14	1	6 days	0.57	E	Williams	2000 EN ₈₅	
2000 EX ₈₅	15.7	0.15	20000226	6.20260	21.86698	144.15179	4.36550	0.1584772	2.5641152	16	1	9 days	0.45		Williams	2000 EX ₈₅	
2000 EY ₈₅	14.4	0.15	20000226	157.38270	344.34897	35.49157	5.53458	0.0108640	2.7350419	12	1	6 days	0.54	E	Williams	2000 EY ₈₅	
2000 EZ ₈₅	15.4	0.15	20000226	289.21844	248.21560	21.25982	8.74242	0.2026048	2.3652680	13	1	6 days	0.70	E	Williams	2000 EZ ₈₅	
2000 EA ₈₆	15.1	0.15	20000226	323.69383	116.43657	106.99699	3.65718	0.1331583	2.5052912	11	1	4 days	0.27	E	Williams	2000 EA ₈₆	
2000 EE ₈₆	13.6	0.15	20000226	79.68891	287.01683	152.12690	9.78921	0.2050681	2.9159691	13	1	4 days	0.59	E	Williams	2000 EE ₈₆	
2000 EF ₈₆	14.7	0.15	20000226	316.56951	93.91607	141.67272	6.55303	0.1686217	2.3290693	13	1	5 days	0.42	E	Williams	2000 EF ₈₆	
2000 EW ₈₆	13.9	0.15	20000226	354.81064	209.29884	328.83604	9.37993	0.2004931	3.0563508	12	1	8 days	0.28		Williams	2000 EW ₈₆	
2000 EO ₈₇	16.7	0.15	20000226	25.77309	78.13846	56.13593	2.78227	0.1985924	2.3336112	12	1	6 days	0.58	E	Williams	2000 EO ₈₇	
2000 EQ ₈₇	14.1	0.15	20000226	38.32601	89.89351	27.93398	10.24982	0.2385465	2.9271189	11	1	4 days	0.28	E	Williams	2000 EQ ₈₇	
2000 ET ₈₇	15.8	0.15	20000226	36.23799	116.66729	12.88067	13.02245	0.1250412	2.6338939	15	1	16 days	0.47		Williams	2000 ET ₈₇	
2000 EW ₈₇	15.3	0.15	20000226	43.86446	307.55157	169.02241	12.82816	0.1984912	2.6486256	13	1	4 days	0.38	E	Williams	2000 EW ₈₇	
2000 EF ₈₈	14.4	0.15	20000226	40.85703	187.51205	274.95787	10.84138	0.1836199	3.0639607	13	1	5 days	0.75	E	Williams	2000 EF ₈₈	
2000 EL ₈₈	15.3	0.15	20000226	141.40542	79.17071	286.72211	17.54918	0.1069072	1.9597386	13	1	7 days	0.24	E	Williams	2000 EL ₈₈	
2000 EV ₈₈	15.1	0.15	20000226	269.26649	172.44032	95.88589	5.86335	0.1825743	2.3271065	14	1	3 days	0.39	E	Williams	2000 EV ₈₈	
2000 EK ₈₉	16.1	0.15	20000226	342.04949	150.58953	35.68838	2.12505	0.1623390	2.4526230	13	1	3 days	0.80	E	Williams	2000 EK ₈₉	
2000 ES ₈₉	13.7	0.15	20000226	234.92235	180.55008	122.68985	3.54465	0.1864972	2.4519326	15	1	6 days	0.37	E	Williams	2000 ES ₈₉	
2000 EY ₈₉	15.2	0.15	20000226	47.00925	98.27716	10.38186	6.13108	0.0721614	2.3875108	13	1	6 days	0.36	E	Williams	2000 EY ₈₉	
2000 EP ₉₀	15.3	0.15	20000226	315.07097	6.63677	225.68390	4.79888	0.1934564	2.3942958	15	1	8 days	0.48		Williams	2000 EP ₉₀	
2000 EW ₉₂	13.9	0.15	20000226	303.71234	41.31900	196.21333	14.55140	0.1114725	2.6398963	10	1	8 days	0.41		Williams	2000 EW ₉₂	
2000 EL ₉₄	13.0	0.15	20000226	262.36414	314.44848	336.08566	12.68696	0.1506651	2.5493690	11	1	7 days	0.37		Williams	2000 EL ₉₄	
2000 EV ₉₄	14.4	0.15	20000226	128.33827	126.96465	274.97805	5.71232	0.0865270	2.3538655	12	1	6 days	0.45	E	Williams	2000 EV ₉₄	
2000 EX ₉₄	12.8	0.15	20000226	300.58444	275.31537	335.75101	12.35532	0.1325781	2.6139170	13	1	6 days	0.23	E	Williams	2000 EX ₉₄	
2000 EA ₉₆	15.8	0.15	20000226	297.88897	205.03139	26.50542	0.84088	0.0156956	2.9521579	15	1	3 days	0.45	E	Williams	2000 EA ₉₆	
2000 EN ₉₆	14.5	0.15	20000226	281.63103	116.40871	160.49762	13.04913	0.1392540	3.2221716	16	1	2 days	0.46	E	Williams	2000 EN ₉₆	
2000 EP ₉₆	14.4	0.15	20000226	266.89505	213.82511	66.71070	5.98627	0.0758796	2.4097275	12	1	2 days	0.37	E	Williams	2000 EP ₉₆	
2000 EV ₉₇	12.0	0.15	20000226	154.47273	301.14961	63.21091	10.67321	0.1004236	3.5061841	17	1	10 days	0.53		Williams	2000 EV ₉₇	
2000 EC ₉₈	10.1	0.15	20000226	358.85720	349.17517	179.98053	2.15761	0.3741477	20.7709781	17	1	11 days	0.58	E	Marsden	2000 EC ₉₈	
2000 EA ₉₉	17.5	0.15	20000226	354.30662	2.82793	169.58838	5.57641	0.1015327	2.3782367	10	1	4 days	0.49	E	Williams	2000 EA ₉₉	
2000 EW ₉₉	15.8	0.15	20000226	311.01837	221.09243	9.93508	1.23928	0.1555494	3.0288874	10	1	3 days	0.53	E	Williams	2000 EW ₉₉	
2000 EN ₁₀₁	15.9	0.15	20000226	77.84923	100.20592	341.27877	1.05122	0.0457661	2.8915387	13	1	4 days	0.49	E	Williams	2000 EN ₁₀₁	
2000 EC ₁₀₄	21.3	0.15	20000226	0.01203	346.60133	173.02067	31.97186	0.3766011	1.8003850	34	1	5 days	0.96		Williams	2000 EC ₁₀₄	
2000 ED ₁₀₄	17.1	0.15	20000226	108.38679	218.24336	190.08866	40.75342	0.2688590	1.3697752	51	1	7 days	0.54		Williams	2000 ED ₁₀₄	
2000 EE ₁₀₄	20.6	0.15	20000226	241.44817	281.09911	26.25469	5.23775	0.2937471	1.0034827	58	1	7 days	0.50		Williams	2000 EE ₁₀₄	
2000 EF ₁₀₄	18.8	0.15	20000226	72.51886	346.67084	66.88644	10.62175	0.4116444	1.1462930	36	1	4 days	0.97		Williams	2000 EF ₁₀₄	
2000 EG ₁₀₄	16.9	0.15	20000226	344.23424	64.12971	162.08953	29.16598	0.4110116	2.7073762	37	1	4 days	0.64		Williams	2000 EG ₁₀₄	
2000 EH ₁₀₄	18.1	0.15	20000226	349.74080	140.93317	49.61722	5.49650	0.4756832	2.7364432	39	1	11 days	0.39		Williams	2000 EH ₁₀₄	
2000 EJ ₁₀₄	14.6	0.15	20000226	281.24244	95.84372	187.48533	7.48001	0.1726577	2.3435519	8	1	4 days	0.52	E	Williams	2000 EJ ₁₀₄	
2000 EQ ₁₀₄	13.8	0.15	20000226	75.52435	337.91753	111.83664	7.15511	0.1270445	2.4618411	12	1	4 days	0.43		Williams	2000 EQ ₁₀₄	
2000 ES ₁₀₆	19.4	0.15	20000226	355.83356	353.64420	175.96399	5.17158	0.3779272	2.1784003	12	1	2 days	0.61		Williams	2000 ES ₁₀₆	
2027 P-L	15.3	0.15	20000226	124.53138	110.26248	281.00486	1.50968	0.2086331	2.4324909	53	4	1960–2000	0.68	M-v	2	Williams	36119 2027 P-L
2038 P-L	14.7	0.15	20000226	46.83445	268.28461	226.23295	5.95857	0.0575079	2.2786044	46	3	1960–2000	0.71	M-v	2	Williams	38906 2038 P-L
2121 P-L	15.7	0.15	20000226	66.71184	64.03344	6.61472	14.53037	0.1834086	2.6181410	37	4	1960–2000	0.94	M-v	2	Williams	32785 2121 P-L
2154 P-L	14.5	0.15	20000226	81.70718	256.71110	202.79996	13.00690	0.1049726	2.7951230	17	4	1960–2000	0.53	M-v	2	Williams	35742 2154 P-L
2164 P-L	14.4	0.15	20000226	208.48571	50.28702	290.66550	2.18847	0.1851602	2.4125969	27	4	1960–2000	0.59	M-v	2	Williams	33588 2164 P-L
2541 P-L	14.9	0.15	20000226	189.67202	321.10805	29.80707	1.02690	0.2150361	2.4166174	28	6	1960–2000	0.57	M-v	2	Williams	33588 2541 P-L
2564 P-L	14.7	0.15	20000226	94.77340	10.23722	34.78749	2.66274	0.1005088	2.6095599	54	3	1960–2000	0.60	M-v	4	Williams	38906 2564 P-L
2565 P-L	14.8	0.15	20000226	179.52635	297.43142	23.71419	4.83084	0.0227947	2.4341319	90	3	1960–2000	0.64	M-v	3	Williams	38906 2565 P-L
2568 P-L	14.7	0.15	20000226	128.49654	27.28718	6.29974	3.36316	0.0992974	2.8000612	34	3	1960–2000	0.64	M-v	4	Williams	33534 2568 P-L
2589 P-L	13.5	0.15	20000226	350.71132	18.90386	145.38304	3.23240	0.1523288	2.6003145	126	3	1960–2000	0.53	M-v	2	Williams	38906 2589 P-L
2591 P-L	14.5	0.15	20000226	115.29991	231.88154	179.99733	4.88443	0.1251967	2.8004243	34	3	1960–2000	0.58	M-v	4	Williams	36120 2591 P-L
2602 P-L	14.6	0.15	20000226	51.19366	8.86608	62.30887	2.85568	0.1932814	3.0961928	36	3	1960–2000	0.87	M-v	3	Williams	38906 2602 P-L

2620 P-L	14.7	0.15	20000226	2.73170	162.46461	29.41263	1.64088	0.1154426	2.5790700	29	5	1960-2000	0.79	M-v	2	Williams	33588	2620 P-L
2626 P-L	14.0	0.15	20000226	325.21053	77.94642	154.03504	1.92716	0.0969181	3.0096674	39	6	1954-2000	0.68	M-v	1	Williams	36120	2626 P-L
2650 P-L	16.9	0.15	20000226	127.92017	221.82389	166.50159	1.76719	0.1906483	2.2875327	38	4	1960-2000	0.69	M-v	2	Williams	36578	2650 P-L
2654 P-L	15.0	0.15	20000226	66.72726	307.11608	140.05329	1.63226	0.1718856	3.0704651	44	4	1960-2000	0.57	M-v	1	Williams	36120	2654 P-L
2688 P-L	14.8	0.15	20000226	228.65594	196.46624	126.05490	1.63403	0.1021496	3.0145078	31	6	1960-2000	0.79	M-v	1	Williams	36578	2688 P-L
2731 P-L	14.1	0.15	20000226	77.23680	205.19514	183.96676	10.89160	0.1426960	3.0884387	40	3	1960-2000	0.63	M-v	3	Williams	38190	2731 P-L
2861 P-L	14.6	0.15	20000226	27.84411	298.39686	171.92702	0.52766	0.1475644	3.0823991	63	3	1960-2000	0.50	M-v	4	Williams	38906	2861 P-L
3005 P-L	12.7	0.15	20000226	273.92874	346.31688	280.08153	9.35303	0.0647023	3.0198979	30	4	1960-2000	0.76	M-v	2	Williams	33588	3005 P-L
4032 P-L	14.5	0.15	20000226	51.18906	125.12222	326.56586	4.94664	0.1275160	2.2946029	88	3	1960-2000	0.54	M-v	2	Williams	38906	4032 P-L
4100 P-L	14.3	0.15	20000226	328.75082	226.26335	352.47939	12.93108	0.1269248	2.5766722	31	4	1960-2000	0.71	M-v	3	Williams	38906	4100 P-L
4200 P-L	15.4	0.15	20000226	207.21734	128.90830	194.06645	4.90104	0.2129096	2.2730361	27	5	1953-2000	0.60	M-v	2	Williams	33784	4200 P-L
4201 P-L	14.3	0.15	20000226	30.94367	212.61868	273.21484	3.88753	0.0276589	2.7998609	25	3	1960-2000	0.69	M-v	3	Williams	38734	4201 P-L
4536 P-L	13.7	0.15	20000226	181.01748	138.99585	184.60587	2.39082	0.0866866	3.0456052	32	2	1960-2000	0.67	M-v	5	Williams	38735	4536 P-L
4592 P-L	14.1	0.15	20000226	249.49579	160.10243	160.01911	5.32334	0.1756681	2.7579000	32	5	1960-2000	0.67	M-v	2	Williams	34060	4592 P-L
4597 P-L	14.8	0.15	20000226	66.49947	252.93846	167.72368	3.72994	0.1998531	2.3005108	67	3	1960-2000	0.51	M-v	2	Williams	38906	4597 P-L
4602 P-L	13.9	0.15	20000226	88.79503	249.68512	150.02002	0.92586	0.1822570	3.0765060	110	3	1960-2000	0.55	M-v	3	Williams	38906	4602 P-L
4646 P-L	12.6	0.15	20000226	5.83172	289.00263	186.07953	10.83185	0.1207797	3.0850639	121	3	1960-2000	0.65	M-v	2	Williams	38906	4646 P-L
4658 P-L	14.1	0.15	20000226	202.62071	295.67528	32.69991	3.77186	0.1827044	2.7802249	23	3	1960-2000	0.74	M-v	5	Williams	34060	4658 P-L
4664 P-L	13.7	0.15	20000226	134.65289	343.59472	11.78090	9.46509	0.1740764	2.8106443	44	4	1960-2000	0.62	M-v	3	Williams	36121	4664 P-L
4800 P-L	15.9	0.15	20000226	250.06476	155.95951	155.69662	2.44941	0.2115694	2.4014843	19	3	1960-2000	0.55	M-v	4	Williams	36121	4800 P-L
4806 P-L	14.9	0.15	20000226	4.58349	338.82050	160.40989	2.63737	0.1102823	2.6071427	47	3	1960-2000	0.66	M-v	4	Williams	38906	4806 P-L
4810 P-L	14.4	0.15	20000226	7.28460	93.54543	5.61071	12.12054	0.1200063	3.1003142	35	3	1960-2000	0.68	M-v	3	Williams	38191	4810 P-L
4812 P-L	14.8	0.15	20000226	87.87385	349.90019	59.86377	0.85838	0.2124489	3.0767969	50	4	1960-2000	0.66	M-v	2	Williams	36121	4812 P-L
4882 P-L	14.0	0.15	20000226	295.61425	191.48453	20.56118	10.03219	0.0523131	2.5989602	64	4	1960-2000	0.71	M-v	2	Williams	38907	4882 P-L
6059 P-L	13.9	0.15	20000226	110.23797	200.70675	222.36557	3.61374	0.0515395	2.7895415	32	3	1960-2000	0.69	M-v	4	Williams	34060	6059 P-L
6070 P-L	14.3	0.15	20000226	109.56891	91.07384	328.65775	2.25431	0.0967185	2.7944463	28	3	1960-2000	0.49	M-v	4	Williams	36121	6070 P-L
6100 P-L	16.1	0.15	20000226	145.47316	178.59071	191.96612	7.05462	0.1279899	2.2835414	29	3	1960-2000	0.69	M-v	4	Williams	33383	6100 P-L
6110 P-L	16.3	0.15	20000226	116.26818	47.94812	349.66157	5.08689	0.1617663	2.2872173	35	3	1960-2000	0.62	M-v	4	Williams	36121	6110 P-L
6232 P-L	14.6	0.15	20000226	51.03758	229.84902	227.70462	4.80383	0.1676784	3.0702410	34	5	1960-2000	0.65	M-v	1	Williams	38907	6232 P-L
6245 P-L	14.0	0.15	20000226	285.77417	14.73630	193.49650	13.03179	0.0871699	2.6021691	61	4	1960-2000	0.84	M-v	2	Williams	38907	6245 P-L
6274 P-L	14.6	0.15	20000226	315.45741	33.61943	205.12203	4.18482	0.1831484	2.5677525	22	3	1960-2000	0.54	M-v	4	Williams	30775	6274 P-L
6309 P-L	15.1	0.15	20000226	267.69752	101.80187	192.45709	6.97422	0.1549636	2.5656100	33	5	1960-2000	0.82	M-v	1	Williams	36121	6309 P-L
6520 P-L	15.4	0.15	20000226	113.51697	239.44136	169.45892	4.87404	0.1341162	2.2846924	53	6	1953-2000	0.62	M-v	2	Williams	33055	6520 P-L
6577 P-L	13.6	0.15	20000226	194.34855	179.56061	126.16309	1.86503	0.1507306	2.7956873	56	4	1960-2000	0.67	M-v	2	Williams	38907	6577 P-L
6605 P-L	15.2	0.15	20000226	104.06660	258.50329	150.90983	3.68288	0.1878613	2.6047427	37	3	1960-2000	0.73	M-v	3	Williams	33589	6605 P-L
6608 P-L	15.7	0.15	20000226	84.81242	43.81642	12.94757	6.05283	0.3084212	2.6174413	67	5	1960-2000	0.85	M-v	1	Williams	33384	6608 P-L
6647 P-L	14.1	0.15	20000226	212.03398	305.85863	34.82803	3.02589	0.2249008	2.4083551	38	5	1960-2000	0.72	M-v	2	Williams	34060	6647 P-L
6722 P-L	15.7	0.15	20000226	123.15007	15.00314	17.04517	6.80276	0.0925317	2.2843678	45	3	1960-2000	0.63	M-v	3	Williams	38907	6722 P-L
6763 P-L	15.9	0.15	20000226	125.67644	199.96206	179.87604	6.95651	0.1891047	2.2886943	26	3	1960-2000	0.66	M-v	3	Williams	36121	6763 P-L
6793 P-L	15.3	0.15	20000226	271.56962	224.27378	45.04609	3.82265	0.1381638	2.2673510	27	3	1960-2000	0.62	M-v	3	Williams	38907	6793 P-L
6871 P-L	15.9	0.15	20000226	282.89688	114.53731	126.32852	2.01329	0.0976833	2.2750236	48	3	1960-2000	0.65	M-v	4	Williams	38907	6871 P-L
7072 P-L	14.7	0.15	20000226	53.99827	298.82761	196.92580	21.21792	0.0777739	1.9488811	70	5	1960-2000	0.74	M-v	2	Williams	33129	7072 P-L
7082 P-L	15.0	0.15	20000226	135.25776	198.62878	195.43419	22.12865	0.0968511	1.9529643	22	3	1960-2000	0.76	M-v	3	Williams	22087	7082 P-L
9097 P-L	14.2	0.15	20000226	353.40577	184.09108	359.42220	7.12254	0.1344739	2.5819166	46	3	1960-2000	0.53	M-v	3	Williams	38907	9097 P-L
9519 P-L	14.6	0.15	20000226	236.47670	290.09033	30.10735	4.68774	0.0714890	2.7664802	16	4	1960-2000	0.61	M-v	1	Williams	31023	9519 P-L
9594 P-L	13.3	0.15	20000226	45.15284	59.94407	51.25490	2.09998	0.0172131	3.3430640	41	3	1960-2000	0.64	M-v	3	Williams	38907	9594 P-L
1034 T-1	14.8	0.15	20000226	60.80561	261.21520	200.29749	4.20177	0.0603572	2.1835618	35	3	1971-2000	0.66	M-v	3	Williams	34617	1034 T-1
1043 T-1	14.7	0.15	20000226	0.10453	220.60642	222.86287	2.18086	0.1836485	2.3983851	92	4	1971-2000	0.57	M-v	2	Williams	38191	1043 T-1
1137 T-1	14.4	0.15	20000226	226.37598	45.04066	285.36065	3.14208	0.1710831	2.1778294	42	6	1971-2000	0.72	M-v	2	Williams	33589	1137 T-1
1180 T-1	15.0	0.15	20000226	49.33889	119.63961	313.74843	4.02486	0.0853471	2.2014761	66	2	1971-2000	0.56	M-v	4	Marsden	38736	1180 T-1
1238 T-1	14.2	0.15	20000226	211.41482	341.71342	340.09592	1.58565	0.0693101	2.8679367	52	5	1971-2000	0.73	M-v	1	Williams	36122	1238 T-1
2175 T-1	14.6	0.15	20000226	49.94366	303.10508	177.14558	5.79446	0.0888889	2.3581228	89	4	1971-2000	0.85	M-v	1	Williams	33589	2175 T-1
2198 T-1	13.9	0.15	20000226	46.53959	28.14421	83.68709	2.85808	0.1457756	3.2190415	40	4	1971-2000	0.75	M-v	1	Williams	33589	2198 T-1

2206 T-1	15.2	0.15	20000226	184.58912	226.15905	18.59682	4.75838	0.1148482	2.2359277	29	3	1971-1999	0.80	M-v	4	Williams	32290	2206 T-1
2214 T-1	14.4	0.15	20000226	176.16274	150.00430	178.69026	4.13170	0.0943932	2.3800803	60	3	1971-2000	0.77	M-v	4	Williams	38907	2214 T-1
2236 T-1	14.1	0.15	20000226	3.23236	70.31629	71.71358	2.29134	0.0589518	2.5970731	42	2	1971-2000	0.74	M-v	3	Williams	38737	2236 T-1
2287 T-1	14.0	0.15	20000226	201.24832	187.94765	163.20592	6.18212	0.1110179	2.3530380	26	3	1971-2000	0.87	M-v	4	Williams	36122	2287 T-1
3101 T-1	14.7	0.15	20000226	249.08248	355.75275	276.58110	1.79482	0.1453579	2.3773601	45	2	1971-2000	0.61	M-v	4	Williams	38738	3101 T-1
3273 T-1	14.7	0.15	20000226	247.29167	256.81652	14.37607	2.30552	0.1923328	2.3819486	47	3	1971-2000	0.70	M-v	2	Williams	38907	3273 T-1
4100 T-1	15.2	0.15	20000226	338.29950	32.65077	108.62110	3.41416	0.1330653	2.3864738	35	3	1971-2000	0.66	M-v	2	Williams	38739	4100 T-1
4105 T-1	13.4	0.15	20000226	292.39748	134.64908	147.72129	1.29590	0.1604061	3.2171822	28	6	1971-2000	0.74	M-v	1	Williams	36122	4105 T-1
4195 T-1	13.6	0.15	20000226	309.35585	134.55010	95.80429	3.18536	0.0184653	2.8600448	56	5	1971-2000	0.79	M-v	1	Williams	33589	4195 T-1
4264 T-1	14.3	0.15	20000226	287.90868	252.92327	29.59891	8.35432	0.1812998	2.8497653	25	4	1971-2000	0.91	M-v	2	Williams	34060	4264 T-1
4302 T-1	14.4	0.15	20000226	5.07155	126.52906	53.11218	5.41065	0.0783991	2.5745838	20	4	1971-2000	0.70	M-v	2	Williams	29668	4302 T-1
4406 T-1	14.2	0.15	20000226	302.07129	157.27580	18.76815	15.06309	0.0089375	2.6219004	61	4	1971-2000	0.79	M-v	2	Williams	38907	4406 T-1
4841 T-1	13.7	0.15	20000226	154.36252	295.15982	20.27311	13.27693	0.1785762	2.6424705	62	3	1971-2000	0.74	M-v	3	Williams	38907	4841 T-1
1004 T-2	15.0	0.15	20000226	127.76955	18.24103	356.98278	6.92215	0.0459414	2.5754560	50	4	1973-2000	0.92	M-v	3	Williams	38907	1004 T-2
1044 T-2	14.9	0.15	20000226	250.53560	320.65185	327.78529	4.06877	0.1759281	2.3061542	28	3	1973-2000	0.86	M-v	5	Williams	24578	1044 T-2
1139 T-2	14.1	0.15	20000226	286.66881	95.93856	184.10183	6.76441	0.1768094	2.8051194	47	4	1973-2000	0.91	M-v	2	Williams	27939	1139 T-2
1187 T-2	16.5	0.15	20000226	121.60222	31.78361	346.94721	3.36894	0.2464594	2.5823165	55	3	1973-2000	0.93	M-v	4	Williams	33384	1187 T-2
1259 T-2	13.2	0.15	20000226	17.20340	91.45789	31.98263	2.35942	0.0446603	2.8923677	111	3	1973-2000	0.73	M-v	2	Marsden	38907	1259 T-2
1282 T-2	13.4	0.15	20000226	172.53945	124.24691	251.51754	1.15291	0.0761131	2.8454600	60	4	1973-2000	0.84	M-v	1	Williams	36123	1282 T-2
1343 T-2	14.9	0.15	20000226	323.75079	185.35252	357.01263	3.00110	0.1009012	2.3378918	82	3	1973-2000	0.76	M-v	3	Williams	38908	1343 T-2
1494 T-2	15.0	0.15	20000226	275.22091	149.08986	74.21861	1.55581	0.0120635	2.5788758	55	4	1973-2000	0.82	M-v	2	Williams	38908	1494 T-2
2078 T-2	14.9	0.15	20000226	170.21446	177.76087	186.13537	4.51166	0.1662305	2.3212409	48	5	1973-2000	0.88	M-v	2	Williams	33589	2078 T-2
2127 T-2	14.8	0.15	20000226	256.82760	316.97835	325.26440	1.97909	0.0278160	2.5501894	20	3	1973-2000	0.89	M-v	5	Williams	22088	2127 T-2
2148 T-2	14.2	0.15	20000226	112.42250	193.83558	188.62431	11.81935	0.1917724	2.5880170	71	3	1973-2000	0.78	M-v	2	Williams	38908	2148 T-2
2216 T-2	13.5	0.15	20000226	273.52707	275.06914	31.42356	0.84475	0.2182874	3.1933168	40	5	1973-2000	0.77	M-v	1	Williams	34339	2216 T-2
2244 T-2	14.8	0.15	20000226	209.12466	147.93156	173.94516	0.97235	0.1221683	2.5519345	52	4	1973-2000	0.57	M-v	4	Williams	31023	2244 T-2
2266 T-2	14.7	0.15	20000226	216.09237	129.01532	173.90764	5.51730	0.0381522	2.3289118	80	3	1973-2000	0.82	M-v	4	Williams	38908	2266 T-2
3063 T-2	14.1	0.15	20000226	22.83179	79.46395	9.69685	14.80748	0.0784175	2.6045701	43	4	1973-2000	0.86	M-v	2	Williams	38908	3063 T-2
3071 T-2	13.7	0.15	20000226	258.23329	240.20404	47.43816	5.27267	0.0814722	2.5366206	29	3	1973-2000	0.83	M-v	4	Williams	36123	3071 T-2
3072 T-2	13.0	0.15	20000226	220.83613	240.10486	83.72194	3.19994	0.0690887	2.8385756	58	7	1973-2000	0.85	M-v	1	Williams	36123	3072 T-2
3092 T-2	14.2	0.15	20000226	61.01333	77.96635	7.85834	12.94751	0.0409222	2.5754356	48	3	1973-2000	0.77	M-v	2	Williams	38908	3092 T-2
3161 T-2	15.1	0.15	20000226	154.48982	269.43927	75.01557	3.43694	0.1915271	2.5729799	47	5	1973-2000	0.71	M-v	2	Marsden	36123	3161 T-2
3178 T-2	13.7	0.15	20000226	132.98972	345.16511	29.86158	3.17478	0.0677426	2.8813925	79	5	1971-2000	0.77	M-v	2	Williams	38908	3178 T-2
3222 T-2	15.6	0.15	20000226	175.01470	319.83837	30.91169	3.33901	0.1431901	2.3231513	57	5	1973-2000	0.73	M-v	2	Williams	36123	3222 T-2
3335 T-2	14.7	0.15	20000226	97.70972	340.06486	66.08104	3.59218	0.1665251	2.5827926	70	3	1973-2000	0.57	M-v	2	Williams	33785	3335 T-2
3356 T-2	14.6	0.15	20000226	17.67446	83.09119	13.61059	4.71451	0.3037122	2.6267944	68	3	1973-2000	0.61	M-v	2	Williams	38908	3356 T-2
4153 T-2	14.4	0.15	20000226	199.65644	267.09850	53.58536	2.80233	0.0637420	2.8655716	36	4	1949-2000	0.74	M-v	2	Williams	35673	4153 T-2
4231 T-2	14.4	0.15	20000226	142.55691	323.57125	30.03222	7.37797	0.1340306	2.3414091	40	4	1973-2000	0.75	M-v	2	Williams	38908	4231 T-2
4257 T-2	14.0	0.15	20000226	175.08226	246.06288	71.37708	3.12369	0.0627826	2.8926490	53	3	1973-2000	0.80	M-v	4	Williams	38908	4257 T-2
4258 T-2	14.9	0.15	20000226	284.01565	143.18912	122.25606	2.85986	0.0727181	2.5389726	21	3	1973-2000	0.80	M-v	4	Williams	27323	4258 T-2
4263 T-2	15.5	0.15	20000226	68.82297	323.68409	102.00472	3.24731	0.1991438	2.3552542	43	4	1973-2000	0.70	M-v	2	Williams	38908	4263 T-2
4278 T-2	14.5	0.15	20000226	51.66368	283.98242	172.05773	12.69710	0.1693838	2.5913139	57	3	1973-2000	0.68	M-v	2	Williams	38908	4278 T-2
5137 T-2	14.0	0.15	20000226	345.02667	351.14939	213.20938	14.20017	0.1009221	2.5412919	26	3	1973-2000	0.82	M-v	3	Williams	33384	5137 T-2
5167 T-2	11.2	0.15	20000226	27.17577	143.25710	311.45073	10.64294	0.0406700	5.1278541	67	3	1973-2000	0.66	M-v	3	Williams	38908	5167 T-2
5366 T-2	14.0	0.15	20000226	134.19330	337.06467	258.16084	7.58642	0.0497054	3.0274959	41	2	1973-1999	0.64	M-v	5	Williams	36581	5366 T-2
1032 T-3	13.5	0.15	20000226	324.07777	216.85518	323.33168	10.39436	0.0436472	2.9818928	74	3	1977-2000	0.82	M-v	3	Williams	38742	1032 T-3
1055 T-3	14.7	0.15	20000226	321.70183	259.76843	319.35375	10.53176	0.1640694	2.5580049	26	3	1977-2000	0.64	M-v	3	Williams	38908	1055 T-3
1061 T-3	13.8	0.15	20000226	81.78897	172.91831	247.33012	9.69229	0.0588621	2.9895082	38	3	1977-2000	0.86	M-v	3	Williams	38908	1061 T-3
1088 T-3	14.2	0.15	20000226	80.70049	69.03517	347.58833	9.26221	0.0640642	2.6062806	79	3	1977-2000	0.75	M-v	3	Williams	38908	1088 T-3
1107 T-3	12.9	0.15	20000226	257.73166	66.58257	241.49159	13.00555	0.1516969	2.8871587	49	5	1977-2000	0.85	M-v	1	Williams	38908	1107 T-3
1182 T-3	13.6	0.15	20000226	246.99102	301.46085	331.21775	8.57777	0.0225331	2.9603273	54	3	1977-2000	0.76	M-v	3	Williams	38908	1182 T-3
2110 T-3	14.2	0.15	20000226	312.83395	251.83515	355.08837	9.33458	0.1475471	2.5356459	25	3	1977-2000	0.92	M-v	5	Williams	30914	2110 T-3
2139 T-3	13.1	0.15	20000226	307.03693	256.44067	254.21481	3.57954	0.0587608	2.6430271	79	3	1977-2000	0.63	M-v	3	Williams	38908	2139 T-3

2151 T-3	14.0	0.15	20000226	325.75433	229.58202	357.87329	9.36996	0.0362009	2.2824744	29	4	1977–2000	0.83	M-v	2	Williams	33384	2151 T-3
2288 T-3	14.7	0.15	20000226	153.09995	7.42753	351.93036	5.07877	0.1974790	2.3064787	98	5	1977–2000	0.73	M-v	2	Williams	38908	2288 T-3
2466 T-3	13.1	0.15	20000226	151.04806	352.91707	4.00418	9.77312	0.0992727	2.9744167	60	3	1977–2000	0.67	M-v	3	Williams	38908	2466 T-3
3042 T-3	14.5	0.15	20000226	349.17923	125.78674	47.86574	7.23049	0.1356475	2.3100482	46	3	1977–2000	0.84	M-v	4	Williams	38908	3042 T-3
3101 T-3	14.6	0.15	20000226	192.95924	285.25012	39.65737	8.49591	0.0972735	2.3015286	84	4	1977–2000	0.77	M-v	3	Williams	38908	3101 T-3
3149 T-3	15.7	0.15	20000226	60.07760	284.74600	173.81520	1.92028	0.1578952	2.3195694	55	4	1977–2000	0.62	M-v	2	Williams	32787	3149 T-3
3152 T-3	13.2	0.15	20000226	244.35516	250.54065	50.98005	2.82794	0.1003502	2.9171234	42	4	1977–2000	0.77	M-v	3	Williams	30915	3152 T-3
3175 T-3	14.3	0.15	20000226	163.84605	346.14957	24.77312	2.20041	0.0611820	2.9446081	28	3	1977–2000	0.80	M-v	5	Williams	21127	3175 T-3
3178 T-3	14.7	0.15	20000226	111.05089	350.20992	61.14265	0.70101	0.1450496	2.9737610	41	5	1977–2000	0.75	M-v	2	Williams	33785	3178 T-3
3268 T-3	15.3	0.15	20000226	354.74793	320.29587	205.58451	5.88417	0.0430854	2.3078299	38	5	1977–2000	0.73	M-v	1	Williams	38908	3268 T-3
3320 T-3	14.7	0.15	20000226	148.53958	293.64118	77.84809	2.05539	0.1266407	2.5809289	43	3	1977–2000	0.82	M-v	4	Williams	38908	3320 T-3
3574 T-3	13.8	0.15	20000226	29.52011	231.19155	185.42175	10.34161	0.0727015	3.0645381	51	4	1977–2000	0.73	M-v	2	Williams	38193	3574 T-3
4032 T-3	14.6	0.15	20000226	123.86248	325.76961	54.94517	4.68656	0.1762304	2.3157401	73	5	1949–2000	0.75	M-v	2	Williams	38909	4032 T-3
4072 T-3	13.6	0.15	20000226	352.45028	293.77194	159.41469	5.86247	0.1294239	3.0833301	70	3	1977–2000	0.72	M-v	3	Williams	38909	4072 T-3
4203 T-3	13.8	0.15	20000226	316.88743	5.25158	185.61490	13.01533	0.1052857	2.5951735	71	5	1960–2000	0.75	M-v	2	Williams	38909	4203 T-3
4310 T-3	14.4	0.15	20000226	312.70618	167.16505	65.72357	5.67572	0.0958611	2.2857262	74	5	1977–2000	0.73	M-v	2	Williams	38909	4310 T-3
4672 T-3	14.5	0.15	20000226	26.27839	31.77956	77.40362	5.04520	0.1389751	2.6223069	56	3	1977–2000	0.64	M-v	2	Williams	38909	4672 T-3
5082 T-3	14.9	0.15	20000226	147.56855	247.27746	108.31266	5.57279	0.1485173	2.3127353	43	4	1977–2000	0.90	M-v	3	Williams	38909	5082 T-3
5168 T-3	13.4	0.15	20000226	301.20447	99.03921	110.34333	10.37228	0.0270005	2.9735720	60	3	1977–2000	0.72	M-v	2	Williams	38747	5168 T-3

1998 RE₆₁ = 1998 UZ₄₅ (M. E. Sansaturio)
 1998 YE₁₄ = 1998 YC₂₁ (A. Doppler, *MPC* 33786)
 1998 YH₃₀ = 1999 CQ₃ (M. E. Sansaturio)
 1999 NG₆₁ = 1999 RH₉₉ (M. E. Sansaturio)
 1999 RX₃ = 1999 RH₁₁₇ (S. Nakano)
 1999 RU₈ = 1999 RX₇₂ (M. E. Sansaturio)
 1999 RV₁₀ = 1999 RY₁₃₀ (S. Nakano)
 1999 RF₁₂ = 1999 RY₁₁₃ (S. Nakano)
 1999 UW₄ = 1999 NQ₂₈ (S. Nakano)
 1999 VP₅₄ = 1999 VW₁₇₃ (S. Nakano)
 1999 VK₇₉ = 1999 VC₇₃ (S. Nakano)
 1999 VW₁₀₇ = 1999 XA₅₀ (S. Nakano)
 1999 VP₁₀₉ = 1999 XQ₅₅ (S. Nakano)
 1999 VE₁₂₃ = 1999 VX₁₇₃ (S. Nakano)
 1999 VO₁₅₁ = 1999 XZ₂₂₈ (S. Nakano)
 1999 WU₁₃ = 1999 VA₉₉ (M. E. Sansaturio)
 1999 XE₄₆ = 1999 VS₁₅₁ (S. Nakano)
 1999 XG₄₆ = 1999 VL₁₀₆ (S. Nakano)
 1999 XE₁₆₇ = 2000 AR₁₀ (G. V. Williams, *MPC* 38909)
 1999 XQ₁₆₈ = 2000 AQ₁₀ (S. Nakano)
 2000 AT₄₅ = 2000 AB_{L0} (S. Nakano)
 2000 AK₅₈ = 2000 AA₁₅₁ = 2000 AX₂₄₅ (S. Nakano)
 2000 AB₂₁₈ = 2000 AN₂₂₉ (S. Nakano)
 2000 AY₂₂₁ = 2000 AD₂₃₆ (S. Nakano)
 2000 AP₂₃₅ = 2000 CC₅₅ (S. Nakano)
 2000 AA₂₃₉ = 2000 BY₂₄ (M. E. Sansaturio)
 2000 BL₂₀ = 2000 CV₁₀₁ (M. E. Sansaturio)
 2000 BO₂₀ = 2000 CV₁₀₅ (G. V. Williams)
 2000 BV₂₆ = 2000 BR₃₀ (M. E. Sansaturio)
 2000 CU₆₉ = 2000 BR₂₀ (G. V. Williams)

NEW NAMES OF MINOR PLANETS

(4088) Baggesen = 1986 GG

Discovered 1986 Apr. 3 by P. Jensen at Brorfelde.

Jens Baggesen (1764–1826) was a famous Danish poet and writer, born in Korsør.

(4452) Ullacharles = 1988 RN

Discovered 1988 Sept. 7 by P. Jensen at Brorfelde.

Ulla Augustesen (1914–1990) and Charles Augustesen (1909–1987) were the parents of Brorfelde observer Karl Augustesen.

(4453) Bornholm = 1988 VC

Discovered 1988 Nov. 3 by P. Jensen at Brorfelde.

The beautiful and famous Danish rocky island of Bornholm is situated in the southern part of the Baltic Sea.

(5106) Mortensen = 1987 DJ

Discovered 1987 Feb. 19 by P. Jensen at Brorfelde.

Inger Mortensen (b.1910) is an aunt of Brorfelde observer Karl Augustesen.

(5118) Elnapoul = 1988 RB

Discovered 1988 Sept. 7 by P. Jensen at Brorfelde.

Elna (1917–1992) and Poul Hyttel (b.1909) are the parents-in-law of Brorfelde observer Karl Augustesen.

(6041) Juterkilian = 1990 KL

Discovered 1990 May 21 by E. F. Helin at Palomar.

Klas Juter (b.1962) is a Swedish architect and international architectural photographer, and his wife, Danuta Kilian (b.1963), is a Polish designer and artist. Just as this minor planet is a celestial traveler, they are travelers between continents.

(6561) Gruppetta = 1991 TC₄

Discovered 1991 Oct. 10 by K. J. Lawrence at Palomar.

John M. Gruppetta (b.1957), a long-time friend of the discoverer, is a design engineer with an interest in astronomy.

(6584) Ludekpesek = 1984 FK

Discovered 1984 Mar. 31 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Ludek Pesek (1919–1999) was a Swiss astronomical artist and writer known for scientifically realistic illustrations published in *National Geographic* (ca. 1969–1973). He wrote several novels and illustrated books such as *Planets of the Solar System* (1963). The name was suggested by W. K. Hartmann.

(6975) Hiroaki = 1992 QM

Discovered 1992 Aug. 25 by S. Otomo at Kiyosato.

Hiroaki Hayashi (b. 1954) is a factory manager in the city of Yashio. Each year he teaches hundreds of children how to make telescopes.

(7061) Pieri = 1991 PE₁

Discovered 1991 Aug. 15 by E. F. Helin at Palomar.

David C. Pieri (b. 1949), a staff scientist in the Earth and Space Sciences Division at the Jet Propulsion Laboratory since 1979, has research interests in volcanology, fluvial geomorphology, and planetary geology.

(7137) Ageo = 1994 AQ₁

Discovered 1994 Jan. 4 by S. Otomo at Kiyosato.

Ageo is a city north of Tokyo in Saitama Prefecture. The name was suggested by M. Sekine.

(7528) Huskvarna = 1993 FS₃₉

Discovered 1993 Mar. 19 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Huskvarna (formerly Husqvarna) is a city located at the southernmost edge of lake Vättern in southern Sweden. The town is famous for the Husqvarna rifle factory founded in 1689, now turned into a factory to produce sewing machines.

(7544) Tipografiyanauka = 1976 UB₂

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

The oldest printing-house (*tipografiya* in Russian) of the Russian Academy of Sciences bears the name “Nauka” (science). It was founded in 1727 in St. Petersburg.

(7555) Venvolkov = 1981 SZ₆

Discovered 1981 Sept. 28 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Veniamin Vasil’evich Volkov (b. 1921), world-renowned ophthalmologist, made significant contributions to the treatment of cancer, trauma and burns to the eye. The American Biographical Institute proclaimed him ‘Man of Year 1998’ and made him a life member of the institute’s International Research Council.

(7595) Växjö = 1993 FN₂₆

Discovered 1993 Mar. 21 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Växjö is the provincial capital of Kronoberg in southern Sweden, a town with a charter since 1342. It is known for its twelfth-century cathedral, fourteenth-century castle and nowadays for the Museum of Emigrants.

(7704) Dellen = 1992 EB₇

Discovered 1992 Mar. 1 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Dellen, two connected lakes in the Swedish province of Hälsingland, are appreciated among fly-fishermen for their unique population of salmon trout. This

15-km-wide lake system was formed approximately 110 million years ago, as the result of a meteorite impact.

(7705) Humeln = 1993 FU₇

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Humeln is a Swedish lake located close to the city of Oskarshamn, where the Baltic Sea meets Kalmarund. The lake was formed by a meteorite impact during the Cambrian period.

(7706) Mien = 1993 FZ₃₆

Discovered 1993 Mar. 19 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Mien is a lake located in the province Småland in the southern part of Sweden. It is 9 km across and was formed by a meteorite impact about 120 million years ago.

(7770) Siljan = 1992 EQ₈

Discovered 1992 Mar. 2 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Lake Siljan, located in the beautiful Swedish province Dalarna, is the largest impact crater in the country, measuring 50 km across. It was formed some 360 million years ago. Unsuccessful attempts were made to drill for oil and gas there.

(7771) Tvären = 1992 EZ₉

Discovered 1992 Mar. 2 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Tvären is a kilometer-sized bay close to Studsvik in Sweden. The maximum depth is 85 meters, and it constitutes an Ordovician impact crater.

(7833) Nilstamm = 1993 FV₃₂

Discovered 1993 Mar. 19 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Nils Tamm (1876–1957) studied at Uppsala University in the late 19th century and later at the Royal Academy of Arts in Stockholm. At his private observatory he made observations of variable stars, and he also discovered several novae. His donation made the building of the Kvistaberg Observatory possible.

(7974) Vermeesch = 2218 T-2

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Theo Vermeesch (b. 1930), since 1968 the first director of the Volkssterrenwacht Simon Stevin in Hoesen, has played a key role in popularising astronomy and space research in the Netherlands, working with both professional institutions and the public. The name was suggested by T. Gehrels and P. Smolders.

(8072) Yojikondo = 1981 GO₁

Discovered 1981 Apr. 1 at the Agassiz Station of the Harvard College Observatory.

Japanese-born U.S. astrophysicist Yoji Kondo (b. 1933) headed the astrophysics laboratory during the Apollo mission, directed the IUE Observatory and serves as special advisor to the NASA administrator. Some time president of IAU Division V and Commissions 42 and 44, he has also published seven science fiction novels.

(8149) Ruff = 1985 JN₁

Discovered 1985 May 11 by C. Shoemaker and E. Shoemaker at Palomar.

Jan Ruff (b. 1949) is the very capable, warm-spirited and enthusiastic chief of the Office of Public Affairs for Goddard Space Center, NASA. Steve Ruff (b. 1949) is

an imaginative, creative and knowledgeable middle-school teacher with a wonderful dry sense of humor.

(8184) Luderic = 1992 WL

Discovered 1992 Nov. 16 by S. Ueda and H. Kaneda at Kushiro.

Luderic Maury (b. 1984) has been an amateur astronomer, eclipse chaser and the joy and pride of his parents ever since his birth in Nice. The number of the minor planet is the sum of 3780 and 4404, the numbers of the minor planets honoring his parents, Alain and Carine Maury.

(8273) Apatheia = 1989 WB₂

Discovered 1989 Nov. 29 by M. Akiyama and T. Furuta at Susono.

Apatheia is a philosophical word that means “an immovable soul” in Greek philosophy. The name was proposed by the first discoverer following a suggestion by children who come to the Hakone Youth Center.

(8326) Paulkling = 1981 JS₂

Discovered 1981 May 6 by C. Shoemaker and E. Shoemaker at Palomar.

Paul Kling, the Oberbürgermeister of Nördlingen in the Ries Crater of Germany, has successfully guided the prosperity and well-being of this ancient, walled Bavarian city as it has grown and developed and enters the twenty-first century.

(8377) Elmerreese = 1992 SD₁

Discovered 1992 Sept. 23 by K. Endate and K. Watanabe at Kitami.

Elmer J. Reese (b. 1919), American amateur astronomer, was an important contributing observer in the early years of the Association of Lunar and Planetary Observers, serving on its volunteer staff. His hypothesis of subsurface sources to explain the South Equatorial belt disturbances at the cloud deck on Jupiter is well known.

(8391) Kring = 1993 HH₃

Discovered 1993 Apr. 20 by Spacewatch at Kitt Peak.

David A. Kring (b. 1961) of the Lunar and Planetary Laboratory is a prolific geologist and meteoriticist who has studied the mineralogy of meteorites and the structure of terrestrial impact craters, particularly the Chicxulub crater, playing an important role in determining its origin and relationship to the K-T extinction event.

(8393) Tetsumasakamoto = 1993 TJ₁

Discovered 1993 Oct. 15 by K. Endate and K. Watanabe at Kitami.

Tetsuma Sakamoto (b. 1908), Japanese agricultural scientist and specialist in sericultural technology, has been an amateur astronomer since 1923. He has enthusiastically observed sunspots, meteors, zodiacal light, the gegenschein and artificial satellites.

(8406) Iwaokusano = 1995 HJ

Discovered 1995 Apr. 20 by K. Endate and K. Watanabe at Kitami.

Iwao Kusano (1908–1999) was an orthopedist who contributed greatly to practice and research. As an amateur astronomer, he played an important role in investigating the Yonouzu meteorite, building a monument at the impact site at his own expense. The 30-kilogram stone had fallen near his home on 1837 July 14.

(8417) Lancetaylor = 1996 VG₈

Discovered 1996 Nov. 7 by K. Endate and K. Watanabe at Kitami.

Lance Taylor (b. 1956) is a science educator who teaches at high school and college in Western Australia. He is a leading member of Chiro Observatory, established and jointly operated by Australian and Japanese amateur astronomers.

(8475) Vsevoivanov = 1985 PC₂

Discovered 1985 Aug. 13 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Vsevolod Vladimirovich Ivanov (b. 1934) is a professor at St. Petersburg University and a theoretical astrophysicist known for his works on the theory of radiation transfer. His monograph on theoretical astrophysics has been used as a textbook by two generations of students at Russian universities.

(8501) Wachholz = 1990 TK₈

Discovered 1990 Oct. 13 by L. D. Schmadel and F. Börngen at Tautenburg.

Burkhard Wachholz (1940–2000), a dear friend of the first discoverer, was long-standing senior chief mechanic and department head at the Institute of Physics, University of Heidelberg. His wealth of ideas and excellent craftsmanship, as well as his readiness to help, were indispensable for countless projects.

(8503) Masakatsu = 1990 WX₃

Discovered 1990 Nov. 21 by K. Endate and K. Watanabe at Kitami.

Masakatsu Fujimoto (b. 1948) played a leading role in constructing a laser interferometric gravitational wave detector, TAMA-300, which is the only interferometric-type detector in operation for gravitational waves emitted by a neutron-star binary or by supernovae in nearby galaxies.

(8526) Takeuchiyukou = 1992 SM₁₂

Discovered 1992 Sept. 23 by K. Endate and K. Watanabe at Kitami.

Yukou Takeuchi (b. 1932), Japanese amateur astronomer, designed a quartet camera system with a rotating shutter to measure the velocity of meteors, a system that he later improved to be automatic. In 1990 he began video observation with an image intensifier.

(8527) Katayama = 1992 SV₁₂

Discovered 1992 Sept. 28 by K. Endate and K. Watanabe at Kitami.

Using unparalleled techniques in electron microscopy, Japanese biophysicist Eisaku Katayama (b. 1949) revealed molecular shapes of various proteins in their functional states with a resolution that can only be superseded by x-ray study. He also contributed to new techniques in astronomical photography.

(8550) Hesiodos = 1994 PV₂₄

Discovered 1994 Aug. 12 by E. W. Elst at the European Southern Observatory.

Hesiodos (c. 700 B.C.), an early Greek poet, told the story of Pandora, who out of curiosity opened a jar, letting loose all evils on humanity. In the epic poem *Works and Days* Hesiod affirms his belief in justice and his feeling for the rhythm of life and nature.

(8609) Shuvalov = 1977 QH₃

Discovered 1977 Aug. 22 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Ivan Ivanovich Shuvalov (1727–1797), was a prominent Russian government figure who contributed to the development of Russian science and art and was a patron of scientists, writers and painters. He was a founder and first curator of Moscow University.

(8610) Goldhaber = 1977 UD

Discovered 1977 Oct. 22 at the Agassiz Station of the Harvard College Observatory.

Brothers Maurice (b. 1911) and Gerson (b. 1924) Goldhaber contributed to 20th-century physics with discoveries that include charmed mesons and photodisintegration of the deuteron. They are still active members of the SuperKamiokande Collaboration and Supernova Cosmology Project. Name suggested by C. Pennypacker.

(8632) Egleston = 1981 FR

Discovered 1981 Mar. 28 at the Agassiz Station of the Harvard College Observatory.

Margaret Ericksen Egleston (b. 1943) has since 1984 been a scientific programmer at the Harvard-Smithsonian Center for Astrophysics, where she helps John Wollbach in his research on solar activity and climate.

(8636) Malvina = 1985 UH₂

Discovered 1985 Oct. 17 at Caussols.

On the day this minor planet was discovered by the observing team in which Alain Maury participates, Malvina Maury (b. 1985) was born in Poway, near San Diego, while her father was working at Palomar.

(8680) Rone = 1992 EJ₉

Discovered 1992 Mar. 2 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

A small parish on Gotland, Rone is well known for the lyrics to the song *Rune from Rone*. Nearby Uggarde Rojr, a 3000-year-old burial mound from the bronze age with a diameter of 50 meters and a height of 7 meters, is one of the biggest in Sweden.

(8681) Burs = 1992 EN₉

Discovered 1992 Mar. 2 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Burs is a small parish on the Swedish island of Gotland. Gustav Edman (1881–1912), well known for his height (2.46 meters) and strength, was born in Burs. Burs also has the remains of the largest house (67 × 11 meters) in Sweden from the Roman Iron Age.

(8682) Kräklingbo = 1992 ER₉

Discovered 1992 Mar. 2 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Kräklingbo is a small parish on the Swedish island of Gotland. Located here on a hill are the remains of a fortification nearly 2000 years old, the biggest in Scandinavia. From that hill many of the medieval churches on the island can be seen.

(8690) Swindle = 1992 SW₃

Discovered 1992 Sept. 24 by Spacewatch at Kitt Peak.

Timothy D. Swindle (b. 1955), of the Lunar and Planetary Laboratory, is a meteoriticist who has specialized in the study of noble gases in meteorites. Swindle has used meteorites, including the martian meteorites, to study the atmospheres of other planets and water products in the solar system.

(8869) Olausgutho = 1992 EE₁₁

Discovered 1992 Mar. 6 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Olaus Johannis Gutho, from the island of Gotland, was a student at Uppsala University from 1477 to 1486. His carefully written lecture notes (in seven volumes), the only ones preserved from that time, give good examples of the curricula in those days.

(8870) von Zeipel = 1992 EQ₁₁

Discovered 1992 Mar. 6 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Hugo von Zeipel (1873–1959), professor of astronomy at Uppsala University during 1911–1920, is still well known for his theoretical work in celestial mechanics and astrophysics.

(8871) Svanberg = 1992 EA₂₂

Discovered 1992 Mar. 1 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Gustaf Svanberg (1802–1882), professor of astronomy at Uppsala University from 1842 to 1878, built the present building of Uppsala Astronomical Observatory and founded the meteorological observatory. His autobiography gives a good insight into the academic life in Uppsala during the nineteenth century.

(9013) Sansaturio = 1985 PA₁

Discovered 1985 Aug. 14 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Maria Eugenia Sansaturio (b. 1959), a mathematician at the University of Valladolid, has used new algorithms to find several hundred new identifications of minor planets during the past few years. This object was the first to be numbered as the result of her work. The name was suggested by A. Milani.

(9179) Satchmo = 1991 EM₁

Discovered 1991 Mar. 13 at the Oak Ridge Observatory.

Louis ‘Satchmo’ Armstrong (1901–1971), born in poverty in New Orleans, received his first musical training at reform school at the age of 14. His innumerable contributions to jazz as a trumpeter and vocalist began around 1922. His nickname is short for “Satchel Mouth”. The name was suggested by M. Lohmiller.

(9207) Petersmith = 1994 SF₁₂

Discovered 1994 Sept. 29 by Spacewatch at Kitt Peak.

Peter H. Smith (b. 1947), planetary scientist at the Lunar and Planetary Laboratory, participated in the LPL Radial Velocity project and led the development of multispectral stereoscopic cameras flown to Mars. He is a coinvestigator on the descent imager aboard the Huygens probe.

(9265) Ekman = 1978 RC₉

Discovered 1978 Sept. 2 by C.-I. Lagerkvist at the European Southern Observatory.

Agnita (b. 1945) and Arne (b. 1945) Ekman work for the National Encyclopedia of Sweden. Arne was for many years a staff member at the Uppsala Astronomical Observatory.

(9291) Alanburdick = 1982 QO

Discovered 1982 Aug. 17 at the Oak Ridge Observatory.

Alan Burdick (b. 1965), a student of the natural world, is author of numerous popular magazine articles, including one about his efforts to get something in the universe named after him. This in turn helped to land him a writing job at the new Rose Center at the American Museum of Natural History in New York.

(9491) Thooft = 1205 T-1

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Gerardus ’t Hooft (b. 1946) is professor of physics at University of Utrecht. Together with his colleague M. J. G. Veltman he won the 1999 Nobel Prize in physics,

awarded for placing the theory of particle physics on a firmer mathematical foundation and for elucidating the quantum structure of electroweak interactions.

(9492) Veltman = 2066 T-1

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Martinus J. G. Veltman (b.1931) is professor of physics at the Universities of Utrecht and Michigan. Together with his colleague G. 't Hooft he won the 1999 Nobel Prize in physics, awarded for placing particle physics theory on a firmer mathematical foundation and for elucidating the quantum structure of electroweak interactions.

(9617) Grahamchapman = 1993 FA₅

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Graham Chapman (1941–1989) was a member of “Monty Python’s Flying Circus”, the internationally popular British television series of the 1970s known for its pioneering irreverent comedy.

(9618) Johncleese = 1993 FQ₈

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

John Cleese (b.1939), a member of Monty Python’s Flying Circus, has also acted in movies such as *A Fish Called Wanda* and the television comedy series *Fawlty Towers*.

(9619) Terrygilliam = 1993 FS₉

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Terry Gilliam (b.1940) was the American member of Monty Python’s Flying Circus.

(9620) Ericidle = 1993 FU₁₃

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Eric Idle (b.1943), another member of Monty Python’s Flying Circus, is also well known for other projects, such as “All You Need Is Cash” and several books for children.

(9621) Michaelpalin = 1993 FT₂₆

Discovered 1993 Mar. 21 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Michael Palin (b.1943) is a member of Monty Python’s Flying Circus. His sketch with the parrot will never be forgotten. He has also written several books for children and undertaken world travelogues for television.

(9622) Terryjones = 1993 FV₂₆

Discovered 1993 Mar. 21 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Terry Jones (b.1942), a member of Monty Python’s Flying Circus, is also known for films such as *Erik the Viking* and *The Crusades*.

(9623) Karlsson = 1993 FU₂₈

Discovered 1993 Mar. 21 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Per Olov Karlsson (b.1934) is a skillful technician who worked at the Uppsala and Kvistaberg Observatories for many years.

(9637) Perryrose = 1994 PJ₂

Discovered 1994 Aug. 9 at Palomar.

Perry J. Rose (b.1966) is a former member of the Palomar Planet Crossing Asteroid Survey and currently lead solar observer on the 18-meter solar tower at Mt. Wilson Observatory. He discovered many minor planets, including near-earth objects.

(9732) Juchnovski = 1984 SJ₇

Discovered 1984 Sept. 24 by V. Shkodrov and V. Ivanova at the Bulgarian National Observatory.

Ivan Juchnovski (b.1937), president of the Bulgarian Academy of Sciences since 1996, has carried out research on organic structural analysis that has gained wide recognition. A great admirer of astronomy, science, the sky and the music of Chopin and Berlioz are his Universe.

(9739) Powell = 1987 SH₇

Discovered 1987 Sept. 26 by C. S. Shoemaker at Palomar.

James L. Powell (b.1936), director of the Los Angeles County Museum of Natural History and professor of geology for 20 years at Oberlin College, is the author of *Night Comes to the Cretaceous*, an account of the ideas, theories and personalities evolving around the theory of extraterrestrial impact and demise of the dinosaurs.

(9768) Stephenmaran = 1992 GB₁

Discovered 1992 Apr. 5 by C. Shoemaker and E. Shoemaker at Palomar.

Stephen P. Maran (b.1938), long-time veteran of the space program, has made outstanding contributions to public understanding of astronomy as press officer for the American Astronomical Society. He has conducted professional research on many different telescopes and has lectured and written extensively on space discoveries.

(9932) Kopylov = 1985 QP₅

Discovered 1985 Aug. 23 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Ivan Mikheevich Kopylov (b.1928) was a stellar astrophysicist at the Crimean Astrophysical Observatory from 1950 to 1966 and then director at the Special Astrophysical Observatory from 1966 to 1985. His main work concerns the physics and evolution of stars and astronomical instrumentation.

(9984) Gregbryant = 1996 HT

Discovered 1996 Apr. 18 by R. H. McNaught and J. B. Child at Macquarie.

Editor of the journal of the Astronomical Society of New South Wales, Gregory Bryant (b.1970) has contributed over 240 original articles. He also cofounded the South Pacific Star Party, and his enthusiastic promotion of this annual event has attracted participants from around the world.

(9993) Kumamoto = 1997 VX₅

Discovered 1997 Nov. 6 by J. Kobayashi at the Kumamoto Civil Astronomical Observatory.

Kumamoto is the name of both a prefecture and its capital city—home of the discoverer—on the Japanese island of Kyushu. With Mt. Aso, it is home to the biggest crater of an active volcano in the world. The observatory was built in 1982 by raising funds from the citizens of Kumamoto.

(10031) Vladarnolda = 1981 RB₂

Discovered 1981 Sept. 7 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Vladimir Igorevich Arnold (b. 1937) is an authority on the theories of dynamical systems, functions, differential equations and the mathematical methods of classical mechanics. The name was suggested by V. J. Judovich.

(10049) Vorovich = 1986 TZ₁₁

Discovered 1986 Oct. 3 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Academician of the Russian Academy of Sciences Iosif Izrailevich Vorovich (b. 1920) is a prominent mathematician. He developed topological and variation methods of nonlinear analysis for the investigation of plates and shells. The name was suggested by V. J. Judovich.

(10209) Izanaki = 1997 QY₁

Discovered 1997 Aug. 24 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

According to the Japanese myth, Izanaki-no-mikoto is the god who descended to the island Onogoro with the goddess Izanami and created the land there, including the island of Awaji.

(10227) Izanami = 1997 VO₆

Discovered 1997 Nov. 4 by T. Kagawa and T. Urata at the Gekko Observatory.

Izanami-no-mikoto is the mythical goddess who descended to the island Onogoro with the god Izanaki and various other gods. After her death she was also called Yomotsu-oookami in the land of the dead.

(10287) Smale = 1982 UK₇

Discovered 1982 Oct. 21 by L. G. Karachkina at the Crimean Astrophysical Observatory.

American mathematician Stephen Smale (b. 1930) is a member of National Academy of Sciences. He concentrates on the junction of algebraic topology and theory of differential equations and on problems of complexity of algorithms. The name was suggested by V. J. Judovich.

(10289) Geoffperry = 1984 QS

Discovered 1984 Aug. 24 at the Oak Ridge Observatory.

Geoffrey E. Perry (1927–2000), cheerfully eccentric physics teacher at Kettering Grammar School, England, taught his students to monitor radio signals from Soviet satellites. His group of students discovered the Plesetsk launch site and became the most reliable public source of space information during the Cold War.

(10290) Kettering = 1985 SR

Discovered 1985 Sept. 17 at the Oak Ridge Observatory.

The Kettering Group of amateur space sleuths, founded in the 1960s by G. E. Perry, monitored and analyzed radio transmissions from Soviet satellites, often scooping official news media. Perry's young students were eventually supplemented by a world-wide array of amateurs who continue the Group's work.

(10305) Grignard = 1989 YP₅

Discovered 1989 Dec. 29 by E. W. Elst at Haute Provence.

Fernand (Ferre) Grignard (1939–1982), a member of an ancient family, became famous during the 1960s in Western Europe for his folk songs and blues. Another well-known family member is Victor Grignard (1871–1935), who received the 1912 Nobel prize for chemistry.

(10306) Pagnol = 1990 QY

Discovered 1990 Aug. 21 by E. W. Elst at Haute Provence.

Marcel Pagnol (1895–1974) was a French writer who will be always remembered for his novels *Jean de Florette* and *Manon des Sources*. One of his comedies, *Topaze*, dealing with the corruptive power of money, brought him extraordinary success at the theater.

(10323) Frazer = 1990 VW₆

Discovered 1990 Nov. 14 by E. W. Elst at the European Southern Observatory.

James George Frazer (1854–1941) is best remembered for *The Golden Bough*, a study in comparative religion (in 12 volumes). The work sets forth a mass of evidence for establishing the thesis that human beings must have begun with magic and progressed to religion and from that to science.

(10324) Vladimirov = 1990 VB₁₄

Discovered 1990 Nov. 14 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Vladimir Alekseevich Vladimirov (b. 1951) is a prominent authority on stability theory in hydrodynamics and biophysical hydrodynamics. He is a professor of science in Hong Kong. The name was suggested by V. J. Judovich.

(10327) Batens = 1990 WQ₆

Discovered 1990 Nov. 21 by E. W. Elst at the European Southern Observatory.

Diderik Batens (b. 1944) is a member of the philosophy department at the University of Ghent. About 20 years ago he founded a new kind of logic ("adaptive logic") that has led to many publications.

(10330) Durkheim = 1991 GH₃

Discovered 1991 Apr. 8 by E. W. Elst at the European Southern Observatory.

Émile Durkheim (1858–1917) was convinced that ethical and social structures were endangered by the advent of technology and mechanization. In 1895 he proposed an educational reform, *Les Règles de la méthode sociologique*, that could avoid the perils of social disconnectedness.

(10340) Jostjahn = 1991 RT₄₀

Discovered 1991 Sept. 10 by F. Börngen at Tautenburg.

Jost Jahn (b. 1959), a dental surgeon, has been editor of the German *Astro-Fax-Circulars* for amateurs and on the board of the Vereinigung der Sternfreunde since 1992. During 1995–1997, he was head of the minor planets section of this association.

(10354) Guillaumebudé = 1993 BU₅

Discovered 1993 Jan. 27 by E. W. Elst at Caussols.

Guillaume Budé (1468–1540) was one of the first philologists in France to teach himself classical Greek, making him an expert on the language of Homer. Founder of the Collège de France (1530), he is well known for his *Commentaires sur la langue grecque* (1529).

(10356) Rudolfsteiner = 1993 RQ₄

Discovered 1993 Sept. 15 by E. W. Elst at the European Southern Observatory.

Rudolf Steiner (1861–1925) was the editor of the scientific works of Wolfgang Goethe, and this inspired him to write his well-known work *Die Philosophie der Freiheit* (1894). In 1912 he founded the Anthroposophical Society upon the belief that there is a spiritual perception independent of the senses.

(10358) Kirchhoff = 1993 TH₃₂

Discovered 1993 Oct. 9 by E. W. Elst at the European Southern Observatory.

Gustav Robert Kirchhoff (1824–1887) was a German physicist who, together with Robert Bunsen, founded the discipline of spectrum analysis. They demonstrated that an element gives off a characteristic colored light when heated to incandescence.

(10361) Bunsen = 1994 PR₂₀

Discovered 1994 Aug. 12 by E. W. Elst at the European Southern Observatory.

Robert Wilhelm Bunsen (1811–1899) was a German chemist who discovered the alkali-group metals cesium and rubidium. He also found an antidote to arsenic poisoning (1834) and invented the carbon-zinc electric cell (1841). He is best remembered by every chemistry student for the development of the Bunsen burner.

(10378) Ingmarbergman = 1996 NE₅

Discovered 1996 July 14 by E. W. Elst at the European Southern Observatory.

Ingmar Bergman (b.1918) has achieved worldwide fame with films such as *Det sjunde inseglet* (The Seventh Seal, 1956) and *Smultronstället* (Wild Strawberries, 1957). Although his films are morally complex, they can also be hopeful and lovely.

(10380) Berwald = 1996 PY₇

Discovered 1996 Aug. 8 by E. W. Elst at the European Southern Observatory.

Franz Berwald (1796–1868) may be considered the founder of musical Romanticism in Sweden. Although his compositions are somewhat influenced by the German composers Spohr and von Weber, they are highly original in construction and in the use of harmonic means.

(10385) Amaterasu = 1996 TL₁₂

Discovered 1996 Oct. 15 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

Amaterasu-oomikami, the mythical Japanese goddess of the sun, was born from the left eye of the god Izanaki and ruled the world of the heaven Takamagahara. To protest the misconduct of her younger brother, the god Susanoo, she hid in the cave called Ama-no-iwayado, and the world fell into complete darkness.

(10412) Tsukuyomi = 1997 YO₄

Discovered 1997 Dec. 21 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

According to myth, Tsukuyomi-no-mikoto, the Japanese god of night and the moon, was born from the right eye of the god Izanaki. It is said that he made his older sister, the goddess Amaterasu, very angry and caused the separate appearance of the sun in the day and the moon at night.

(10456) Anechka = 1978 PS₂

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

Daughter of a friend of the discoverer in the town of Cherkassy, Anya (Anechka) Ivanchenko (1987–1999) was a young girl who liked to draw.

(10506) Rydberg = 1988 CW₄

Discovered 1988 Feb. 13 by E. W. Elst at the European Southern Observatory.

Johannes Robert Rydberg (1854–1919) was a Swedish physicist educated at the University of Lund who held the chair of physics from 1901 to 1919. He is well-known for the Rydberg constant, which appears in a spectroscopic expression that relates the various lines in the spectra of chemical elements.

(10509) Heinrichkayser = 1989 GD₄

Discovered 1989 Apr. 3 by E. W. Elst at the European Southern Observatory.

Heinrich Gustav Johannes Kayser (1853–1940) was a German physicist who demonstrated the presence of helium in the earth's atmosphere. Using the spectra of a large number of elements, he discovered closely grouped spectral lines, the spacing and intensity of which vary in a regular manner.

(10542) Ruckers = 1992 CN₃

Discovered 1992 Feb. 2 by E. W. Elst at the European Southern Observatory.

Hans Ruckers (1555–1623) was the most famous of all harpsichord makers and founder of a dynasty of Flemish instrument makers. His earliest (1581) known instrument is a virginal with two independent keyboards, now in New York City. These instruments were so prized that they were often rebuilt, enlarged and copied.

(10549) Helsingborg = 1992 RM₂

Discovered 1992 Sept. 2 by E. W. Elst at the European Southern Observatory.

Helsingborg is a town in southern Sweden at the narrowest part of the Öresund. It is the most convenient place for motor traffic to cross to and from the European continent by ferry. In honor of Tycho Brahe, who had his observatory in the vicinity, an appropriate monument has been erected there.

(10550) Malmö = 1992 RK₇

Discovered 1992 Sept. 2 by E. W. Elst at the European Southern Observatory.

Malmö is Sweden's third largest town. Because of its busy port on the Öresund, it is an industrial and transportation center. Malmöhus, a sixteenth-century castle and fortress, has been transformed into a magnificent museum.

(10551) Göteborg = 1992 YL₂

Discovered 1992 Dec. 18 by E. W. Elst at Caussols.

Founded in 1603, Göteborg, on the southwest coast, is Sweden's chief seaport and second largest city. Many of the early inhabitants were Dutch, and this is marked by its typical Dutch canal system. With the development of the Swedish East India Company in the early eighteenth century the city's prosperity increased.

(10552) Stockholm = 1993 BH₁₃

Discovered 1993 Jan. 22 by E. W. Elst at the European Southern Observatory.

Stockholm, the largest city in Sweden, is also the capital. Built on numerous islands, it is sometimes known as "the Venice of the North".

(10557) Rowland = 1993 RL₅

Discovered 1993 Sept. 15 by E. W. Elst at the European Southern Observatory.

Henry Rowland (1848–1901) was an American physicist who in 1885 developed a machine capable of engraving as many as 20 000 lines per inch for the construction of diffraction gratings. His invention of the concave diffraction grating revolutionized spectrum analysis.

(10558) Karlstad = 1993 RB₇

Discovered 1993 Sept. 15 by E. W. Elst at the European Southern Observatory.

Karlstad, the capital of Värmland, lies in southwest-central Sweden, on the northern shore of Lake Vänern. In 1865 the city was almost completely destroyed by fire. It was rebuilt along modern lines, with broad avenues and large parks. Karlstad's economy is based on forest products and heavy machinery.

(10566) Zabadak = 1994 AZ₂

Discovered 1994 Jan. 14 by Y. Kushida and O. Muramatsu at Yatsugatake South Base Observatory.

Zabadak is a name of a Japanese music group that is led by Tomohiko Kira. Their music encourages respect for all creatures in the biosphere and gives thanks for our planet, creating a feeling of joy through their performance. The name was suggested by M. Saito.

(10604) Susanoo = 1996 VJ

Discovered 1996 Nov. 3 by T. Urata at the Nihondaira Observatory.

Susanoo-no-mikoto is the Japanese god of heroes and the ancestor soul and a younger brother of the goddess Amaterasu. Because of his rebellious spirit, he was banished from the heaven Takamagahara and descended to the country Izumo. He defeated the giant snake Yamata-no-orochi and created the basic land of this world.

(10613) Kushinadahime = 1997 RO₃

Discovered 1997 Sept. 4 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

Kushinadahime, the mythical empress of the god Susanoo-no-mikoto, was offered as a sacrifice to the giant snake Yamata-no-orochi but was saved by the god Susanoo.

(10619) Ninigi = 1997 WO₁₃

Discovered 1997 Nov. 27 by T. Kagawa and T. Urata at the Gekko Observatory.

According to the Japanese myth, the god Ninigi-no-mikoto is a grandson of the goddess Amaterasu. By the order of Amaterasu he descended from the heaven Takamagahara to the peak Takachiho to dominate the land.

(10627) Ookuninushi = 1998 BW₂

Discovered 1998 Jan. 19 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

The mythical Japanese god Ookuninushi-no-mikoto created the land, together with the god Sukunabikona-no-mikoto. The name means “king of great land” and is a frequent reference in literature and folklore. A well-known story is that he helped a white rabbit skinned by a shark as the retribution for trickery.

(10725) Sukunabikona = 1986 WB

Discovered 1986 Nov. 22 by K. Suzuki and T. Urata at Toyota.

Sukunabikona is the Japanese god of a naughty character. Although he was extremely short, he dominated the land with the god Ookuninushi-no-mikoto.

(10733) Georgesand = 1988 CP₁

Discovered 1988 Feb. 11 by E. W. Elst at the European Southern Observatory.

Amandine-Aurore-Lucile Dudevant (1804–1876) was a French romantic writer who wrote under the pseudonym of George Sand. As a writer she was an idealist, creating characters in her novels of unbelievable innocence and charm.

(10734) Wieck = 1988 CT₄

Discovered 1988 Feb. 13 by E. W. Elst at the European Southern Observatory.

Clara Josephine Wieck (1819–1896) was a German child prodigy and by 1835 had established a reputation as a pianist throughout Europe. In 1840 she married the famous composer Robert Schumann. She has left us a beautiful piano concerto, chamber music, songs and many pieces for solo piano.

(10768) Sarutahiko = 1990 UZ₁

Discovered 1990 Oct. 21 by T. Urata at the Nihondaira Observatory.

Sarutahiko is a Japanese god who was a giant with a long nose and sparkling red eyes. When the god Ninigi-no-mikoto descended from heaven, Sarutahiko guided him.

(10769) Minas Gerais = 1990 UJ₅

Discovered 1990 Oct. 16 by E. W. Elst at the European Southern Observatory.

The Brazilian state of Minas Gerais (general mines), located in the mineral-rich uplands of the Brazilian highlands, is the storehouse of the mineral riches of the country. The discovery of gold in 1692 and diamonds in 1729 led to a mad rush to the new mines. Minas is also widely known for its semiprecious gems.

(10770) Belo Horizonte = 1990 VU₅

Discovered 1990 Nov. 15 by E. W. Elst at the European Southern Observatory.

Belo Horizonte is the beautiful capital (1897) of the Brazilian state of Minas Gerais. It was the first of Brazil's planned cities, since the old capital at Ouro Prêto could not accommodate the necessary expansions. Belo was modeled after Washington, D.C., and La Plata in Argentina.

(10771) Ouro Prêto = 1990 VK₆

Discovered 1990 Nov. 15 by E. W. Elst at the European Southern Observatory.

Ouro Prêto was the old capital of Minas Gerais. Founded in 1698 as a mining settlement, it became the center of a great gold and silver rush. In 1933 the city was decreed a national monument, to preserve and restore its beautiful churches and houses.

(10781) Ritter = 1991 PV₃₁

Discovered 1991 Aug. 6 by F. Börngen at Tautenburg.

As the result of numerous physical experiments he conducted during the decade he lived in Jena, the German scientist Johann Wilhelm Ritter (1776–1810) discovered the electrochemical voltage ranking of the metals (1798) and the ultraviolet part of the radiation in the solar spectrum (1801).

(10786) Robertmayer = 1991 TC₃

Discovered 1991 Oct. 7 by F. Börngen and L. D. Schmadel at Tautenburg.

Julius Robert Mayer (1814–1878), a German doctor and naturalist, created the formula for the transformation of mechanical energy into heat. In 1842 he stated the law of energy conservation. This received little notice until his work was extended by Helmholtz.

(10793) Quito = 1992 CU₂

Discovered 1992 Feb. 2 by E. W. Elst at the European Southern Observatory.

Quito, astride the equator, is the capital of Ecuador and the oldest of all the South American capitals. The city was occupied in 1534 by a lieutenant of the conquistador Pizarro.

(10799) Yucatán = 1992 OY₂

Discovered 1992 July 26 by E. W. Elst at the European Southern Observatory.

The Yucatán peninsula became a Mexican state in 1824. It is a popular tourist destination because of its old Mayan centers, such as “Uxmal”. It is also the location of the presumed impact of a large minor planet or comet about 65 million years ago.

(10804) Amenouzume = 1992 WN₃

Discovered 1992 Nov. 23 by T. Urata at the Nihondaira Observatory.

Amenouzume is the mythical Japanese goddess who managed to free the goddess Amaterasu by dancing in front of the rock door when she shut herself up in the cave Ama-no-iwayado. After that Amenouzume descended from heaven, following the god Ninigi-no-mikoto.

(10831) Takamagahara = 1993 VM₂

Discovered 1993 Nov. 15 by T. Urata at the Nihondaira Observatory.

Takamagahara was the heaven that appears in Japanese ancient myth. The place was ruled by the goddess Amaterasu.

(10867) Lima = 1996 NX₄

Discovered 1996 July 14 by E. W. Elst at the European Southern Observatory.

Lima, a name corrupted from that of the Rimac river, on which it stands, is the capital of Peru. Established by Pizarro in 1535, the city is noted for the mathematical regularity of its original streets, which enclose square areas of nearly uniform size.

(10888) Yamatano-orochi = 1996 XT₃₀

Discovered 1996 Dec. 6 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

Yamatano-orochi is a giant snake appearing in Japanese ancient mythology. The snake had eight heads and eight tails and was long enough to cover eight valleys and eight peaks. It was defeated by the god Susanoo-no-mikoto.

(11002) Richardlis = 1979 MD₁

Discovered 1979 June 24 by E. F. Helin and S. J. Bus at Siding Spring.

Richard J. Lis, M.D. (b.1951) has been an orthopedist and surgeon with the Orthopedic Institute of Pasadena for over 15 years. A member of many professional medical associations, he also provides medical consultations to Caltech students on a voluntary basis.

(11083) Caracas = 1993 RZ₆

Discovered 1993 Sept. 15 by E. W. Elst at the European Southern Observatory.

Founded in 1567, Caracas is the capital of Venezuela and one of the principal cities of South America.

(11115) Kariya = 1995 WC₇

Discovered 1995 Nov. 21 by A. Nakamura at Kuma Kogen.

Kariya City (population 126 000), where the discoverer lived for one and a half years, is located in the center of Aichi Prefecture. Although the city center is dominated by automobile industry facilities, its northern part is blessed with abundant nature.

(11278) Telesio = 1989 SD₃

Discovered 1989 Sept. 26 by E. W. Elst at the European Southern Observatory.

Bernardino Telesio (1509–1588) was an Italian philosopher and natural scientist who severely opposed the practice of reasoning without reference to concrete data. His studies of plants and animals led him to believe that heat is the source of life. Francis Bacon called him “the first of the moderns”.

(11289) Frescobaldi = 1991 PA₂

Discovered 1991 Aug. 2 by E. W. Elst at the European Southern Observatory.

Girolamo Frescobaldi (1583–1644) was an Italian organist and composer. He has left us with numerous vocal compositions (he owed his first reputation to his beautiful voice), including canzoni, motets and hymns. His work for the organ shows great ability in the art of the fugue.

(11298) Gide = 1992 RE₆

Discovered 1992 Sept. 2 by E. W. Elst at the European Southern Observatory.

André Gide (1869–1951), the French writer, humanist and moralist, is well-known for his novel *Les Faux-Monnayeurs* (1926). Gide's lifelong emphasis was on the self-aware and sincere individual as the touchstone of both collective and individual morality. In 1947 he was awarded the Nobel prize for literature.

(11299) Annafreud = 1992 SA₂₂

Discovered 1992 Sept. 22 by E. W. Elst at the European Southern Observatory.

Anna Freud (1895–1982), the youngest daughter of Sigmund Freud, escaped with her father in 1938 Austria and settled in London. In 1936 she published *Das Ich und die Abwehrmechanismen*. She is considered the founder of child psychoanalysis.

(11302) Rubicon = 1993 BM₅

Discovered 1993 Jan. 27 by E. W. Elst at Caussols.

The Rubicon (Latin “Rubico”) was a small river that separated ancient Cisalpine Gaul from Italy. In 49 B.C. Caesar crossed this river without authorization. From this we have the expression “crossing the Rubicon”, which means performing a step that definitely commits a person to a given course of action.

(11309) Malus = 1993 PC₇

Discovered 1993 Aug. 15 by E. W. Elst at Caussols.

Étienne-Louis Malus (1775–1812) was a French physicist who discovered the polarization of reflected light. In 1798 he accompanied Napoleon to Egypt as a member of the corps of engineers. In 1809 he published a paper on the discovery of the polarization of light.

(11314) Charcot = 1994 NR₁

Discovered 1994 July 8 by E. W. Elst at Caussols.

Jean-Martin Charcot (1825–1893) was one of France's greatest medical clinicians, working at Paris' famous clinic “La Salpêtrière”). He was also a teacher of extraordinary competence, attracting students from all parts of the world. He is considered the founder of modern neurology.

(11315) Salpêtrière = 1994 NS₁

Discovered 1994 July 8 by E. W. Elst at Caussols.

Founded in Paris in 1862, “Salpêtrière Hospital” is a famous neurological clinic. Thanks to the clinician Jean-Martin Charcot, the clinic became one of the greatest neurological centers of the time in Europe. In 1885 Sigmund Freud visited Charcot and became interested in the psychological origins of neurosis.

(11332) Jameswatt = 1996 GO₂₀

Discovered 1996 Apr. 15 by E. W. Elst at the European Southern Observatory.

In 1765, Scottish inventor James Watt (1736–1819) suggested using a separate condenser in the steam engine, lessening the consumption of steam and fuel in fire engines. With the invention of the double-acting machine, in which the piston pushed as well as pulled, “Watt's engine” was nearly complete.

(11334) Rio de Janeiro = 1996 HM₁₈

Discovered 1996 Apr. 18 by E. W. Elst at the European Southern Observatory.

Rio de Janeiro, founded in 1565, is the city with the “Sugar Loaf” and a former capital of Brazil.

(11335) Santiago = 1996 HW₂₃

Discovered 1996 Apr. 20 by E. W. Elst at the European Southern Observatory.

The capital of Chile, Santiago was founded in 1541 by the Spanish conquistador Pedro de Valdivia.

(11573) Helmholtz = 1993 SK₃

Discovered 1993 Sept. 20 by F. Börngen and L. D. Schmadel at Tautenburg.

Hermann Ludwig Ferdinand von Helmholtz (1821–1894), a German doctor, physiologist and physicist, was one of the most famous naturalists of the nineteenth century. In 1847 he extended Robert Mayer’s law of energy conservation to all known natural phenomena.

(11612) Obu = 1995 YZ₁

Discovered 1995 Dec. 21 by A. Nakamura at Kuma Kogen.

Obu City (population 76 000), where the discoverer lived for six and a half years, is located in the center of Aichi Prefecture. Known for its automobile industry, Obu is also famous for the 500-year-old “Doburoku Festival”, held at Nagakusa-Tenjinsha Shrine.

(11796) Nirenberg = 1980 DS₄

Discovered 1980 Feb. 21 by L. G. Karachkina at the Crimean Astrophysical Observatory.

American mathematician Louis Merses Nirenberg (b.1925) is an expert in the theory of differential equations, mathematical physics and functional analysis.

(11847) Winckelmann = 1988 BY₂

Discovered 1988 Jan. 20 by F. Börngen at Tautenburg.

The German art historian Johann Joachim Winckelmann (1717–1768) was the founder of classic archaeology. His passionate interpretation of Greek art defined the ideal of the beauty of classicism. His extensive knowledge of ancient art and culture is stated in his main work *Geschichte der Kunst des Altertums*.

(11853) Runge = 1988 RV₁

Discovered 1988 Sept. 7 by F. Börngen at Tautenburg.

The German painter and graphic artist Philipp Otto Runge (1777–1810) was a famous master of north German Romanticism. He favored pictures of figures in scenic surroundings and painted plants carefully and accurately. His most important works are in the art gallery of Hamburg.

(11854) Ludwigrichter = 1988 RM₃

Discovered 1988 Sept. 8 by F. Börngen at Tautenburg.

The German artist Adrian Ludwig Richter (1803–1884) taught for many years at the academy in his home town, Dresden. He painted Italian and Saxonian-Bohemian landscapes in the late Romantic style and created woodcut illustrations for books.

(11855) Preller = 1988 RS₃

Discovered 1988 Sept. 8 by F. Börngen at Tautenburg.

Friedrich Preller the Elder (1804–1878), German painter and etcher, was court painter in Weimar and, beginning in 1834, director of the “Freie Zeichenschule”. His

wall paintings were in late classical style with elements of Romanticism. His main works are the 16 monumental Odyssee frescos in the New Museum of Weimar.

(12240) Droste-Hülshoff = 1988 PG₂

Discovered 1988 Aug. 13 by F. Börngen at Tautenburg.

Annette Freiin von Droste-Hülshoff (1797–1848) was one of the most prominent German poets of her time. Her poems are frequently rooted in the landscape of her Westphalian home. Her prose writing in part anticipates civic realism in Germany. Her later work culminated in the poems *Mondesaufgang* and *Durchwachte Nacht*.

(12241) Lefort = 1988 PQ₂

Discovered 1988 Aug. 13 by F. Börngen at Tautenburg.

Gertrud Freiin von le Fort (1876–1971), German poet, deals with historical and religious topics in her poems, stories and novels. She asks for solidarity with the oppressed and persecuted and demands tolerance among nations, races and religions.

(12259) Szukalski = 1989 SZ₁

Discovered 1989 Sept. 26 by E. W. Elst at the European Southern Observatory.

Polish-born sculptor Charles Albert Szukalski (1945–2000), working in Antwerp, sometimes used very eccentric means for establishing his work. One of his foremost pieces of art concerns “La Cena”, a monument of 13 statues that has been erected in the Nevada desert.

(12275) Marcelgoffin = 1990 VS₅

Discovered 1990 Nov. 15 by E. W. Elst at the European Southern Observatory.

Marcel Goffin (1913–1999) was an accomplished amateur violin maker. He earned his living as a humble service technician by day but devoted most of his free time to his real vocation, violin making. In this art he was completely self-taught. He built a total of 50 instruments, the last one when he was 85 years old.

(12342) Kudohmichiko = 1993 BL₁₂

Discovered 1993 Jan. 30 by Y. Kushida and O. Muramatsu at the Yatsugatake South Base Observatory.

Michiko Kudoh (b.1942) has been associated with the Gotoh Planetarium and Astronomical Museum in Tokyo. She reaches out to other astronomers through her web site.

(12408) Fujioka = 1995 SP₂

Discovered 1995 Sept. 20 by A. Nakamura at Kuma Kogen.

Hiroshi Fujioka (b.1946), born in Kuma Town, is an actor, martial artist, and a dedicated volunteer in Iraq, Ethiopia and Cambodia. Since his debut in 1970, he has starred in more than 20 movies and a number of TV dramas, including the most popular Japanese television program in the 1970s, *Kamen Rider*.

(12583) Buckjean = 1999 RC₃₅

Discovered 1999 Sept. 11 by D. K. Chesney at High Point.

Named for the discoverer’s father, a railroad conductor, and his mother, a registered nurse. Both worked long hours to bring up their children, Gary, Dennis, Karen and Linda in Clovis, New Mexico. A Christmas gift of binoculars from his parents ultimately led to this discovery.

(12696) Camus = 1989 SF₁

Discovered 1989 Sept. 26 by E. W. Elst at the European Southern Observatory.

French novelist and essayist Albert Camus (1913–1960), well known for his novels *L'Étranger* and *La Peste*, won the 1957 Nobel prize for literature. He defended truth, moderation and justice, adhering to liberal humanism and rejecting the dogmatic aspects of both christianity and marxism.

(12697) Verhaeren = 1989 SK₃

Discovered 1989 Sept. 26 by E. W. Elst at the European Southern Observatory.

The Belgian poet Émile Verhaeren (1855–1916), although writing exclusively in French, took much inspiration from “Flanders Fields”, glorifying the greatness of its painters and enjoying the pleasures of its common people. Other important themes in his work are human progress, brotherhood of man and his love for his wife.

(12796) Kamenrider = 1995 WF

Discovered 1995 Nov. 16 by A. Nakamura at Kuma Kogen.

Japanese TV character Kamen Rider, played by Hiroshi Fujioka, is a cyborg and a lover of justice. Ninety-eight stories of *Kamen Rider* were broadcast from 1971 to 1973. His fighting action and heroic stories fascinated all boys in Japan, including the discoverer.

(12874) Poisson = 1998 QZ

Discovered 1998 Aug. 19 by P. G. Comba at Prescott.

Siméon-Denis Poisson (1781–1840) was a prolific French mathematician and inspiring teacher who left his mark on many branches of applied mathematics, including electricity and magnetism, celestial mechanics and elasticity. His name is also associated with the Poisson distribution in probability theory.

(13192) Quine = 1997 BU₅

Discovered 1997 Jan. 31 by P. G. Comba at Prescott.

Willard Van Orman Quine (b.1908), American logician and philosopher, was initially trained in mathematics and became a professor of philosophy at Harvard University (1936–1978). He was a prolific scholar whose contributions range from mathematical logic to a constructivist analysis of philosophy.

(13376) Dunphy = 1998 VO₃₂

Discovered 1998 Nov. 15 by I. P. Griffin at Cocoa.

Desmond Plunket Dunphy (1920–1998) was an Irish medical doctor. In a career lasting from 1945 to 1980 he patiently and diligently tended many tens of thousands of patients, both in Ireland and later in family practice in England. During the last decade of his life he provided much inspiration and encouragement to the discoverer.

(13390) Bouška = 1999 FQ₃

Discovered 1999 Mar. 18 by P. Pravec and M. Wolf at Ondřejov.

Jiří Bouška (b.1925), emeritus professor of astronomy at Charles University, Prague, studied interplanetary matter and for 30 years served as the editor of the magazine *Říše hvězd* (The Realm of Stars) and the Czech Astronomical Yearbook. He taught several generations of Czech astronomers, including one of the discoverers.

EPHEMERIDES

C/1999 S2 (McNaught-Watson)				Elements MPC 39022				
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1 m_2
2000 03 17	02 32.90	−47 36.0	9.020	8.542	58.4	5.7	16.1	
2000 03 27	02 39.01	−46 28.6	9.080	8.583	57.4	5.6	16.1	
2000 04 06	02 45.41	−45 27.8	9.129	8.624	57.0	5.6	16.2	
2000 04 16	02 51.98	−44 34.1	9.167	8.666	57.3	5.6	16.2	
2000 04 26	02 58.64	−43 47.9	9.196	8.708	58.2	5.6	16.2	

2000 05 06	03 05.30	−43 09.5	9.214	8.750	59.8	5.7	16.2	
2000 05 16	03 11.86	−42 39.1	9.222	8.792	62.0	5.8	16.3	
2000 05 26	03 18.25	−42 16.8	9.220	8.834	64.6	5.9	16.3	
2000 06 05	03 24.37	−42 02.5	9.210	8.877	67.8	6.1	16.3	
2000 06 15	03 30.14	−41 56.3	9.193	8.920	71.3	6.2	16.3	
2000 06 25	03 35.47	−41 57.9	9.168	8.962	75.2	6.3	16.3	
2000 07 05	03 40.28	−42 06.8	9.139	9.005	79.3	6.4	16.3	
2000 07 15	03 44.47	−42 22.5	9.106	9.049	83.6	6.4	16.4	
2000 07 25	03 47.95	−42 44.3	9.071	9.092	88.0	6.4	16.4	
2000 08 04	03 50.65	−43 11.3	9.036	9.136	92.4	6.4	16.4	
2000 08 14	03 52.47	−43 42.3	9.003	9.179	96.9	6.3	16.4	
2000 08 24	03 53.34	−44 16.0	8.974	9.223	101.1	6.2	16.4	
2000 09 03	03 53.22	−44 50.8	8.951	9.267	105.2	6.0	16.4	
2000 09 13	03 52.08	−45 24.8	8.937	9.311	108.9	5.9	16.4	
2000 09 23	03 49.93	−45 56.1	8.933	9.355	112.0	5.7	16.5	
2000 10 03	03 46.82	−46 22.9	8.940	9.400	114.5	5.6	16.5	
2000 10 13	03 42.87	−46 43.0	8.961	9.444	116.2	5.4	16.5	
2000 10 23	03 38.25	−46 54.9	8.997	9.489	116.9	5.4	16.5	
2000 11 02	03 33.16	−46 57.2	9.047	9.534	116.7	5.3	16.6	
2000 11 12	03 27.86	−46 48.8	9.113	9.578	115.3	5.4	16.6	
2000 11 22	03 22.61	−46 29.6	9.194	9.623	113.0	5.4	16.7	
2000 12 02	03 17.65	−45 59.7	9.289	9.668	109.9	5.5	16.7	
2000 12 12	03 13.23	−45 19.9	9.397	9.714	106.0	5.6	16.7	
2000 12 22	03 09.50	−44 31.3	9.516	9.759	101.5	5.7	16.8	
2001 01 01	03 06.61	−43 35.3	9.644	9.804	96.5	5.7	16.8	
2001 01 11	03 04.61	−42 33.8	9.778	9.850	91.3	5.7	16.9	
2001 01 21	03 03.54	−41 28.3	9.917	9.895	85.9	5.7	16.9	
2001 01 31	03 03.36	−40 20.5	10.057	9.941	80.5	5.6	17.0	
2001 02 10	03 04.04	−39 11.9	10.195	9.987	75.1	5.5	17.0	
2001 02 20	03 05.49	−38 04.1	10.330	10.032	69.9	5.3	17.1	
2001 03 02	03 07.64	−36 58.0	10.458	10.078	65.0	5.1	17.1	
2001 03 12	03 10.40	−35 55.0	10.578	10.124	60.4	4.9	17.2	
2001 03 22	03 13.67	−34 55.7	10.687	10.171	56.5	4.7	17.2	
2001 04 01	03 17.37	−34 00.9	10.784	10.217	53.2	4.5	17.3	
2001 04 11	03 21.40	−33 11.3	10.868	10.263	50.7	4.3	17.3	

P/1999 XN₁₂₀ (Catalina)

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1 m_2
2000 03 17	04 02.07	+22 47.2	3.564	3.292	66.3	16.1	19.7	
2000 03 27	04 14.11	+23 06.7	3.688	3.290	59.2	15.1	19.8	
2000 04 06	04 27.05	+23 25.7	3.804	3.288	52.3	13.9	19.8	
2000 04 16	04 40.73	+23 43.1	3.910	3.287	45.6	12.6	19.8	
2000 04 26	04 55.04	+23 57.8	4.005	3.286	39.1	11.1	19.8	
2000 05 06	05 09.86	+24 08.9	4.088	3.286	32.8	9.6	19.8	

C/2000 D2 (LINEAR)

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1 m_2
2000 03 17	05 36.26	+44 58.3	2.125	2.329	88.9	25.3	19.6	
2000 03 27	05 21.95	+41 48.0	2.359	2.339	76.7	24.5	19.8	
2000 04 06	05 14.23	+39 13.4	2.589	2.355	65.4	22.7	20.0	
2000 04 16	05 10.65	+37 09.1	2.808	2.376	54.8	20.2	20.1	
2000 04 26	05 09.71	+35 28.6	3.008	2.402	44.9	17.2	20.2	
2000 05 06	05 10.49	+34 06.3	3.184	2.433	35.4	13.9	20.2	

P/1999 XB₆₉ (LINEAR)

		Elements <i>MPC</i> 39023							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 03 17		06 25.27	+09 50.1	1.186	1.668	99.4	36.1		20.5
2000 03 27		06 47.89	+09 29.8	1.275	1.691	95.4	36.0		20.6
2000 04 06		07 11.38	+09 03.2	1.371	1.720	91.6	35.6		20.8
2000 04 16		07 35.34	+08 28.4	1.475	1.754	88.0	34.9		21.0
2000 04 26		07 59.41	+07 44.2	1.585	1.793	84.4	34.0		21.2
2000 05 06		08 23.34	+06 50.4	1.703	1.837	80.9	32.8		21.4
2000 05 16		08 46.93	+05 47.4	1.827	1.885	77.4	31.6		21.5
2000 05 26		09 10.03	+04 36.1	1.957	1.937	73.8	30.2		21.7
2000 06 05		09 32.55	+03 17.7	2.093	1.991	70.1	28.6		21.9
2000 06 15		09 54.47	+01 53.1	2.233	2.048	66.3	27.0		22.0
2000 06 25		10 15.74	+00 23.8	2.376	2.107	62.4	25.3		22.2
2000 07 05		10 36.41	−01 09.0	2.522	2.168	58.3	23.5		22.3
2000 07 15		10 56.49	−02 44.4	2.669	2.231	54.1	21.7		22.4
2000 07 25		11 16.02	−04 21.1	2.815	2.294	49.8	19.8		22.5

52P/Harrington-Abell

		Elements <i>MPC</i> 32595							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 16		16 18.12	−34 19.8	3.027	3.814	136.1	10.5		22.5
2000 04 26		16 11.43	−34 28.4	2.984	3.862	146.4	8.3		22.4
2000 05 06		16 03.31	−34 25.9	2.965	3.909	156.2	6.0		22.3
2000 05 16		15 54.43	−34 11.9	2.974	3.956	164.1	4.0		22.2
2000 05 26		15 45.51	−33 47.3	3.011	4.002	166.0	3.5		22.2
2000 06 05		15 37.27	−33 14.6	3.078	4.047	160.1	4.9		22.4

17P/Holmes

		Elements <i>MPC</i> 29881							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 16		23 36.57	+01 04.4	2.967	2.174	31.4	13.9	17.4	20.8
2000 04 26		23 54.71	+04 03.1	2.902	2.169	35.9	15.8	17.4	20.9
2000 05 06		00 12.65	+07 03.1	2.834	2.166	40.4	17.6	17.3	20.9
2000 05 16		00 30.38	+10 03.3	2.762	2.166	44.8	19.2	17.2	20.9
2000 05 26		00 47.90	+13 02.8	2.687	2.168	49.3	20.8	17.2	20.9
2000 06 05		01 05.18	+16 01.0	2.610	2.173	53.9	22.2	17.1	20.8
2000 06 15		01 22.17	+18 56.9	2.530	2.181	58.6	23.4	17.1	20.8
2000 06 25		01 38.80	+21 49.8	2.448	2.191	63.4	24.5	17.1	20.8
2000 07 05		01 54.95	+24 39.4	2.365	2.203	68.4	25.4	17.0	20.7
2000 07 15		02 10.48	+27 24.8	2.280	2.218	73.5	26.1	17.0	20.7
2000 07 25		02 25.17	+30 06.0	2.196	2.235	78.9	26.5	16.9	20.7
2000 08 04		02 38.77	+32 42.4	2.111	2.254	84.6	26.6	16.9	20.6
2000 08 14		02 50.92	+35 13.7	2.027	2.276	90.6	26.4	16.9	20.5
2000 08 24		03 01.24	+37 39.3	1.946	2.299	96.9	25.9	16.9	20.4
2000 09 03		03 09.20	+39 58.2	1.868	2.324	103.7	24.9	16.9	20.3
2000 09 13		03 14.29	+42 08.0	1.797	2.351	110.8	23.6	16.8	20.2
2000 09 23		03 16.00	+44 05.8	1.733	2.379	118.3	21.8	16.8	20.1
2000 10 03		03 13.94	+45 46.1	1.680	2.409	126.1	19.6	16.9	20.0
2000 10 13		03 08.13	+47 02.4	1.642	2.441	133.8	17.2	16.9	19.9
2000 10 23		02 59.11	+47 47.8	1.620	2.473	140.9	14.7	16.9	19.8
2000 11 02		02 48.10	+47 57.2	1.619	2.507	146.6	12.6	17.0	19.8
2000 11 12		02 36.85	+47 30.4	1.639	2.542	149.5	11.4	17.2	19.8
2000 11 22		02 27.09	+46 32.8	1.683	2.578	148.5	11.5	17.3	19.9
2000 12 02		02 20.09	+45 14.1	1.751	2.614	144.1	12.8	17.5	20.1
2000 12 12		02 16.55	+43 45.9	1.840	2.652	137.6	14.5	17.7	20.3
2000 12 22		02 16.51	+42 18.1	1.949	2.690	130.1	16.3	17.9	20.5

2001 01 01	02 19.72	+40 57.6	2.075	2.728	122.1	17.8	18.1	20.7
2001 01 11	02 25.76	+39 48.8	2.215	2.767	114.2	18.9	18.4	20.9
2001 01 21	02 34.16	+38 52.7	2.366	2.807	106.4	19.7	18.6	21.1
2001 01 31	02 44.51	+38 09.1	2.525	2.846	98.8	20.0	18.8	21.3
2001 02 10	02 56.45	+37 36.8	2.689	2.886	91.4	20.0	19.1	21.4
2001 02 20	03 09.68	+37 13.7	2.856	2.927	84.2	19.6	19.3	21.6
2001 03 02	03 23.95	+36 58.0	3.023	2.967	77.3	19.0	19.5	21.7
2001 03 12	03 39.05	+36 47.5	3.188	3.008	70.6	18.2	19.7	21.9
2001 03 22	03 54.80	+36 40.5	3.350	3.048	64.0	17.1	19.9	22.0
2001 04 01	04 11.07	+36 35.2	3.506	3.089	57.6	15.9	20.1	22.0
2001 04 11	04 27.70	+36 30.4	3.655	3.129	51.4	14.5	20.2	22.1
2001 04 21	04 44.58	+36 24.7	3.796	3.170	45.3	13.0	20.4	22.2
2001 05 01	05 01.61	+36 17.3	3.926	3.210	39.3	11.5	20.6	22.2
2001 05 11	05 18.68	+36 07.5	4.045	3.250	33.4	9.9	20.7	22.2

C/1998 G1 (LINEAR)

		Elements <i>MPC</i> 32168							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 16		23 56.11	−14 37.2	5.973	5.187	35.3	6.4		20.9
2000 04 26		23 59.34	−13 53.8	5.941	5.255	43.4	7.6		21.0
2000 05 06		00 01.97	−13 16.9	5.888	5.323	51.8	8.6		21.1
2000 05 16		00 03.89	−12 46.5	5.817	5.391	60.4	9.4		21.1
2000 05 26		00 04.98	−12 23.0	5.732	5.458	69.4	10.0		21.1
2000 06 05		00 05.12	−12 06.5	5.636	5.525	78.6	10.4		21.1
2000 06 15		00 04.21	−11 57.1	5.533	5.592	88.1	10.5		21.1
2000 06 25		00 02.14	−11 54.7	5.429	5.659	97.9	10.2		21.1
2000 07 05		23 58.86	−11 59.0	5.328	5.725	108.0	9.7		21.1
2000 07 15		23 54.31	−12 09.5	5.237	5.791	118.5	8.9		21.0
2000 07 25		23 48.53	−12 25.0	5.161	5.856	129.2	7.7		21.0
2000 08 04		23 41.61	−12 44.3	5.107	5.922	140.2	6.3		20.9
2000 08 14		23 33.72	−13 05.7	5.079	5.987	151.3	4.7		20.8
2000 08 24		23 25.15	−13 27.1	5.082	6.052	162.1	2.9		20.7
2000 09 03		23 16.20	−13 46.7	5.118	6.116	170.9	1.5		20.7
2000 09 13		23 07.28	−14 02.6	5.190	6.181	168.8	1.8		20.8
2000 09 23		22 58.74	−14 13.4	5.298	6.244	159.0	3.3		20.9
2000 10 03		22 50.91	−14 18.4	5.438	6.308	147.9	4.8		21.1
2000 10 13		22 44.07	−14 17.0	5.607	6.371	136.8	6.2		21.2
2000 10 23		22 38.39	−14 09.5	5.802	6.435	125.8	7.2		21.4
2000 11 02		22 33.96	−13 56.1	6.016	6.497	115.0	8.0		21.5
2000 11 12		22 30.78	−13 37.3	6.243	6.560	104.4	8.4		21.6
2000 11 22		22 28.82	−13 13.9	6.479	6.622	94.0	8.6		21.8

90P/Gehrels 1

		Elements <i>MPC</i> 34422							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 26		20 16.71	−29 55.5	5.365	5.567	96.4	10.4		22.5
2000 05 06		20 19.02	−30 06.1	5.174	5.528	105.4	10.1		22.4
2000 05 16		20 20.06	−30 21.0	4.989	5.490	114.7	9.6		22.3
2000 05 26		20 19.76	−30 39.6	4.816	5.451	124.2	8.8		22.2
2000 06 05		20 18.09	−31 01.4	4.659	5.412	133.9	7.8		22.1
2000 06 15		20 15.07	−31 25.0	4.521	5.373	143.7	6.4		21.9
2000 06 25		20 10.83	−31 49.0	4.406	5.334	153.4	4.9		21.8
2000 07 05		20 05.56	−32 11.5	4.317	5.295	162.3	3.3		21.6
2000 07 15		19 59.58	−32 30.5	4.257	5.255	168.0	2.3		21.5
2000 07 25		19 53.28	−32 44.4	4.225	5.215	165.7	2.8		21.5
2000 08 04		19 47.08	−32 52.2	4.223	5.176	157.7	4.3		21.6

2000 MAR. 20

M.P.C. 39661

2000 08 14	19 41.45	-32 53.2	4.247	5.136	148.1	6.0	21.7
2000 08 24	19 36.75	-32 47.5	4.297	5.096	138.2	7.6	21.7
2000 09 03	19 33.30	-32 35.9	4.368	5.055	128.2	9.0	21.8
2000 09 13	19 31.30	-32 19.1	4.457	5.015	118.4	10.2	21.9
2000 09 23	19 30.86	-31 58.1	4.558	4.974	108.9	11.0	22.0
2000 10 03	19 31.98	-31 33.6	4.669	4.934	99.5	11.5	22.0
2000 10 13	19 34.64	-31 06.3	4.783	4.893	90.4	11.8	22.1
2000 10 23	19 38.71	-30 36.6	4.897	4.852	81.6	11.7	22.1
2000 11 02	19 44.10	-30 04.6	5.008	4.811	72.9	11.4	22.1
2000 11 12	19 50.65	-29 30.5	5.112	4.770	64.5	10.8	22.1
2000 11 22	19 58.23	-28 54.3	5.206	4.729	56.3	10.0	22.1
2000 12 02	20 06.69	-28 15.7	5.287	4.688	48.2	9.0	22.1
2000 12 12	20 15.90	-27 34.9	5.353	4.646	40.3	7.9	22.0
2000 12 22	20 25.71	-26 51.7	5.403	4.605	32.6	6.6	22.0

C/1999 H1 (Lee)				Elements MPC 36212					
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 26		23 46.48	+02 07.8	4.965	4.223	38.4	8.5	16.7	
2000 05 06		23 49.70	+02 16.3	4.950	4.330	47.3	9.9	16.8	
2000 05 16		23 52.04	+02 19.6	4.916	4.437	56.4	10.9	16.9	
2000 05 26		23 53.37	+02 16.9	4.864	4.542	65.7	11.7	17.0	
2000 06 05		23 53.59	+02 07.1	4.799	4.646	75.3	12.2	17.1	
2000 06 15		23 52.58	+01 49.2	4.726	4.750	85.2	12.3	17.1	
2000 06 25		23 50.27	+01 22.5	4.649	4.852	95.4	12.0	17.2	
2000 07 05		23 46.59	+00 46.5	4.575	4.954	106.0	11.4	17.3	
2000 07 15		23 41.53	+00 00.9	4.511	5.054	117.0	10.3	17.3	
2000 07 25		23 35.16	−00 53.9	4.462	5.154	128.4	8.9	17.4	
2000 08 04		23 27.63	−01 56.8	4.435	5.253	140.1	7.1	17.4	
2000 08 14		23 19.19	−03 05.8	4.436	5.352	152.1	5.1	17.5	
2000 08 24		23 10.18	−04 18.5	4.469	5.449	164.2	2.9	17.6	
2000 09 03		23 00.98	−05 31.7	4.539	5.546	176.4	0.6	17.7	
2000 09 13		22 52.03	−06 42.3	4.645	5.642	171.3	1.6	17.8	
2000 09 23		22 43.70	−07 47.7	4.788	5.737	159.2	3.6	18.0	
2000 10 03		22 36.32	−08 45.7	4.965	5.832	147.3	5.3	18.1	
2000 10 13		22 30.12	−09 35.1	5.171	5.926	135.7	6.8	18.3	
2000 10 23		22 25.22	−10 15.3	5.401	6.019	124.4	7.8	18.5	
2000 11 02		22 21.66	−10 46.5	5.649	6.112	113.4	8.6	18.6	
2000 11 12		22 19.40	−11 09.0	5.910	6.204	102.7	9.0	18.8	
2000 11 22		22 18.37	−11 23.6	6.178	6.296	92.3	9.0	18.9	
2000 12 02		22 18.44	−11 31.3	6.446	6.387	82.2	8.8	19.1	
2000 12 12		22 19.48	−11 32.8	6.709	6.477	72.3	8.3	19.2	
2000 12 22		22 21.35	−11 29.2	6.962	6.567	62.5	7.6	19.4	
2001 01 01		22 23.91	−11 21.2	7.202	6.656	53.0	6.8	19.5	
2001 01 11		22 27.02	−11 09.7	7.423	6.745	43.6	5.8	19.6	
2001 01 21		22 30.56	−10 55.4	7.624	6.833	34.3	4.7	19.8	

C/1998 M1 (LINEAR)					Elements MPC 35553				
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 26		23 59.79	+18 40.6	6.642	5.822	32.8	5.4	19.8	
2000 05 06		00 06.52	+19 35.5	6.632	5.890	39.6	6.3	19.8	
2000 05 16		00 12.68	+20 29.4	6.605	5.959	46.8	7.1	19.9	
2000 05 26		00 18.19	+21 21.7	6.563	6.027	54.2	7.8	19.9	
2000 06 05		00 22.99	+22 11.8	6.507	6.096	61.9	8.4	19.9	
2000 06 15		00 26.99	+22 59.0	6.441	6.164	69.8	8.9	19.9	

2000 06 25	00 30.12	+23 42.6	6.366	6.233	77.9	9.2	20.0
2000 07 05	00 32.33	+24 21.8	6.287	6.301	86.2	9.3	20.0
2000 07 15	00 33.54	+24 55.7	6.205	6.369	94.7	9.2	20.0
2000 07 25	00 33.76	+25 23.4	6.126	6.438	103.4	8.8	20.0
2000 08 04	00 32.96	+25 44.0	6.054	6.506	112.3	8.3	20.0
2000 08 14	00 31.20	+25 56.6	5.991	6.575	121.3	7.6	20.1
2000 08 24	00 28.59	+26 00.6	5.944	6.643	130.3	6.7	20.1
2000 09 03	00 25.25	+25 55.5	5.915	6.711	139.2	5.6	20.1
2000 09 13	00 21.41	+25 41.4	5.909	6.780	147.5	4.6	20.2
2000 09 23	00 17.29	+25 18.9	5.929	6.848	154.5	3.6	20.2
2000 10 03	00 13.16	+24 49.1	5.976	6.916	158.4	3.1	20.3
2000 10 13	00 09.28	+24 13.6	6.052	6.984	157.5	3.1	20.4
2000 10 23	00 05.87	+23 34.4	6.157	7.052	152.2	3.8	20.4
2000 11 02	00 03.14	+22 53.7	6.289	7.120	144.4	4.6	20.5
2000 11 12	00 01.23	+22 13.6	6.447	7.188	135.6	5.5	20.6
2000 11 22	00 00.20	+21 36.1	6.626	7.255	126.3	6.3	20.7
2000 12 02	00 00.11	+21 02.7	6.824	7.323	116.9	6.9	20.8
2000 12 12	00 00.93	+20 34.7	7.036	7.391	107.4	7.3	20.9
2000 12 22	00 02.61	+20 12.6	7.256	7.458	98.1	7.5	21.0

P/1991 T1 (Shoemaker-Levy 5)					Elements MPC 29882				
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 26		00 24.71	−03 21.9	3.011	2.225	32.2	13.9	19.1	
2000 05 06		00 44.17	−00 54.0	2.918	2.188	36.3	15.8	18.9	
2000 05 16		01 03.80	+01 34.6	2.822	2.154	40.4	17.7	18.8	
2000 05 26		01 23.64	+04 03.0	2.725	2.123	44.4	19.5	18.6	
2000 06 05		01 43.68	+06 30.2	2.626	2.094	48.4	21.2	18.4	
2000 06 15		02 03.91	+08 55.1	2.526	2.068	52.3	22.9	18.2	
2000 06 25		02 24.32	+11 16.7	2.427	2.046	56.3	24.4	18.1	
2000 07 05		02 44.85	+13 34.0	2.327	2.027	60.4	25.8	17.9	
2000 07 15		03 05.43	+15 46.2	2.229	2.012	64.5	27.1	17.8	
2000 07 25		03 25.96	+17 52.6	2.131	2.000	68.7	28.2	17.7	
2000 08 04		03 46.28	+19 52.8	2.035	1.993	73.1	29.2	17.5	
2000 08 14		04 06.19	+21 46.7	1.940	1.989	77.8	29.8	17.4	
2000 08 24		04 25.47	+23 34.6	1.846	1.989	82.7	30.3	17.3	
2000 09 03		04 43.79	+25 17.4	1.755	1.993	88.0	30.4	17.2	
2000 09 13		05 00.78	+26 56.2	1.666	2.001	93.7	30.1	17.1	
2000 09 23		05 16.03	+28 32.6	1.581	2.013	99.9	29.4	17.1	
2000 10 03		05 29.03	+30 08.4	1.501	2.029	106.7	28.2	17.0	
2000 10 13		05 39.22	+31 45.1	1.427	2.048	114.1	26.4	16.9	
2000 10 23		05 46.08	+33 23.1	1.361	2.071	122.3	24.0	16.9	
2000 11 02		05 49.08	+35 01.2	1.307	2.097	131.1	20.9	16.9	
2000 11 12		05 47.98	+36 35.5	1.267	2.126	140.5	17.2	16.9	
2000 11 22		05 42.96	+37 59.7	1.245	2.157	150.0	13.3	17.0	
2000 12 02		05 34.80	+39 05.8	1.244	2.192	158.5	9.5	17.1	
2000 12 12		05 25.01	+39 47.6	1.268	2.228	163.2	7.3	17.2	
2000 12 22		05 15.43	+40 03.4	1.315	2.267	160.7	8.2	17.4	
2001 01 01		05 07.77	+39 56.5	1.388	2.308	153.2	11.1	17.7	
2001 01 11		05 03.20	+39 33.6	1.482	2.351	144.1	14.2	17.9	
2001 01 21		05 02.16	+39 02.1	1.596	2.395	134.9	16.9	18.2	
2001 01 31		05 04.63	+38 27.3	1.728	2.441	126.0	19.1	18.5	
2001 02 10		05 10.25	+37 52.8	1.873	2.488	117.5	20.6	18.8	
2001 02 20		05 18.53	+37 19.6	2.028	2.535	109.5	21.6	19.1	

2001 03 02	05 29.00	+36 48.0	2.192	2.584	101.8	22.0	19.4
2001 03 12	05 41.22	+36 17.2	2.362	2.634	94.5	22.1	19.7
2001 03 22	05 54.78	+35 46.2	2.535	2.684	87.6	21.8	20.0
2001 04 01	06 09.38	+35 14.1	2.710	2.735	80.8	21.1	20.2
2001 04 11	06 24.72	+34 40.0	2.884	2.786	74.3	20.3	20.5
2001 04 21	06 40.56	+34 03.0	3.056	2.838	68.0	19.2	20.7
2001 05 01	06 56.73	+33 22.7	3.225	2.890	61.9	17.9	21.0
2001 05 11	07 13.06	+32 38.9	3.388	2.942	55.8	16.5	21.2
2001 05 21	07 29.41	+31 51.3	3.544	2.994	49.9	15.0	21.4
2001 05 31	07 45.69	+31 00.0	3.693	3.046	44.0	13.4	21.6
2001 06 10	08 01.80	+30 05.2	3.832	3.098	38.2	11.7	21.8
2001 06 20	08 17.67	+29 07.1	3.960	3.150	32.5	10.0	22.0

C/1999 K8 (LINEAR)Elements *MPC* 36653

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 05 06	00 38.93	+13 55.1	5.018	4.201	32.5	7.4	14.7		
2000 05 16	00 49.61	+14 01.1	4.938	4.204	39.3	8.8	14.7		
2000 05 26	00 59.83	+14 02.8	4.845	4.209	46.3	10.0	14.7		
2000 06 05	01 09.49	+13 58.8	4.738	4.215	53.5	11.2	14.6		
2000 06 15	01 18.50	+13 48.1	4.620	4.223	61.0	12.1	14.6		
2000 06 25	01 26.77	+13 29.3	4.493	4.232	68.7	12.9	14.5		
2000 07 05	01 34.17	+13 01.4	4.359	4.243	76.7	13.5	14.5		
2000 07 15	01 40.58	+12 23.1	4.222	4.256	85.0	13.8	14.4		
2000 07 25	01 45.89	+11 33.3	4.083	4.270	93.6	13.7	14.4		
2000 08 04	01 49.97	+10 30.9	3.948	4.286	102.6	13.4	14.3		
2000 08 14	01 52.73	+09 15.3	3.820	4.303	112.0	12.6	14.2		
2000 08 24	01 54.10	+07 46.6	3.703	4.322	121.8	11.5	14.2		
2000 09 03	01 54.07	+06 05.2	3.603	4.342	131.9	10.0	14.2		
2000 09 13	01 52.70	+04 13.0	3.525	4.364	142.3	8.1	14.1		
2000 09 23	01 50.16	+02 13.1	3.472	4.388	152.6	6.0	14.1		
2000 10 03	01 46.67	+00 09.5	3.449	4.412	162.2	4.0	14.1		
2000 10 13	01 42.60	-01 52.6	3.458	4.438	167.9	2.7	14.2		
2000 10 23	01 38.34	-03 48.1	3.499	4.466	164.4	3.4	14.2		
2000 11 02	01 34.30	-05 32.4	3.573	4.495	155.5	5.3	14.3		
2000 11 12	01 30.87	-07 01.9	3.676	4.525	145.2	7.2	14.4		
2000 11 22	01 28.35	-08 15.0	3.805	4.556	134.8	8.8	14.5		
2000 12 02	01 26.96	-09 11.1	3.956	4.588	124.6	10.2	14.6		
2000 12 12	01 26.82	-09 51.1	4.124	4.622	114.7	11.2	14.7		
2000 12 22	01 27.96	-10 16.5	4.303	4.657	105.1	11.8	14.8		
2001 01 01	01 30.35	-10 29.4	4.489	4.692	95.9	12.0	15.0		
2001 01 11	01 33.91	-10 31.8	4.678	4.729	87.0	12.0	15.1		
2001 01 21	01 38.54	-10 26.1	4.865	4.767	78.5	11.7	15.2		
2001 01 31	01 44.12	-10 14.0	5.048	4.806	70.3	11.1	15.3		
2001 02 10	01 50.53	-09 57.6	5.222	4.846	62.5	10.4	15.4		
2001 02 20	01 57.66	-09 38.4	5.386	4.887	55.0	9.5	15.5		
2001 03 02	02 05.39	-09 17.9	5.537	4.929	48.0	8.6	15.6		
2001 03 12	02 13.63	-08 57.5	5.673	4.971	41.4	7.6	15.7		
2001 03 22	02 22.26	-08 38.3	5.794	5.015	35.4	6.6	15.8		
2001 04 01	02 31.21	-08 21.4	5.897	5.059	30.2	5.7	15.9		

P/1993 X1 (Kushida-Muramatsu)Elements *MPC* 31663

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 05 06	00 54.10	+03 43.8	4.119	3.306	31.9	9.3	19.0	21.8	
2000 05 16	01 06.74	+05 00.4	4.016	3.281	38.2	11.0	18.8	21.8	

2000 05 26	01 19.20	+06 13.9	3.902	3.257	44.5	12.6	18.7	21.8
2000 06 05	01 31.43	+07 23.7	3.777	3.233	50.8	14.1	18.6	21.7
2000 06 15	01 43.32	+08 29.2	3.643	3.209	57.2	15.4	18.4	21.7
2000 06 25	01 54.80	+09 29.8	3.502	3.185	63.7	16.6	18.3	21.6
2000 07 05	02 05.73	+10 24.9	3.354	3.161	70.4	17.6	18.1	21.5
2000 07 15	02 15.97	+11 14.0	3.201	3.138	77.3	18.4	18.0	21.5
2000 07 25	02 25.36	+11 56.5	3.046	3.116	84.4	18.9	17.8	21.4
2000 08 04	02 33.70	+12 31.9	2.889	3.093	91.9	19.1	17.6	21.2
2000 08 14	02 40.75	+12 59.6	2.734	3.071	99.7	19.0	17.4	21.1
2000 08 24	02 46.30	+13 19.2	2.584	3.050	107.9	18.4	17.2	20.9
2000 09 03	02 50.07	+13 30.2	2.440	3.029	116.6	17.3	17.1	20.8
2000 09 13	02 51.84	+13 32.3	2.306	3.008	125.9	15.7	16.9	20.6
2000 09 23	02 51.45	+13 25.4	2.187	2.988	135.7	13.6	16.7	20.4
2000 10 03	02 48.85	+13 09.8	2.085	2.969	146.2	10.8	16.5	20.1
2000 10 13	02 44.24	+12 46.7	2.005	2.950	157.2	7.5	16.4	19.9
2000 10 23	02 38.01	+12 18.1	1.951	2.932	168.5	3.9	16.3	19.6
2000 11 02	02 30.85	+11 47.0	1.924	2.915	177.0	1.0	16.2	19.4
2000 11 12	02 23.61	+11 17.5	1.925	2.898	167.1	4.4	16.2	19.6
2000 11 22	02 17.16	+10 53.9	1.954	2.882	155.6	8.1	16.1	19.8
2000 12 02	02 12.26	+10 39.4	2.008	2.867	144.3	11.6	16.2	20.0
2000 12 12	02 09.42	+10 36.8	2.084	2.853	133.5	14.5	16.2	20.2
2000 12 22	02 08.91	+10 46.6	2.178	2.839	123.3	16.8	16.3	20.4
2001 01 01	02 10.77	+11 08.8	2.285	2.827	113.6	18.6	16.3	20.5
2001 01 11	02 14.91	+11 42.3	2.401	2.815	104.6	19.8	16.4	20.6
2001 01 21	02 21.15	+12 25.1	2.523	2.804	96.1	20.4	16.5	20.8
2001 01 31	02 29.28	+13 15.7	2.648	2.795	88.1	20.6	16.5	20.9
2001 02 10	02 39.09	+14 11.9	2.773	2.786	80.5	20.4	16.6	21.0
2001 02 20	02 50.36	+15 11.9	2.895	2.778	73.3	19.9	16.7	21.0
2001 03 02	03 02.94	+16 13.9	3.014	2.771	66.5	19.1	16.7	21.1
2001 03 12	03 16.66	+17 16.2	3.127	2.765	59.9	18.1	16.8	21.1
2001 03 22	03 31.36	+18 17.2	3.233	2.761	53.6	16.9	16.9	21.2
2001 04 01	03 46.95	+19 15.6	3.332	2.757	47.5	15.5	16.9	21.2
2001 04 11	04 03.29	+20 10.0	3.422	2.754	41.6	14.0	17.0	21.2
2001 04 21	04 20.29	+20 59.4	3.503	2.753	35.9	12.4	17.0	21.2
2001 05 01	04 37.85	+21 42.7	3.575	2.753	30.3	10.6	17.1	21.1

24P/SchaumasseElements *MPC* 31663

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 05 06	01 13.05	-02 07.6	4.577	3.748	31.0	8.0	22.2		
2000 05 16	01 23.47	-01 08.6	4.432	3.683	37.6	9.6	22.2		
2000 05 26	01 33.85	-00 13.1	4.273	3.617	44.2	11.3	22.1		
2000 06 05	01 44.14	+00 38.3	4.101	3.549	50.9	12.8	22.1		
2000 06 15	01 54.25	+01 25.1	3.917	3.481	57.7	14.3	22.0		
2000 06 25	02 04.10	+02 06.6	3.723	3.412	64.5	15.6	21.9		
2000 07 05	02 13.58	+02 42.2	3.522	3.341	71.5	16.8	21.7		
2000 07 15	02 22.56	+03 11.1	3.315	3.270	78.6	17.7	21.6		
2000 07 25	02 30.88	+03 32.7	3.105	3.197	85.9	18.5	21.4		
2000 08 04	02 38.35	+03 46.2	2.894	3.124	93.5	18.9	21.2		
2000 08 14	02 44.73	+03 51.0	2.685	3.050	101.3	19.0	21.0		
2000 08 24	02 49.75	+03 46.3	2.480	2.974	109.5	18.7	20.8		
2000 09 03	02 53.10	+03 31.8	2.282	2.897	118.1	17.9	20.5		
2000 09 13	02 54.41	+03 07.3	2.095	2.820	127.3	16.5	20.2		
2000 09 23	02 53.36	+02 33.4	1.922	2.741	136.8	14.5	19.9		

2000 MAR. 20

M.P.C. 39663

2000 10 03	02 49.63	+01 51.3	1.767	2.662	146.8	11.9	19.6
2000 10 13	02 43.12	+01 04.4	1.634	2.581	156.7	8.8	19.2
2000 10 23	02 34.01	+00 17.5	1.527	2.500	164.6	6.1	18.9
2000 11 02	02 22.89	-00 22.8	1.446	2.417	164.7	6.2	18.7
2000 11 12	02 10.86	-00 48.8	1.393	2.334	156.5	9.7	18.7
2000 11 22	01 59.25	-00 54.0	1.367	2.251	145.4	14.4	18.8
2000 12 02	01 49.42	-00 34.3	1.362	2.167	134.0	19.1	18.8
2000 12 12	01 42.47	+00 11.6	1.375	2.082	123.0	23.4	18.9
2000 12 22	01 39.00	+01 22.3	1.399	1.997	112.7	27.0	17.7
2001 01 01	01 39.27	+02 55.4	1.430	1.913	103.3	30.0	17.1
2001 01 11	01 43.24	+04 48.1	1.462	1.829	94.8	32.4	16.5
2001 01 21	01 50.75	+06 57.5	1.492	1.747	87.2	34.2	15.8
2001 01 31	02 01.66	+09 21.4	1.517	1.666	80.4	35.7	15.2
2001 02 10	02 15.82	+11 57.3	1.536	1.587	74.4	36.8	14.5
2001 02 20	02 33.19	+14 42.7	1.548	1.512	69.2	37.7	13.7
2001 03 02	02 53.84	+17 34.5	1.552	1.442	64.7	38.4	13.0
2001 03 12	03 17.89	+20 28.7	1.550	1.378	61.0	39.1	12.3
2001 03 22	03 45.55	+23 19.5	1.543	1.321	58.0	39.8	11.7
2001 04 01	04 17.09	+25 59.7	1.532	1.274	55.8	40.4	11.1
2001 04 11	04 52.61	+28 19.6	1.520	1.238	54.2	41.0	10.7
2001 04 21	05 32.03	+30 07.5	1.510	1.215	53.3	41.5	10.4
2001 05 01	06 14.85	+31 11.5	1.505	1.205	52.9	41.8	10.2
2001 05 11	07 00.02	+31 20.9	1.509	1.210	53.0	41.8	10.3
2001 05 21	07 46.03	+30 30.2	1.524	1.229	53.5	41.4	10.5
2001 05 31	08 31.28	+28 40.7	1.553	1.261	54.0	40.6	11.0
2001 06 10	09 14.39	+26 00.8	1.598	1.304	54.5	39.3	11.6
2001 06 20	09 54.53	+22 43.3	1.661	1.358	54.8	37.7	12.3
2001 06 30	10 31.42	+19 02.5	1.740	1.420	54.7	35.8	13.0
2001 07 10	11 05.14	+15 11.6	1.835	1.488	54.1	33.6	13.9
2001 07 20	11 36.04	+11 20.7	1.944	1.562	53.1	31.3	14.7
2001 07 30	12 04.53	+07 36.8	2.066	1.639	51.5	29.0	15.6
2001 08 09	12 31.00	+04 04.6	2.198	1.719	49.4	26.6	16.4
2001 08 19	12 55.81	+00 46.4	2.337	1.802	46.8	24.2	17.3
2001 08 29	13 19.30	-02 16.6	2.481	1.885	43.7	21.7	18.1
2001 09 08	13 41.68	-05 04.3	2.627	1.969	40.3	19.3	18.9
2001 09 18	14 03.17	-07 36.9	2.773	2.054	36.4	16.9	19.7
2001 09 28	14 23.94	-09 55.0	2.918	2.138	32.3	14.5	20.3

OPPOSITION DATA

Planet	Opposition	α_{2000}	δ_{2000}	V	$\dot{\alpha}$	$\dot{\delta}$	ϕ_{MIN}	MPC
2000 DD ₂₉	2000 02 20.0	10 10.90	+11 49.6	18.3	-0.91	+ 4.0	0.2/19.8	39449
(13976)	2000 02 20.0	10 10.91	+17 25.7	17.9	-0.91	+ 8.4	2.0/18.1	39044
2564 P-L	2000 02 20.0	10 10.94	+15 20.9	18.1	-0.94	+ 4.6	1.4/18.9	39646
1998 ND	2000 02 20.0	10 10.95	-20 08.6	19.8	-1.09	+ 1.6	9.4/28.7	33755
1997 CZ ₂₁	2000 02 20.0	10 11.04	+14 42.7	17.2	-1.12	+ 4.8	1.6/19.1	39527
(13721)	2000 02 20.0	10 11.08	+02 33.7	17.4	-0.95	+ 6.6	3.6/22.6	38377
1998 SR ₇₄	2000 02 20.0	10 11.09	+24 30.5	17.1	-0.99	+ 4.1	4.9/16.3	39246
1998 SS ₆₇	2000 02 20.0	10 11.15	+19 58.7	17.9	-1.08	+ 6.4	3.1/17.6	39540
(13109)	2000 02 20.0	10 11.19	-01 34.8	16.5	-0.86	+ 5.1	5.9/23.9	37516
1992 ED ₁₄	2000 02 20.0	10 11.22	+06 07.1	17.3	-0.86	+ 6.8	1.5/21.6	39518
1998 QT ₃₇	2000 02 20.0	10 11.26	+08 03.2	19.5	-0.87	+ 7.1	0.9/21.0	39533
(13781)	2000 02 20.0	10 11.29	+10 47.8	18.7	-0.94	+ 5.1	0.1/20.2	38395

1998 MG ₁₆	2000 02 20.1	10 11.35	+11 14.7	19.7	-0.97	+ 6.4	0.0/20.1	39196
1998 UR ₂₄	2000 02 20.1	10 11.57	+14 12.8	19.3	-0.79	+ 4.6	0.8/19.3	39545
1998 VB ₂₀	2000 02 20.1	10 11.58	+24 20.1	18.3	-1.06	+ 5.5	4.6/16.4	39546
1996 BZ	2000 02 20.1	10 11.62	+17 23.8	16.9	-0.87	+ 8.7	2.7/18.2	39525
2000 AE ₆₈	2000 02 20.1	10 11.62	+21 08.9	16.8	-0.82	+ 8.3	3.7/16.9	39572
2000 DX ₉₄	2000 02 20.1	10 11.62	+16 57.4	17.8	-1.09	+ 2.2	2.3/18.7	39472
1998 QD ₉₈	2000 02 20.1	10 11.66	+13 30.6	18.6	-1.00	+ 7.4	0.8/19.5	39535
1998 SB ₁₂₂	2000 02 20.2	10 11.64	+09 46.0	18.4	-0.97	+ 4.6	0.5/20.6	39252
1998 SN ₅₃	2000 02 20.2	10 11.66	+12 16.1	18.5	-1.12	+ 3.9	0.4/19.9	39239
1997 QF	2000 02 20.2	10 11.66	+15 24.3	17.3	-0.78	+ 8.6	1.3/18.8	39529
1997 FW ₃	2000 02 20.2	10 11.73	+13 18.4	18.4	-1.08	+ 4.3	0.8/19.7	39527
(13996)	2000 02 20.2	10 11.84	+08 54.1	17.7	-1.01	+ 5.2	0.9/20.9	39050
1993 FH ₁₁	2000 02 20.2	10 11.86	+25 42.4	17.6	-1.12	+ 2.9	5.1/16.5	39519
1991 VM ₅	2000 02 20.2	10 11.88	+21 23.5	17.5	-1.03	+ 5.7	3.4/17.3	39517
2000 AW ₂₀₂	2000 02 20.2	10 11.92	+23 27.7	17.5	-1.03	+ 9.3	5.2/16.3	39581
1998 QA ₄₁	2000 02 20.2	10 12.01	+08 44.1	18.4	-1.02	+ 4.9	0.8/20.9	39204
2000 AQ ₂₀₇	2000 02 20.2	10 12.02	+12 36.3	17.9	-0.84	+ 8.2	0.6/19.8	39582
(10240)	2000 02 20.3	10 12.02	+09 11.9	16.9	-0.83	+ 4.9	0.6/20.9	38016
(12781)	2000 02 20.3	10 12.04	+10 53.8	17.6	-0.83	+ 4.9	0.1/20.4	37059
2000 CX ₄₈	2000 02 20.3	10 12.09	+07 26.9	17.2	-0.77	+10.0	1.2/21.6	39593
2621 P-L	2000 02 20.3	10 12.10	+21 13.9	19.7	-1.11	+ 3.9	3.6/17.6	33383
(10030)	2000 02 20.3	10 12.12	+11 42.4	18.5	-0.77	+ 4.1	0.1/20.2	33865
4820 P-L	2000 02 20.3	10 12.13	+23 16.9	18.3	-0.90	+ 2.7	3.8/16.9	21121
1998 RR ₆₈	2000 02 20.3	10 12.16	+11 49.0	19.3	-0.95	+ 4.8	0.2/20.1	39224
(14273)	2000 02 20.3	10 12.17	+27 35.8	17.3	-1.01	+ 5.0	5.8/15.6	39129
1981 EJ ₂₄	2000 02 20.3	10 12.25	+18 28.2	18.0	-1.05	+ 3.7	2.7/18.4	39141
2000 BV ₃	2000 02 20.3	10 12.31	+20 21.2	16.4	-0.84	+ 7.2	3.0/17.4	39584
1998 QC ₁₀₃	2000 02 20.3	10 12.37	+16 34.5	18.3	-0.94	+ 5.0	1.8/18.8	39213
2000 CE ₈₃	2000 02 20.3	10 12.39	+12 48.3	18.5	-0.80	+ 4.0	0.5/19.9	39418
1999 XY ₁₆₅	2000 02 20.3	10 12.41	+20 14.2	17.0	-0.92	+ 2.0	3.0/17.9	39564
2000 DO ₃₁	2000 02 20.3	10 12.48	+12 48.5	18.8	-1.03	+ 4.9	0.8/19.9	39450
2000 CF ₈₃	2000 02 20.4	10 12.42	+12 59.8	16.9	-0.81	+ 7.1	0.5/19.8	39418
5082 T-3	2000 02 20.4	10 12.46	+17 26.1	18.3	-1.00	+ 7.0	2.2/18.5	39649
2000 CR ₄₈	2000 02 20.4	10 12.52	+00 54.2	16.8	-1.00	+ 3.4	4.3/23.1	39593
2000 CT ₈₂	2000 02 20.4	10 12.55	+12 21.8	18.0	-0.95	+ 6.4	0.6/20.1	39417
2000 AJ ₁₄₃	2000 02 20.4	10 12.61	+04 11.3	17.2	-0.87	+ 3.9	3.2/22.4	39578
2000 CH ₈₃	2000 02 20.4	10 12.63	+12 08.5	18.0	-0.87	+ 4.0	0.3/20.2	39418
1998 TJ ₁₀	2000 02 20.4	10 12.75	+14 21.8	18.0	-0.83	+ 4.4	1.0/19.5	39543
2000 CE ₁	2000 02 20.4	10 12.78	+11 15.4	17.4	-0.94	+ 7.7	0.1/20.4	39367
1995 UX ₄₈	2000 02 20.4	10 12.84	+12 01.3	16.6	-1.04	+ 5.4	0.4/20.2	39524
1997 EQ ₃₂	2000 02 20.4	10 12.87	+17 57.4	19.2	-1.11	+ 4.0	2.4/18.7	39527
(14183)	2000 02 20.5	10 12.81	+06 14.6	17.2	-0.81	+ 3.4	1.4/21.9	39104
2000 AQ ₂₄₂	2000 02 20.5	10 12.85	+17 57.9	17.2	-1.07	+ 7.7	2.8/18.5	39583
1998 SJ ₂₆	2000 02 20.5	10 12.92	+35 21.9	16.9	-0.98	+ 2.1	8.0/13.5	39539
2000 AF ₂₂₇	2000 02 20.5	10 12.95	+09 41.5	16.9	-0.83	+ 3.2	0.4/20.9	39582
1992 EP ₁₀	2000 02 20.5	10 12.96	+05 57.5	17.0	-0.81	+11.5	1.8/22.3	39517
1998 TQ ₃₃	2000 02 20.5	10 13.03	+36 28.1	16.6	-1.08	+ 2.3	9.5/12.9	35721
1998 SX ₄₇	2000 02 20.5	10 13.04	+14 36.2	18.6	-0.93	+ 4.3	1.3/19.6	39539
(12705)	2000 02 20.5	10 13.07	+19 32.8	16.8	-0.97	+ 4.9	3.1/18.1	37039
1990 VW ₈	2000 02 20.5	10 13.09	-11 07.3	16.7	-0.84	+ 6.6	8.6/28.0	39515
1998 RG ₆₀	2000 02 20.5	10 13.20	+05 15.1	20.6	-0.90	+ 5.7	1.8/22.3	35715

1996 BU	2000 02 20.5	10 13.22 +00 43.8 17.7	-1.00 + 3.8	3.8/23.4	39525
2000 CD ₈₃	2000 02 20.5	10 13.27 +14 51.0 17.7	-1.08 + 3.1	1.5/19.6	39418
2000 AO ₉₆	2000 02 20.6	10 13.17 +11 53.2 17.2	-0.96 + 2.2	0.3/20.4	39573
2000 CT ₁₀₃	2000 02 20.6	10 13.19 -00 26.8 17.1	-0.74 + 6.6	3.6/24.3	39601
1998 RG ₇₉	2000 02 20.6	10 13.21 +16 48.7 19.0	-1.05 + 6.6	2.0/19.0	34302
1998 UE ₈	2000 02 20.6	10 13.28 +10 05.8 17.1	-0.77 + 4.9	0.3/20.9	39544
2000 DU ₃₀	2000 02 20.6	10 13.30 +07 10.5 18.7	-0.86 + 4.4	1.2/21.7	39449
1998 QD ₄₁	2000 02 20.6	10 13.34 +08 07.9 18.4	-0.95 + 7.1	1.1/21.5	39204
(9756)	2000 02 20.6	10 13.36 +07 20.7 16.9	-0.84 + 6.4	1.3/21.7	38749
(13388)	2000 02 20.6	10 13.53 -13 09.5 16.3	-0.90 + 3.8	8.4/28.0	37592
(14027)	2000 02 20.6	10 13.63 +05 54.5 18.7	-0.89 + 6.7	1.6/22.2	39058
2000 AG ₂₃₃	2000 02 20.7	10 13.57 +21 01.5 17.5	-0.99 + 7.3	4.1/17.7	39582
2000 CX ₈₃	2000 02 20.7	10 13.57 +11 48.7 16.2	-1.01 + 4.3	0.3/20.5	39419
2000 CD ₈₄	2000 02 20.7	10 13.61 +10 34.4 17.9	-0.91 + 4.1	0.1/20.8	39420
6871 P-L	2000 02 20.7	10 13.63 +12 35.4 18.3	-1.01 + 6.7	0.7/20.3	39647
2000 CU ₈₂	2000 02 20.7	10 13.72 +11 18.9 17.7	-0.86 + 4.4	0.1/20.6	39417
1998 RQ ₃₄	2000 02 20.7	10 13.79 +23 50.3 16.6	-1.17 - 0.3	6.0/17.8	39218
1998 VD ₁₄	2000 02 20.7	10 13.79 +08 03.7 16.2	-1.03 + 3.0	1.2/21.5	39274
2000 BW ₁₄	2000 02 20.7	10 13.82 +24 59.7 17.5	-0.84 + 5.4	4.0/16.4	39363
1997 GX ₃₅	2000 02 20.7	10 13.87 +06 56.3 18.1	-0.94 + 7.0	1.4/22.0	39528
1995 SQ ₅₃	2000 02 20.7	10 13.88 +24 52.4 17.4	-1.14 + 3.3	5.7/17.2	39166
1998 RN ₂₂	2000 02 20.7	10 13.91 +08 41.9 17.3	-0.91 + 6.7	0.8/21.5	39536
1998 QZ ₉₉	2000 02 20.7	10 13.93 +16 43.3 18.3	-0.99 + 5.2	2.0/19.2	39211
1998 UQ ₁₈	2000 02 20.7	10 13.98 +28 36.1 16.9	-0.90 + 4.0	5.4/15.4	39269
(14026)	2000 02 20.7	10 13.99 +10 24.1 18.0	-0.97 + 6.5	0.2/20.9	39058
1998 SO ₁₄₂	2000 02 20.7	10 14.03 +22 48.7 19.2	-1.02 + 5.0	4.0/17.4	39542
2000 CL ₈₃	2000 02 20.8	10 14.00 +14 30.7 17.9	-0.99 + 7.2	1.4/19.8	39419
1988 VN ₇	2000 02 20.8	10 14.04 +25 36.4 18.4	-1.11 + 5.1	5.6/16.7	39514
1998 SX ₁₂	2000 02 20.8	10 14.09 +12 31.4 16.9	-0.82 +15.0	0.5/20.3	39538
1998 WL ₂₃	2000 02 20.8	10 14.15 +09 35.2 17.5	-0.83 + 4.6	0.4/21.2	39548
1998 RU ₆₁	2000 02 20.8	10 14.15 +11 47.8 16.6	-1.05 + 3.5	0.4/20.6	39537
2000 CE ₄₉	2000 02 20.8	10 14.22 +08 10.9 17.7	-0.99 + 6.0	1.0/21.6	39394
1998 SD ₄₉	2000 02 20.8	10 14.25 +09 14.3 19.3	-0.95 + 6.3	0.6/21.4	39539
(14082)	2000 02 20.9	10 14.34 +07 47.6 17.8	-1.02 + 6.7	1.3/21.8	39074
2000 AN ₂₄₂	2000 02 20.9	10 14.37 +18 30.8 17.3	-1.02 + 1.4	2.5/19.0	39583
1999 XQ ₃₈	2000 02 20.9	10 14.38 +26 52.2 16.7	-1.00 + 5.3	6.1/16.3	39559
1991 RW ₁₇	2000 02 20.9	10 14.40 +06 56.3 17.2	-0.99 + 6.6	1.5/22.1	39516
1995 UR	2000 02 20.9	10 14.41 -23 02.1 16.8	-1.47 - 6.7	15.2/27.9	38765
2000 DL ₂₉	2000 02 20.9	10 14.44 +11 39.8 18.9	-1.02 + 5.7	0.3/20.7	39449
1998 SL ₁₆₄	2000 02 20.9	10 14.46 +18 26.2 20.9	-0.91 + 5.0	2.1/18.8	34593
1993 FX ₃	2000 02 20.9	10 14.47 +03 22.0 17.2	-0.97 + 7.5	3.2/23.1	39519
1995 WK ₅	2000 02 20.9	10 14.50 +16 47.5 17.7	-1.05 + 5.1	2.2/19.3	39524
(13622)	2000 02 20.9	10 14.58 +12 55.2 17.2	-0.77 + 5.4	0.7/20.3	38349
2000 CQ ₁₀₂	2000 02 20.9	10 14.61 +09 22.3 17.0	-0.88 + 4.0	0.6/21.4	39434
1993 FE ₂₂	2000 02 20.9	10 14.78 +09 02.7 18.7	-0.98 + 5.6	0.7/21.5	39519
1998 XE ₁₇	2000 02 21.0	10 14.75 +08 56.0 16.8	-0.75 + 5.3	0.6/21.6	39548
1998 SM ₉	2000 02 21.0	10 14.84 +00 19.2 18.2	-0.82 + 6.9	3.4/24.3	35716
1997 PE ₃	2000 02 21.0	10 14.87 +13 37.0 17.0	-1.05 + 1.2	1.1/20.4	39529
(10063)	2000 02 21.0	10 14.91 +12 47.8 18.2	-0.64 + 4.1	0.5/20.4	33873
(13978)	2000 02 21.0	10 14.95 -00 22.3 16.6	-0.82 + 8.9	4.1/24.7	39045
1998 QZ ₇₆	2000 02 21.0	10 14.97 -03 46.9 19.6	-0.84 + 7.7	4.5/25.8	34591

1998 QB ₁₄	2000 02 21.0	10 15.14 +06 08.1 18.6	-0.93 + 7.2	1.6/22.5	39532
1996 GG ₁₈	2000 02 21.0	10 15.16 +04 07.1 17.4	-0.83 + 5.5	2.3/23.1	39526
1998 RR ₆₉	2000 02 21.1	10 15.09 +10 21.2 19.2	-0.96 + 6.4	0.2/21.2	39225
1986 QU	2000 02 21.1	10 15.12 +14 32.6 18.5	-0.78 + 3.8	1.0/20.0	39513
2000 CK ₈₃	2000 02 21.1	10 15.14 +15 50.0 17.5	-0.84 + 9.5	1.6/19.5	39598
1995 WY ₇	2000 02 21.1	10 15.20 +12 57.8 18.1	-1.08 + 4.4	0.7/20.6	39524
1998 SN ₁₃₈	2000 02 21.1	10 15.24 +15 56.7 17.2	-0.86 + 3.2	1.9/19.7	39542
(13093)	2000 02 21.1	10 15.29 -01 47.7 16.6	-0.75 + 6.3	4.0/25.1	37512
2000 DE ₉₅	2000 02 21.1	10 15.32 +15 41.7 18.0	-0.87 + 2.5	1.4/19.8	39473
2000 CB ₈₄	2000 02 21.1	10 15.47 +12 39.2 16.6	-0.93 + 9.5	0.8/20.6	39420
2000 CH ₂	2000 02 21.1	10 15.49 +17 02.3 17.5	-1.17 + 2.3	2.5/19.7	39588
2000 CA ₃₃	2000 02 21.1	10 15.54 +10 00.2 18.2	-0.96 + 6.8	0.3/21.4	39383
2000 CY ₃₂	2000 02 21.2	10 15.52 +08 19.0 18.1	-0.87 + 3.8	0.8/21.9	39383
2000 EG ₁₂	2000 02 21.2	10 15.54 +23 12.9 18.1	-0.81 + 6.1	3.5/17.3	39483
2000 CS ₁₀₃	2000 02 21.2	10 15.57 -03 32.9 17.1	-0.80 + 3.7	4.6/25.4	39435
(13799)	2000 02 21.2	10 15.62 +09 54.4 18.4	-0.84 + 4.4	0.3/21.5	38400
1987 QX ₇	2000 02 21.2	10 15.64 +10 47.7 17.8	-0.79 + 5.7	0.0/21.2	39513
2000 CC ₃₃	2000 02 21.2	10 15.73 +09 33.1 18.3	-1.03 + 6.2	0.6/21.6	39384
1998 VZ ₁	2000 02 21.2	10 15.75 +09 47.7 19.0	-0.89 + 4.8	0.3/21.5	39272
(14148)	2000 02 21.2	10 15.76 +12 39.3 17.6	-0.95 + 6.0	0.8/20.7	39093
1992 WX ₁	2000 02 21.2	10 15.80 +06 32.6 17.5	-1.08 + 5.1	1.7/22.4	39518
1998 UB ₂₆	2000 02 21.2	10 15.83 +22 53.5 17.9	-1.03 + 6.3	4.3/17.7	39271
1998 UM ₂₁	2000 02 21.2	10 15.83 -08 01.0 19.5	-0.86 + 6.6	5.9/27.3	39270
1998 UW ₁₈	2000 02 21.2	10 15.89 +19 15.2 17.7	-0.82 + 3.8	2.5/18.8	39544
2000 CB ₃₃	2000 02 21.2	10 15.93 +10 48.9 17.6	-0.97 + 8.5	0.0/21.3	39383
(13513)	2000 02 21.3	10 15.88 +00 51.9 17.7	-0.95 + 6.8	4.3/24.2	38319
2000 AZ ₁₄₄	2000 02 21.3	10 15.97 +01 22.3 17.7	-1.00 + 2.3	3.7/23.7	39579
(14229)	2000 02 21.3	10 16.00 +14 52.3 17.0	-1.05 + 4.6	1.4/20.2	39116
2000 BA ₁₅	2000 02 21.3	10 16.06 +25 23.4 16.8	-1.06 + 3.7	6.6/17.3	39585
2000 CL ₇₂	2000 02 21.3	10 16.15 +11 46.0 17.0	-1.11 + 4.1	0.4/21.1	39409
2000 CP ₈₃	2000 02 21.3	10 16.18 +14 53.5 17.1	-1.09 + 2.8	1.8/20.3	39419
(14152)	2000 02 21.3	10 16.28 +22 18.4 18.6	-1.08 + 4.8	4.0/18.2	39095
1981 DH ₃	2000 02 21.3	10 16.32 -04 01.4 18.8	-0.90 + 5.3	4.6/25.7	26914
2000 CK ₄₉	2000 02 21.3	10 16.32 +04 31.7 17.3	-0.95 + 7.6	2.5/23.2	39395
1998 WD ₁	2000 02 21.4	10 16.24 +21 30.1 17.9	-0.74 + 8.3	2.9/17.8	39277
2000 AJ ₂₁₂	2000 02 21.4	10 16.26 +08 52.4 18.5	-1.08 + 4.3	0.6/21.9	39582
(13479)	2000 02 21.4	10 16.26 +21 22.2 18.0	-1.03 + 6.3	3.6/18.3	38310
1997 GB ₃₆	2000 02 21.4	10 16.26 +25 53.4 17.2	-1.02 + 5.1	7.2/16.9	39528
1998 UX ₁₉	2000 02 21.4	10 16.34 +10 58.1 17.4	-0.79 + 4.5	0.1/21.4	39544
(14129)	2000 02 21.4	10 16.38 +01 03.4 17.8	-0.94 + 7.1	3.5/24.4	39088
1998 VG ₂	2000 02 21.4	10 16.55 +14 28.8 19.5	-1.02 + 5.0	1.2/20.4	39545
1998 QN ₅₁	2000 02 21.4	10 16.56 +07 30.7 17.0	-1.08 + 4.5	1.4/22.3	39534
2000 CH ₄₁	2000 02 21.4	10 16.57 +11 57.0 18.2	-1.12 + 5.0	0.5/21.1	39392
2000 DE ₃₃	2000 02 21.4	10 16.58 +07 58.9 18.3	-0.95 + 6.5	1.2/22.3	39450
2000 EO ₁₇	2000 02 21.4	10 16.67 +22 44.7 17.8	-1.12 + 3.0	5.1/18.4	39485
1998 SC ₁₁₈	2000 02 21.4	10 16.68 +08 38.3 19.9	-0.97 + 5.5	0.7/22.1	38792
2000 CR ₈₃	2000 02 21.4	10 16.72 +15 01.3 17.1	-1.09 + 5.1	1.6/20.3	39419
2000 AO ₂₂₇	2000 02 21.5	10 16.69 +09 59.3 18.2	-0.89 + 3.7	0.2/21.7	39582
1998 SS ₃₇	2000 02 21.5	10 16.71 +05 04.6 18.7	-1.02 + 6.3	2.1/23.1	39539
(14103)	2000 02 21.5	10 16.75 +13 15.8 17.6	-0.83 + 4.3	0.8/20.8	39080
2000 EV ₃₁	2000 02 21.5	10 16.77 +11 23.0 18.3	-0.85 + 2.6	0.2/21.3	39489

2000 MAR. 20

M.P.C. 39665

1998 SB₄₉ 2000 02 21.5 10 16.77 +08 50.2 18.5 -0.95 + 6.7 0.7/22.1 39238
 2000 ES₈₄ 2000 02 21.5 10 16.78 -00 08.8 16.7 -0.90 + 7.6 4.9/24.9 39493
 1995 EN₈ 2000 02 21.5 10 16.83 +27 57.2 16.5 -1.21 - 3.4 6.8/17.9 39165
 2000 CB₃₆ 2000 02 21.5 10 16.88 +05 17.0 15.9 -0.93 + 3.6 2.3/23.0 39591
 1998 ST₁₃₅ 2000 02 21.5 10 16.96 +07 38.6 18.1 -0.94 + 7.8 1.0/22.5 39254
 (9858) 2000 02 21.5 10 16.96 +13 10.2 18.0 -0.74 + 4.5 0.6/20.8 33459
 1998 VG₃₁ 2000 02 21.5 10 16.98 +16 53.9 18.1 -0.96 + 3.6 2.0/19.9 39546
 (14094) 2000 02 21.5 10 17.00 +14 39.6 18.5 -0.82 + 5.1 1.2/20.4 39077
 2000 DA₈₆ 2000 02 21.5 10 17.03 +20 15.9 18.1 -1.03 + 4.4 3.3/18.9 39470
 (13967) 2000 02 21.5 10 17.06 +09 09.1 17.6 -0.98 + 7.6 0.5/22.0 39042
 2000 CR₁₀₂ 2000 02 21.5 10 17.06 +06 48.1 17.7 -0.91 + 6.5 1.4/22.7 39434
 1997 LT₅ 2000 02 21.5 10 17.07 -05 22.3 17.7 -0.82 +10.6 6.8/27.3 39180
 (13686) 2000 02 21.6 10 17.09 +09 17.3 18.4 -0.75 + 4.4 0.3/22.0 38367
 2000 AG₂₁₂ 2000 02 21.6 10 17.17 +09 37.4 18.5 -0.88 + 4.6 0.3/21.9 39582
 1993 PY₃ 2000 02 21.6 10 17.43 +08 39.3 16.8 -0.84 + 8.9 0.6/22.3 39157
 (13674) 2000 02 21.7 10 17.54 +22 39.8 17.3 -0.97 + 7.3 4.8/18.0 38364
 2000 CG₅₅ 2000 02 21.7 10 17.56 +18 32.6 17.9 -0.82 + 3.4 2.3/19.5 39594
 2000 CQ₈₃ 2000 02 21.7 10 17.58 +15 29.1 17.6 -0.96 + 2.9 1.8/20.4 39419
 1995 UF₄ 2000 02 21.7 10 17.62 +17 43.9 18.3 -1.11 + 4.9 2.5/19.8 39166
 (13710) 2000 02 21.7 10 17.67 +08 20.6 17.1 -1.10 + 3.4 0.9/22.3 38374
 1994 RH₉ 2000 02 21.7 10 17.73 +16 28.9 19.0 -1.01 + 3.6 1.7/20.2 39522
 1990 QN₇ 2000 02 21.7 10 17.76 +15 03.1 17.0 -1.03 + 5.4 1.7/20.5 39515
 2000 AM₉₆ 2000 02 21.7 10 17.81 +19 41.3 17.0 -0.83 +10.9 3.1/18.6 39573
 2000 CE₈₃ 2000 02 21.8 10 17.77 +09 37.5 17.9 -0.96 + 7.0 0.4/22.1 39384
 2000 CY₃₈ 2000 02 21.8 10 17.84 +17 21.7 17.7 -1.13 - 1.1 3.0/20.3 39390
 2000 CU 2000 02 21.8 10 18.00 +08 30.9 16.6 -0.89 + 8.8 0.9/22.5 39587
 1997 SK₁₀ 2000 02 21.8 10 18.07 +07 52.6 18.6 -0.75 + 4.6 0.7/22.7 39184
 2000 AN₄ 2000 02 21.8 10 18.15 +16 28.4 17.9 -0.80 +11.7 2.2/19.8 39567
 2000 AD₂₁₂ 2000 02 21.8 10 18.18 +12 27.9 17.5 -0.95 + 9.4 0.7/21.3 39582
 2000 CF₄₉ 2000 02 21.8 10 18.20 +08 42.2 17.2 -0.73 + 7.2 0.5/22.5 39395
 2000 CN₄₉ 2000 02 21.9 10 18.17 +03 51.5 16.9 -0.87 + 4.4 2.5/23.8 39395
 1994 PO₂₂ 2000 02 21.9 10 18.18 +13 16.0 17.9 -1.04 + 3.7 0.9/21.2 39521
 2000 DJ₃₃ 2000 02 21.9 10 18.19 +08 43.6 17.7 -1.05 + 4.8 0.6/22.4 39450
 1996 JT₇ 2000 02 21.9 10 18.22 +22 04.2 18.8 -0.82 + 4.7 3.2/18.4 39526
 1998 WF₁₁ 2000 02 21.9 10 18.22 +12 52.6 17.7 -0.82 + 5.5 0.7/21.2 39547
 (13591) 2000 02 21.9 10 18.23 +03 48.2 16.7 -0.86 + 1.5 2.0/23.7 38340
 1993 BB 2000 02 21.9 10 18.24 +12 10.7 16.6 -0.87 + 9.7 0.7/21.4 39518
 1998 SZ₅₃ 2000 02 21.9 10 18.25 +09 15.7 17.5 -1.03 + 4.3 0.5/22.3 39539
 1998 SR₁₃₆ 2000 02 21.9 10 18.31 +17 20.1 18.1 -1.00 + 6.2 2.3/20.0 39255
 2000 CC₃₉ 2000 02 21.9 10 18.32 +19 11.0 17.7 -0.97 + 2.9 3.9/19.6 39592
 2000 EP₁₇ 2000 02 21.9 10 18.33 +22 05.6 17.5 -1.10 + 2.3 4.9/19.0 39485
 1997 RP₁₀ 2000 02 21.9 10 18.37 +08 34.4 16.9 -0.82 + 9.4 0.6/22.6 39183
 2000 AV₂₃₉ 2000 02 21.9 10 18.51 +03 55.5 16.9 -0.90 + 3.8 2.1/23.8 39359
 1998 SZ₆₄ 2000 02 21.9 10 18.61 +13 47.9 16.7 -0.99 + 7.9 1.3/21.0 39540
 1998 VN₅ 2000 02 21.9 10 18.62 +23 45.5 17.7 -0.88 + 2.5 3.8/18.3 39545
 (14114) 2000 02 21.9 10 18.62 +11 37.9 18.4 -0.96 + 6.8 0.4/21.7 39083
 1998 UW₁ 2000 02 22.0 10 18.59 +26 18.8 17.2 -0.89 + 6.7 4.5/17.0 35721
 1997 RM₁ 2000 02 22.0 10 18.74 +14 45.2 18.6 -1.04 + 4.7 1.4/20.9 39183
 (14024) 2000 02 22.0 10 18.76 +11 11.9 18.9 -0.97 + 4.7 0.2/21.9 39057
 1998 SN₁₃₃ 2000 02 22.0 10 18.82 +04 00.4 18.0 -0.78 + 5.5 2.1/24.1 39542
 1998 SR₆₅ 2000 02 22.0 10 18.89 +14 07.5 18.4 -0.94 + 5.8 1.2/21.0 35718

2000 CQ₆₀ 2000 02 22.1 10 18.95 +00 09.6 17.5 -0.80 + 3.1 3.1/25.1 39402
 2000 BJ₁₄ 2000 02 22.1 10 18.97 +19 09.0 16.9 -0.91 + 2.1 2.5/19.7 39585
 (13930) 2000 02 22.1 10 19.01 +18 15.8 17.9 -1.08 + 5.2 2.7/20.0 39032
 (13815) 2000 02 22.1 10 19.02 -06 41.9 18.0 -0.70 + 4.3 4.1/27.5 38404
 1998 RU₆₇ 2000 02 22.1 10 19.07 +06 56.8 18.5 -1.03 + 5.8 1.2/23.1 39224
 1998 UL₁₉ 2000 02 22.1 10 19.07 +36 11.4 20.2 -1.06 + 2.5 7.1/14.8 38795
 2000 AC₂₄₃ 2000 02 22.1 10 19.09 -01 35.9 16.6 -0.74 + 7.1 5.1/26.1 39583
 1998 RN₆ 2000 02 22.1 10 19.09 +02 17.7 19.1 -0.97 + 7.6 2.9/24.6 39215
 1998 SN₇₅ 2000 02 22.1 10 19.13 +12 07.6 19.1 -0.95 + 6.3 0.5/21.7 39247
 (13047) 2000 02 22.1 10 19.16 +05 39.1 16.8 -0.94 + 4.8 1.9/23.5 37499
 6645 P-L 2000 02 22.1 10 19.22 +21 52.5 20.1 -1.06 + 3.5 3.7/19.1 33384
 2281 T-3 2000 02 22.1 10 19.22 +02 46.1 18.5 -0.90 + 5.7 2.8/24.4 39506
 1998 RG₇₅ 2000 02 22.1 10 19.34 -00 34.4 16.4 -0.78 +10.4 4.1/26.0 39537
 2000 CW₇₇ 2000 02 22.2 10 19.31 +08 00.8 17.7 -1.05 + 2.7 1.0/22.8 39413
 2000 BL₁₄ 2000 02 22.2 10 19.31 +22 28.8 17.6 -0.99 + 6.5 4.8/18.6 39362
 1998 TT₆ 2000 02 22.2 10 19.39 +23 06.2 17.1 -1.04 + 5.3 4.6/18.5 39261
 1998 SB₆₇ 2000 02 22.2 10 19.41 +17 11.4 18.6 -0.93 + 5.5 2.2/20.2 39244
 2000 CV₇₇ 2000 02 22.2 10 19.54 +08 27.5 18.5 -1.02 + 4.7 0.7/22.8 39413
 (13926) 2000 02 22.2 10 19.59 +12 27.8 18.5 -0.96 + 4.5 0.6/21.7 39031
 1998 SU₄₀ 2000 02 22.2 10 19.72 +07 59.5 18.1 -0.95 + 5.5 0.9/23.0 39539
 2000 BZ₁₄ 2000 02 22.2 10 19.75 +24 56.1 18.1 -0.80 + 2.8 3.9/18.0 39363
 1998 SS₈₃ 2000 02 22.2 10 19.75 +08 40.6 19.2 -0.93 + 5.5 0.6/22.8 39248
 1998 SJ₅₈ 2000 02 22.3 10 19.70 +12 50.1 16.2 -0.97 + 4.7 1.1/21.6 39241
 1998 WM₁₀ 2000 02 22.3 10 19.77 +12 59.2 17.6 -0.79 + 5.6 0.8/21.5 39547
 1998 RN₆₁ 2000 02 22.3 10 19.79 +07 52.5 18.0 -0.93 + 5.0 0.9/23.0 39222
 2000 AK₂₁₂ 2000 02 22.3 10 19.83 +07 57.7 18.2 -1.08 + 3.2 0.9/23.0 39582
 2000 DH₁₀₃ 2000 02 22.3 10 19.85 +12 39.0 18.4 -0.86 + 5.1 0.8/21.7 39477
 1998 WJ₂ 2000 02 22.3 10 19.87 -03 57.2 18.0 -0.82 + 2.5 4.5/26.4 39278
 2000 BE₁₄ 2000 02 22.3 10 19.97 +19 58.1 17.1 -0.85 +11.1 3.5/19.0 39585
 2000 DD₈₆ 2000 02 22.3 10 20.06 +20 34.8 18.0 -1.05 + 2.9 4.2/19.6 39471
 1998 SF₂ 2000 02 22.3 10 20.15 +16 58.3 19.1 -1.05 + 7.1 2.3/20.5 39230
 1991 PS₁₄ 2000 02 22.4 10 20.09 +13 06.3 18.6 -1.08 + 4.7 1.0/21.7 39147
 2000 CB₈₅ 2000 02 22.4 10 20.20 +13 11.2 16.8 -1.09 + 4.1 1.2/21.7 39421
 2000 CD₇₅ 2000 02 22.4 10 20.31 +22 29.4 17.6 -0.92 + 2.7 3.8/19.1 39596
 1997 OL₂ 2000 02 22.4 10 20.37 +07 31.7 18.2 -0.78 + 4.0 0.8/23.3 39529
 (14141) 2000 02 22.4 10 20.43 +16 40.0 18.3 -1.00 + 6.3 2.1/20.6 39091
 2000 CB₅₀ 2000 02 22.4 10 20.51 +00 16.1 17.4 -0.99 + 0.4 3.6/24.9 39593
 1998 TT₅ 2000 02 22.5 10 20.50 +31 05.9 16.2 -0.87 + 3.8 7.4/15.9 39543
 2000 AO₂₃₇ 2000 02 22.5 10 20.56 +09 44.7 16.0 -1.10 + 0.2 0.2/22.7 39583
 1998 QW₂₃ 2000 02 22.5 10 20.59 +05 55.7 16.6 -0.88 +10.8 1.9/24.0 39532
 1998 TN₃₁ 2000 02 22.5 10 20.60 -04 46.3 17.3 -0.81 + 8.3 5.9/27.6 39263
 3491 T-3 2000 02 22.5 10 20.65 +13 48.0 18.0 -1.00 + 4.7 1.5/21.6 39507
 2000 DU₁₀₈ 2000 02 22.5 10 20.69 +17 45.0 17.7 -0.81 + 3.9 2.0/20.3 39480
 1995 WH₅ 2000 02 22.5 10 20.87 +03 08.5 18.1 -1.00 + 5.3 2.8/24.6 39524
 2000 CS₆₀ 2000 02 22.5 10 20.90 -00 03.2 17.1 -0.98 + 5.0 3.8/25.5 39403
 1998 SL₇₂ 2000 02 22.6 10 20.85 +09 59.9 16.3 -0.84 + 6.9 0.1/22.7 39246
 2000 CY₈₄ 2000 02 22.6 10 20.87 +14 38.8 16.7 -0.96 + 0.1 1.6/21.6 39421
 1998 SM₃₇ 2000 02 22.6 10 20.94 +10 53.9 19.0 -0.93 + 4.3 0.2/22.5 39236
 1998 TZ₁ 2000 02 22.6 10 20.94 +03 46.1 17.2 -0.82 + 9.7 2.3/24.8 39543
 2000 CA₅₀ 2000 02 22.6 10 20.95 +01 59.6 18.0 -0.85 + 4.8 2.7/25.1 39395
 (14145) 2000 02 22.6 10 20.99 +10 16.9 18.5 -0.94 + 6.8 0.0/22.6 39092

1998 VU ₃	2000 02 22.6	10 21.00 +14 27.3 17.8	-0.83 + 4.6	1.5/21.4	39273	1997 NB ₁	2000 02 23.1	10 23.03 +14 27.2 17.5	-1.02 + 5.4	1.7/21.9	39529
1998 TV ₁₃	2000 02 22.6	10 21.04 +07 52.3 19.0	-0.90 + 5.6	0.8/23.4	39262	2000 BN ₁₄	2000 02 23.1	10 23.03 +19 47.8 17.3	-0.88 + 9.2	3.4/20.0	39585
1998 UX ₁₈	2000 02 22.6	10 21.05 +14 33.6 17.3	-0.86 + 4.4	1.4/21.4	39544	1997 OG ₁	2000 02 23.1	10 23.07 -20 08.5 18.5	-1.47 -11.0	14.8/25.0	39529
2000 AR ₂₃₆	2000 02 22.6	10 21.09 -02 12.8 17.3	-0.89 + 0.6	3.5/25.8	39358	(13761)	2000 02 23.1	10 23.07 +08 54.1 16.2	-0.90 + 6.9	0.5/23.5	38389
1992 EK ₁₄	2000 02 22.6	10 21.21 +10 34.1 17.8	-0.93 + 4.4	0.1/22.6	39518	2000 CL ₈₄	2000 02 23.1	10 23.16 +11 12.7 17.8	-0.90 + 4.3	0.4/22.9	39420
1998 WE ₅	2000 02 22.6	10 21.21 +10 33.3 18.2	-0.72 + 7.6	0.1/22.6	39547	2000 CZ ₉₃	2000 02 23.1	10 23.16 +11 16.0 17.8	-0.89 + 9.0	0.5/22.8	39430
2000 DR ₉₅	2000 02 22.6	10 21.30 +15 54.0 18.2	-1.09 + 1.0	2.6/21.3	39473	2000 AQ ₂₃₆	2000 02 23.2	10 23.15 -03 19.9 17.7	-0.87 + 1.0	4.0/26.7	39583
(13499)	2000 02 22.7	10 21.21 +10 39.6 18.8	-0.73 + 4.5	0.1/22.6	38316	1999 XB ₃₅	2000 02 23.2	10 23.16 +20 22.5 17.1	-0.75 + 7.6	2.9/19.7	39559
2000 AT ₂₂₇	2000 02 22.7	10 21.22 +08 45.2 18.4	-1.02 + 2.4	0.7/23.1	39582	2000 AP ₉₆	2000 02 23.2	10 23.18 +16 53.1 16.6	-0.94 + 9.5	2.8/21.0	39573
(14092)	2000 02 22.7	10 21.26 +08 12.0 18.2	-0.87 + 5.1	0.7/23.3	39077	2000 EO ₁₈	2000 02 23.2	10 23.20 +14 45.4 18.2	-0.93 + 5.4	1.8/21.8	39486
1982 RK ₁	2000 02 22.7	10 21.33 +05 56.8 17.0	-0.97 + 4.2	1.5/23.9	39512	2000 CT ₆₅	2000 02 23.2	10 23.21 +11 10.5 17.8	-0.83 + 5.9	0.4/22.9	39407
2000 CM ₆₅	2000 02 22.7	10 21.34 +09 53.9 17.6	-0.81 + 4.4	0.1/22.8	39407	1995 BS ₁₁	2000 02 23.2	10 23.25 +11 57.0 17.9	-0.84 + 4.3	0.6/22.7	39523
1997 SL ₁₆	2000 02 22.7	10 21.41 +08 29.1 19.0	-0.81 + 4.6	0.5/23.3	39185	1994 PH	2000 02 23.2	10 23.29 +12 38.2 18.4	-1.02 + 4.4	0.8/22.5	39521
2000 CR ₅₀	2000 02 22.7	10 21.53 +06 54.0 17.7	-1.07 + 5.4	1.4/23.7	39396	1996 DK ₂	2000 02 23.2	10 23.34 +13 35.9 17.3	-0.90 + 7.8	1.3/22.1	39525
1988 VJ ₁	2000 02 22.7	10 21.53 +01 46.8 17.6	-0.99 + 5.9	2.9/25.2	39514	1995 GL ₇	2000 02 23.2	10 23.40 +19 21.0 18.6	-0.81 + 4.6	2.6/20.4	39523
1995 DU	2000 02 22.8	10 21.63 +15 56.5 17.2	-0.92 + 1.9	1.8/21.3	39164	3178 T-2	2000 02 23.2	10 23.45 +14 18.1 17.8	-0.85 + 4.3	1.3/22.0	39648
(9831)	2000 02 22.8	10 21.68 +09 12.6 18.9	-0.94 + 6.1	0.3/23.1	33453	2000 DF ₃₅	2000 02 23.2	10 23.49 +12 23.3 18.3	-1.02 + 4.8	0.9/22.6	39450
1999 XF ₁₆₄	2000 02 22.8	10 21.77 +27 18.5 16.9	-0.97 +12.8	5.6/16.6	39564	2000 AY ₁₄₄	2000 02 23.2	10 23.52 +17 25.9 17.2	-0.97 +26.1	3.2/20.3	39579
2000 CV	2000 02 22.8	10 21.78 +12 34.3 15.5	-0.77 +11.8	0.9/22.0	39587	1998 RY ₇₃	2000 02 23.3	10 23.50 +08 00.7 18.3	-1.04 + 3.8	0.7/23.8	39537
(13879)	2000 02 22.8	10 21.78 +13 31.2 17.1	-0.95 + 4.1	1.3/21.9	38422	2000 DH ₃₅	2000 02 23.3	10 23.51 +11 44.6 18.2	-0.93 + 5.0	0.7/22.8	39451
1994 UW ₉	2000 02 22.8	10 21.79 +09 23.5 20.1	-0.93 + 4.8	0.3/23.1	33341	2000 DE ₃₅	2000 02 23.3	10 23.54 +12 52.4 18.7	-1.10 + 3.4	1.1/22.6	39450
2000 CE ₃₆	2000 02 22.8	10 21.80 +06 53.8 16.7	-1.03 + 0.8	1.2/23.6	39591	1998 RQ ₅	2000 02 23.3	10 23.56 +11 00.8 17.8	-1.03 + 5.6	0.4/23.0	39536
1998 RT ₇₄	2000 02 22.8	10 21.83 +09 00.7 16.7	-0.96 + 4.4	0.5/23.2	39537	1991 NQ ₆	2000 02 23.3	10 23.59 +03 00.0 18.0	-1.03 + 5.0	2.6/25.3	38756
2000 AH ₉₇	2000 02 22.8	10 21.87 +01 38.9 16.8	-1.59 - 6.5	3.8/25.0	39574	3009 P-L	2000 02 23.3	10 23.59 +03 23.5 19.9	-0.82 + 2.8	1.9/25.2	34264
1998 YT ₈	2000 02 22.8	10 22.01 +14 02.0 17.9	-0.82 + 5.2	1.1/21.7	39549	1995 WU ₅	2000 02 23.3	10 23.61 +09 18.8 17.5	-1.03 + 5.0	0.3/23.5	39524
2000 AR ₂₄₂	2000 02 22.8	10 22.02 +18 11.4 16.6	-0.87 + 8.3	2.7/20.3	39583	2000 DF ₃₉	2000 02 23.3	10 23.68 +05 33.7 18.1	-0.74 + 5.4	1.4/24.7	39452
2000 DP ₃₄	2000 02 22.9	10 21.99 +11 14.1 18.0	-1.09 + 5.9	0.4/22.6	39450	1998 VW ₃₂	2000 02 23.3	10 23.69 +11 20.0 18.5	-0.95 + 5.4	0.5/23.0	35724
2000 BF ₁₅	2000 02 22.9	10 22.06 +27 19.4 17.5	-0.90 + 3.5	5.4/17.8	39363	2000 CD ₃₆	2000 02 23.3	10 23.79 +09 28.9 16.6	-0.75 +10.2	0.2/23.5	39591
2000 AS ₂₃₆	2000 02 22.9	10 22.19 -02 13.6 17.2	-0.97 + 1.8	4.2/26.2	39358	2000 CN ₆₅	2000 02 23.3	10 23.82 +11 53.2 17.9	-0.90 + 8.8	0.7/22.8	39407
2000 AC ₂₁₂	2000 02 22.9	10 22.21 +12 53.0 18.2	-0.86 + 9.6	1.2/22.1	39582	1998 SY ₁₄₃	2000 02 23.3	10 23.82 +11 05.1 18.1	-1.06 + 5.2	0.4/23.1	39542
1993 OX ₂	2000 02 22.9	10 22.26 +11 29.6 19.6	-0.82 + 6.2	0.4/22.6	39520	(9967)	2000 02 23.3	10 23.85 +25 27.2 15.8	-1.02 + 4.3	6.0/18.7	33663
2000 AP ₂₃₃	2000 02 22.9	10 22.27 +12 18.8 17.1	-0.99 + 7.7	1.0/22.3	39583	1998 SW ₂₄	2000 02 23.3	10 23.85 +12 55.6 17.6	-0.91 + 8.6	1.1/22.4	39539
2000 BE ₁₅	2000 02 22.9	10 22.28 +28 55.5 17.3	-0.84 + 6.1	6.0/16.7	39585	2000 CQ ₆₅	2000 02 23.3	10 23.89 +10 40.3 17.1	-0.99 + 5.0	0.2/23.2	39407
2000 EL ₁₈	2000 02 22.9	10 22.40 +15 08.0 18.3	-0.84 + 5.1	1.6/21.5	39486	1997 JV ₇	2000 02 23.3	10 23.92 +06 30.2 16.3	-0.88 + 9.7	1.5/24.5	39528
1993 OD ₂	2000 02 23.0	10 22.41 +15 37.0 17.1	-0.85 + 8.8	1.6/21.2	39520	2000 AQ ₂₂₇	2000 02 23.3	10 23.92 +09 53.8 18.7	-0.78 + 3.6	0.0/23.4	39356
1998 QO ₁₉	2000 02 23.0	10 22.53 +12 57.4 18.6	-0.98 + 7.5	1.0/22.2	39532	1998 RB ₅₇	2000 02 23.4	10 23.93 +09 25.5 16.7	-0.97 + 4.1	0.3/23.6	39536
1998 SS ₇₅	2000 02 23.0	10 22.54 +07 39.5 16.8	-0.90 + 6.9	1.1/23.8	39247	1990 DZ	2000 02 23.4	10 23.95 +11 15.1 16.5	-0.96 + 1.0	0.5/23.1	39514
1998 QY ₇₇	2000 02 23.0	10 22.57 -01 47.3 17.1	-1.00 + 4.4	5.0/26.4	39534	(12871)	2000 02 23.4	10 23.97 +16 26.8 16.8	-1.02 + 7.6	2.6/21.5	37084
1998 QF ₄₃	2000 02 23.0	10 22.59 +12 18.0 19.0	-1.11 + 4.4	0.8/22.5	39204	1998 WB ₂₂	2000 02 23.4	10 23.99 +12 12.4 17.6	-0.81 + 5.6	0.7/22.8	39283
2000 CT ₈₄	2000 02 23.0	10 22.59 +15 31.0 17.6	-0.76 + 7.1	1.5/21.3	39420	(11189)	2000 02 23.4	10 24.00 +18 00.8 18.0	-1.11 + 3.4	3.0/21.3	35260
2000 CS ₆₅	2000 02 23.0	10 22.67 +10 07.2 18.0	-0.83 + 4.4	0.0/23.1	39407	2000 CP ₅₀	2000 02 23.4	10 24.02 +07 43.3 17.7	-0.76 + 5.0	0.8/24.1	39395
1998 SN ₁₂₅	2000 02 23.0	10 22.68 +22 13.2 17.3	-0.99 + 4.6	4.7/19.6	39541	1998 RD ₂	2000 02 23.4	10 24.05 +12 18.0 18.2	-0.96 + 7.0	0.9/22.7	39535
(14178)	2000 02 23.0	10 22.71 +13 34.1 17.7	-0.83 + 5.4	1.0/22.0	39102	(14280)	2000 02 23.4	10 24.05 +12 26.6 17.0	-0.82 + 5.6	0.8/22.7	39131
(13157)	2000 02 23.0	10 22.74 +15 01.0 16.3	-1.07 + 4.5	2.1/21.8	37528	1990 UK ₅	2000 02 23.4	10 24.06 +16 46.2 17.8	-0.93 + 6.9	2.4/21.4	39515
1999 XJ ₂₂₁	2000 02 23.0	10 22.74 -04 19.6 16.7	-0.78 + 4.3	4.4/27.4	39335	2000 AO ₂₃₆	2000 02 23.4	10 24.08 -01 14.7 16.5	-0.94 + 3.9	4.7/26.5	39357
(9776)	2000 02 23.0	10 22.79 +14 56.6 17.3	-0.83 + 5.2	1.5/21.6	38016	2000 AR ₉₆	2000 02 23.4	10 24.11 +10 39.6 16.3	-1.05 + 1.6	0.3/23.3	39574
1998 TZ ₃₁	2000 02 23.1	10 22.80 +05 35.9 18.7	-0.86 + 4.2	1.4/24.4	39543	1998 SZ ₆₂	2000 02 23.4	10 24.16 +12 37.8 19.4	-0.95 + 4.6	0.8/22.7	39540
1998 QL ₃₈	2000 02 23.1	10 22.80 +09 46.3 18.0	-1.08 + 3.9	0.1/23.2	39533	2000 DW ₉₇	2000 02 23.4	10 24.16 +18 49.5 17.8	-0.86 + 2.9	2.5/21.0	39473
1999 XZ ₃₄	2000 02 23.1	10 22.83 +20 20.2 17.1	-0.79 + 6.4	2.9/19.8	39559	1990 VY ₅	2000 02 23.4	10 24.18 +29 23.1 17.2	-0.70 + 5.4	5.2/16.8	39515
1998 SV ₁₂	2000 02 23.1	10 22.86 +07 56.4 16.8	-0.71 +15.0	0.7/24.0	39231	2000 AG ₁₄₄	2000 02 23.4	10 24.18 -02 12.1 17.4	-1.29 - 0.1	4.2/26.2	39349
1991 PC ₁₆	2000 02 23.1	10 22.92 +10 46.0 18.5	-0.74 + 4.3	0.2/22.9	39516	1999 AA	2000 02 23.4	10 24.23 +14 48.3 17.3	-0.88 + 2.5	1.4/22.1	39549

2000 MAR. 20

M.P.C. 39667

1998 WE₁₆ 2000 02 23.4 10 24.25 +19 54.6 18.5 -0.79 + 4.8 3.0/20.4 35726
 2000 BH₁₅ 2000 02 23.4 10 24.28 +28 50.3 17.4 -0.90 + 7.2 6.8/17.1 39585
 1998 SN₁₀₀ 2000 02 23.4 10 24.35 +07 54.3 18.5 -1.06 + 5.0 0.7/24.1 39249
 1998 TA₃₅ 2000 02 23.5 10 24.30 +16 38.4 17.9 -0.90 + 4.5 2.2/21.6 39265
 (13165) 2000 02 23.5 10 24.36 +16 20.4 17.5 -1.07 + 5.4 2.3/21.7 37530
 3224 T-2 2000 02 23.5 10 24.39 +14 30.9 18.4 -0.84 + 5.0 1.5/22.2 39502
 3092 T-2 2000 02 23.5 10 24.41 +23 42.5 17.6 -1.11 + 0.9 5.1/20.1 39648
 1998 QG₂₀ 2000 02 23.5 10 24.54 +03 14.7 19.3 -0.98 + 5.5 2.2/25.5 39532
 1995 UM₅ 2000 02 23.5 10 24.58 +07 17.3 17.6 -1.10 + 3.7 1.2/24.3 39524
 1998 TT₃₀ 2000 02 23.5 10 24.64 +16 45.3 17.0 -1.13 + 4.6 2.7/21.7 39543
 1993 FR₄ 2000 02 23.5 10 24.68 +10 04.1 17.6 -0.98 + 7.2 0.1/23.5 39153
 1998 SP₂₁ 2000 02 23.5 10 24.71 +06 51.2 19.2 -0.96 + 5.6 1.0/24.5 39538
 (13072) 2000 02 23.6 10 24.66 +15 00.1 17.0 -1.12 + 2.3 2.0/22.3 37506
 1997 TR 2000 02 23.6 10 24.75 +17 18.8 18.0 -0.84 + 2.9 2.0/21.5 39530
 2000 CZ₇₇ 2000 02 23.6 10 24.76 +08 29.0 18.7 -0.80 + 4.8 0.4/24.1 39413
 (9753) 2000 02 23.6 10 24.79 +12 27.2 17.6 -1.01 + 3.9 0.9/22.9 33200
 2000 CH₈₅ 2000 02 23.6 10 24.81 +13 48.2 18.1 -0.97 + 2.2 1.3/22.6 39422
 2000 DE₃₈ 2000 02 23.6 10 24.92 +09 09.0 17.9 -0.80 + 5.4 0.2/23.9 39451
 1998 YV₈ 2000 02 23.6 10 24.97 +05 46.1 18.5 -0.82 + 5.2 1.2/25.0 39549
 1998 QT₅₄ 2000 02 23.6 10 24.97 +02 17.2 17.1 -0.91 + 7.1 2.9/26.0 39534
 1998 QM₅₂ 2000 02 23.6 10 24.98 +12 09.1 17.4 -0.93 + 8.8 0.9/23.0 39534
 4032 P-L 2000 02 23.6 10 25.02 +08 30.9 16.6 -1.08 + 2.9 0.6/24.0 39647
 1998 UT₆ 2000 02 23.6 10 25.02 +12 19.8 18.2 -0.82 + 4.5 0.7/23.0 39544
 2000 CZ₈₄ 2000 02 23.6 10 25.04 +16 16.7 18.4 -0.78 + 5.5 1.9/21.7 39421
 2000 CN₇₆ 2000 02 23.7 10 25.13 +12 26.3 17.6 -0.80 + 4.2 0.8/23.0 39411
 1998 SN₃₃ 2000 02 23.7 10 25.19 +26 33.3 20.1 -1.15 + 2.4 5.3/19.4 33567
 2000 AQ₉₆ 2000 02 23.7 10 25.21 +16 55.1 16.6 -0.95 + 7.4 3.2/21.5 39574
 1998 WU₃₀ 2000 02 23.7 10 25.26 +21 56.5 17.6 -0.77 + 7.6 3.5/19.7 39548
 1993 FO₂₀ 2000 02 23.7 10 25.29 +13 07.2 17.6 -0.96 + 7.1 1.3/22.8 39519
 2000 CX₄₀ 2000 02 23.7 10 25.38 +16 45.9 17.7 -0.91 + 6.9 3.2/21.6 39592
 1999 YK₁₆ 2000 02 23.7 10 25.39 +12 31.9 17.0 -0.75 + 8.1 0.8/22.9 39567
 2000 CJ₅₄ 2000 02 23.8 10 25.46 +08 16.7 17.6 -0.87 + 6.6 0.7/24.3 39399
 1998 RH₆₆ 2000 02 23.8 10 25.50 -04 42.8 17.9 -0.79 +10.1 5.1/29.0 39224
 (10393) 2000 02 23.8 10 25.55 +20 02.9 17.9 -1.04 + 2.5 3.2/21.1 34158
 1991 TJ 2000 02 23.8 10 25.55 +16 59.9 18.0 -1.01 + 5.9 2.3/21.8 39149
 1991 RP₁₂ 2000 02 23.8 10 25.69 +12 17.2 17.3 -1.11 + 3.6 0.9/23.2 39516
 2000 CG₈₅ 2000 02 23.8 10 25.74 +11 19.4 17.2 -0.87 + 1.2 0.4/23.5 39421
 1998 SA₁₁₈ 2000 02 23.8 10 25.84 +17 48.7 16.9 -1.00 + 2.3 2.8/21.8 39541
 1998 RD₃ 2000 02 23.8 10 25.85 +23 44.6 19.7 -1.04 + 2.7 4.1/20.2 35713
 1998 SN₆₃ 2000 02 23.9 10 25.78 +07 09.2 18.2 -0.91 + 6.0 0.9/25.0 39243
 1998 WT₁₆ 2000 02 23.9 10 26.04 -11 14.3 18.7 -0.88 + 5.0 6.5/01.5 39547
 1996 EL₁ 2000 02 23.9 10 26.11 +12 49.9 16.0 -1.14 - 1.0 1.2/23.3 39525
 2000 DG₃₈ 2000 02 23.9 10 26.15 +08 18.7 17.5 -0.95 + 6.9 0.6/24.4 39451
 1997 GA₁₇ 2000 02 23.9 10 26.20 +10 38.1 18.7 -1.05 + 5.2 0.3/23.8 39527
 1998 QM₄₈ 2000 02 23.9 10 26.23 +07 29.4 19.0 -1.05 + 4.0 0.8/24.6 39206
 1998 UG₂₉ 2000 02 24.0 10 26.27 +08 25.6 17.2 -0.88 + 8.4 0.5/24.5 39545
 1997 GU₁₅ 2000 02 24.0 10 26.30 +04 02.5 18.8 -0.96 + 8.7 2.3/25.8 39527
 (9811) 2000 02 24.0 10 26.36 +11 53.5 19.1 -1.02 + 5.6 0.7/23.4 33214
 1991 TL₁₄ 2000 02 24.0 10 26.42 +19 30.6 17.5 -1.12 + 4.6 3.7/21.3 39517
 2000 AV₂₃₆ 2000 02 24.0 10 26.46 +01 28.3 17.3 -0.94 + 5.3 2.8/26.5 39583
 2000 AS₂₄₂ 2000 02 24.0 10 26.48 +13 27.7 17.1 -0.72 + 8.3 1.1/22.8 39583

1997 RC₃ 2000 02 24.0 10 26.48 +02 58.0 18.0 -0.80 + 7.8 2.1/26.3 39529
 1994 HX 2000 02 24.0 10 26.54 +08 55.2 20.0 -1.04 + 6.5 0.3/24.3 32747
 2000 AC₁₄₄ 2000 02 24.1 10 26.56 +03 18.6 16.8 -1.06 + 5.2 2.7/25.9 39579
 2000 CW₅₀ 2000 02 24.1 10 26.59 +06 32.9 17.8 -0.94 + 5.6 1.4/25.0 39396
 1998 QA₁₀₁ 2000 02 24.1 10 26.61 +12 12.2 19.1 -0.91 + 6.5 0.8/23.4 39212
 2000 BP₁₄ 2000 02 24.1 10 26.61 +23 12.9 18.0 -1.09 + 3.9 5.5/20.5 39585
 2000 AN₉₆ 2000 02 24.1 10 26.64 +17 40.3 16.5 -0.78 +14.1 3.3/21.1 39573
 1996 GN₂ 2000 02 24.1 10 26.76 +01 01.8 18.1 -0.81 + 7.4 2.8/27.0 39525
 1997 RJ₁ 2000 02 24.1 10 26.80 +13 50.0 18.4 -0.73 + 5.4 1.0/22.9 39529
 1997 UB₁₁ 2000 02 24.1 10 26.83 +26 47.4 16.9 -1.00 + 0.1 4.8/19.7 39530
 1994 PU₁₆ 2000 02 24.1 10 26.94 +07 59.5 18.0 -1.03 + 4.2 0.6/24.7 39161
 1998 RZ₂₁ 2000 02 24.1 10 26.97 +14 04.0 17.3 -1.06 + 2.3 2.0/23.1 39217
 2000 BS₁₄ 2000 02 24.1 10 26.98 +16 02.7 17.1 -1.12 + 0.6 2.4/22.7 39585
 1982 US₆ 2000 02 24.2 10 26.93 +22 34.0 17.2 -0.99 + 4.3 4.2/20.5 39512
 1991 UR₂ 2000 02 24.2 10 26.94 +24 15.2 17.1 -1.16 + 2.5 6.2/20.6 39517
 1996 GJ₄ 2000 02 24.2 10 27.05 +08 31.7 17.5 -0.83 + 7.2 0.4/24.6 32952
 2000 CM₈₅ 2000 02 24.2 10 27.05 +13 34.6 18.1 -0.95 + 4.2 1.4/23.1 39422
 1998 WC₁₇ 2000 02 24.2 10 27.07 +14 02.3 17.9 -0.87 + 5.4 1.4/22.9 39281
 (14055) 2000 02 24.2 10 27.08 +12 35.0 17.0 -0.91 + 8.0 1.1/23.3 39066
 1997 QC₂ 2000 02 24.2 10 27.09 +13 17.3 19.0 -0.84 + 6.2 1.0/23.1 39182
 2000 CY₅₁ 2000 02 24.2 10 27.10 +07 03.8 17.4 -1.07 + 4.5 1.0/24.9 39397
 1998 QY₈₅ 2000 02 24.2 10 27.10 -04 57.3 18.8 -0.97 + 2.9 5.0/28.4 35712
 1998 UB₂₀ 2000 02 24.2 10 27.16 +10 40.9 18.6 -0.89 + 5.3 0.3/24.0 39269
 (14119) 2000 02 24.2 10 27.22 +02 55.2 17.4 -1.02 + 3.9 2.5/26.1 39085
 1991 UR 2000 02 24.2 10 27.23 +16 59.1 17.3 -1.08 + 3.8 2.6/22.3 39517
 1093 T-3 2000 02 24.2 10 27.23 +08 35.7 18.1 -0.95 + 3.4 0.3/24.6 39503
 1998 QF₅₉ 2000 02 24.3 10 27.31 +11 57.8 18.7 -0.94 + 3.8 0.8/23.7 39209
 1998 VD₂₉ 2000 02 24.3 10 27.40 +35 51.6 17.4 -0.89 + 3.8 7.5/15.8 35724
 2466 T-3 2000 02 24.3 10 27.49 +17 29.8 17.7 -0.88 + 2.7 2.2/22.1 39649
 2000 EW₇₅ 2000 02 24.3 10 27.52 +17 22.8 17.9 -1.11 + 3.4 3.3/22.3 39493
 (14300) 2000 02 24.3 10 27.58 +09 19.6 17.8 -0.96 + 7.6 0.1/24.5 39136
 1998 US₁₆ 2000 02 24.3 10 27.63 +15 01.7 18.5 -0.98 + 7.7 1.8/22.7 39268
 2000 DA₃₉ 2000 02 24.3 10 27.63 +07 22.3 18.4 -1.04 + 2.9 0.9/25.0 39451
 1998 OT₁₁ 2000 02 24.4 10 27.70 +07 41.9 20.0 -0.97 + 6.1 0.7/25.0 33079
 1998 WA₁₇ 2000 02 24.4 10 27.78 +07 44.4 17.5 -0.77 + 4.9 0.6/25.0 39547
 1991 VV 2000 02 24.4 10 27.79 -28 32.2 18.7 -1.01 + 4.3 12.3/09.1 35601
 1994 VY₆ 2000 02 24.4 10 27.83 +05 07.6 19.7 -0.91 + 5.1 1.3/25.7 33552
 1998 QJ₄₇ 2000 02 24.4 10 27.84 +18 29.8 16.9 -1.07 + 4.5 3.8/22.0 39206
 1998 OT₁₄ 2000 02 24.4 10 27.98 +08 11.2 18.2 -1.08 + 4.4 0.5/25.0 39531
 1998 UM₃ 2000 02 24.4 10 28.03 +08 40.3 20.2 -0.98 + 6.0 8.9/16.0 34026
 (14096) 2000 02 24.4 10 28.05 +08 34.0 18.5 -0.86 + 6.4 0.3/24.8 39078
 2000 CC₈₆ 2000 02 24.4 10 28.06 +09 19.5 17.5 -1.11 + 3.2 0.1/24.6 39422
 2000 CW₈₇ 2000 02 24.4 10 28.07 +14 43.7 17.9 -0.81 + 3.6 1.5/23.0 39425
 1989 CO₂ 2000 02 24.4 10 28.10 -06 31.4 17.5 -0.81 + 2.8 5.1/29.2 39143
 1981 FP 2000 02 24.4 10 28.14 +07 31.5 17.8 -0.90 + 6.6 0.9/25.0 39512
 1998 QJ₉₉ 2000 02 24.5 10 28.18 +14 29.3 18.5 -0.97 + 6.1 1.6/23.1 39535
 1989 SW₈ 2000 02 24.5 10 28.21 +00 15.0 17.7 -0.80 + 8.0 2.8/27.6 39514
 1998 SH₈ 2000 02 24.5 10 28.30 +09 33.0 19.3 -1.01 + 5.8 0.0/24.6 39231
 2000 CG₃₆ 2000 02 24.5 10 28.34 +04 07.0 17.3 -0.92 + 3.0 1.9/26.0 39388
 1999 YL₁₆ 2000 02 24.5 10 28.35 +10 51.8 18.0 -0.85 + 6.7 0.5/24.2 39567
 (13132) 2000 02 24.5 10 28.44 +03 24.5 16.2 -1.02 + 2.6 2.6/26.2 37522

1998 VG ₁	2000 02 24.5	10 28.46 +23 04.1 20.2	-1.04 + 5.4	4.1/20.6	35723	2000 CJ ₈₆	2000 02 25.1	10 30.73 +15 21.8 17.8	-0.95 + 5.9	2.5/23.4	39423
(13932)	2000 02 24.5	10 28.51 +09 13.4 19.3	-1.03 + 6.0	0.1/24.7	39032	2000 DW ₄₀	2000 02 25.1	10 30.74 +09 11.0 17.5	-1.09 + 2.0	0.1/25.2	39452
(14111)	2000 02 24.6	10 28.55 +01 34.0 17.8	-0.96 + 7.2	3.1/27.1	39082	1998 QD ₄₅	2000 02 25.2	10 30.75 +01 10.0 17.3	-1.02 + 4.4	3.1/27.5	39533
2000 CF ₃₆	2000 02 24.6	10 28.55 +07 37.6 16.7	-0.83 +11.8	0.9/25.0	39388	(13510)	2000 02 25.2	10 30.75 +30 13.5 18.0	-1.06 + 3.8	6.7/18.9	38318
2000 CP ₄₀	2000 02 24.6	10 28.59 +17 16.6 17.7	-0.76 + 7.6	2.4/22.0	39592	2000 CF ₈₆	2000 02 25.2	10 30.76 +12 44.9 18.1	-1.01 + 5.4	1.2/24.2	39423
1998 QT ₃₈	2000 02 24.6	10 28.63 +03 57.5 18.4	-1.01 + 4.9	2.1/26.2	38478	2000 AT ₉₆	2000 02 25.2	10 30.77 +18 49.7 16.3	-1.03 + 6.0	4.4/22.4	39574
2000 CX ₈₅	2000 02 24.6	10 28.82 +11 51.3 16.0	-0.78 + 9.0	0.9/23.9	39598	(13384)	2000 02 25.2	10 30.79 +21 01.7 17.4	-0.76 + 6.0	3.0/21.4	37591
2000 CZ ₅₁	2000 02 24.7	10 28.83 +07 28.6 17.6	-1.00 + 7.9	0.8/25.3	39397	(10649)	2000 02 25.2	10 30.89 -01 42.2 17.8	-0.79 + 6.8	3.8/28.8	34475
(13906)	2000 02 24.7	10 28.91 +12 04.1 17.7	-1.05 + 4.2	0.9/24.0	39025	1997 RO	2000 02 25.2	10 30.93 +08 30.5 18.1	-0.83 + 6.6	0.3/25.5	39529
1995 CN ₆	2000 02 24.7	10 28.91 +07 55.0 18.8	-0.81 + 5.1	0.5/25.2	39164	1998 QY ₅₀	2000 02 25.2	10 31.09 +12 20.1 18.4	-1.09 + 3.4	1.1/24.5	39534
2000 CH ₅₁	2000 02 24.7	10 28.94 +01 59.6 16.6	-0.84 + 5.3	2.5/27.0	39396	1998 SO ₁₃₂	2000 02 25.2	10 31.17 -01 49.2 19.0	-0.83 + 5.6	3.7/28.8	39253
(14168)	2000 02 24.7	10 28.96 +10 08.7 17.2	-0.79 + 4.4	0.2/24.5	39099	1998 SM ₇₃	2000 02 25.3	10 31.20 +07 49.6 17.3	-0.82 + 7.4	0.5/25.8	39540
1997 RR ₈	2000 02 24.7	10 29.02 +00 05.2 17.0	-0.74 + 6.6	2.8/27.8	39529	(14072)	2000 02 25.3	10 31.27 +11 54.9 17.7	-0.79 + 4.3	0.7/24.5	39071
1997 PZ ₁	2000 02 24.7	10 29.02 +09 30.7 18.5	-0.78 + 5.3	7.2/05.0	39529	1997 JR	2000 02 25.3	10 31.56 +30 55.1 18.0	-1.06 + 4.5	6.4/18.8	39528
(13468)	2000 02 24.7	10 29.06 +10 04.8 16.3	-0.91 + 6.1	0.3/24.6	37615	1994 PS ₁₀	2000 02 25.4	10 31.54 +08 42.5 19.2	-0.97 + 5.0	0.2/25.6	39521
(13568)	2000 02 24.7	10 29.11 -02 37.9 16.9	-0.70 + 5.8	3.4/28.7	38334	1995 GD ₄	2000 02 25.4	10 31.56 +22 50.9 18.7	-0.82 + 3.4	3.7/21.3	39166
1998 RE ₈₀	2000 02 24.7	10 29.12 +21 45.9 19.4	-0.94 + 4.0	3.7/21.2	33353	(14029)	2000 02 25.4	10 31.61 +11 40.3 16.9	-0.96 + 5.3	0.9/24.7	39059
1998 VW ₁₁	2000 02 24.7	10 29.16 -04 43.0 17.3	-0.76 + 8.5	4.9/29.7	39274	2000 AT ₂₃₆	2000 02 25.4	10 31.62 -00 51.3 16.6	-0.96 + 4.9	4.5/28.3	39583
1989 XR ₁	2000 02 24.8	10 29.24 +17 50.4 18.2	-0.86 + 6.4	2.5/22.2	39145	(13982)	2000 02 25.4	10 31.64 +08 25.4 17.6	-0.79 + 4.6	0.2/25.7	39046
2000 EY ₃₁	2000 02 24.8	10 29.27 +14 02.3 18.3	-1.04 + 5.7	1.6/23.5	39489	1998 RU ₆₅	2000 02 25.4	10 31.73 +09 08.4 19.1	-0.98 + 5.2	0.0/25.5	39537
(13315)	2000 02 24.8	10 29.28 +18 51.4 16.9	-1.06 + 2.7	3.9/22.3	37571	2000 BO ₁₄	2000 02 25.4	10 31.75 +20 17.0 17.3	-0.84 + 3.8	3.4/22.1	39585
1997 LX ₅	2000 02 24.8	10 29.54 +10 26.9 18.2	-0.96 + 6.5	0.4/24.6	39181	2000 DB ₄₀	2000 02 25.4	10 31.76 +06 45.6 17.7	-0.84 + 5.5	0.8/26.2	39452
1994 VE ₁	2000 02 24.9	10 29.60 +08 27.0 17.2	-0.89 + 5.9	0.3/25.2	39522	1999 VL ₄₀	2000 02 25.4	10 31.77 -39 59.1 16.0	-0.90 - 8.3	26.5/21.0	39553
2000 AO ₁	2000 02 24.9	10 29.71 +51 01.1 17.6	-1.05 + 8.1	15.0/06.6	38864	1998 SL ₁₁₈	2000 02 25.4	10 31.82 +10 13.8 18.7	-0.84 + 4.5	0.3/25.2	39251
1984 SA	2000 02 24.9	10 29.77 -00 15.9 17.8	-0.98 + 5.3	3.2/27.7	39512	1993 GA	2000 02 25.4	10 31.83 +16 52.3 18.4	-1.07 + 3.9	2.8/23.4	39519
1998 SO ₅₉	2000 02 24.9	10 29.78 +24 15.0 16.4	-1.11 + 1.9	6.1/21.0	39540	1998 VJ ₃₀	2000 02 25.4	10 31.85 +27 29.9 18.7	-0.83 + 4.5	5.1/19.7	35724
(14069)	2000 02 24.9	10 29.84 +42 41.2 18.3	-1.02 + 1.8	8.5/14.6	39070	1998 TF ₅	2000 02 25.5	10 31.86 +19 14.1 18.1	-1.09 + 6.2	3.7/22.5	39260
2000 CP ₅₇	2000 02 24.9	10 29.85 +34 30.9 17.7	-1.04 + 4.0	8.5/17.2	39594	1245 T-2	2000 02 25.5	10 31.86 +13 34.0 17.2	-1.01 + 2.1	1.7/24.4	34270
(14296)	2000 02 24.9	10 29.94 +11 18.0 18.2	-0.96 + 6.8	0.7/24.4	39135	2000 DG ₉₉	2000 02 25.5	10 31.90 +10 33.9 18.1	-0.91 + 6.6	0.4/25.1	39474
2000 AU ₂₃₆	2000 02 24.9	10 29.96 -01 36.5 17.3	-0.99 + 3.7	4.6/28.0	39583	1998 VT ₅	2000 02 25.5	10 31.96 -30 43.7 17.8	-0.80 + 3.6	10.8/11.9	38527
1995 WS ₂	2000 02 24.9	10 30.02 +20 59.9 18.1	-1.10 + 4.8	4.2/21.8	39524	2000 BR ₁₄	2000 02 25.5	10 32.02 +16 28.3 17.0	-0.85 + 2.7	2.0/23.5	39585
1998 SL ₆₃	2000 02 24.9	10 30.02 +07 04.4 18.6	-1.09 + 3.8	0.8/25.6	39243	1994 TW	2000 02 25.5	10 32.07 +26 24.1 18.6	-1.10 + 2.2	5.6/20.9	39522
2266 T-2	2000 02 25.0	10 29.96 +06 22.4 17.5	-0.93 + 8.0	1.2/26.0	39648	1991 TK ₈	2000 02 25.5	10 32.11 +10 03.8 17.4	-0.94 + 8.5	0.3/25.3	39517
2000 CQ ₈₅	2000 02 25.0	10 29.96 +11 26.8 15.5	-1.05 + 1.5	0.7/24.5	39422	1997 MY ₅	2000 02 25.5	10 32.17 -08 39.9 18.2	-0.84 + 5.8	7.1/02.3	39529
(14078)	2000 02 25.0	10 30.01 +11 19.4 18.3	-1.04 + 5.2	0.7/24.5	39073	4279 P-L	2000 02 25.5	10 32.22 +01 37.6 20.2	-0.91 + 6.8	2.6/27.9	38735
2000 CD ₆₁	2000 02 25.0	10 30.06 +08 27.0 17.4	-0.88 + 7.1	0.4/25.3	39403	(10237)	2000 02 25.5	10 32.27 +10 40.7 17.3	-1.02 + 6.5	0.6/25.2	38750
2000 BN ₂₈	2000 02 25.0	10 30.08 +28 02.5 16.8	-1.19 + 1.9	8.3/20.0	39587	2000 CK ₈₆	2000 02 25.5	10 32.31 +16 27.1 17.2	-0.98 + 7.4	2.4/23.4	39423
2000 CV ₅₁	2000 02 25.0	10 30.08 +08 28.3 17.8	-0.74 + 6.4	0.3/25.3	39396	1991 PE ₆	2000 02 25.6	10 32.23 +12 23.3 17.3	-0.80 + 4.3	0.9/24.6	39516
1998 SS ₅₇	2000 02 25.0	10 30.17 +14 47.3 18.3	-0.93 + 5.4	1.9/23.5	39241	1989 WY ₁	2000 02 25.6	10 32.23 +32 19.9 17.1	-0.95 + 4.7	6.8/18.3	39514
1981 EJ ₁₁	2000 02 25.0	10 30.40 +05 12.2 17.6	-0.96 + 4.6	1.4/26.3	39511	2000 AR ₁₃₆	2000 02 25.6	10 32.25 +22 47.0 17.4	-0.97 + 6.7	5.5/21.3	39577
2000 CA ₅₂	2000 02 25.1	10 30.34 +06 48.1 17.7	-1.05 + 4.3	0.9/25.8	39397	2000 DV ₈₆	2000 02 25.6	10 32.44 +17 27.9 16.4	-1.11 + 5.1	3.2/23.3	39471
1998 ST ₁₄₂	2000 02 25.1	10 30.37 +10 15.1 17.8	-1.05 + 5.6	0.3/24.9	39542	2000 DD ₄₁	2000 02 25.6	10 32.58 +09 06.3 18.3	-0.95 + 8.3	0.0/25.7	39452
2000 ED ₃₂	2000 02 25.1	10 30.38 +14 36.1 17.9	-0.81 + 3.7	1.4/23.6	39490	2000 CB ₆₁	2000 02 25.7	10 32.66 +04 12.0 16.6	-0.78 +15.8	1.7/27.6	39594
(14087)	2000 02 25.1	10 30.42 +15 57.6 19.0	-1.01 + 5.5	2.4/23.2	39076	(14015)	2000 02 25.7	10 32.70 +09 01.6 17.0	-0.74 + 6.3	0.0/25.8	39054
2000 DB ₃₈	2000 02 25.1	10 30.42 +09 34.9 18.2	-0.83 + 4.4	0.1/25.1	39451	2000 BT ₁₄	2000 02 25.7	10 32.72 +17 45.7 16.4	-0.92 + 4.6	3.0/23.2	39362
2000 AN ₂₃₇	2000 02 25.1	10 30.42 +17 46.1 16.9	-0.79 + 9.3	3.2/22.2	39583	1998 UM ₃₂	2000 02 25.7	10 32.85 +25 50.6 18.4	-0.86 + 4.2	4.6/20.5	39545
(13084)	2000 02 25.1	10 30.56 +17 39.9 17.6	-0.89 + 6.2	2.8/22.6	37509	(13968)	2000 02 25.7	10 33.03 +24 48.5 16.9	-0.91 + 1.7	4.1/21.3	39042
1999 XD ₁₅	2000 02 25.1	10 30.61 -08 27.3 16.5	-1.61 - 7.7	8.6/27.8	39557	1991 RC ₂	2000 02 25.7	10 33.04 +08 18.5 16.6	-1.10 + 2.6	0.3/26.0	39516
2000 CA ₈₆	2000 02 25.1	10 30.63 +09 53.3 17.3	-0.81 + 4.6	0.2/25.0	39422	2000 AZ ₉₆	2000 02 25.8	10 33.01 +08 31.0 16.7	-1.00 - 0.5	0.2/26.0	39574
(14064)	2000 02 25.1	10 30.64 +07 42.9 17.4	-0.97 + 4.4	0.6/25.6	39068	1993 OK ₇	2000 02 25.8	10 33.09 +08 54.8 18.3	-0.90 + 4.8	0.1/25.9	39157
1998 RJ ₅₆	2000 02 25.1	10 30.73 +08 49.2 17.5	-1.04 + 3.5	0.2/25.3	39536	1998 SD ₁₀₆	2000 02 25.8	10 33.13 -00 12.2 17.8	-0.80 + 9.6	3.2/29.0	38511

2000 MAR. 20

M.P.C. 39669

2000 CE₈₇ 2000 02 25.8 10 33.29 +11 30.2 17.9 -0.89 + 9.0 1.0/25.1 39424
 1998 WF 2000 02 25.8 10 33.37 +12 48.5 19.1 -0.88 + 6.4 1.1/24.7 39546
 1998 RV₅₄ 2000 02 25.8 10 33.46 +05 05.6 17.7 -1.03 + 3.0 1.6/27.0 39536
 2000 CF₅₂ 2000 02 25.9 10 33.37 +07 39.6 17.1 -1.02 + 5.6 0.6/26.3 39397
 (13560) 2000 02 25.9 10 33.47 +17 26.1 17.2 -0.87 + 2.7 2.4/23.6 38332
 1998 SM₉₁ 2000 02 25.9 10 33.47 +05 14.6 16.8 -1.02 + 3.3 1.6/26.9 39248
 1998 SQ₆₃ 2000 02 25.9 10 33.49 +13 59.9 17.8 -1.00 + 5.6 1.8/24.5 39540
 2000 DA₄₂ 2000 02 25.9 10 33.55 +10 16.1 18.5 -0.90 + 6.2 0.4/25.6 39452
 2000 DB₈₈ 2000 02 25.9 10 33.60 +11 53.6 17.8 -0.95 + 4.7 1.0/25.1 39471
 (13559) 2000 02 25.9 10 33.64 +18 09.8 17.6 -0.91 + 2.0 2.6/23.4 38332
 (13969) 2000 02 25.9 10 33.68 +18 01.0 18.1 -1.09 + 4.4 3.1/23.5 39042
 1989 TR₁₁ 2000 02 25.9 10 33.72 +22 21.3 18.1 -0.99 + 2.8 3.9/22.2 39514
 2000 DG₄₁ 2000 02 25.9 10 33.81 +08 37.0 18.1 -0.89 + 9.5 0.2/26.1 39452
 (9879) 2000 02 25.9 10 33.83 +03 11.1 19.2 -0.93 + 5.6 1.8/27.7 33464
 2000 DF₉₈ 2000 02 26.0 10 33.80 +16 56.2 18.1 -1.04 + 2.3 3.0/23.9 39474
 2000 EJ₃₂ 2000 02 26.0 10 33.82 +15 04.5 18.6 -0.90 + 4.3 2.1/24.2 39490
 (14137) 2000 02 26.0 10 33.85 +10 05.5 16.9 -0.77 + 9.4 0.4/25.7 39090
 1997 JT₃ 2000 02 26.0 10 33.86 +13 43.7 19.3 -0.96 + 5.7 1.5/24.6 38773
 1998 QQ₅₁ 2000 02 26.0 10 34.01 +04 08.7 17.5 -1.02 + 3.7 1.9/27.4 39207
 2000 CD₈₇ 2000 02 26.0 10 34.05 +10 19.1 17.3 -1.13 + 3.9 0.5/25.7 39424
 2000 CL₅₄ 2000 02 26.0 10 34.05 +05 27.2 17.7 -1.03 + 3.8 1.3/27.0 39399
 1994 UY 2000 02 26.0 10 34.13 +07 30.5 17.9 -0.93 + 4.7 0.5/26.5 39522
 2000 CH₃₆ 2000 02 26.0 10 34.18 +06 57.6 17.0 -0.96 + 3.2 1.0/26.7 39591
 1997 MG 2000 02 26.0 10 34.18 +17 52.9 16.5 -0.92 + 9.4 3.9/23.1 39528
 (13931) 2000 02 26.0 10 34.19 +32 36.4 18.7 -1.04 + 2.3 6.9/19.0 39032
 1990 VN₅ 2000 02 26.0 10 34.20 +32 22.6 18.7 -0.99 + 5.8 7.1/18.4 38755
 1998 TJ 2000 02 26.0 10 34.22 +15 10.3 18.7 -1.06 + 4.3 2.2/24.4 39259
 1998 WV₈ 2000 02 26.1 10 34.18 +12 46.7 18.4 -0.96 + 5.6 1.2/25.0 39279
 (13749) 2000 02 26.1 10 34.18 -02 19.7 16.4 -0.80 + 6.6 3.9/29.8 38386
 (9760) 2000 02 26.1 10 34.19 +08 44.2 18.4 -1.05 + 5.1 0.1/26.2 33201
 1978 RX₁ 2000 02 26.1 10 34.23 +11 10.7 17.7 -1.00 + 7.2 0.7/25.5 39511
 (13728) 2000 02 26.1 10 34.26 +10 08.2 16.7 -0.87 + 9.6 0.4/25.8 38379
 (13154) 2000 02 26.1 10 34.26 +08 04.8 16.9 -1.12 + 3.9 0.4/26.4 37528
 1998 SX₅₅ 2000 02 26.1 10 34.30 +16 37.0 16.7 -1.16 - 1.3 3.2/24.5 39240
 (12806) 2000 02 26.1 10 34.35 +14 50.4 16.5 -0.98 + 5.6 2.4/24.4 37065
 1981 EC₂₂ 2000 02 26.1 10 34.38 +07 59.4 17.5 -1.01 + 7.0 0.4/26.5 39511
 (11384) 2000 02 26.1 10 34.47 +07 39.6 19.0 -0.93 + 6.4 0.4/26.6 35586
 1998 SC₈₀ 2000 02 26.1 10 34.50 +05 19.5 18.4 -0.93 + 4.4 1.3/27.2 39248
 1997 SF₄ 2000 02 26.2 10 34.59 -01 36.2 19.8 -0.69 + 5.1 2.5/29.6 35701
 6616 P-L 2000 02 26.2 10 34.59 +08 09.6 18.0 -0.83 + 5.5 0.3/26.5 39498
 1182 T-3 2000 02 26.2 10 34.64 +07 29.7 17.6 -0.88 + 2.5 0.5/26.6 39648
 1998 WE₃ 2000 02 26.2 10 34.68 +09 18.1 17.8 -0.90 + 3.6 0.1/26.1 39547
 1995 SM₅₃ 2000 02 26.2 10 34.71 +03 18.0 19.1 -1.01 + 7.0 2.1/27.9 32749
 1991 RU₉ 2000 02 26.2 10 34.72 +07 17.9 18.2 -1.00 + 5.7 0.6/26.7 39516
 1998 WW₅ 2000 02 26.2 10 34.75 +12 38.0 17.8 -1.05 + 4.1 1.3/25.2 39547
 1998 XG₂₅ 2000 02 26.2 10 34.82 +07 55.7 19.8 -0.80 + 5.4 0.3/26.6 39548
 2000 DT₄₂ 2000 02 26.2 10 34.86 +11 12.9 17.5 -0.81 + 7.6 0.8/25.5 39453
 1998 XV₁₂ 2000 02 26.3 10 34.91 +16 11.6 18.0 -0.73 + 5.5 2.1/24.0 39548
 1998 SX₇₁ 2000 02 26.3 10 34.93 +16 31.2 17.3 -1.02 + 4.8 3.1/24.1 39540
 1998 YS₆ 2000 02 26.3 10 34.98 +08 46.3 18.1 -0.76 + 4.5 0.0/26.4 39292
 1998 SJ₄₃ 2000 02 26.3 10 34.99 +08 36.9 18.6 -0.93 + 4.9 0.1/26.4 39237

1998 WH₁₂ 2000 02 26.3 10 35.03 +06 19.0 19.0 -0.92 + 5.9 0.8/27.1 39280
 1998 UK₁₆ 2000 02 26.3 10 35.07 +10 24.5 18.7 -0.87 + 5.9 0.5/25.9 39268
 1992 HD₄ 2000 02 26.3 10 35.14 -02 03.9 16.6 -0.83 + 6.8 4.4/29.9 39518
 2000 CG₅₂ 2000 02 26.3 10 35.15 +04 53.2 17.2 -0.82 + 3.4 1.5/27.5 39397
 (9785) 2000 02 26.3 10 35.19 +12 06.3 16.8 -0.89 + 4.2 1.1/25.4 33208
 1998 YP₉ 2000 02 26.3 10 35.20 +07 05.2 17.6 -0.74 + 5.6 0.5/27.0 39292
 4201 P-L 2000 02 26.3 10 35.23 +02 57.0 17.9 -0.85 + 4.3 2.0/28.1 39647
 1998 SQ₂₄ 2000 02 26.3 10 35.25 +18 33.2 18.3 -1.00 + 3.8 3.5/23.7 39539
 2000 AM₂₁₂ 2000 02 26.3 10 35.26 +11 02.4 18.1 -0.87 + 7.4 0.9/25.7 39582
 1998 QE₄₀ 2000 02 26.3 10 35.32 +05 12.4 17.2 -0.92 + 6.7 1.4/27.5 39533
 1998 ST₆₇ 2000 02 26.4 10 35.28 +17 14.9 18.1 -1.00 + 7.2 3.2/23.8 39244
 1998 SO₁₆₂ 2000 02 26.4 10 35.30 -10 49.4 19.1 -0.88 + 6.5 7.0/03.9 33760
 1998 QX₄₇ 2000 02 26.4 10 35.35 +06 17.6 19.5 -0.99 + 4.7 0.9/27.2 39206
 1997 LF₄ 2000 02 26.4 10 35.39 -09 37.6 18.2 -0.99 + 3.7 8.0/02.6 39180
 2000 CM₅₁ 2000 02 26.4 10 35.46 +02 16.5 16.7 -0.75 + 5.0 2.1/28.5 39396
 2000 DX₈₆ 2000 02 26.4 10 35.47 +19 14.2 17.3 -1.01 + 4.5 4.6/23.4 39471
 1998 WM₁ 2000 02 26.4 10 35.58 +01 19.4 17.3 -0.90 + 5.0 2.3/28.7 39546
 1062 T-2 2000 02 26.4 10 35.69 +10 30.0 18.5 -1.03 + 4.7 0.6/26.0 39500
 1979 MQ₁ 2000 02 26.4 10 35.72 -09 05.1 18.9 -0.94 + 2.1 6.1/02.4 30778
 1998 SJ₁₀ 2000 02 26.5 10 35.75 +07 31.4 18.6 -0.79 + 4.9 0.4/26.9 39231
 1998 SY₅₄ 2000 02 26.5 10 35.82 +17 13.2 18.8 -1.01 + 2.9 2.7/24.3 39240
 1998 QL₅₀ 2000 02 26.5 10 35.83 +14 52.2 18.3 -1.02 + 5.6 2.3/24.8 39534
 1997 HF₇ 2000 02 26.5 10 35.95 +11 34.6 17.1 -1.02 + 5.7 1.1/25.8 39528
 2000 EQ₁₂ 2000 02 26.5 10 35.99 +22 52.2 17.5 -1.06 + 2.0 5.5/22.8 39484
 1999 VH₈₇ 2000 02 26.5 10 36.01 +36 37.8 16.7 -1.04 +19.3 12.1/14.8 39554
 (11386) 2000 02 26.5 10 36.09 -02 04.5 17.8 -0.96 + 5.1 3.4/29.8 35586
 1989 OJ 2000 02 26.5 10 36.09 +31 50.6 19.2 -1.07 + 2.9 6.7/19.7 39514
 2000 AQ₉₇ 2000 02 26.5 10 36.14 +03 33.5 16.2 -1.69 - 7.6 2.8/27.3 39574
 (13773) 2000 02 26.6 10 36.05 +08 06.9 16.2 -0.85 + 7.3 0.3/26.8 38393
 1998 US₆ 2000 02 26.6 10 36.19 +16 51.1 18.2 -0.94 + 4.2 2.8/24.3 39544
 1990 SO₆ 2000 02 26.6 10 36.30 +13 43.9 18.7 -0.98 + 6.4 1.7/25.2 39146
 (13605) 2000 02 26.6 10 36.31 +07 50.0 17.1 -1.01 + 4.0 0.3/26.9 38344
 (14147) 2000 02 26.6 10 36.47 +15 06.8 16.6 -0.99 + 6.3 2.4/24.8 39093
 2000 CH₅₆ 2000 02 26.6 10 36.48 +16 07.6 17.2 -1.02 + 6.9 3.3/24.5 39594
 (13374) 2000 02 26.7 10 36.40 +16 24.6 16.0 -1.09 + 5.9 3.1/24.5 37588
 1994 TT₃ 2000 02 26.7 10 36.49 -16 40.0 18.8 -0.86 + 7.5 7.3/06.4 38763
 1998 VE₃₃ 2000 02 26.7 10 36.53 -09 59.1 17.7 -0.85 + 6.3 6.3/03.7 39546
 (9749) 2000 02 26.7 10 36.58 +05 28.0 17.9 -0.95 + 4.9 1.1/27.7 33199
 1998 UX₆ 2000 02 26.7 10 36.65 +03 37.3 18.9 -1.01 + 5.1 1.8/28.2 39544
 2000 CK₅₆ 2000 02 26.7 10 36.70 +16 13.9 17.5 -0.96 + 7.8 2.6/24.4 39400
 (13555) 2000 02 26.7 10 36.70 -06 45.8 17.0 -0.82 + 6.4 5.0/02.8 38331
 1998 RE₅ 2000 02 26.7 10 36.77 +16 47.1 19.4 -1.08 + 6.1 2.8/24.4 39215
 1998 WH₁₄ 2000 02 26.7 10 36.82 +00 41.4 18.3 -0.82 + 5.3 2.5/29.3 39547
 1988 BL₅ 2000 02 26.7 10 36.82 -09 11.0 17.6 -0.99 + 2.5 6.6/02.9 39513
 1998 UO₃₁ 2000 02 26.8 10 36.77 +14 49.4 19.2 -1.06 + 6.2 2.1/25.0 35723
 1998 SB₁₂ 2000 02 26.8 10 36.78 +05 29.0 19.8 -0.79 + 5.5 1.0/27.8 35716
 2000 CK₃₄ 2000 02 26.8 10 36.96 +07 45.6 17.2 -1.05 + 3.6 0.4/27.1 39386
 2000 AZ₂₀₂ 2000 02 26.8 10 37.09 -11 40.2 18.3 -0.74 + 5.6 6.8/04.9 39354
 2000 DQ₁₃ 2000 02 26.8 10 37.21 +07 05.6 17.7 -0.85 + 5.6 0.5/27.4 39442
 2000 CO₅₁ 2000 02 26.9 10 37.20 +00 56.2 17.2 -0.83 + 2.7 2.2/29.1 39396
 1998 SG₈₇ 2000 02 26.9 10 37.31 +01 31.6 19.9 -0.88 + 5.4 2.1/29.1 34023

(13909)	2000 02 26.9	10 37.32 +14 41.3 18.4	-1.04 + 5.8	2.3/25.2	39026
(9934)	2000 02 26.9	10 37.35 +25 07.0 18.0	-1.08 + 2.2	4.9/22.4	33656
(12727)	2000 02 26.9	10 37.39 +15 58.2 16.3	-0.95 + 8.4	3.1/24.6	37045
1996 GS ₉	2000 02 26.9	10 37.39 +06 38.3 18.7	-0.82 + 5.8	0.6/27.6	39526
2000 AW ₉₆	2000 02 26.9	10 37.44 +13 03.5 16.7	-0.92 + 8.3	2.0/25.6	39574
(14104)	2000 02 26.9	10 37.54 +14 13.6 18.0	-0.84 + 2.6	1.6/25.4	39080
2000 CP ₇₁	2000 02 27.0	10 37.56 -03 40.5 17.2	-0.77 + 9.3	4.7/02.3	39596
2000 DR ₁₃	2000 02 27.0	10 37.59 +07 08.9 18.3	-0.89 + 6.8	0.5/27.5	39442
1994 VF	2000 02 27.0	10 37.67 +06 35.0 18.7	-0.92 + 5.1	0.7/27.6	39522
1981 RW ₄	2000 02 27.0	10 37.68 +14 25.4 18.0	-0.92 + 4.8	1.8/25.3	39512
1995 FU ₄	2000 02 27.0	10 37.69 +07 52.6 17.8	-0.73 + 8.6	0.2/27.3	39165
4239 P-L	2000 02 27.0	10 37.77 +13 30.3 17.9	-0.88 + 2.3	1.4/25.7	39497
2000 DF ₄₃	2000 02 27.0	10 37.79 +10 14.2 18.3	-0.92 + 5.0	0.6/26.6	39453
2000 CJ ₆₁	2000 02 27.0	10 37.79 +00 19.2 17.3	-0.97 + 5.5	3.3/29.5	39403
2000 CK ₆₁	2000 02 27.0	10 37.81 -02 10.0 17.1	-0.98 + 2.6	3.9/01.0	39403
2000 DW ₄₂	2000 02 27.0	10 37.82 +11 40.4 17.7	-1.00 + 0.1	0.8/26.3	39453
(13951)	2000 02 27.0	10 37.84 +13 51.8 17.1	-1.01 + 5.2	2.0/25.5	39037
1991 VR ₂	2000 02 27.0	10 37.84 +45 02.8 19.5	-1.35 + 2.3	10.9/15.3	35684
2000 DX ₄₂	2000 02 27.0	10 37.85 +11 36.1 18.1	-0.92 + 4.6	0.9/26.2	39453
1998 TK ₃₀	2000 02 27.0	10 37.90 -05 26.6 18.2	-0.88 + 7.4	4.6/02.6	39263
2000 EP ₈₅	2000 02 27.0	10 37.91 -05 11.2 18.5	-0.77 + 4.4	4.1/02.4	39494
1998 QE ₄₇	2000 02 27.0	10 37.93 +14 01.5 19.5	-1.03 + 5.7	1.8/25.5	34591
1996 EC ₆	2000 02 27.0	10 37.94 +05 06.3 17.6	-0.83 + 9.2	1.4/28.3	39170
2000 CL ₃₆	2000 02 27.1	10 37.91 +02 02.7 16.9	-0.99 + 4.5	2.9/29.0	39388
2000 CZ ₁₀₂	2000 02 27.1	10 37.92 +16 12.3 18.0	-0.85 + 5.6	2.3/24.7	39434
1997 GD ₁₆	2000 02 27.1	10 37.95 +14 11.6 18.0	-1.06 + 5.6	2.4/25.5	39177
(9731)	2000 02 27.1	10 37.97 -04 13.8 16.6	-0.92 + 7.0	5.0/02.1	33195
1998 WX ₁₂	2000 02 27.1	10 38.01 +06 34.4 17.6	-0.87 + 4.1	0.6/27.7	39280
1994 PO ₃₉	2000 02 27.1	10 38.04 +07 19.0 19.2	-0.96 + 5.1	0.4/27.5	39522
2000 CF ₃₄	2000 02 27.1	10 38.05 +07 42.6 17.9	-0.88 + 5.7	0.3/27.4	39386
2000 DY ₄₂	2000 02 27.1	10 38.11 +11 33.4 18.3	-0.84 + 5.8	0.9/26.2	39453
1998 SC ₆₁	2000 02 27.1	10 38.14 +07 58.5 18.7	-0.96 + 7.3	0.2/27.3	39242
1994 PF ₁₁	2000 02 27.1	10 38.24 +06 45.6 17.4	-1.00 + 4.7	0.8/27.7	39521
1991 PP ₈	2000 02 27.1	10 38.27 +12 07.4 18.4	-0.75 + 4.5	0.9/26.1	39516
1998 SL ₁₂₄	2000 02 27.1	10 38.29 +04 49.3 16.8	-0.91 + 9.6	1.7/28.4	39541
2000 CL ₈₇	2000 02 27.1	10 38.37 +14 12.5 17.2	-1.11 + 2.5	2.3/25.7	39424
(13987)	2000 02 27.2	10 38.28 +09 51.1 18.4	-0.75 + 4.4	0.3/26.8	39047
2000 AA ₁₄₅	2000 02 27.2	10 38.30 +01 50.6 16.5	-0.98 + 3.5	2.9/29.1	39579
1998 UZ ₁₉	2000 02 27.2	10 38.31 +10 08.7 18.6	-0.87 + 4.8	0.5/26.7	39544
2000 CS ₈₆	2000 02 27.2	10 38.32 +12 26.1 17.7	-1.09 + 2.6	1.7/26.2	39423
1992 JL	2000 02 27.2	10 38.37 +26 29.9 17.5	-0.90 + 8.4	5.7/20.9	34008
2000 DP ₉₈	2000 02 27.2	10 38.46 +18 41.0 18.0	-0.89 + 5.2	3.3/24.1	39474
2000 AE ₁₄₄	2000 02 27.2	10 38.55 +00 06.0 17.0	-0.98 + 3.5	3.5/29.6	39579
2000 DC ₄₇	2000 02 27.2	10 38.56 +08 13.0 18.7	-0.75 + 4.7	0.1/27.4	39454
1998 SU ₁₃₂	2000 02 27.2	10 38.57 +01 09.5 18.4	-0.91 + 5.8	2.6/29.5	39542
1998 VL ₃	2000 02 27.2	10 38.70 +11 54.3 19.9	-0.85 + 4.7	1.1/26.3	39545
(14065)	2000 02 27.2	10 38.71 +11 14.5 18.1	-0.94 + 4.8	1.0/26.5	39069
1998 QH ₅₃	2000 02 27.2	10 38.72 +04 49.1 19.5	-0.91 + 4.8	1.1/28.4	39207
1990 XV	2000 02 27.2	10 38.74 -05 36.8 17.3	-0.96 + 2.8	4.6/02.3	39147
(13351)	2000 02 27.3	10 38.69 -00 06.8 15.4	-0.91 + 8.3	3.8/30.0	37582
(14061)	2000 02 27.3	10 38.76 +00 07.6 17.6	-0.91 + 7.1	3.0/01.0	39068

(11321)	2000 02 27.3	10 38.94 +11 58.8 16.9	-0.86 + 2.6	1.0/26.4	35571
1998 WL ₁₀	2000 02 27.3	10 38.98 +05 05.4 17.8	-0.76 + 5.8	1.0/28.5	39547
(9747)	2000 02 27.3	10 39.04 +26 10.6 16.5	-0.81 + 6.5	5.6/21.4	33198
2000 AF ₁₄₄	2000 02 27.3	10 39.08 -00 39.7 17.0	-1.01 + 2.9	3.7/29.9	39579
2000 DN ₉₉	2000 02 27.4	10 39.06 +17 36.6 17.3	-0.94 + 6.6	3.1/24.6	39474
1998 WB ₁₅	2000 02 27.4	10 39.16 +19 52.5 18.9	-0.87 + 5.4	3.5/23.9	34310
1979 MT ₃	2000 02 27.4	10 39.22 +03 01.7 20.8	-1.05 + 5.9	2.0/29.0	30778
2000 CD ₃₄	2000 02 27.4	10 39.27 +08 45.0 16.9	-1.01 + 4.2	0.1/27.4	39385
1998 VK ₁₄	2000 02 27.4	10 39.38 +30 16.2 17.5	-1.15 + 1.4	7.8/21.4	34595
2000 BV ₁₀	2000 02 27.4	10 39.39 +06 25.2 17.6	-0.98 + 5.2	0.8/28.1	39362
1998 UY ₁₅	2000 02 27.5	10 39.45 +16 20.4 19.5	-1.01 + 4.4	2.5/25.3	35722
2000 DT ₁₃	2000 02 27.5	10 39.46 +07 25.5 18.6	-1.00 + 4.2	0.4/27.8	39443
2000 AP ₁₄₄	2000 02 27.5	10 39.46 +00 35.3 16.2	-1.15 - 1.6	2.8/29.2	39579
2000 CC ₃₄	2000 02 27.5	10 39.49 +08 55.4 17.4	-1.03 + 6.1	0.2/27.4	39385
2000 DM ₄₃	2000 02 27.5	10 39.58 +10 40.9 18.5	-0.88 + 5.9	0.7/26.9	39454
1997 TZ ₇	2000 02 27.5	10 39.63 +32 21.6 18.9	-0.86 + 3.1	5.5/19.8	38775
(14028)	2000 02 27.5	10 39.80 +05 06.1 17.9	-0.88 + 6.8	1.1/28.6	39058
2000 EF ₂₁	2000 02 27.5	10 39.80 -06 07.9 17.8	-0.77 + 4.6	4.1/03.2	39488
1998 UB ₉	2000 02 27.5	10 39.83 +05 21.5 17.9	-0.87 + 5.6	1.1/28.5	39544
2000 CU ₄₀	2000 02 27.5	10 39.87 +15 48.8 17.2	-0.88 + 3.8	2.2/25.4	39592
(12734)	2000 02 27.5	10 39.87 +32 44.2 16.2	-1.19 + 0.2	10.5/21.3	37047
1998 WP	2000 02 27.6	10 39.93 -07 53.9 18.4	-0.83 + 4.8	4.4/03.7	39546
2000 AS ₉₆	2000 02 27.6	10 40.05 +18 41.7 16.9	-0.81 + 7.4	4.7/24.2	39574
1996 XT ₁₄	2000 02 27.6	10 40.25 +52 23.2 19.4	-1.52 + 6.0	17.7/10.0	38770
1998 YH ₅	2000 02 27.7	10 40.17 +18 03.0 20.3	-0.73 + 9.2	2.4/24.3	34035
1998 RB ₅₅	2000 02 27.7	10 40.28 -02 32.0 16.4	-0.95 + 5.5	4.9/02.0	39536
1998 UJ ₄₃	2000 02 27.7	10 40.41 +01 52.7 16.8	-0.96 + 4.0	2.5/29.6	39545
2000 CJ ₃₄	2000 02 27.7	10 40.49 +08 00.8 17.1	-0.96 + 6.8	0.1/27.9	39386
(14033)	2000 02 27.7	10 40.49 +13 44.4 18.7	-0.86 + 5.5	1.5/26.1	39060
1998 TD ₁₁	2000 02 27.7	10 40.55 +15 47.0 18.3	-0.88 + 4.7	2.5/25.5	39262
1998 VC ₂₅	2000 02 27.7	10 40.62 +19 41.0 17.7	-1.06 + 5.8	4.6/24.4	34028
(13028)	2000 02 27.8	10 40.72 +21 02.8 17.3	-0.90 + 7.9	3.8/23.6	37494
1998 WR ₇	2000 02 27.8	10 40.75 -10 31.7 20.1	-0.89 + 4.7	5.7/04.8	35726
2000 EL ₉	2000 02 27.8	10 40.84 +11 30.9 17.0	-1.10 + 0.7	1.2/27.1	39483
1998 QS ₂₀	2000 02 27.8	10 40.94 +06 33.3 18.8	-1.05 + 6.3	0.7/28.4	39532
2000 CR ₅₂	2000 02 27.9	10 40.92 +04 18.6 17.8	-0.84 + 2.8	1.1/29.1	39398
1998 QF ₉₉	2000 02 27.9	10 40.92 +15 10.8 17.7	-1.06 + 4.9	2.9/26.0	39211
(13787)	2000 02 27.9	10 40.95 +11 11.2 17.3	-0.77 + 4.9	0.8/27.0	38396
1998 SG ₁₃₄	2000 02 27.9	10 40.98 +24 25.6 18.4	-1.08 + 2.0	5.4/23.6	33569
1998 SU ₆₇	2000 02 27.9	10 41.00 +21 37.2 16.5	-0.89 + 5.8	5.5/23.6	39540
1998 VD ₆	2000 02 27.9	10 41.04 +25 28.5 18.0	-1.01 + 4.3	5.7/22.7	39545
2000 CR ₇₅	2000 02 27.9	10 41.09 -09 26.1 17.7	-0.98 + 1.5	6.2/03.7	39596
1998 SR ₁₁₆	2000 02 27.9	10 41.23 +03 29.2 16.4	-0.93 + 4.2	1.9/29.4	39541
2000 CL ₆₁	2000 02 27.9	10 41.24 -03 23.7 17.4	-0.89 + 1.6	4.9/02.2	39594
2000 CZ ₃₈	2000 02 27.9	10 41.25 +20 21.3 17.5	-0.87 + 5.0	5.6/24.1	39592
2000 BB ₄	2000 02 27.9	10 41.27 +12 32.2 17.8	-0.75 + 6.9	1.2/26.6	39584
1992 EK ₁₂	2000 02 28.0	10 41.40 +08 36.4 18.1	-0.84 + 9.8	0.1/27.9	39518
1998 PZ	2000 02 28.0	10 41.43 +21 35.0 18.4	-1.17 + 3.7	5.2/24.4	39199
1997 SR	2000 02 28.0	10 41.43 +03 08.1 18.0	-0.93 + 2.4	1.5/29.4	39529
2000 CO ₅₆	2000 02 28.0	10 41.58 +16 02.5 18.3	-0.82 + 6.2	2.2/25.6	39400
2000 AS ₁₃₆	2000 02 28.0	10 41.66 +12 25.3 17.0	-0.88 + 9.0	1.8/26.7	39577

2000 MAR. 20

M.P.C. 39671

1996 BM ₆	2000 02 28.0	10 41.72 +12 04.9 20.9	-0.98 + 5.3	1.2/27.0	35694	1998 RZ ₇	2000 02 28.6	10 43.64 +10 00.9 18.8	-1.06 + 4.6	0.7/28.1	39216
2000 CM ₈₇	2000 02 28.0	10 41.76 +16 08.0 16.9	-0.96 + 8.1	2.8/25.6	39425	(13988)	2000 02 28.6	10 43.72 +04 16.7 17.7	-1.06 + 5.2	1.4/29.7	39048
1995 SD ₄	2000 02 28.1	10 41.69 +02 23.7 19.3	-1.03 + 7.0	2.1/01.0	32518	1998 NT	2000 02 28.6	10 43.73 +33 09.7 17.4	-1.07 +22.6	10.2/18.0	39531
2000 CP ₈₆	2000 02 28.1	10 41.76 +16 31.3 16.9	-1.00 + 7.3	3.0/25.5	39423	1998 UQ ₁₅	2000 02 28.6	10 43.78 +13 38.3 16.9	-0.85 + 5.4	1.8/26.9	39544
(9840)	2000 02 28.1	10 41.88 -01 07.1 16.0	-0.95 + 1.4	3.3/01.6	33455	2000 DL ₂	2000 02 28.6	10 43.81 +11 36.0 18.4	-0.98 + 6.9	1.3/27.6	39437
2000 CV ₅₂	2000 02 28.1	10 41.89 +03 32.3 17.1	-0.82 + 9.5	1.5/29.7	39398	1993 FW ₄₁	2000 02 28.6	10 43.82 +11 00.5 18.4	-1.01 + 4.6	1.1/27.8	39519
1987 UX	2000 02 28.1	10 41.98 -17 57.8 19.0	-0.88 + 9.1	7.8/08.7	39513	(13949)	2000 02 28.6	10 43.82 +04 40.1 16.6	-0.94 + 7.8	1.2/29.7	39037
2000 CV ₅₆	2000 02 28.1	10 41.98 +16 36.9 18.2	-0.75 + 6.6	2.3/25.4	39401	1998 RH ₆₃	2000 02 28.6	10 43.82 +12 15.9 18.0	-1.02 + 6.8	1.5/27.4	39537
2000 CM ₁	2000 02 28.1	10 41.98 +09 12.7 17.3	-0.98 + 4.6	0.4/27.9	39588	2000 AC ₉₇	2000 02 28.6	10 43.85 +17 13.7 16.7	-0.85 + 8.8	3.1/25.6	39574
2000 CR ₇₁	2000 02 28.1	10 41.99 -04 08.8 17.4	-0.74 + 6.0	3.7/03.2	39409	2000 DJ ₄₈	2000 02 28.6	10 43.91 +08 37.3 17.7	-0.83 + 4.6	0.2/28.5	39454
2000 AB ₉₇	2000 02 28.1	10 41.99 +10 56.9 16.8	-1.00 + 6.3	1.2/27.4	39574	1998 VV ₁₄	2000 02 28.6	10 43.94 +08 38.2 17.3	-1.04 + 5.4	0.2/28.5	39545
2000 CM ₇₈	2000 02 28.1	10 42.03 +08 52.4 17.6	-0.74 + 4.9	0.2/28.0	39413	1998 QW ₃₁	2000 02 28.6	10 44.01 +10 06.3 17.7	-1.07 + 4.0	0.7/28.1	39533
1998 ON ₁₄	2000 02 28.2	10 42.08 +12 23.1 17.8	-0.96 + 6.7	1.6/26.9	39531	1986 QR ₁	2000 02 28.6	10 44.02 +09 44.3 16.9	-1.00 + 4.2	0.6/28.2	39513
1975 SE ₁	2000 02 28.2	10 42.19 +20 12.1 19.3	-1.02 + 3.9	3.7/24.8	33538	1997 GB ₁₄	2000 02 28.7	10 43.98 +01 28.2 17.2	-1.01 + 6.8	2.7/01.7	39527
2000 CK ₇₀	2000 02 28.2	10 42.24 -04 28.1 17.3	-0.96 + 2.1	4.2/02.6	39595	(9838)	2000 02 28.7	10 43.99 +17 13.1 17.2	-0.81 + 5.0	2.7/25.8	33454
4263 T-2	2000 02 28.2	10 42.25 +13 20.1 18.1	-0.99 + 6.7	2.1/26.7	39648	1994 SL ₇	2000 02 28.7	10 44.03 +14 52.7 18.1	-1.02 + 4.1	2.3/26.8	39162
9594 P-L	2000 02 28.2	10 42.31 +11 18.0 17.9	-0.74 + 4.2	0.9/27.3	39647	2000 AF ₉₇	2000 02 28.7	10 44.03 +10 50.7 15.9	-1.07 + 0.1	1.1/28.0	39574
2000 AN ₁₄₄	2000 02 28.2	10 42.39 -01 13.6 16.7	-1.00 + 1.9	3.2/01.8	39579	2000 CE ₃₄	2000 02 28.7	10 44.05 +09 13.8 17.8	-0.74 + 5.9	0.3/28.3	39386
1997 TA ₂₅	2000 02 28.2	10 42.45 +07 03.9 18.7	-0.75 + 4.8	0.3/28.6	39186	(9815)	2000 02 28.7	10 44.06 +07 56.7 17.3	-0.88 + 3.6	0.0/28.8	33215
2000 CE ₇₆	2000 02 28.3	10 42.43 +09 48.3 17.2	-0.85 + 9.1	0.6/27.8	39411	3268 T-3	2000 02 28.7	10 44.19 -00 02.9 17.8	-0.91 + 7.8	3.3/02.3	39649
1981 EC ₁₄	2000 02 28.3	10 42.45 +05 34.3 17.5	-0.99 + 4.0	1.0/29.0	39511	1998 RA ₅₂	2000 02 28.7	10 44.21 +15 54.9 17.2	-0.94 + 4.6	3.2/26.4	39536
2000 DU ₉₉	2000 02 28.3	10 42.47 +18 47.9 16.7	-1.16 - 1.0	4.4/25.8	39474	2000 DO	2000 02 28.7	10 44.22 +11 00.9 18.0	-0.97 + 1.5	1.2/28.0	39436
1994 PN ₁₉	2000 02 28.3	10 42.51 +06 46.7 17.8	-1.04 + 5.1	0.6/28.7	39162	2000 DP ₁₀₉	2000 02 28.7	10 44.25 +08 42.4 18.2	-1.13 + 2.5	0.3/28.6	39481
1996 HD ₂₂	2000 02 28.3	10 42.53 +31 06.1 17.2	-1.08 + 1.6	9.0/21.6	39526	1996 HZ ₂₁	2000 02 28.7	10 44.38 +32 21.1 17.7	-1.11 + 1.4	9.1/21.6	39526
2000 CV ₈₆	2000 02 28.3	10 42.57 +15 12.3 17.5	-0.88 + 7.6	2.7/26.1	39424	1998 QJ ₉₁	2000 02 28.8	10 44.34 +00 01.0 20.1	-0.87 + 5.6	2.2/02.3	34302
2000 CK ₁	2000 02 28.3	10 42.63 +10 45.9 17.0	-0.99 + 6.1	1.0/27.6	39368	2000 DV ₅₂	2000 02 28.8	10 44.50 +06 48.7 18.4	-0.94 + 5.4	0.4/29.2	39454
1998 QF ₉₃	2000 02 28.3	10 42.65 -04 42.6 18.6	-0.81 + 7.7	3.8/03.7	35713	1998 XG ₁	2000 02 28.8	10 44.51 -08 47.8 19.0	-0.76 + 5.4	5.4/05.4	39284
2000 CH ₈₇	2000 02 28.3	10 42.65 +10 54.3 17.9	-0.89 + 5.7	0.9/27.5	39424	2000 AZ ₂₃₆	2000 02 28.8	10 44.56 +09 50.9 16.3	-0.97 + 9.6	0.7/28.2	39358
2000 CB ₃₄	2000 02 28.3	10 42.68 +11 13.3 18.0	-0.80 +10.7	1.1/27.3	39385	2000 AD ₁₄₄	2000 02 28.8	10 44.69 +12 25.9 17.3	-0.69 +10.8	1.4/27.2	39579
(10076)	2000 02 28.3	10 42.68 +01 04.5 18.4	-0.98 + 1.8	1.9/01.2	33876	1993 FO ₁₄	2000 02 28.9	10 44.74 +17 12.1 18.1	-0.98 + 6.0	4.1/26.0	39154
1999 VK ₂₁	2000 02 28.3	10 42.75 +05 47.5 16.2	-0.99 + 2.3	1.0/29.0	39552	1998 VC ₁₁	2000 02 28.9	10 44.81 +01 19.5 17.2	-0.99 + 7.4	2.7/02.0	39274
2000 DK ₁₀₉	2000 02 28.3	10 42.85 +18 47.5 18.0	-1.00 + 5.8	3.6/25.2	39481	2000 AH ₁₄₄	2000 02 28.9	10 44.84 +05 46.1 16.4	-0.97 + 6.6	0.9/29.6	39349
1998 OK ₁₃	2000 02 28.3	10 42.86 +13 40.5 17.4	-0.97 + 8.9	2.3/26.6	39198	1998 RD ₇₁	2000 02 28.9	10 44.87 +09 39.5 17.8	-0.86 + 8.6	0.6/28.4	39537
1994 PF ₅	2000 02 28.4	10 42.87 +09 48.4 18.0	-0.93 + 8.2	0.6/27.9	39521	2000 DW ₉₉	2000 02 28.9	10 44.89 +18 40.0 17.3	-1.11 + 0.6	3.9/26.2	39475
2000 CA ₃₄	2000 02 28.4	10 42.89 +09 45.9 18.2	-0.84 + 6.0	0.5/27.9	39385	2000 CQ ₇₆	2000 02 28.9	10 44.94 +11 00.8 17.9	-0.79 + 4.5	1.0/28.0	39411
2000 AN ₉₈	2000 02 28.4	10 42.92 +17 28.1 17.0	-0.91 + 8.7	3.7/25.3	39574	1993 FA ₄₅	2000 02 28.9	10 44.94 +12 07.0 17.9	-1.07 + 5.0	1.5/27.8	39519
1998 SS ₂₂	2000 02 28.4	10 43.10 +12 17.7 18.5	-1.03 + 3.6	1.5/27.3	39233	1997 HX ₉	2000 02 28.9	10 44.98 +22 12.0 19.5	-1.05 + 4.7	4.9/24.7	39528
1998 XQ ₉	2000 02 28.4	10 43.23 +01 38.1 18.6	-0.98 + 6.2	2.1/01.4	39548	1998 RF ₅₆	2000 02 28.9	10 45.00 +03 52.4 17.6	-1.00 + 5.9	1.6/01.2	39536
2000 CV ₄₀	2000 02 28.4	10 43.25 +15 41.1 17.8	-0.87 + 2.9	2.2/26.3	39392	1998 WG ₂₃	2000 02 28.9	10 45.00 +02 29.0 18.7	-0.96 + 5.3	1.9/01.6	34311
1985 RM ₃	2000 02 28.5	10 43.35 +08 18.8 17.6	-1.01 + 8.0	0.1/28.5	39513	2000 CE ₂	2000 02 28.9	10 45.01 +17 01.8 17.7	-1.08 + 2.0	3.0/26.6	39369
1998 QY ₄₀	2000 02 28.5	10 43.38 +04 55.7 18.3	-0.95 + 7.7	1.1/29.5	39533	3101 T-3	2000 02 28.9	10 45.05 +21 21.9 18.0	-1.09 + 4.3	4.9/25.1	39649
2046 P-L	2000 02 28.5	10 43.47 +04 22.3 18.6	-0.90 + 4.8	1.2/29.7	39494	4153 T-2	2000 02 29.0	10 45.07 +12 15.6 18.6	-0.83 + 4.7	1.3/27.7	39648
1998 QP ₉₂	2000 02 28.5	10 43.53 +13 13.9 19.0	-0.97 + 6.1	1.6/27.0	34302	(14056)	2000 02 29.0	10 45.19 +14 47.6 18.1	-1.00 + 5.7	2.5/27.0	39066
1998 SD ₁₁₀	2000 02 28.5	10 43.57 -06 21.6 16.9	-0.92 + 7.1	5.9/04.2	39540	1998 WA ₉	2000 02 29.0	10 45.26 +10 41.5 17.3	-1.15 + 2.1	1.2/28.3	39279
(10010)	2000 02 28.5	10 43.61 +06 15.1 17.9	-0.88 + 7.5	0.6/29.2	33860	1981 EH ₂₈	2000 02 29.0	10 45.27 +11 05.6 17.5	-0.96 + 4.9	1.3/28.1	39512
1998 VN ₂₁	2000 02 28.5	10 43.62 +06 12.6 19.8	-0.90 + 4.8	0.6/29.1	39546	1998 SS ₆₃	2000 02 29.0	10 45.28 +10 18.1 18.1	-0.99 + 2.9	0.8/28.4	39243
1998 UF ₉	2000 02 28.5	10 43.65 +12 35.4 17.5	-1.08 + 3.3	2.0/27.4	39544	2000 EV ₁₃	2000 02 29.0	10 45.36 +12 35.3 18.0	-0.95 + 2.9	1.6/27.8	39484
1998 QP ₂₀	2000 02 28.6	10 43.56 +03 56.9 17.7	-0.95 + 4.4	1.5/01.0	39202	(13303)	2000 02 29.0	10 45.37 +08 58.7 16.9	-0.90 + 6.5	0.4/28.7	37568
1998 WG ₇	2000 02 28.6	10 43.57 +16 48.3 17.7	-0.97 + 6.6	2.8/25.9	39547	(13316)	2000 02 29.0	10 45.41 +11 42.5 17.0	-1.00 + 5.8	1.7/27.9	37572
1998 VH ₃₃	2000 02 28.6	10 43.57 +14 08.3 18.9	-1.02 + 6.2	2.1/26.8	39275	2000 CM ₃₆	2000 02 29.0	10 45.47 +00 43.0 17.2	-1.01 + 0.8	3.0/01.9	39389
2000 EN ₉	2000 02 28.6	10 43.63 +09 49.7 18.6	-0.74 + 6.8	0.5/28.0	39483	2000 AA ₉₇	2000 02 29.0	10 45.49 +14 10.3 17.2	-0.89 + 8.9	2.6/27.0	39574

1998 RF ₅₂	2000 02 29.1	10 45.51 +21 06.7 18.4	-1.10 + 1.4	4.8/25.7	39536	(9735)	2000 02 29.9	10 48.45 +21 05.3 16.7	-0.99 + 8.3	5.1/25.4	33196
1998 QQ ₁	2000 02 29.1	10 45.51 +08 22.3 17.5	-0.93 + 7.6	0.2/29.0	39199	1998 RJ	2000 02 29.9	10 48.56 +17 59.0 21.0	-1.08 + 4.9	3.6/26.9	39214
2000 CW ₆₁	2000 02 29.1	10 45.52 -02 28.1 17.5	-0.91 + 6.9	4.0/03.4	39404	1998 QF ₂₀	2000 02 29.9	10 48.58 -00 25.2 19.5	-0.98 + 6.2	2.8/03.4	32694
1998 RV ₁₅	2000 02 29.1	10 45.78 +01 25.7 18.1	-0.81 + 9.0	2.0/02.4	39216	(9827)	2000 02 29.9	10 48.58 -08 56.3 17.9	-0.68 + 6.3	4.0/06.7	33452
1998 VN ₁₁	2000 02 29.1	10 45.80 +10 47.6 16.8	-1.06 + 7.1	1.2/28.3	39545	(9758)	2000 02 29.9	10 48.60 -05 27.1 16.5	-0.88 + 2.0	5.6/04.7	33201
(13615)	2000 02 29.1	10 45.80 +14 33.2 17.2	-0.85 + 8.7	2.1/26.9	38347	2000 CC ₂	2000 02 29.9	10 48.62 +18 44.8 16.4	-0.83 +11.3	4.0/25.8	39588
2000 DP ₅₁	2000 02 29.1	10 45.87 +10 08.1 17.9	-0.98 + 3.3	0.8/28.6	39454	1998 WX ₃	2000 02 29.9	10 48.65 +28 01.4 19.1	-0.93 + 4.7	5.5/23.5	35725
2000 AX ₉₇	2000 02 29.1	10 45.94 +00 05.3 17.0	-1.64 - 5.6	3.8/01.4	39574	2000 AR ₁₆₂	2000 02 29.9	10 48.65 +03 54.9 16.5	-1.03 + 1.1	1.3/01.9	39580
2000 CL ₇₀	2000 02 29.2	10 45.91 -03 23.4 17.3	-0.88 + 8.7	3.9/03.9	39409	2000 AJ ₂₃₃	2000 02 29.9	10 48.80 +16 35.0 17.2	-0.99 + 3.5	3.6/27.4	39357
1998 SY ₇₅	2000 02 29.2	10 45.92 +09 41.3 17.9	-1.05 + 4.1	0.7/28.7	39247	1998 RC ₆₈	2000 03 01.0	10 48.90 +04 14.7 17.7	-0.96 + 6.2	1.2/02.0	39224
(13636)	2000 02 29.2	10 46.18 +06 48.5 17.3	-0.94 + 5.6	0.4/29.6	38352	2000 CB ₉₁	2000 03 01.0	10 48.97 +07 37.9 17.0	-0.78 + 4.7	0.0/30.0	39426
(13217)	2000 02 29.2	10 46.21 +08 12.1 16.9	-0.91 + 7.9	0.2/29.2	37544	1978 PV ₂	2000 03 01.0	10 48.99 +04 05.5 17.4	-1.06 + 4.7	1.2/02.0	39510
(14276)	2000 02 29.2	10 46.23 +17 00.0 16.2	-1.09 + 4.5	3.3/26.7	39129	1169 T-2	2000 03 01.0	10 49.00 +07 25.2 17.1	-0.85 + 4.1	0.0/01.1	22701
1998 US ₃₁	2000 02 29.2	10 46.26 +14 16.9 17.7	-0.89 + 5.2	2.1/27.3	39272	1994 RD ₃	2000 03 01.0	10 49.02 +05 40.7 18.5	-1.01 + 3.8	0.6/01.6	39162
2000 CB ₇₀	2000 02 29.2	10 46.26 +02 25.3 16.6	-0.94 + 8.3	2.2/02.0	39408	1998 VF ₂₆	2000 03 01.0	10 49.05 +01 43.9 19.3	-1.01 + 6.1	2.0/02.8	34538
(13213)	2000 02 29.3	10 46.18 +15 25.3 16.2	-0.99 + 6.4	3.4/27.0	37543	2000 CX ₃₆	2000 03 01.0	10 49.09 +05 53.5 17.0	-1.09 + 3.9	0.7/01.5	39591
1998 RL ₁₅	2000 02 29.3	10 46.28 +07 07.7 17.0	-0.93 + 6.1	0.3/29.5	39536	1991 RH ₁	2000 03 01.0	10 49.11 +10 25.4 19.0	-1.04 + 4.5	1.0/29.2	39516
2000 CB ₂	2000 02 29.3	10 46.32 +17 14.4 17.0	-0.93 + 7.9	3.9/26.2	39588	1999 XW ₉₄	2000 03 01.0	10 49.13 +13 47.4 17.2	-0.90 + 4.0	2.0/28.2	39328
1998 XO ₂₈	2000 02 29.3	10 46.38 +03 09.7 17.0	-0.85 + 4.6	1.5/01.7	39288	2000 CV ₇₆	2000 03 01.1	10 49.25 +10 16.7 17.8	-0.98 + 4.0	1.3/29.3	39412
1999 XG ₂₃₁	2000 02 29.3	10 46.42 +38 39.4 17.0	-0.93 + 3.6	9.3/18.8	39566	1998 RQ ₆₁	2000 03 01.1	10 49.26 +06 05.9 17.2	-0.95 + 4.0	0.5/01.5	39537
1998 WD ₁₅	2000 02 29.3	10 46.52 +10 12.7 18.2	-0.80 + 5.7	0.8/28.6	39547	2000 DW ₅₃	2000 03 01.1	10 49.26 +04 21.8 17.7	-0.87 + 5.2	1.0/02.1	39455
2000 CS ₇₉	2000 02 29.3	10 46.61 +06 48.7 19.1	-0.84 + 5.9	0.3/29.7	39414	(13325)	2000 03 01.1	10 49.27 +16 17.6 16.4	-1.01 + 7.3	3.6/27.3	37574
1998 VS ₆	2000 02 29.4	10 46.56 -05 08.9 17.6	-0.84 + 5.4	4.0/04.5	39274	2000 AY ₉₆	2000 03 01.1	10 49.29 +21 16.0 16.6	-0.82 + 7.4	4.9/25.4	39574
1998 QV ₂₄	2000 02 29.4	10 46.98 +06 34.4 17.9	-0.96 + 7.6	9.6/21.0	39532	1975 VZ ₈	2000 03 01.1	10 49.41 -04 41.8 17.4	-0.89 + 2.9	3.6/04.7	39510
1998 SW ₅₉	2000 02 29.5	10 47.03 +09 22.4 18.7	-0.88 + 7.0	0.5/29.0	39242	1998 QF ₃₇	2000 03 01.1	10 49.46 +02 30.5 20.1	-0.89 + 6.5	1.5/02.7	33082
2000 DF ₁₀₀	2000 02 29.5	10 47.04 +14 48.3 18.3	-0.86 + 2.1	1.9/27.5	39475	1998 QB ₉₄	2000 03 01.1	10 49.49 +01 59.6 19.5	-0.97 + 8.2	1.9/02.9	34591
1993 FR ₁₀	2000 02 29.5	10 47.07 +16 14.0 17.5	-1.04 + 4.6	3.1/27.1	39154	(14070)	2000 03 01.1	10 49.52 +15 40.0 17.1	-0.83 + 4.7	2.4/27.6	39070
1993 FS ₁₁	2000 02 29.5	10 47.11 +07 34.5 16.5	-0.88 + 9.5	0.1/29.6	39519	1978 VO ₆	2000 03 01.1	10 49.54 +01 18.7 17.3	-1.01 + 5.4	2.3/03.0	39511
1990 OR ₃	2000 02 29.5	10 47.21 +04 58.7 16.9	-1.01 + 3.8	1.0/01.3	39515	1998 TN ₁₃	2000 03 01.1	10 49.55 +04 02.6 19.0	-0.98 + 6.8	1.2/02.2	39262
2000 CW ₇₆	2000 02 29.5	10 47.40 +09 01.3 18.0	-1.08 + 3.8	0.5/29.2	39412	1998 WL ₅	2000 03 01.1	10 49.61 +10 44.5 17.6	-0.83 + 4.6	1.1/29.2	39547
(13535)	2000 02 29.6	10 47.37 +01 15.3 17.3	-1.05 + 4.8	2.5/02.4	38325	1998 SL ₆₅	2000 03 01.2	10 49.61 +11 33.0 17.1	-0.92 + 7.1	1.5/28.9	39244
(13973)	2000 02 29.6	10 47.44 +09 17.7 17.8	-0.97 + 6.6	0.6/29.1	39043	(10168)	2000 03 01.2	10 49.72 +15 21.7 18.5	-0.83 + 6.7	2.5/27.6	33898
2000 AM ₁₄₄	2000 02 29.6	10 47.51 +03 04.5 16.4	-1.05 + 4.3	2.0/01.9	39579	2000 CS ₃₄	2000 03 01.2	10 49.76 +10 18.9 18.4	-0.92 + 6.8	1.0/29.4	39387
1998 SU ₆₀	2000 02 29.6	10 47.55 +13 37.9 18.0	-1.07 + 6.3	2.4/27.9	39540	6763 P-L	2000 03 01.2	10 49.77 +03 40.1 19.2	-0.94 + 8.4	1.3/02.5	39647
1998 SD ₁₁₂	2000 02 29.6	10 47.56 +10 09.0 18.7	-0.94 + 6.5	0.8/28.9	39541	1993 FL ₁	2000 03 01.2	10 49.78 +19 35.2 16.5	-1.07 + 4.0	4.9/26.7	39519
1992 EJ ₁₄	2000 02 29.6	10 47.65 +04 19.3 17.6	-0.93 + 4.7	1.2/01.7	39151	2000 DH ₁₄	2000 03 01.2	10 49.81 +07 26.5 19.4	-0.79 + 4.5	0.0/01.3	39443
1998 SK ₁₁₅	2000 02 29.6	10 47.66 +21 32.6 16.4	-1.10 0.0	5.5/26.2	39250	2000 AN ₉₃	2000 03 01.2	10 49.82 +37 09.9 16.5	-1.02 +19.1	12.5/17.1	39573
(14112)	2000 02 29.7	10 47.68 +10 35.1 17.1	-0.98 + 4.8	1.1/28.9	39083	2000 CG ₂	2000 03 01.2	10 49.83 +16 45.8 17.2	-0.94 + 2.6	2.7/27.6	39369
2000 CL ₁	2000 02 29.7	10 47.75 +13 38.4 17.2	-0.75 +12.7	2.2/27.5	39588	2000 DX ₅₄	2000 03 01.2	10 49.94 +08 04.1 18.5	-1.00 + 7.4	0.2/01.1	39455
1998 VX ₃₂	2000 02 29.7	10 47.77 +12 35.4 19.1	-0.92 + 5.2	1.6/28.2	39546	2000 AE ₂₀₃	2000 03 01.2	10 49.98 -13 09.9 17.4	-0.87 + 2.5	7.0/07.5	39354
1992 GA ₅	2000 02 29.7	10 47.93 +13 42.2 18.6	-0.94 + 5.4	1.9/27.9	39151	(13946)	2000 03 01.3	10 49.96 +10 08.9 18.3	-0.92 + 6.4	0.8/29.5	39036
2000 DO ₅₂	2000 02 29.7	10 47.96 +08 32.0 18.2	-0.96 + 4.3	0.3/29.5	39454	1991 SW	2000 03 01.3	10 50.00 +18 34.3 18.1	-0.74 + 6.0	3.0/26.5	39148
1998 TM ₃₀	2000 02 29.7	10 48.00 +03 56.4 18.6	-0.87 + 5.7	1.1/01.9	39263	(13557)	2000 03 01.3	10 50.14 +20 19.3 17.2	-0.84 + 7.4	3.8/25.9	38331
2000 CP ₅₄	2000 02 29.7	10 48.04 +06 02.5 17.6	-0.86 + 6.0	0.6/01.3	39399	1988 RX ₃	2000 03 01.3	10 50.18 +06 39.5 18.2	-0.80 + 6.3	0.2/01.6	39142
2000 DA ₆₆	2000 02 29.8	10 48.07 +04 33.5 18.0	-0.98 + 5.7	1.1/01.7	39459	2000 ED ₂₈	2000 03 01.3	10 50.30 +20 13.3 18.9	-1.02 + 5.7	4.4/26.4	39488
1998 SD ₁₄₄	2000 02 29.8	10 48.11 -15 03.7 17.4	-0.77 +12.1	8.1/09.7	39542	4200 P-L	2000 03 01.3	10 50.35 +02 58.7 19.0	-0.96 + 7.2	1.5/02.8	39647
1987 QT	2000 02 29.8	10 48.15 +06 00.0 18.1	-1.05 + 3.5	0.6/01.3	39513	1998 TL ₃₀	2000 03 01.3	10 50.36 +04 46.4 18.7	-0.85 + 5.6	0.8/02.2	39543
1989 TA ₁₆	2000 02 29.8	10 48.27 +04 02.0 17.9	-0.88 + 5.5	1.1/01.9	39514	(13920)	2000 03 01.3	10 50.37 +04 23.5 17.6	-1.07 + 5.5	1.1/02.2	39029
1998 YZ ₆	2000 02 29.8	10 48.42 +20 46.1 17.9	-0.84 + 5.8	3.7/25.6	39292	1998 QV ₅₀	2000 03 01.4	10 50.37 +10 54.0 18.4	-0.99 + 6.3	1.2/29.4	39207
1991 TB	2000 02 29.8	10 48.47 +18 28.4 17.5	-1.11 + 3.7	4.1/26.9	39148	1998 SF ₁₃₄	2000 03 01.4	10 50.45 +10 54.3 18.9	-0.99 + 5.2	1.2/29.4	35719
7061 P-L	2000 02 29.8	10 48.47 +00 02.3 18.6	-0.91 + 6.9	2.6/03.3	38907	1998 RY ₅₅	2000 03 01.4	10 50.48 +04 45.9 18.4	-1.06 + 4.9	1.0/02.2	39536

2000 MAR. 20

M.P.C. 39673

2000 CE₉₁ 2000 03 01.4 10 50.48 +07 08.7 17.4 -0.90 + 4.7 0.1/01.5 39427
 1994 VH 2000 03 01.4 10 50.57 +17 03.5 18.6 -0.96 + 4.3 2.9/27.6 39522
 (14100) 2000 03 01.4 10 50.73 +06 54.1 17.2 -0.77 + 4.9 0.1/01.6 39079
 2000 CO₃₆ 2000 03 01.5 10 50.72 +04 05.2 16.8 -0.74 + 5.7 1.0/02.6 39389
 1998 TX₇ 2000 03 01.5 10 50.76 +06 56.2 17.7 -0.90 + 6.3 0.2/01.6 39261
 1997 PA₄ 2000 03 01.5 10 50.76 -16 32.0 18.5 -0.90 + 0.8 6.2/08.5 38045
 1998 SM₁₇ 2000 03 01.5 10 50.90 +06 56.3 19.1 -0.87 + 7.0 0.1/01.7 39233
 (14180) 2000 03 01.5 10 50.98 +10 42.3 18.2 -0.76 + 5.0 0.9/29.5 39103
 5089 T-3 2000 03 01.5 10 51.09 +15 32.7 18.2 -0.97 + 8.1 2.9/27.9 39508
 (14049) 2000 03 01.5 10 51.10 +00 37.3 18.0 -1.01 + 5.5 2.4/03.6 39064
 1985 RN₃ 2000 03 01.6 10 51.12 +09 08.4 17.7 -1.09 + 4.7 0.7/01.1 39513
 1998 SQ₁₅ 2000 03 01.6 10 51.13 +05 36.8 18.6 -0.92 + 5.9 0.6/02.1 39232
 1998 WB₁₉ 2000 03 01.6 10 51.14 +17 51.7 20.5 -0.89 + 5.3 3.0/27.3 35727
 2000 AD₉₇ 2000 03 01.6 10 51.14 +08 15.9 15.1 -1.10 - 0.2 0.5/01.4 39574
 1998 RR₅ 2000 03 01.6 10 51.23 +06 11.4 20.5 -0.93 + 6.4 0.4/02.0 35713
 (13964) 2000 03 01.6 10 51.49 +06 24.7 18.1 -0.73 + 4.4 0.2/02.0 39041
 2000 AE₉₇ 2000 03 01.6 10 51.50 +14 41.6 16.9 -0.95 + 3.7 3.2/28.5 39344
 2000 AU₁₆₂ 2000 03 01.6 10 51.50 +10 34.4 17.7 -1.01 + 4.7 1.4/29.7 39351
 1996 LG₄ 2000 03 01.7 10 51.46 +11 29.0 17.7 -0.81 + 5.1 1.1/29.4 28863
 (9720) 2000 03 01.7 10 51.57 +09 11.6 16.4 -0.97 + 0.6 0.7/01.2 33192
 (11291) 2000 03 01.7 10 51.66 +10 46.8 19.5 -0.72 + 4.4 0.8/29.6 35563
 2000 EX₇₉ 2000 03 01.7 10 51.72 +15 14.0 17.9 -1.05 + 6.5 3.2/28.4 39493
 2000 CX₇₉ 2000 03 01.7 10 51.80 +07 14.9 18.4 -0.95 + 6.6 0.0/01.8 39414
 2000 C_{J2} 2000 03 01.7 10 51.81 +19 59.1 17.2 -1.01 + 5.2 4.8/26.9 39369
 1998 XD₁₇ 2000 03 01.7 10 51.81 +14 48.5 20.6 -0.85 + 5.9 2.2/28.4 33531
 1996 ET₁ 2000 03 01.8 10 51.99 +14 10.3 17.1 -1.07 + 1.9 2.4/29.0 39170
 (13984) 2000 03 01.8 10 51.99 +10 46.2 18.3 -0.79 + 4.7 1.0/29.7 39046
 1998 VO₃₈ 2000 03 01.8 10 52.00 -04 50.3 17.3 -0.76 + 5.1 3.7/06.0 39276
 1995 VZ₁₃ 2000 03 01.8 10 52.00 +20 22.2 18.5 -1.00 + 5.5 5.9/26.8 39167
 (13908) 2000 03 01.8 10 52.05 +08 46.7 17.6 -1.00 + 8.0 0.6/01.4 39026
 1187 T-2 2000 03 01.8 10 52.05 +07 44.5 20.5 -0.92 + 4.7 0.2/01.7 39648
 1998 SE₄₃ 2000 03 01.8 10 52.06 +13 45.3 16.8 -1.11 + 2.8 2.8/29.1 39539
 2000 AO₁₄₄ 2000 03 01.8 10 52.15 -01 49.8 16.4 -1.05 + 2.6 4.1/04.3 39579
 2000 DT₁₀₀ 2000 03 01.8 10 52.20 +16 51.7 17.2 -0.94 + 4.7 3.5/28.0 39475
 2000 CC₉₁ 2000 03 01.8 10 52.21 +06 42.1 17.7 -0.79 + 5.4 0.1/02.0 39427
 2000 CX₁ 2000 03 01.9 10 52.20 +10 29.3 17.0 -0.84 + 7.0 1.0/29.8 39588
 1998 WK₁₄ 2000 03 01.9 10 52.26 +17 06.1 18.9 -0.87 + 4.9 3.1/27.8 39281
 (14004) 2000 03 01.9 10 52.33 +14 48.1 18.3 -1.00 + 2.6 2.2/28.8 39052
 (10749) 2000 03 01.9 10 52.34 +14 12.7 17.5 -0.94 + 6.3 2.9/28.8 34757
 2000 DO₅₇ 2000 03 01.9 10 52.40 +04 41.8 18.5 -0.81 + 5.2 0.8/02.7 39456
 1998 SY₁₁₈ 2000 03 01.9 10 52.49 +06 02.8 17.4 -0.88 + 6.0 0.4/02.3 39251
 1998 VD₂ 2000 03 01.9 10 52.51 +05 05.4 18.1 -0.79 + 5.0 0.7/02.6 39273
 1993 PP₅ 2000 03 01.9 10 52.56 +05 58.9 19.9 -0.84 + 6.4 0.3/02.4 24584
 (13576) 2000 03 02.0 10 52.60 +12 38.6 16.6 -1.00 + 6.5 2.1/29.3 38337
 2000 AO₂₄₃ 2000 03 02.0 10 52.79 +14 28.8 17.3 -1.03 + 4.0 3.5/28.9 39583
 (9952) 2000 03 02.0 10 52.93 +06 36.1 15.9 -0.89 + 4.6 0.2/02.2 33660
 2000 DM₂ 2000 03 02.1 10 52.97 +07 02.0 17.3 -0.85 + 6.8 0.0/02.1 39437
 (10086) 2000 03 02.1 10 53.09 +08 56.9 16.9 -1.07 + 1.9 0.7/01.7 33878
 2000 CU₆₁ 2000 03 02.1 10 53.11 +00 37.0 17.2 -0.90 + 7.9 2.7/04.3 39403
 1998 UV₃₅ 2000 03 02.1 10 53.13 +15 21.0 18.0 -1.07 + 5.3 3.3/28.7 39545
 1990 SC₃ 2000 03 02.1 10 53.21 +11 42.5 18.3 -0.92 + 6.9 1.5/29.7 39515

2000 DN₆₆ 2000 03 02.1 10 53.21 +07 46.5 17.9 -0.82 + 4.4 0.2/02.0 39460
 2000 DY₅₆ 2000 03 02.1 10 53.26 +05 26.2 18.2 -0.90 + 5.2 0.6/02.7 39456
 1995 YY 2000 03 02.1 10 53.30 +15 23.8 17.1 -0.98 + 7.7 3.2/28.5 39524
 (13541) 2000 03 02.2 10 53.34 +21 47.5 16.5 -1.04 + 3.7 6.2/26.9 38327
 2666 P-L 2000 03 02.2 10 53.40 +06 05.1 20.3 -0.89 + 7.1 0.3/02.5 32536
 2000 AD₂₃₇ 2000 03 02.2 10 53.60 -08 03.5 17.2 -0.98 + 1.7 5.2/06.0 39358
 (14040) 2000 03 02.2 10 53.68 +01 18.4 18.0 -1.06 + 5.3 2.3/03.9 39062
 2000 DZ₅₆ 2000 03 02.2 10 53.69 +05 27.7 18.3 -0.87 + 6.7 0.6/02.8 39456
 1993 TS₁₆ 2000 03 02.2 10 53.72 +06 47.9 16.9 -0.81 + 6.5 0.1/02.4 31538
 (14006) 2000 03 02.3 10 53.72 +03 28.3 16.8 -0.79 + 6.9 1.0/03.5 39052
 5552 P-L 2000 03 02.3 10 53.72 +16 01.9 19.5 -0.96 + 3.8 2.8/28.7 36121
 (13501) 2000 03 02.3 10 53.75 -03 38.5 16.9 -0.73 + 6.1 3.2/05.9 38316
 1994 YZ 2000 03 02.3 10 53.76 -10 06.9 18.0 -0.92 + 3.0 5.0/07.3 33749
 (13665) 2000 03 02.3 10 53.78 +06 07.2 16.9 -1.06 + 5.0 0.4/02.6 38361
 2000 CN₅₃ 2000 03 02.3 10 53.79 +05 51.9 17.2 -0.80 + 4.9 0.4/02.7 39398
 (13488) 2000 03 02.3 10 53.84 -08 14.2 16.5 -0.77 + 4.9 4.5/07.3 38313
 1993 QV₁ 2000 03 02.3 10 53.84 +05 04.3 17.9 -0.84 + 5.6 0.6/03.0 39520
 2000 DA₅₈ 2000 03 02.3 10 53.88 +03 24.6 18.4 -0.86 + 7.1 1.2/03.5 39457
 1998 SQ₁₆₁ 2000 03 02.3 10 53.90 +13 00.9 19.4 -0.95 + 4.7 2.0/29.6 35720
 (14303) 2000 03 02.3 10 53.94 +05 40.4 17.8 -0.87 + 2.6 0.4/02.7 39137
 2000 DK₅₅ 2000 03 02.3 10 53.94 +09 37.2 17.6 -1.01 + 6.8 1.1/01.6 39455
 1994 VZ₆ 2000 03 02.3 10 54.07 +00 54.1 19.5 -0.89 + 5.9 1.9/04.3 39522
 2000 AW₂₀₃ 2000 03 02.3 10 54.12 -11 54.2 17.5 -0.86 + 4.6 7.1/08.5 39355
 1998 QL₄₁ 2000 03 02.3 10 54.13 +05 04.1 18.3 -1.03 + 2.2 0.6/02.9 39204
 1997 JF₁₆ 2000 03 02.4 10 54.05 +04 02.4 17.8 -0.93 + 7.6 1.1/03.3 39528
 2000 CG₉₁ 2000 03 02.4 10 54.08 +05 51.6 17.3 -1.07 + 2.2 0.5/02.7 39599
 1997 WG₁ 2000 03 02.4 10 54.09 -07 45.1 17.7 -0.76 + 4.8 4.0/07.2 39530
 (13971) 2000 03 02.4 10 54.13 +12 35.6 18.2 -0.99 + 6.3 2.0/29.7 39043
 2000 AK₉₇ 2000 03 02.4 10 54.27 +15 03.9 16.5 -0.70 + 8.1 2.2/28.6 39574
 2000 DA₁₀₁ 2000 03 02.4 10 54.35 +14 34.4 18.0 -1.06 + 4.0 2.7/29.3 39475
 1978 VW₉ 2000 03 02.4 10 54.44 +10 58.3 18.3 -0.92 + 5.2 1.3/01.3 39511
 2000 CT₉₅ 2000 03 02.4 10 54.45 +07 08.9 19.0 -0.86 + 6.1 0.1/02.4 39431
 (13633) 2000 03 02.4 10 54.45 +12 30.9 17.4 -1.10 + 4.6 2.4/29.9 38352
 2000 CV₆₁ 2000 03 02.4 10 54.47 +00 46.4 17.6 -0.88 + 8.9 2.5/04.6 39404
 1998 ST₆₃ 2000 03 02.5 10 54.49 +02 52.7 17.1 -0.89 + 6.3 1.4/03.8 39540
 1998 RU₂ 2000 03 02.5 10 54.51 +06 43.2 18.4 -0.95 + 5.2 0.1/02.6 39536
 1998 SZ₁₄₅ 2000 03 02.5 10 54.52 +01 02.1 18.2 -0.92 + 7.6 1.9/04.4 39542
 1993 FU₂₂ 2000 03 02.5 10 54.55 +05 57.6 18.3 -1.01 + 5.2 0.4/02.8 39154
 2000 DX₁₀₄ 2000 03 02.5 10 54.64 +14 25.3 18.4 -1.01 + 6.9 2.6/29.2 39478
 5111 T-3 2000 03 02.5 10 54.65 +30 13.5 18.8 -1.04 + 3.3 7.2/24.3 34618
 1994 PA₁₇ 2000 03 02.5 10 54.69 +04 19.6 18.8 -0.94 + 5.6 0.8/03.3 39161
 2000 AP₂₄₃ 2000 03 02.5 10 54.74 +16 04.5 16.7 -0.74 + 6.1 2.5/28.5 39583
 1998 VJ₂₆ 2000 03 02.5 10 54.75 +05 13.2 18.8 -0.93 + 5.4 0.6/03.1 39546
 2288 T-3 2000 03 02.5 10 54.87 +08 25.9 18.2 -1.03 + 4.5 0.5/02.2 39649
 1994 PC₂₆ 2000 03 02.6 10 54.81 +11 34.5 19.5 -0.94 + 7.7 1.6/01.1 29138
 1998 UO₁₆ 2000 03 02.6 10 54.90 +09 39.1 18.1 -0.82 + 6.3 0.9/01.7 39268
 (13913) 2000 03 02.6 10 54.91 +12 50.0 18.2 -0.87 + 3.6 1.6/29.9 39027
 1998 TW₁ 2000 03 02.6 10 54.97 +22 51.7 18.1 -0.93 + 4.0 4.9/26.7 39259
 2325 T-2 2000 03 02.6 10 55.05 +04 45.6 18.1 -0.85 + 7.0 0.7/03.3 39502
 1998 YB₇ 2000 03 02.6 10 55.15 -09 09.0 17.3 -0.94 + 2.9 5.0/07.4 39549
 1044 T-2 2000 03 02.6 10 55.21 +04 59.7 17.9 -1.04 + 4.6 0.7/03.2 39648

2000 DD ₁₀₁	2000 03 02.7	10 55.21 +13 44.4 17.8	-1.13 + 0.4	2.5/30.0	39475
2000 DL ₅₆	2000 03 02.7	10 55.27 +06 16.4 18.2	-0.97 + 4.7	0.2/02.9	39456
1998 SR ₁₀₇	2000 03 02.7	10 55.32 +08 13.7 15.9	-1.04 + 3.5	0.6/02.4	39540
(14182)	2000 03 02.7	10 55.38 -02 08.4 18.2	-0.94 + 6.6	3.1/05.5	39103
1998 XH ₁	2000 03 02.7	10 55.41 +09 36.2 16.9	-0.82 + 5.6	1.0/01.9	39284
(13583)	2000 03 02.7	10 55.43 +12 32.6 17.0	-0.87 + 5.1	1.9/30.0	38338
2000 BD ₁	2000 03 02.7	10 55.45 -02 30.6 15.5	-0.69 +40.8	4.0/07.1	39584
1998 TE ₂₇	2000 03 02.7	10 55.46 +05 57.2 18.2	-0.85 + 5.4	0.3/03.0	39262
1993 TM ₂₄	2000 03 02.7	10 55.47 +14 06.4 18.5	-0.85 + 4.6	2.2/29.5	39520
2000 CV ₁	2000 03 02.7	10 55.56 +05 48.5 16.9	-0.70 + 6.9	0.3/03.1	39368
1998 ST ₁₃₈	2000 03 02.7	10 55.57 +12 49.8 18.8	-1.03 + 3.6	2.0/01.1	39255
2324 T-3	2000 03 02.7	10 55.58 +06 45.0 16.8	-1.08 + 4.1	0.0/02.8	39506
2000 DN ₁₀₁	2000 03 02.7	10 55.62 +16 02.3 17.6	-0.91 + 8.7	3.7/28.7	39475
4032 T-3	2000 03 02.8	10 55.65 +14 44.5 18.0	-1.02 + 5.4	2.8/29.5	39649
1998 YC ₈	2000 03 02.8	10 55.66 -10 03.7 17.6	-0.91 + 3.8	5.0/08.0	39549
1998 SR ₁₁₉	2000 03 02.8	10 55.69 +04 12.1 18.6	-0.81 + 7.6	0.8/03.7	39541
1998 QQ ₃₅	2000 03 02.8	10 55.70 +10 27.8 17.8	-0.99 + 5.3	1.3/01.8	39204
2000 EY ₁₇	2000 03 02.8	10 55.79 +21 18.4 18.0	-1.05 + 1.6	4.8/27.8	39485
2000 AM ₉₇	2000 03 02.8	10 55.82 +07 48.9 16.5	-0.87 + 2.1	0.4/02.6	39574
2000 CT ₇₅	2000 03 02.8	10 55.85 -05 11.4 17.0	-0.69 + 8.7	3.6/07.2	39411
2000 DV ₁₀₁	2000 03 02.8	10 55.89 +17 34.7 18.0	-1.04 + 2.4	3.8/28.9	39476
1993 FY ₁₁	2000 03 02.8	10 55.93 +14 26.4 18.2	-1.07 + 5.0	2.9/29.6	39519
2000 DK ₈₈	2000 03 02.8	10 55.94 +09 42.5 18.6	-1.00 + 5.9	1.1/02.0	39471
1995 UW ₄	2000 03 02.9	10 55.99 +20 27.1 17.9	-1.12 + 5.0	5.0/27.9	39524
2000 CW ₆₃	2000 03 02.9	10 56.13 +01 25.8 17.9	-1.03 + 5.7	1.9/04.5	39405
2000 DY ₅₅	2000 03 02.9	10 56.18 +08 09.8 18.3	-0.98 + 5.2	0.5/02.6	39455
(13940)	2000 03 02.9	10 56.31 +11 39.6 17.6	-0.86 + 6.1	1.5/01.4	39035
(13069)	2000 03 02.9	10 56.33 +10 55.0 16.3	-1.14 + 2.0	1.8/01.9	37505
(14179)	2000 03 02.9	10 56.38 -07 15.8 16.1	-1.08 + 2.6	5.9/06.0	39103
1994 HB	2000 03 03.0	10 56.36 +05 14.0 20.1	-1.03 + 7.0	0.6/03.5	33340
(9716)	2000 03 03.0	10 56.38 +05 35.1 17.3	-0.91 + 6.3	0.4/03.4	33191
1998 RC ₈	2000 03 03.0	10 56.47 +09 59.4 17.9	-0.95 + 4.1	1.0/02.1	39216
(13907)	2000 03 03.0	10 56.48 +06 06.3 17.1	-0.78 + 5.4	0.2/03.3	39025
2000 DZ ₅₅	2000 03 03.0	10 56.50 +08 39.7 17.7	-0.94 + 7.0	0.7/02.5	39455
1998 XS ₃₃	2000 03 03.0	10 56.54 +09 02.6 18.2	-0.92 + 5.0	0.7/02.4	39548
1998 WM ₁₄	2000 03 03.0	10 56.63 +05 10.7 18.6	-0.99 + 6.7	0.5/03.6	39547
1998 VM ₅	2000 03 03.0	10 56.71 +14 59.1 18.7	-0.95 + 3.9	2.5/29.7	39273
2000 CM ₉₁	2000 03 03.0	10 56.74 +08 08.3 17.4	-0.93 + 3.2	0.5/02.7	39427
2000 DS ₅₆	2000 03 03.1	10 56.66 +06 46.8 17.9	-0.94 + 4.4	0.0/03.1	39456
1998 SL ₁₄₇	2000 03 03.1	10 56.69 +09 49.8 18.5	-1.04 + 6.6	1.1/02.2	39257
2000 AU ₉₇	2000 03 03.1	10 56.70 +05 14.3 17.1	-1.06 - 1.0	0.6/03.5	39574
(14075)	2000 03 03.1	10 56.77 +08 40.1 18.1	-0.76 + 5.1	0.5/02.5	39072
4812 P-L	2000 03 03.1	10 56.84 +08 02.5 19.1	-0.79 + 4.8	0.4/02.7	39647
1998 SM ₆₃	2000 03 03.1	10 56.85 +03 09.4 16.1	-1.06 + 3.4	1.5/04.1	39540
2000 DR ₁₀₁	2000 03 03.1	10 56.86 +16 04.0 18.3	-0.98 + 2.5	2.8/29.5	39476
2000 CB ₈₀	2000 03 03.1	10 57.09 +06 33.6 18.6	-0.79 + 4.7	0.0/03.2	39414
2000 DB ₅₆	2000 03 03.2	10 57.10 +08 30.5 17.2	-0.70 + 6.6	0.5/02.6	39455
1998 XM ₁₈	2000 03 03.2	10 57.12 +07 26.6 19.7	-0.76 + 4.9	0.2/03.0	35728
(14121)	2000 03 03.2	10 57.12 +01 59.7 17.3	-1.03 + 5.2	1.7/04.6	39085
(14068)	2000 03 03.2	10 57.15 -04 39.1 17.9	-0.77 + 9.4	4.3/07.2	39070
(13637)	2000 03 03.2	10 57.17 +05 48.0 17.1	-0.96 + 6.2	0.4/03.5	38353

1993 OY ₂	2000 03 03.2	10 57.19 +12 01.9 18.8	-1.04 + 1.6	1.6/01.8	39520
2000 AV ₁₃₆	2000 03 03.2	10 57.20 -01 16.0 16.0	-1.12 - 1.4	3.3/05.1	39577
2000 DN ₁₁₀	2000 03 03.2	10 57.36 +11 18.2 17.9	-0.82 + 9.2	1.4/01.7	39481
1998 QN ₁₆	2000 03 03.2	10 57.37 +05 58.3 19.0	-0.94 + 8.3	0.2/03.5	39201
2000 DU ₅₆	2000 03 03.3	10 57.43 +07 26.0 18.4	-0.72 + 5.0	0.2/03.1	39456
(13779)	2000 03 03.3	10 57.58 -01 31.3 17.0	-0.82 + 7.9	2.6/06.1	38394
(13986)	2000 03 03.3	10 57.63 +16 13.9 17.9	-0.75 + 4.4	2.5/29.3	39047
2000 AG ₉₇	2000 03 03.3	10 57.63 +18 28.8 17.1	-0.90 + 8.9	4.5/28.3	39574
1998 UT ₂₃	2000 03 03.3	10 57.83 +12 48.7 16.4	-0.92 + 9.6	2.7/01.3	39544
2000 CG ₆₂	2000 03 03.3	10 57.84 +03 03.3 17.2	-0.86 +10.9	1.3/04.6	39404
2000 AJ ₉₇	2000 03 03.3	10 57.85 +12 15.9 16.6	-0.90 + 6.7	2.4/01.6	39574
1998 SK ₇₄	2000 03 03.4	10 57.79 +11 59.0 17.7	-0.83 + 6.4	1.9/01.7	39540
(14192)	2000 03 03.4	10 57.83 +11 20.4 17.3	-0.86 + 2.8	1.3/02.0	39106
2000 DJ ₅₉	2000 03 03.4	10 57.84 +05 46.8 17.9	-0.81 + 4.8	0.3/03.7	39457
1998 RN ₅₆	2000 03 03.4	10 57.86 +10 43.1 15.9	-1.26 - 3.2	1.9/02.6	39536
1997 UN ₈	2000 03 03.4	10 57.89 +14 42.2 17.3	-0.92 + 4.1	2.5/30.0	39186
1998 XW ₃	2000 03 03.4	10 57.92 +23 21.7 16.2	-0.84 + 4.1	5.1/27.0	39548
2016 P-L	2000 03 03.4	10 57.92 +00 53.1 17.8	-0.78 + 6.2	1.6/05.3	38906
1998 UN ₆	2000 03 03.4	10 57.95 +18 42.2 19.5	-1.07 + 5.0	4.2/28.8	34930
(13800)	2000 03 03.4	10 57.99 -13 40.3 16.2	-0.85 + 5.7	7.0/10.4	38400
2121 P-L	2000 03 03.4	10 58.01 +18 12.3 19.0	-1.13 + 0.2	4.3/29.6	39646
(14128)	2000 03 03.4	10 58.11 -00 30.1 17.0	-0.79 + 7.5	2.2/06.0	39087
1998 WE	2000 03 03.5	10 58.19 +09 27.0 17.1	-0.75 + 5.2	0.9/02.6	39546
1992 DB ₈	2000 03 03.5	10 58.40 +11 07.8 17.8	-0.87 + 8.0	1.6/02.0	39150
1988 RO ₁₂	2000 03 03.5	10 58.41 +07 20.6 18.2	-0.63 + 4.0	0.2/03.3	39142
(9910)	2000 03 03.5	10 58.50 +11 37.4 18.0	-0.82 + 5.4	1.6/02.0	33471
2000 CL ₉₁	2000 03 03.6	10 58.57 +08 37.6 17.2	-0.82 + 3.6	0.7/03.0	39427
(11382)	2000 03 03.6	10 58.58 +08 14.3 18.3	-1.00 + 7.7	0.6/03.1	38750
1998 WY ₁₃	2000 03 03.6	10 58.69 +09 12.0 18.0	-0.99 + 5.5	0.9/02.8	39547
2000 CK ₂	2000 03 03.6	10 58.83 +15 26.0 17.0	-0.91 + 8.7	3.8/29.7	39588
(14282)	2000 03 03.6	10 58.85 +00 29.8 17.4	-0.73 + 6.3	1.7/05.7	39131
1998 QW ₁₀₁	2000 03 03.6	10 58.97 +14 55.2 17.4	-1.13 + 0.6	3.1/01.6	39212
1997 GA ₂₃	2000 03 03.6	10 58.98 +04 32.6 19.1	-0.97 + 7.3	0.7/04.3	39178
1998 RK ₃₄	2000 03 03.6	10 58.99 +14 53.8 17.9	-1.11 + 3.9	3.3/01.4	39218
(10561)	2000 03 03.7	10 58.96 +16 15.1 17.5	-0.91 + 3.4	2.8/29.8	34452
(13979)	2000 03 03.7	10 58.97 +02 14.0 17.1	-0.89 + 6.3	1.5/05.1	39045
1998 VH ₁₅	2000 03 03.7	10 58.98 +10 25.7 19.0	-0.93 + 4.9	1.3/02.5	34595
1998 WZ ₂₁	2000 03 03.7	10 59.00 +06 31.8 17.6	-0.86 + 5.7	0.0/03.7	39548
1996 AW ₆	2000 03 03.7	10 59.00 +09 42.7 19.0	-1.00 + 5.2	1.1/02.8	39525
(14257)	2000 03 03.7	10 59.03 +16 06.7 15.2	-1.08 + 5.1	3.9/29.9	39124
1992 SY ₂₄	2000 03 03.7	10 59.07 +08 42.4 17.2	-0.85 + 2.7	0.6/03.1	39518
1995 WO ₄	2000 03 03.7	10 59.09 +14 25.1 18.4	-1.01 + 6.7	3.0/01.3	39167
2000 EE ₃₀	2000 03 03.7	10 59.10 +16 41.1 17.4	-1.02 + 5.8	4.4/29.6	39489
2000 AO ₉₇	2000 03 03.7	10 59.23 +14 40.4 16.6	-1.08 + 3.9	3.8/01.4	39574
2000 CN ₉₁	2000 03 03.7	10 59.33 +06 15.6 17.5	-0.86 + 2.6	0.1/03.9	39599
1998 VZ ₃₃	2000 03 03.7	10 59.33 +04 37.5 19.0	-0.83 + 6.3	0.6/04.4	39276
1997 GU ₇	2000 03 03.8	10 59.48 +12 43.9 19.5	-0.99 + 6.1	2.1/01.9	39527
1991 VA ₉	2000 03 03.8	10 59.51 +21 04.4 17.3	-1.02 + 4.6	6.0/28.4	33229
2000 DS ₆₀	2000 03 03.8	10 59.52 +09 07.6 16.5	-0.89 + 1.1	0.8/03.1	39457
1998 WW ₂₂	2000 03 03.8	10 59.62 +10 48.0 19.5	-0.78 + 4.9	1.3/02.5	35727
(14131)	2000 03 03.8	10 59.75 +14 07.8 17.8	-1.03 + 5.0	2.8/01.6	39088

2000 MAR. 20

M.P.C. 39675

1998 QX₄₈ 2000 03 03.9 10 59.72 +07 34.3 19.2 -0.96 + 7.5 0.4/03.6 39206
 2000 AQ₁₄₄ 2000 03 03.9 10 59.81 +09 38.0 16.7 -0.92 + 9.2 1.4/02.9 39579
 1996 GO₁₃ 2000 03 03.9 10 59.96 +08 55.5 17.6 -0.88 + 7.8 1.0/03.1 39526
 1998 SY 2000 03 03.9 10 59.98 +11 54.5 18.6 -0.93 + 4.5 1.8/02.3 39229
 2000 DZ₅₈ 2000 03 03.9 10 59.98 +04 13.6 17.6 -0.75 + 4.3 0.6/04.7 39457
 2000 DL₁ 2000 03 03.9 11 00.06 +58 20.0 15.4 -4.50 -37.7 30.5/14.4 39436
 1998 QE₁₇ 2000 03 03.9 11 00.09 +04 35.0 16.5 -1.05 + 2.7 0.6/04.5 39532
 1993 FK₉ 2000 03 04.0 11 00.03 +15 24.6 17.6 -1.04 + 4.2 3.6/01.4 39519
 1989 WH 2000 03 04.0 11 00.09 -05 42.5 18.2 -0.81 + 6.5 3.9/08.1 39514
 1998 RS₅₈ 2000 03 04.0 11 00.21 +06 37.4 17.5 -0.93 + 4.2 0.1/04.0 39221
 1998 WJ₁₄ 2000 03 04.0 11 00.39 +05 55.2 18.6 -0.77 + 5.0 0.1/04.2 39281
 6100 P-L 2000 03 04.0 11 00.47 +00 40.5 19.3 -0.93 + 8.4 2.0/06.0 39647
 2000 AA₂₃₇ 2000 03 04.1 11 00.41 -06 02.5 16.8 -0.96 + 4.1 5.9/07.8 39583
 2000 DB₅₉ 2000 03 04.1 11 00.42 +04 43.4 18.5 -0.78 + 5.1 0.5/04.6 39457
 2000 AX₁₃₆ 2000 03 04.1 11 00.48 +05 44.9 15.9 -1.02 + 2.5 0.2/04.3 39577
 1998 SW₁₂ 2000 03 04.1 11 00.49 +54 36.1 20.1 -1.43 + 0.2 12.4/16.3 33757
 2000 EG₁₉ 2000 03 04.1 11 00.54 +11 07.4 18.4 -1.05 + 7.1 1.9/02.7 39486
 (13022) 2000 03 04.1 11 00.59 +03 38.7 16.3 -1.08 + 4.2 1.1/04.9 37493
 1994 NQ 2000 03 04.1 11 00.82 +36 52.3 18.2 -1.04 + 7.3 8.8/22.0 39521
 2000 AS₉₇ 2000 03 04.1 11 00.85 +18 56.4 17.5 -1.01 + 6.6 4.4/29.2 39574
 2000 AL₁₄₄ 2000 03 04.2 11 00.85 +16 40.2 16.7 -0.73 +15.9 4.0/29.0 39579
 (9839) 2000 03 04.2 11 00.88 +09 51.5 17.3 -0.92 + 6.7 1.3/03.1 33454
 2000 CW₅₇ 2000 03 04.2 11 00.90 +07 14.9 17.3 -0.77 + 7.2 0.3/03.9 39401
 1998 RA₇₅ 2000 03 04.2 11 00.94 +14 00.6 17.3 -1.05 + 1.2 2.9/02.2 39537
 2000 AH₂₃₇ 2000 03 04.2 11 01.05 -03 30.6 16.8 -0.93 + 4.5 3.5/07.2 39359
 1989 BH 2000 03 04.3 11 01.16 +23 24.2 15.5 -0.82 + 9.3 7.7/26.9 39514
 (14081) 2000 03 04.3 11 01.26 +05 31.3 17.9 -1.00 + 7.0 0.3/04.6 39074
 2000 EH₁₉ 2000 03 04.3 11 01.29 +11 05.5 18.4 -1.08 + 4.0 1.8/03.0 39486
 (13955) 2000 03 04.3 11 01.30 +11 39.6 19.0 -0.91 + 6.3 1.7/02.6 39038
 (13732) 2000 03 04.3 11 01.35 -00 47.9 17.4 -0.90 + 7.9 2.6/06.7 38380
 2000 DU₆₀ 2000 03 04.3 11 01.35 +09 42.6 16.9 -0.76 + 5.0 1.0/03.2 39458
 2000 AS₁₄₄ 2000 03 04.3 11 01.42 -00 47.9 17.5 -1.02 + 0.4 2.7/06.2 39579
 2000 DV₅₉ 2000 03 04.4 11 01.55 +05 26.8 18.3 -0.85 + 4.6 0.2/04.7 39457
 2000 DT₁₄ 2000 03 04.4 11 01.66 +11 37.3 17.7 -1.04 + 6.6 2.2/02.8 39606
 (13358) 2000 03 04.4 11 01.68 -05 56.2 15.8 -0.74 +10.1 4.5/08.9 37584
 (13010) 2000 03 04.4 11 01.68 -01 16.2 16.8 -0.88 + 1.5 2.3/06.5 37489
 1998 QW₁₀₅ 2000 03 04.4 11 01.75 +13 17.8 18.2 -0.89 + 8.9 2.5/02.1 39535
 1998 WZ₁₆ 2000 03 04.4 11 01.87 +11 12.0 18.2 -0.86 + 5.3 1.6/02.9 39547
 1998 QD₄₇ 2000 03 04.4 11 01.87 +11 32.2 19.1 -1.04 + 4.9 1.9/02.9 39205
 1998 SK₄₃ 2000 03 04.4 11 01.93 +12 07.9 17.5 -1.07 + 2.4 2.4/02.9 39237
 1989 TV₅ 2000 03 04.5 11 01.93 +04 22.4 19.6 -0.80 + 6.5 0.5/05.1 39144
 1998 QH₁₀₁ 2000 03 04.5 11 02.10 +09 51.6 17.1 -1.02 + 7.0 1.6/03.4 39535
 2000 DU₆₂ 2000 03 04.5 11 02.19 +04 38.4 17.1 -1.04 + 4.0 0.6/05.0 39458
 1998 SG₆₅ 2000 03 04.6 11 02.31 +08 12.3 17.7 -0.94 + 6.9 0.7/04.0 39540
 2000 CY₅₇ 2000 03 04.6 11 02.33 +05 40.0 17.1 -0.85 + 2.8 0.1/04.8 39401
 (14066) 2000 03 04.6 11 02.35 +27 33.5 17.1 -1.05 + 1.5 8.1/27.4 39069
 2000 DP₆₂ 2000 03 04.6 11 02.37 +05 06.9 18.4 -0.73 + 8.3 0.3/05.0 39458
 (14159) 2000 03 04.6 11 02.38 +14 31.3 17.6 -1.02 + 7.6 3.5/02.0 39097
 2000 AZ₂₄₄ 2000 03 04.6 11 02.42 +13 23.8 17.1 -0.79 +11.1 2.7/02.0 39583
 1998 QB₁₀₂ 2000 03 04.6 11 02.46 +09 24.1 16.8 -0.89 + 9.1 1.4/03.6 39212
 2000 AT₁₄₄ 2000 03 04.6 11 02.47 -03 00.8 16.4 -1.08 - 0.2 3.6/06.9 39579

1994 PP₁₀ 2000 03 04.6 11 02.49 +06 20.2 17.5 -0.96 + 8.0 0.1/04.6 39160
 2000 DO₁₀₂ 2000 03 04.6 11 02.55 +14 10.5 18.4 -0.77 + 4.2 2.2/02.1 39476
 2000 EN₁₉ 2000 03 04.6 11 02.65 +13 12.6 18.2 -0.85 + 5.9 2.2/02.4 39486
 1998 RR₄₇ 2000 03 04.7 11 02.64 +01 34.3 18.3 -1.01 + 4.2 1.7/06.0 39536
 2000 DL₁₀₂ 2000 03 04.7 11 02.71 +14 59.9 18.1 -0.91 + 4.3 2.7/02.0 39476
 2000 AW₉₇ 2000 03 04.7 11 02.74 +06 33.8 16.5 -1.07 + 0.1 0.2/04.6 39574
 1979 MC₉ 2000 03 04.7 11 02.78 +04 31.4 18.9 -0.96 + 7.0 0.6/05.2 39511
 (13448) 2000 03 04.7 11 02.80 +07 16.4 15.6 -0.95 + 4.3 0.5/04.4 37609
 1981 EZ₂₁ 2000 03 04.7 11 02.87 +04 28.5 17.8 -0.81 + 5.5 0.5/05.3 39511
 1995 WW₄₂ 2000 03 04.8 11 03.10 +16 42.7 17.6 -1.03 + 5.4 4.2/01.6 39524
 1988 SS₂ 2000 03 04.8 11 03.10 +06 52.8 18.3 -0.99 + 7.0 0.3/04.6 39513
 1998 QZ₅ 2000 03 04.8 11 03.12 +09 04.8 20.2 -0.93 + 4.5 0.9/03.9 35709
 1999 XL₁₄ 2000 03 04.8 11 03.13 +13 39.0 17.2 -0.74 + 6.8 2.0/02.2 39557
 1998 QS₄₈ 2000 03 04.8 11 03.14 +03 11.3 17.7 -1.11 + 3.9 1.2/05.6 39206
 1992 UN 2000 03 04.8 11 03.18 +06 05.5 17.5 -0.74 + 4.9 0.0/04.8 39518
 1998 WW₁₀ 2000 03 04.8 11 03.19 +13 18.2 18.3 -0.90 + 5.5 2.3/02.6 39547
 1989 DB 2000 03 04.8 11 03.20 +11 45.5 15.6 -0.96 + 4.2 2.6/03.1 39514
 2000 AJ₂₃₇ 2000 03 04.8 11 03.22 -04 38.4 17.2 -0.81 + 2.7 3.3/08.1 39583
 1998 RL₆₇ 2000 03 04.8 11 03.26 +01 20.0 18.8 -1.00 + 6.1 1.7/06.3 33565
 1997 NM₃ 2000 03 04.8 11 03.35 +07 18.9 17.4 -0.93 + 7.7 0.5/04.5 39182
 (14000) 2000 03 04.8 11 03.42 +10 34.1 17.5 -0.93 + 7.6 1.5/03.4 39051
 2000 CK₅₃ 2000 03 04.9 11 03.40 +04 22.7 17.6 -0.68 + 6.8 0.4/05.5 39398
 1998 WR₂₀ 2000 03 04.9 11 03.45 +24 14.8 18.4 -0.82 + 4.3 5.1/28.0 39283
 1998 ST₂₂ 2000 03 04.9 11 03.52 +27 10.2 18.5 -1.00 + 3.1 6.3/27.5 35716
 (11378) 2000 03 04.9 11 03.55 +08 11.3 18.1 -0.93 + 7.1 0.8/04.3 35585
 2000 DD₆₁ 2000 03 04.9 11 03.59 +07 45.3 17.4 -0.72 + 5.9 0.5/04.4 39458
 (14020) 2000 03 04.9 11 03.60 +05 28.9 17.6 -1.00 + 6.0 0.2/05.1 39056
 2000 DM₁₀₂ 2000 03 04.9 11 03.63 +15 57.0 17.0 -0.73 + 6.8 2.9/01.5 39476
 1993 RB₁₁ 2000 03 04.9 11 03.69 +02 42.3 17.8 -0.78 + 7.7 1.0/06.1 39520
 (13530) 2000 03 04.9 11 03.75 -02 39.5 16.4 -0.91 + 8.2 3.5/07.9 38324
 1989 RB 2000 03 04.9 11 03.75 +16 23.4 18.9 -1.03 + 2.2 2.9/02.1 39514
 2000 CG₈₀ 2000 03 04.9 11 03.77 +08 15.1 18.4 -0.87 + 8.3 0.8/04.2 39414
 1998 SD₂₇ 2000 03 04.9 11 03.79 +03 41.1 20.7 -0.92 + 6.1 0.7/05.7 34592
 1998 QX₃₄ 2000 03 05.0 11 03.74 -02 55.0 19.1 -0.98 + 5.2 3.1/07.7 38478
 1998 QL₁₀₃ 2000 03 05.0 11 03.79 +14 58.9 17.2 -1.01 + 6.5 4.0/02.2 39535
 1998 XR₇₄ 2000 03 05.0 11 03.87 -03 17.9 17.4 -0.81 + 2.4 2.7/07.8 39290
 2000 CZ₃₆ 2000 03 05.0 11 03.87 +02 58.5 16.7 -0.91 + 5.4 1.1/06.0 39389
 2000 AC₂₄₀ 2000 03 05.0 11 03.89 +06 25.4 15.9 -0.77 + 9.4 0.1/04.9 39359
 1998 SY₆₃ 2000 03 05.0 11 03.95 +19 21.3 15.2 -1.04 + 4.5 5.7/30.0 39540
 1998 QQ₁₀₅ 2000 03 05.0 11 03.95 +15 02.7 19.0 -0.99 + 4.0 3.1/02.4 39535
 1998 SX₁₆₁ 2000 03 05.0 11 03.98 +08 01.4 18.2 -0.89 + 6.8 0.7/04.4 39542
 1998 QS₉₂ 2000 03 05.0 11 04.21 +16 20.6 17.2 -1.00 + 6.6 3.4/01.8 39535
 1997 NP 2000 03 05.1 11 04.13 +00 03.5 17.5 -0.82 + 4.2 1.8/06.9 39529
 (14120) 2000 03 05.1 11 04.20 -03 18.5 16.5 -0.91 + 7.2 3.5/08.1 39085
 1993 QU 2000 03 05.1 11 04.20 +06 53.2 18.0 -0.98 + 2.0 0.3/04.9 39157
 1998 WL₁₂ 2000 03 05.1 11 04.25 +00 55.5 19.9 -0.96 + 5.8 1.5/06.7 36004
 1999 AZ₈ 2000 03 05.1 11 04.36 +15 20.1 18.7 -0.89 + 5.5 2.7/02.2 39294
 1998 SW₁₃₈ 2000 03 05.1 11 04.38 +05 10.2 18.0 -0.91 + 4.6 0.3/05.4 39255
 1991 RC₉ 2000 03 05.1 11 04.56 +10 06.6 17.5 -1.03 + 4.9 1.5/04.0 39516
 (14060) 2000 03 05.1 11 04.58 +07 18.7 16.7 -1.00 + 4.6 0.5/04.8 39067
 2000 DA₆₃ 2000 03 05.2 11 04.52 +04 18.6 18.3 -0.77 + 4.7 0.5/05.7 39459

2000 CO ₂	2000 03 05.2	11 04.54 +17 00.4	17.5 -0.76 + 7.0	3.1/01.3	39370
(13794)	2000 03 05.2	11 04.54 +10 09.8	17.1 -0.78 + 4.8	1.3/03.9	38398
1998 RH ₇₃	2000 03 05.2	11 04.74 -00 13.5	17.9 -0.91 + 8.0	2.2/07.3	39537
1991 PA	2000 03 05.2	11 04.77 +02 17.0	18.8 -0.74 + 4.0	0.8/06.4	39516
2000 DZ ₆₃	2000 03 05.2	11 04.85 +02 20.8	18.0 -1.01 + 4.1	1.2/06.3	39459
(14021)	2000 03 05.2	11 04.88 +05 46.6	17.1 -0.89 + 7.2	0.0/05.3	39056
1988 TK	2000 03 05.2	11 04.89 +10 53.4	17.7 -0.91 + 3.3	1.5/03.8	39513
(14077)	2000 03 05.3	11 04.88 +07 59.1	17.5 -0.81 + 3.6	0.6/04.7	39072
(13624)	2000 03 05.3	11 05.19 -01 26.7	17.0 -0.98 + 6.0	3.1/07.6	38349
2000 CU ₅₈	2000 03 05.3	11 05.22 +11 51.4	16.8 -0.83 +32.3	2.6/02.7	39402
2000 AT ₁₃₆	2000 03 05.3	11 05.23 +11 17.2	16.9 -0.89 + 9.7	2.2/03.5	39577
1998 SV ₅₉	2000 03 05.4	11 05.26 +10 47.2	19.1 -0.88 + 5.9	1.6/03.9	39540
1998 RN ₈₀	2000 03 05.4	11 05.26 +02 40.0	18.4 -0.88 + 7.9	1.1/06.5	39229
2000 EG ₃₀	2000 03 05.4	11 05.33 +17 46.8	18.1 -0.83 + 5.7	3.3/01.5	39489
1998 WQ	2000 03 05.4	11 05.41 +00 56.1	17.2 -0.94 + 7.6	1.6/07.0	39546
1998 WC ₆	2000 03 05.4	11 05.43 +12 50.7	17.9 -1.02 + 6.9	2.5/03.2	39547
2000 CG ₈₉	2000 03 05.4	11 05.50 +16 08.5	17.8 -0.84 + 8.2	3.0/01.9	39426
2189 T-3	2000 03 05.4	11 05.59 +00 56.5	19.1 -0.87 + 5.5	1.5/07.0	36124
2000 CQ ₂	2000 03 05.4	11 05.59 +22 32.3	16.9 -1.02 + 2.9	5.1/29.5	39370
2000 AK ₂₀₃	2000 03 05.4	11 05.59 -10 26.6	17.0 -0.91 + 3.8	5.1/10.5	39581
1998 QS ₃₇	2000 03 05.4	11 05.61 +02 15.7	17.5 -1.00 + 6.5	1.4/06.6	39533
1998 SY ₁₂₈	2000 03 05.4	11 05.64 +16 39.3	17.2 -1.05 + 3.8	4.4/02.3	39253
2000 DB ₁₀₃	2000 03 05.5	11 05.74 +14 19.4	18.4 -0.97 + 6.3	2.9/02.9	39477
3335 T-2	2000 03 05.5	11 05.77 +11 52.4	18.3 -0.92 + 5.3	2.0/03.7	39648
2000 CA ₃₇	2000 03 05.5	11 05.79 +03 53.0	17.1 -0.96 + 5.9	0.8/06.1	39389
1997 SF ₁₆	2000 03 05.5	11 05.81 +05 19.3	17.5 -0.75 + 4.9	0.1/05.7	39184
2000 AS ₁₆₂	2000 03 05.5	11 05.83 +07 45.5	16.7 -1.07 + 3.9	0.8/05.0	39580
(10042)	2000 03 05.5	11 05.84 -03 34.9	17.8 -0.95 + 2.8	2.8/08.2	33868
1998 SJ ₁₃₉	2000 03 05.5	11 05.94 +02 45.5	19.3 -0.90 + 4.9	0.9/06.5	39542
(13916)	2000 03 05.5	11 06.02 -02 16.0	17.7 -0.98 + 4.5	2.7/07.9	39028
1998 XZ ₈	2000 03 05.5	11 06.03 -10 15.9	18.1 -0.83 + 2.5	3.9/10.5	39548
6186 P-L	2000 03 05.6	11 06.04 +00 01.0	19.1 -0.96 + 7.8	2.1/07.4	30293
1987 RL ₁	2000 03 05.6	11 06.10 +06 58.1	18.9 -0.97 + 6.4	0.4/05.3	39513
1998 SS ₁₆₃	2000 03 05.6	11 06.10 +25 08.8	19.2 -0.99 + 2.8	6.0/28.8	34305
1997 KS	2000 03 05.6	11 06.14 -02 37.7	17.2 -0.90 + 6.5	2.9/08.3	39528
2000 AV ₁₄₄	2000 03 05.6	11 06.14 -01 11.5	17.4 -1.06 + 0.4	2.7/07.4	39579
1986 GZ	2000 03 05.6	11 06.20 -13 17.1	19.7 -0.88 +10.1	5.9/12.4	30469
(14122)	2000 03 05.6	11 06.24 +01 48.0	18.5 -0.95 + 7.7	1.3/06.9	39085
1997 JJ ₁₅	2000 03 05.6	11 06.27 -01 17.3	17.5 -0.95 + 7.4	2.6/07.9	39528
1998 XM ₅	2000 03 05.6	11 06.31 +10 17.8	16.5 -0.69 + 9.4	1.4/04.0	39548
1978 UY ₄	2000 03 05.6	11 06.41 +01 06.1	19.1 -0.99 + 7.0	1.7/07.1	39511
1998 RB ₆₆	2000 03 05.6	11 06.41 -00 17.4	16.7 -0.88 + 9.9	2.5/07.8	39537
1998 UA ₂₇	2000 03 05.6	11 06.43 +13 16.2	15.9 -0.99 + 8.2	3.2/03.2	39545
2000 CL ₈₈	2000 03 05.7	11 06.38 +14 40.3	17.6 -0.91 + 4.1	3.0/03.0	39425
(13786)	2000 03 05.7	11 06.41 -12 37.3	16.3 -0.80 + 7.5	6.7/12.2	38396
1998 SM ₄	2000 03 05.7	11 06.48 +03 55.1	18.3 -0.92 + 6.3	0.6/06.3	39230
2000 CG ₃₇	2000 03 05.7	11 06.50 +03 30.3	17.9 -0.96 + 3.5	0.7/06.4	39390
2000 AJ ₂₀₃	2000 03 05.7	11 06.51 -10 23.4	16.4 -0.82 + 2.6	6.1/10.6	39581
2000 DQ ₃	2000 03 05.7	11 06.51 +03 29.5	16.9 -0.99 + 1.7	0.9/06.3	39439
2000 AV ₉₇	2000 03 05.7	11 06.62 +13 16.6	16.1 -1.01 + 7.4	3.1/03.4	39574
(14095)	2000 03 05.7	11 06.66 +15 30.8	18.0 -0.82 + 8.6	2.6/02.3	39078

(13993)	2000 03 05.7	11 06.67 +12 37.7	17.3 -1.00 + 5.0	2.8/03.7	39049
1998 RH ₆₉	2000 03 05.8	11 06.76 +06 48.9	18.9 -0.85 + 5.0	0.3/05.5	39225
3042 T-3	2000 03 05.8	11 06.77 +19 43.2	16.6 -1.04 + 3.3	6.4/01.6	39649
(14293)	2000 03 05.8	11 06.80 +12 39.7	17.4 -0.98 + 2.9	2.7/03.8	39134
2000 DF ₁₀₃	2000 03 05.8	11 06.83 +14 25.8	18.4 -1.08 + 1.3	2.9/03.5	39477
2000 AO ₂₄₅	2000 03 05.8	11 06.88 -08 53.1	16.6 -0.82 + 4.0	5.2/10.4	39584
(14117)	2000 03 05.8	11 06.93 +14 33.2	17.4 -1.03 + 6.7	3.6/03.1	39084
2000 CM ₈₈	2000 03 05.8	11 06.94 +15 20.2	17.1 -0.95 + 7.7	3.7/02.7	39599
1990 TJ ₄	2000 03 05.8	11 06.96 +03 15.5	17.8 -0.93 + 6.2	0.8/06.6	39146
2000 AU ₁₃₆	2000 03 05.8	11 07.05 +12 34.4	16.7 -0.76 +11.4	2.5/03.3	39577
2000 EK ₈₄	2000 03 05.8	11 07.12 +10 41.7	17.3 -0.81 + 5.0	1.7/04.3	39493
(9819)	2000 03 05.9	11 07.11 +09 56.2	18.1 -1.06 + 6.3	1.6/04.6	33215
1998 SW ₂₂	2000 03 05.9	11 07.13 +07 09.6	18.0 -0.78 + 8.7	0.5/05.4	39538
1993 TB ₁₉	2000 03 05.9	11 07.19 +10 23.7	19.9 -0.84 + 4.9	1.4/04.4	27312
2000 EG	2000 03 05.9	11 07.27 +03 33.0	17.6 -1.04 + 4.6	0.9/06.5	39482
1998 XW ₈₂	2000 03 05.9	11 07.28 +02 00.6	16.9 -0.73 + 7.4	1.0/07.2	39549
1997 SZ ₄	2000 03 05.9	11 07.28 +21 02.5	18.5 -0.94 + 0.8	4.2/01.6	39529
1998 SV ₅₈	2000 03 05.9	11 07.30 +04 10.9	17.4 -0.84 + 7.8	0.5/06.4	39242
1998 UF ₇	2000 03 05.9	11 07.39 -02 25.6	17.6 -0.78 + 9.2	2.4/08.8	33761
1998 XF ₉₃	2000 03 05.9	11 07.43 -06 27.7	17.3 -0.77 + 3.9	3.3/09.8	39549
2000 DA ₇₆	2000 03 05.9	11 07.47 +06 51.1	18.6 -0.89 + 9.0	0.5/05.6	39467
1998 UW ₁₅	2000 03 05.9	11 07.49 +17 17.3	18.3 -1.01 + 4.5	3.9/02.5	39268
1998 WS ₂₂	2000 03 05.9	11 07.55 +16 35.2	18.1 -1.00 + 6.3	4.0/02.5	39283
(14126)	2000 03 06.0	11 07.54 +02 21.4	16.5 -0.78 +11.9	1.2/07.2	39087
(13905)	2000 03 06.0	11 07.54 +03 54.1	17.8 -0.97 + 5.2	0.6/06.5	39024
1998 UM ₁₅	2000 03 06.0	11 07.63 +16 40.1	18.0 -1.09 + 6.2	4.2/02.6	39267
1998 QA ₉₈	2000 03 06.0	11 07.80 -02 30.3	15.7 -0.99 + 2.2	3.6/08.3	39535
2014 T-3	2000 03 06.0	11 07.81 +05 52.9	17.8 -0.82 + 4.1	0.1/06.0	39505
6232 P-L	2000 03 06.0	11 07.82 -01 22.8	18.4 -0.77 + 5.7	2.2/08.4	39647
1997 NQ	2000 03 06.1	11 07.86 -07 37.2	18.3 -0.79 + 6.7	3.7/10.6	39529
(9991)	2000 03 06.1	11 07.96 +09 14.0	16.4 -0.76 + 4.9	1.2/04.9	33669
1998 WZ ₁₇	2000 03 06.1	11 08.17 -01 52.5	17.1 -0.80 + 4.0	2.5/08.5	39548
2000 DU ₆₁	2000 03 06.1	11 08.21 +07 25.6	17.6 -0.87 + 8.8	0.8/05.5	39458
1998 QB ₄₇	2000 03 06.1	11 08.29 +10 22.5	17.9 -1.03 + 4.0	1.8/04.8	39205
1998 RX ₇₄	2000 03 06.2	11 08.27 +04 13.5	17.2 -0.90 + 5.0	0.5/06.6	39537
1993 FX ₂₂	2000 03 06.2	11 08.33 +03 24.8	16.9 -0.98 + 5.4	0.9/06.9	39155
2000 CF ₁₀₃	2000 03 06.2	11 08.35 +06 26.0	17.9 -0.86 + 6.8	0.3/05.9	39435
1990 QT ₁	2000 03 06.2	11 08.37 +08 06.8	18.7 -0.91 + 6.5	0.8/05.4	39515
(14130)	2000 03 06.2	11 08.37 +11 24.4	17.9 -1.04 + 4.9	2.2/04.5	39088
2000 CK ₈₉	2000 03 06.2	11 08.38 +11 18.9	18.2 -0.95 + 4.6	2.0/04.5	39426
1998 SR ₅₈	2000 03 06.2	11 08.39 +02 11.0	17.0 -0.89 + 9.3	1.3/07.4	39539
(10232)	2000 03 06.2	11 08.57 +06 30.3	18.4 -0.72 + 4.9	0.2/06.0	38016
1981 EB ₃₄	2000 03 06.3	11 08.57 +01 16.8	18.4 -0.97 + 8.3	1.8/07.7	39512
(13998)	2000 03 06.3	11 08.63 +09 17.5	18.2 -1.02 + 5.7	1.4/05.2	39050
2000 AY ₉₇	2000 03 06.3	11 08.63 +10 12.9	16.7 -0.97 + 1.9	1.7/05.0	39574
1998 VN ₃₂	2000 03 06.3	11 08.67 +10 32.1	17.5 -0.80 + 5.3	1.5/04.7	39546
1998 QR ₄₅	2000 03 06.3	11 08.68 +00 45.5	18.4 -0.86 +10.7	1.6/08.0	33560
2000 CQ ₅₃	2000 03 06.3	11 08.68 +01 45.6	16.7 -1.03 + 5.0	1.5/07.4	39398
2000 DQ	2000 03 06.3	11 08.73 +12 09.8	17.1 -1.02 + 2.8	2.6/04.4	39602
1998 VO ₂₉	2000 03 06.3	11 08.77 +03 46.6	19.3 -0.80 + 4.7	0.5/06.9	39546
1994 TT	2000 03 06.3	11 08.79 +07 41.3	17.9 -0.96 + 4.1	0.7/05.7	39522

2000 MAR. 20

M.P.C. 39677

2000 DP₁₀₃ 2000 03 06.3 11 08.83 +15 15.6 17.9 -0.96 + 2.6 2.8/03.5 39477
 1998 UX₂₀ 2000 03 06.3 11 08.86 -11 10.5 18.9 -0.81 + 6.9 5.0/12.1 33762
 1998 XH₂₅ 2000 03 06.3 11 08.86 +17 02.3 18.2 -0.87 + 5.8 4.1/02.6 39548
 2000 DQ₇₅ 2000 03 06.3 11 08.87 +08 35.9 17.6 -0.93 + 4.5 1.1/05.4 39467
 2000 EM₁₇ 2000 03 06.3 11 08.87 +01 06.8 18.1 -0.90 + 6.2 1.6/07.8 39485
 2000 CX₆₃ 2000 03 06.3 11 08.96 +03 29.8 17.3 -0.79 +11.7 0.8/07.1 39405
 1986 RP₅ 2000 03 06.3 11 08.96 +17 07.2 18.3 -0.84 + 2.3 3.0/02.9 39513
 2000 DC₆₅ 2000 03 06.4 11 09.01 +04 27.1 17.9 -0.91 + 5.8 0.4/06.7 39459
 1998 UU₂₀ 2000 03 06.4 11 09.17 +14 51.1 18.3 -1.06 + 5.5 3.3/03.6 39544
 2000 AV₂₄₃ 2000 03 06.4 11 09.24 +09 37.1 16.8 -1.08 + 0.7 1.6/05.4 39583
 2000 DZ₆₇ 2000 03 06.4 11 09.24 +07 07.3 18.3 -1.01 + 5.0 0.7/06.0 39460
 1992 RW₃ 2000 03 06.4 11 09.24 +04 18.8 18.7 -0.79 + 4.9 0.3/06.8 39152
 (13942) 2000 03 06.4 11 09.25 +27 21.7 17.5 -0.95 + 4.1 6.2/28.3 39035
 2000 DJ₆₄ 2000 03 06.4 11 09.30 +02 53.8 17.9 -0.92 + 8.3 0.9/07.3 39459
 1998 UX 2000 03 06.5 11 09.32 -28 14.2 20.9 -1.01 + 4.6 10.0/18.4 34026
 (13009) 2000 03 06.5 11 09.32 +12 46.3 17.3 -0.82 + 8.5 2.1/04.0 37489
 1996 ND₅ 2000 03 06.5 11 09.36 +04 56.7 18.5 -0.75 + 4.6 0.1/06.7 39172
 1998 SG₁₀₅ 2000 03 06.5 11 09.51 +08 25.5 17.3 -0.91 +10.0 1.2/05.5 39249
 2000 CC₆₃ 2000 03 06.5 11 09.54 +02 53.7 17.3 -0.91 + 7.4 1.0/07.4 39404
 1998 SL₁₂₉ 2000 03 06.5 11 09.58 +04 50.8 19.1 -0.94 + 6.8 0.2/06.7 39541
 2000 CB₉₂ 2000 03 06.6 11 09.70 +07 27.4 17.4 -1.02 + 5.2 0.9/06.0 39428
 2000 CA₅₈ 2000 03 06.6 11 09.76 +03 11.0 17.3 -0.87 + 2.5 0.7/07.3 39401
 1998 XT₁₅ 2000 03 06.6 11 09.96 +06 38.5 18.4 -1.06 + 4.6 0.4/06.3 39287
 1993 FP₁₃ 2000 03 06.6 11 10.04 +17 50.8 18.4 -1.06 + 3.5 5.0/03.1 39519
 1998 RM₇₉ 2000 03 06.6 11 10.15 +11 39.3 19.1 -1.06 + 6.1 2.2/04.8 39538
 (14193) 2000 03 06.7 11 10.45 +11 46.5 17.9 -0.79 + 3.4 1.7/04.8 39106
 2000 CV₉₁ 2000 03 06.7 11 10.45 +05 30.1 17.9 -0.92 + 5.7 0.1/06.7 39428
 2000 ES₃₀ 2000 03 06.7 11 10.47 +18 33.0 18.5 -1.02 + 2.7 4.0/03.0 39489
 (13295) 2000 03 06.7 11 10.48 +27 14.4 16.9 -0.87 + 3.1 6.8/28.5 37566
 (13679) 2000 03 06.8 11 10.43 +09 55.4 16.2 -0.79 +11.7 1.6/05.1 38365
 (14086) 2000 03 06.8 11 10.46 +01 46.4 17.7 -0.92 + 8.6 1.4/08.0 39075
 (10116) 2000 03 06.8 11 10.56 +04 47.8 16.1 -0.71 + 8.4 0.2/07.0 38016
 2000 EX₃₅ 2000 03 06.8 11 10.67 +04 01.4 18.4 -0.78 + 5.2 0.6/07.3 39490
 3268 T-1 2000 03 06.8 11 10.67 +07 58.3 17.5 -1.06 + 3.2 1.1/06.1 39500
 1998 QZ₅₄ 2000 03 06.8 11 10.71 +01 42.5 16.9 -1.01 + 3.1 1.4/07.9 39534
 2000 CC₃₇ 2000 03 06.8 11 10.74 +05 41.4 17.1 -0.82 + 7.9 0.1/06.7 39389
 1998 SC₁₁₄ 2000 03 06.8 11 10.77 +11 05.2 20.1 -0.97 + 5.8 1.8/05.1 33758
 (14046) 2000 03 06.8 11 10.81 +15 33.4 17.4 -1.05 + 5.0 4.1/03.8 39063
 2000 EL₁₆ 2000 03 06.8 11 10.83 +02 33.4 18.1 -0.82 + 2.9 0.8/07.7 39484
 1998 RS₆₈ 2000 03 06.8 11 10.88 +09 53.1 17.2 -1.10 + 2.8 1.7/05.6 39537
 1997 HV₁₁ 2000 03 06.9 11 10.79 +15 13.4 17.9 -1.07 + 4.0 3.9/04.0 39528
 (14009) 2000 03 06.9 11 10.84 +22 08.7 17.4 -0.89 + 4.2 5.1/01.5 39053
 (13504) 2000 03 06.9 11 10.86 -02 24.7 16.4 -0.58 + 7.6 2.0/09.8 38317
 2000 AF₂₃₇ 2000 03 06.9 11 10.89 +01 21.3 16.2 -0.73 +10.8 1.4/08.4 39583
 1995 DW 2000 03 06.9 11 11.08 +09 56.5 17.7 -0.80 + 5.2 1.4/05.4 39523
 2000 AY₁₃₆ 2000 03 06.9 11 11.18 +09 53.5 16.9 -0.84 + 6.7 1.8/05.4 39577
 2000 DS₆₄ 2000 03 06.9 11 11.19 +03 38.4 18.3 -0.74 + 4.5 0.4/07.5 39459
 1998 QY₃₈ 2000 03 07.0 11 11.16 +04 05.6 18.7 -0.93 + 8.2 0.4/07.4 39533
 (14151) 2000 03 07.0 11 11.18 +08 22.7 18.2 -0.91 + 6.6 1.0/06.0 39094
 1998 SV₂₄ 2000 03 07.0 11 11.21 +12 30.5 18.2 -0.91 + 5.9 2.5/04.7 39539
 2000 DB₁₀₄ 2000 03 07.0 11 11.23 +11 38.9 18.2 -1.08 + 4.3 2.6/05.2 39477

(14171) 2000 03 07.0 11 11.34 -03 43.3 17.2 -0.87 + 4.1 3.0/09.8 39100
 2000 CT₉₁ 2000 03 07.0 11 11.44 +05 52.9 17.1 -0.75 + 5.1 0.2/06.8 39600
 (13453) 2000 03 07.0 11 11.46 +07 25.8 17.7 -0.78 + 5.3 0.7/06.3 37611
 1998 VU₉ 2000 03 07.0 11 11.49 +01 41.6 17.5 -0.92 + 5.1 1.3/08.1 39545
 (13115) 2000 03 07.0 11 11.54 +05 14.5 17.0 -0.88 + 5.4 0.0/07.1 37517
 (14132) 2000 03 07.0 11 11.56 +11 07.4 18.5 -0.98 + 6.8 2.0/05.2 39089
 2000 AZ₁₃₆ 2000 03 07.1 11 11.60 +12 47.6 16.9 -1.00 + 8.1 2.9/04.6 39347
 1989 UX₇ 2000 03 07.1 11 11.65 -13 00.9 18.7 -0.82 + 6.3 5.0/13.4 39514
 (13471) 2000 03 07.1 11 11.89 +12 48.5 17.1 -0.98 + 7.8 2.9/04.7 37615
 1991 VO₃ 2000 03 07.1 11 11.97 +13 03.6 16.8 -0.99 + 5.0 3.3/04.8 39517
 1992 PG₂ 2000 03 07.1 11 11.97 -00 13.5 18.3 -0.80 + 6.7 1.5/09.0 39518
 1998 RD₆₄ 2000 03 07.2 11 11.94 +09 45.5 20.3 -0.94 + 4.7 1.5/05.8 33002
 2000 CA₉₂ 2000 03 07.2 11 11.96 +06 56.9 17.2 -0.83 + 4.7 0.6/06.7 39428
 2244 T-2 2000 03 07.2 11 11.98 +04 57.3 18.4 -0.88 + 5.9 0.1/07.3 39648
 1998 SJ₁₃₃ 2000 03 07.2 11 12.04 +04 40.2 19.3 -0.96 + 5.4 0.2/07.4 39254
 1991 UK₁ 2000 03 07.2 11 12.04 +03 06.9 17.8 -1.02 + 4.8 0.7/07.8 39517
 1998 UQ₂ 2000 03 07.2 11 12.04 +06 05.1 18.7 -0.94 + 5.2 0.3/06.9 39543
 2000 CG₆₃ 2000 03 07.2 11 12.17 +01 02.1 18.2 -0.86 + 4.8 1.2/08.5 39405
 2000 AF₉₈ 2000 03 07.2 11 12.20 +08 09.1 16.9 -1.01 + 2.3 1.1/06.4 39574
 2000 CH₈₉ 2000 03 07.2 11 12.26 +14 56.7 18.1 -0.87 + 5.1 3.1/04.1 39426
 1998 RT₅₇ 2000 03 07.2 11 12.27 +08 52.8 17.4 -0.90 + 7.1 1.5/06.1 39536
 (13783) 2000 03 07.2 11 12.33 -03 24.6 17.7 -0.93 + 5.6 2.7/10.0 38395
 2000 ER₃₀ 2000 03 07.3 11 12.36 +17 38.7 17.9 -1.05 + 4.2 5.0/03.5 39489
 1998 XK₉ 2000 03 07.3 11 12.41 +15 55.6 18.1 -0.84 + 5.5 3.3/03.8 39548
 2000 AZ₂₀₃ 2000 03 07.3 11 12.49 -12 46.6 16.8 -1.03 + 0.3 6.8/12.2 39581
 2000 CL₃₉ 2000 03 07.3 11 12.51 +13 13.5 16.1 -1.00 + 1.7 2.7/05.1 39391
 1998 YP₇ 2000 03 07.3 11 12.51 +20 37.3 18.7 -0.79 + 5.8 4.4/02.1 35729
 (9822) 2000 03 07.3 11 12.52 +11 21.9 16.5 -0.95 + 6.2 2.7/05.4 33216
 1998 SL₆₄ 2000 03 07.3 11 12.55 +12 41.3 16.8 -0.95 + 7.5 3.2/04.9 39540
 2000 CW₉₁ 2000 03 07.3 11 12.55 +07 41.9 16.9 -0.81 + 9.1 0.8/06.5 39428
 1998 SS₆₂ 2000 03 07.4 11 12.69 +08 07.2 18.3 -0.91 + 5.8 1.1/06.5 39243
 2000 CE₃₇ 2000 03 07.4 11 12.80 +05 37.7 17.3 -0.72 + 8.3 0.2/07.2 39591
 1999 XK₁₄ 2000 03 07.4 11 12.83 +00 12.1 15.2 -1.08 - 1.0 2.0/08.6 39557
 2000 DB₁₀₅ 2000 03 07.4 11 12.84 +16 04.0 18.5 -1.01 + 6.6 4.8/03.9 39478
 1998 RA₄₅ 2000 03 07.4 11 12.85 +06 09.9 16.3 -0.76 +11.7 0.4/07.0 39536
 4658 P-L 2000 03 07.4 11 12.87 +09 20.9 18.6 -0.84 + 4.6 1.2/06.1 39647
 2000 DK₁₀₄ 2000 03 07.4 11 12.88 +14 44.1 17.8 -0.84 + 2.3 2.6/04.5 39478
 1991 VZ₂ 2000 03 07.4 11 12.90 +08 55.0 19.8 -0.98 + 5.3 1.1/06.3 39517
 2000 DW₆₈ 2000 03 07.4 11 12.92 +02 57.1 18.0 -0.92 + 8.1 0.8/08.1 39460
 (9734) 2000 03 07.4 11 12.93 -02 10.8 16.3 -1.02 + 3.8 3.2/09.5 38016
 1989 AA 2000 03 07.4 11 12.97 -36 17.7 16.8 -1.17 - 0.2 20.2/23.1 39514
 2000 CZ₄₀ 2000 03 07.5 11 13.03 +12 33.9 16.5 -0.63 +27.8 3.1/04.1 39592
 2000 DM₁₀₄ 2000 03 07.5 11 13.11 +15 05.9 17.8 -1.00 + 3.0 3.8/04.6 39478
 2000 AY₂₀₃ 2000 03 07.5 11 13.31 -09 31.4 16.5 -0.91 + 4.3 5.0/12.1 39581
 2000 DZ₁₀₉ 2000 03 07.5 11 13.37 +04 50.0 17.5 -0.81 + 8.2 0.1/07.6 39481
 1997 HJ₈ 2000 03 07.5 11 13.39 +04 26.4 18.9 -0.93 + 6.6 0.2/07.8 39528
 4124 T-3 2000 03 07.5 11 13.41 +08 19.3 19.9 -0.77 + 5.6 0.9/06.5 25540
 1994 VR₂ 2000 03 07.5 11 13.44 +26 08.2 16.1 -1.07 + 1.5 8.4/01.3 39522
 1989 ST₁₀ 2000 03 07.5 11 13.45 +02 51.4 16.7 -0.84 + 8.0 0.7/08.3 39143
 1998 SN₁₃₄ 2000 03 07.6 11 13.41 +11 18.0 17.3 -0.99 + 4.4 2.3/05.7 39542
 1998 XP₂₇ 2000 03 07.6 11 13.46 +15 28.7 17.0 -1.01 + 4.8 3.6/04.4 39548

1992 EZ ₁₃	2000 03 07.6	11 13.55 +01 36.2 18.2	-0.60 + 5.7	0.8/08.8	39151
1998 RZ ₇₇	2000 03 07.6	11 13.76 +08 29.8 18.6	-1.01 + 7.4	1.3/06.6	39538
1998 ST ₁₁₉	2000 03 07.6	11 13.77 +13 20.9 17.1	-0.93 + 4.7	3.2/05.1	39541
1995 UT ₈	2000 03 07.6	11 13.77 +12 17.7 17.5	-1.00 + 6.9	2.9/05.4	39524
2000 CR ₂	2000 03 07.6	11 13.83 +19 50.3 16.5	-0.98 + 2.9	5.0/03.2	39370
1998 ST ₄₃	2000 03 07.7	11 13.76 +07 08.7 18.3	-0.92 + 6.6	0.7/07.0	39238
1998 QC ₅₈	2000 03 07.7	11 13.83 +04 32.1 18.9	-0.94 + 6.4	0.1/07.8	39534
1981 EB ₁₁	2000 03 07.7	11 13.85 +00 42.6 17.4	-0.93 + 5.5	1.4/09.0	39511
(13124)	2000 03 07.7	11 13.86 +09 46.9 15.7	-0.79 +12.9	2.0/05.9	37520
1998 RF ₅₅	2000 03 07.7	11 13.88 +01 51.5 18.3	-1.05 + 4.1	1.1/08.6	39220
2000 DH ₇₆	2000 03 07.7	11 13.89 +03 47.4 17.8	-0.94 + 5.7	0.5/08.1	39468
1989 AD ₆	2000 03 07.7	11 13.90 -01 27.7 17.2	-0.72 + 7.6	2.0/10.0	39143
2000 DE ₇₇	2000 03 07.7	11 13.93 +05 37.6 18.4	-0.72 + 4.4	0.2/07.5	39468
5027 T-3	2000 03 07.7	11 14.11 +11 46.0 19.1	-0.97 + 8.1	2.5/05.5	24579
1997 UD ₂₁	2000 03 07.7	11 14.13 +04 40.0 19.1	-0.74 + 3.8	0.1/07.9	39187
1997 TJ ₁₁	2000 03 07.7	11 14.15 +06 42.4 18.4	-0.90 + 3.3	0.5/07.3	39185
1993 TZ ₁₆	2000 03 07.8	11 14.16 +03 08.8 19.1	-0.80 + 6.5	0.5/08.4	23240
1993 FF ₂₂	2000 03 07.8	11 14.21 +07 54.6 17.9	-1.03 + 4.2	1.1/07.0	32664
1992 DP ₇	2000 03 07.8	11 14.26 +09 35.4 18.1	-0.89 + 6.6	1.7/06.3	39517
2000 AN ₉₇	2000 03 07.8	11 14.31 +17 41.6 15.7	-0.85 +10.0	5.5/03.1	39574
2000 DP ₆₈	2000 03 07.8	11 14.33 +04 44.3 17.8	-0.96 + 7.2	0.1/07.9	39460
2000 AC ₉₈	2000 03 07.8	11 14.33 +15 09.1 16.1	-1.06 + 6.6	4.2/04.6	39345
(13948)	2000 03 07.8	11 14.53 +09 26.5 17.6	-1.06 + 2.9	1.5/06.6	39037
1998 RY ₇₁	2000 03 07.9	11 14.56 +11 09.0 18.2	-1.08 + 4.2	2.3/06.1	39537
1997 BG	2000 03 07.9	11 14.64 +36 08.2 17.6	-1.13 +17.1	11.1/23.6	39527
1998 VS ₅	2000 03 07.9	11 14.65 +33 35.7 17.7	-1.24 - 1.3	10.0/29.0	39545
1998 QE ₄₄	2000 03 07.9	11 14.67 +07 06.9 19.2	-1.06 + 5.8	0.8/07.3	39533
4278 T-2	2000 03 07.9	11 14.72 +03 11.3 17.2	-0.78 +11.6	0.6/08.6	39648
(13789)	2000 03 07.9	11 14.79 +18 01.2 17.5	-0.99 + 6.3	4.5/03.7	38397
1993 PF	2000 03 07.9	11 14.80 -18 06.9 17.6	-0.96 + 2.7	7.9/15.1	38761
1998 QS ₅₄	2000 03 07.9	11 14.81 +00 36.2 18.6	-0.99 + 5.0	1.4/09.2	39208
1990 OX ₂	2000 03 07.9	11 14.92 +07 45.8 18.9	-0.91 + 6.5	0.9/07.1	39514
1055 T-3	2000 03 07.9	11 14.95 -05 39.7 17.4	-1.04 + 0.2	4.4/10.7	39648
1995 WA ₅	2000 03 08.0	11 14.89 +05 17.0 17.8	-1.00 + 6.9	0.2/07.9	39167
2000 AZ ₉₇	2000 03 08.0	11 14.90 +15 03.0 16.2	-0.97 + 6.7	4.1/04.7	39574
1998 RN ₇₀	2000 03 08.0	11 14.93 +17 55.8 16.1	-0.98 + 2.0	5.8/04.3	39226
2000 DU ₆₉	2000 03 08.0	11 14.95 +05 37.3 17.4	-0.77 + 5.4	0.2/07.8	39461
2000 DD ₁₀₄	2000 03 08.0	11 15.00 +12 14.5 18.3	-0.82 + 6.1	2.3/05.6	39477
1978 PA ₃	2000 03 08.0	11 15.02 +04 44.7 18.3	-0.99 + 7.1	0.0/08.1	39511
2000 DV ₆₈	2000 03 08.0	11 15.07 +03 17.6 17.1	-1.02 + 3.6	0.7/08.5	39460
2000 AQ ₁₆₄	2000 03 08.0	11 15.10 -08 35.6 16.4	-0.79 + 4.0	4.6/12.3	39580
2000 CZ ₆₂	2000 03 08.1	11 15.30 +00 49.6 17.2	-0.66 + 6.0	1.0/09.5	39404
2000 DM ₇₆	2000 03 08.1	11 15.43 +02 38.2 17.7	-0.75 + 5.3	0.7/08.9	39468
3311 T-2	2000 03 08.1	11 15.48 +07 37.0 20.3	-0.95 + 6.5	0.9/07.3	34618
2000 CK ₉₂	2000 03 08.1	11 15.50 +04 43.9 17.2	-0.80 + 2.8	0.0/08.2	39429
1998 QQ ₅	2000 03 08.1	11 15.54 -02 21.9 17.6	-0.89 +23.6	3.1/11.0	39532
2000 DF ₁₀₄	2000 03 08.1	11 15.54 +12 30.5 17.8	-0.97 + 2.3	2.4/06.0	39478
2000 DE ₇₆	2000 03 08.1	11 15.61 +04 23.6 17.9	-0.96 + 3.2	0.1/08.3	39467
(13706)	2000 03 08.1	11 15.65 -08 15.7 17.2	-1.35 - 1.1	5.2/11.2	38373
1993 TW ₃₃	2000 03 08.2	11 15.61 +12 42.5 17.8	-0.83 + 5.8	2.5/05.6	39520
(13588)	2000 03 08.2	11 15.61 +13 23.7 17.7	-0.83 + 5.8	2.8/05.4	38339

2000 DD ₆₉	2000 03 08.2	11 15.64 +02 25.8 17.9	-0.85 + 7.5	0.8/09.0	39461
1998 WK ₉	2000 03 08.2	11 15.64 +11 51.3 18.4	-0.82 + 5.7	2.2/05.9	39547
1998 SV	2000 03 08.2	11 15.70 +07 53.1 19.9	-1.06 + 5.5	1.2/07.3	35716
2000 DW ₆₉	2000 03 08.2	11 15.79 +05 19.3 17.6	-1.08 + 0.4	0.2/08.1	39461
(9810)	2000 03 08.2	11 15.96 +03 07.1 17.4	-0.96 + 7.6	0.6/08.8	38749
6722 P-L	2000 03 08.3	11 15.99 +11 06.0 18.7	-1.08 + 3.7	2.4/06.5	39647
1998 XW ₂	2000 03 08.3	11 16.04 +11 04.1 19.2	-0.97 + 6.8	2.2/06.3	34031
2000 CK ₆₃	2000 03 08.3	11 16.09 -02 56.4 17.6	-0.72 + 6.8	2.2/11.0	39595
1996 AH ₆	2000 03 08.3	11 16.14 +10 10.4 19.9	-0.97 + 5.8	1.8/06.7	33750
(13928)	2000 03 08.3	11 16.16 -00 45.5 18.4	-0.96 + 5.3	1.7/10.0	39031
2000 DY ₆₈	2000 03 08.3	11 16.28 +01 18.6 16.8	-0.70 + 7.1	0.9/09.6	39460
1998 XE ₁	2000 03 08.3	11 16.39 +10 03.5 19.0	-0.87 + 5.6	1.7/06.7	35727
(11293)	2000 03 08.4	11 16.60 +13 51.5 17.4	-1.00 + 6.3	3.3/05.5	35564
1998 QT ₉₄	2000 03 08.4	11 16.62 +02 38.7 19.3	-0.98 + 6.5	0.7/09.1	39535
1991 RL ₈	2000 03 08.4	11 16.63 +11 58.4 18.4	-1.05 + 4.3	2.5/06.3	39516
1982 UC ₁₁	2000 03 08.4	11 16.64 -00 43.3 18.6	-0.88 + 5.9	1.7/10.2	39512
2000 AB ₂₄₀	2000 03 08.4	11 16.66 +11 02.3 17.1	-0.81 +10.9	2.8/06.2	39583
2000 DU ₇₆	2000 03 08.4	11 16.78 +02 36.6 18.2	-1.01 + 6.7	0.8/09.1	39468
2000 DQ ₁₀₄	2000 03 08.4	11 16.79 +15 58.3 18.5	-1.05 + 4.4	4.5/05.1	39478
2000 AA ₂₄₄	2000 03 08.4	11 16.80 +18 06.8 16.8	-1.06 + 3.2	6.2/04.6	39583
2000 CS ₅₃	2000 03 08.5	11 16.73 +04 45.1 16.8	-0.86 + 8.8	0.0/08.5	39593
1998 SJ ₁₀₉	2000 03 08.5	11 16.81 -11 43.1 17.9	-0.79 + 9.2	5.5/14.6	39540
1997 SS ₃₁	2000 03 08.5	11 16.91 -01 42.9 17.6	-0.74 + 5.1	1.8/10.6	39530
2000 CM ₃₉	2000 03 08.5	11 16.96 +16 03.9 17.7	-0.82 + 6.2	3.3/04.7	39391
1998 SH ₁₀₅	2000 03 08.5	11 16.98 +09 39.5 17.0	-0.93 + 9.2	2.2/06.9	39540
2000 DS ₇₆	2000 03 08.5	11 17.03 +02 16.6 18.7	-0.73 + 3.5	0.6/09.3	39468
1994 RE ₁₁	2000 03 08.5	11 17.04 +03 05.1 20.8	-0.84 + 8.8	0.4/09.1	33551
(14031)	2000 03 08.6	11 17.21 +26 30.4 16.6	-0.93 + 5.3	6.6/01.3	39059
1998 SD ₆₇	2000 03 08.6	11 17.36 +13 42.5 17.7	-1.05 + 5.3	3.1/05.9	39540
2000 DC ₇₀	2000 03 08.6	11 17.41 +07 35.2 17.8	-0.93 + 8.8	1.0/07.7	39462
1998 QN ₁₀₂	2000 03 08.6	11 17.44 +08 34.4 17.2	-0.99 + 4.5	1.6/07.5	39535
2000 DW	2000 03 08.6	11 17.45 +14 18.7 16.9	-1.14 + 2.8	3.8/06.0	39436
1998 WY ₃₀	2000 03 08.6	11 17.54 +07 58.9 17.8	-1.12 + 4.4	1.3/07.7	39548
1993 FO ₁₂	2000 03 08.7	11 17.48 +12 55.2 17.3	-1.01 + 5.1	3.4/06.1	39519
2000 DA ₆₉	2000 03 08.7	11 17.53 +01 33.2 17.5	-0.85 + 5.6	0.9/09.7	39461
1993 FE ₃₃	2000 03 08.7	11 17.65 +07 41.7 18.3	-0.94 + 7.5	1.3/07.7	39155
(11389)	2000 03 08.7	11 17.72 +14 54.5 17.6	-0.78 + 4.4	3.0/05.4	35587
1998 SS ₁₁₃	2000 03 08.7	11 17.75 +06 32.3 19.6	-0.92 + 7.4	0.6/08.1	39541
1997 TV ₁₇	2000 03 08.7	11 17.77 -04 18.6 18.2	-0.69 + 6.3	2.4/11.8	39530
1998 QF ₅₄	2000 03 08.8	11 17.83 -02 28.8 18.6	-0.94 + 8.0	2.5/11.1	39208
2000 CN ₉₂	2000 03 08.8	11 17.96 +05 40.1 17.4	-0.91 + 6.7	0.5/08.5	39600
4500 T-2	2000 03 08.8	11 18.00 +08 49.3 19.4	-0.83 + 4.7	1.4/07.5	34273
(13537)	2000 03 08.8	11 18.25 +07 11.4 17.6	-0.69 + 6.6	0.7/08.0	38326
2000 AG ₉₈	2000 03 08.9	11 18.25 +15 44.7 16.7	-0.96 + 6.6	3.7/05.3	39574
1996 CQ ₁	2000 03 08.9	11 18.32 -01 00.1 18.3	-1.00 + 4.2	1.9/10.5	39525
1998 RK ₅₉	2000 03 08.9	11 18.49 +00 44.1 18.2	-0.95 + 7.8	1.3/10.2	39221
1998 YB ₉	2000 03 08.9	11 18.58 +00 58.5 18.1	-0.97 + 7.0	1.3/10.1	39292
2000 CL ₉₂	2000 03 08.9	11 18.63 +05 39.4 17.6	-0.75 + 5.4	0.4/08.6	39600
1998 WF ₂₄	2000 03 09.0	11 18.57 +00 04.0 18.5	-0.96 + 6.0	1.6/10.4	39548
(13943)	2000 03 09.0	11 18.69 +46 59.5 16.7	-1.49 - 1.8	16.8/23.0	39035
1981 EW ₃₄	2000 03 09.0	11 18.74 +05 30.4 17.9	-1.05 + 2.0	0.4/08.8	39141

2000 MAR. 20

M.P.C. 39679

1990 OB ₁	2000 03 09.0	11 18.78 -09 48.2 16.4	-0.95 + 6.9	5.6/13.6	39514
2000 AS ₂₃₉	2000 03 09.0	11 18.80 +26 27.1 16.1	-0.81 + 7.6	8.9/29.5	39583
1998 SN ₁₃₅	2000 03 09.0	11 18.86 +15 54.7 17.0	-1.04 + 3.9	4.3/05.7	39542
1999 XJ ₃₄	2000 03 09.0	11 18.91 +23 21.0 16.2	-0.79 + 9.2	7.2/01.9	39559
2000 CY ₇₆	2000 03 09.0	11 18.96 +05 56.2 16.7	-1.20 - 2.1	0.6/08.7	39412
(13148)	2000 03 09.0	11 18.96 +14 24.4 16.1	-0.76 + 8.4	3.8/05.5	37526
(9849)	2000 03 09.1	11 18.97 +01 33.2 16.4	-0.95 + 6.3	1.1/10.0	33457
1998 SW ₁₂₉	2000 03 09.1	11 18.99 +18 31.5 16.8	-1.07 + 0.2	5.5/05.4	39541
1998 SP ₉₇	2000 03 09.1	11 19.04 +10 02.7 19.0	-1.05 + 3.7	2.1/07.5	38792
2000 DK ₁₀₅	2000 03 09.1	11 19.07 +13 23.1 17.7	-0.89 +11.2	3.3/05.9	39479
1998 SD ₄₃	2000 03 09.1	11 19.22 +12 50.0 16.0	-1.10 + 0.8	4.2/06.9	39539
1994 WC	2000 03 09.2	11 19.35 +18 55.2 19.2	-0.99 + 4.2	4.1/04.7	39522
2000 AL ₄₂	2000 03 09.2	11 19.40 +50 46.0 17.1	-1.35 + 9.6	17.9/20.0	39340
(13632)	2000 03 09.2	11 19.44 +13 43.5 17.3	-1.07 + 5.9	3.4/06.4	38351
1994 WJ	2000 03 09.2	11 19.44 +12 32.9 19.3	-0.91 + 4.9	2.4/06.7	39523
2000 DL ₁₀₅	2000 03 09.2	11 19.52 +11 55.9 18.5	-0.90 + 5.6	2.3/06.8	39479
1971 UQ	2000 03 09.2	11 19.52 +10 08.6 18.9	-1.02 + 5.8	2.0/07.5	39510
1998 WA ₁₁	2000 03 09.2	11 19.66 +11 59.3 18.4	-0.87 + 5.6	2.5/06.8	39280
(14010)	2000 03 09.2	11 19.67 -04 21.9 18.2	-0.78 + 7.8	2.5/12.3	39053
1985 PF	2000 03 09.2	11 19.68 +09 59.3 17.9	-0.80 + 9.1	1.6/07.3	39512
2000 AT ₉₇	2000 03 09.3	11 19.71 +20 31.0 16.8	-0.81 +10.3	6.0/03.1	39574
1998 UE	2000 03 09.3	11 19.88 -27 40.5 16.0	-1.57 - 8.6	14.8/15.3	38795
(9912)	2000 03 09.3	11 19.90 +03 04.5 15.2	-1.00 + 1.9	0.5/09.7	33471
1997 GT ₁₁	2000 03 09.3	11 19.92 +00 52.9 18.6	-1.01 + 6.8	1.3/10.4	39527
(13934)	2000 03 09.3	11 19.93 +17 34.3 16.9	-1.04 + 6.6	4.5/05.1	39033
1998 YM ₇	2000 03 09.3	11 19.98 -03 20.3 18.1	-0.98 + 2.6	2.3/11.5	39549
1998 VE	2000 03 09.3	11 20.02 +02 30.4 19.5	-0.91 + 5.7	0.6/09.9	39545
1998 RO ₅₄	2000 03 09.4	11 20.07 -02 19.7 18.9	-0.98 + 6.4	2.4/11.5	33565
2000 DQ ₇₀	2000 03 09.4	11 20.13 +04 33.1 17.0	-0.92 + 2.9	0.1/09.3	39462
1998 RY	2000 03 09.4	11 20.37 -00 35.2 19.7	-0.88 + 6.0	1.4/11.0	33756
2000 CD ₇₁	2000 03 09.4	11 20.40 -02 57.5 17.2	-0.80 + 2.9	2.1/11.7	39409
2000 DR ₆₉	2000 03 09.4	11 20.46 +03 47.4 17.5	-0.81 + 4.7	0.1/09.6	39461
(13361)	2000 03 09.5	11 20.41 +12 51.8 16.6	-1.02 + 7.4	3.4/06.7	37585
1993 FS ₄₆	2000 03 09.5	11 20.46 +02 20.1 17.3	-0.88 + 8.9	0.8/10.2	39519
(13939)	2000 03 09.5	11 20.49 +03 10.5 17.1	-0.80 + 9.9	0.3/09.9	39034
2000 DK ₇₀	2000 03 09.5	11 20.63 +07 16.8 17.8	-0.95 + 8.7	1.1/08.5	39462
2000 CZ ₆₃	2000 03 09.5	11 20.64 +01 18.3 17.6	-0.85 + 4.3	0.9/10.5	39406
1981 ED ₃₄	2000 03 09.5	11 20.64 +01 37.8 18.5	-0.95 + 5.5	0.9/10.4	39512
2000 AL ₂₃₇	2000 03 09.5	11 20.66 +06 23.5 16.1	-0.75 +12.3	0.8/08.7	39583
1996 RU ₂₅	2000 03 09.5	11 20.70 +04 03.5 18.3	-0.75 + 5.0	0.0/09.6	39526
2000 DE ₇₈	2000 03 09.5	11 20.79 +01 31.4 18.3	-0.90 + 7.2	0.8/10.5	39469
(9733)	2000 03 09.6	11 20.96 -04 20.5 18.8	-0.98 + 7.5	2.9/12.4	33195
1993 FK ₁₃	2000 03 09.6	11 20.98 +14 33.7 17.7	-1.03 + 4.7	3.7/06.5	39519
1998 XH ₄₅	2000 03 09.6	11 21.03 +04 12.7 17.9	-0.76 + 3.9	0.0/09.7	39289
2000 DR ₁₀₉	2000 03 09.7	11 21.16 +13 29.1 18.5	-0.92 + 4.5	3.0/06.8	39481
4196 T-3	2000 03 09.7	11 21.20 +06 59.0 18.5	-0.85 + 7.1	0.9/08.8	34061
2000 CZ ₈₈	2000 03 09.7	11 21.32 +11 39.2 17.7	-0.96 + 7.9	2.9/07.3	39426
2000 AR ₂₃₉	2000 03 09.7	11 21.34 +29 23.6 16.5	-0.73 +10.0	9.7/28.1	39583
(13740)	2000 03 09.7	11 21.39 +00 26.8 17.8	-0.95 + 4.4	1.2/11.0	38383
(13639)	2000 03 09.7	11 21.49 +05 24.9 16.7	-0.80 +10.5	0.4/09.3	38353
1994 SC ₆	2000 03 09.7	11 21.56 +04 14.6 19.5	-0.89 + 6.9	0.0/09.8	39522

2000 CJ ₇₁	2000 03 09.7	11 21.59 -00 00.7 17.5	-0.93 + 5.8	1.7/11.1	39409
2000 CP ₉₂	2000 03 09.8	11 21.57 +07 09.9 17.3	-0.81 + 7.8	1.0/08.8	39600
1987 UA ₁	2000 03 09.8	11 21.66 -13 06.4 17.4	-0.91 + 6.8	5.7/15.6	39513
1998 SG ₁₄₁	2000 03 09.8	11 21.68 +07 57.3 20.2	-0.97 + 4.7	1.2/08.7	35720
2000 DZ	2000 03 09.8	11 21.81 +15 22.6 17.3	-0.99 + 6.8	4.3/06.3	39602
1995 VB	2000 03 09.8	11 21.82 -05 20.4 17.7	-0.98 + 6.0	3.9/12.9	39524
2000 DW ₇₁	2000 03 09.8	11 21.97 +05 12.0 17.9	-0.90 + 7.1	0.4/09.5	39463
1990 ES ₆	2000 03 09.9	11 21.88 +02 48.0 16.8	-0.79 + 5.4	0.4/10.3	39514
1991 LA	2000 03 09.9	11 21.89 +05 47.4 20.6	-1.04 + 6.7	0.6/09.4	33545
(13629)	2000 03 09.9	11 21.91 +00 09.8 16.7	-0.90 + 6.9	1.8/11.2	38351
(13512)	2000 03 09.9	11 21.99 +02 45.2 17.3	-0.90 + 3.7	0.4/10.3	38319
2000 DF ₁₁₀	2000 03 09.9	11 21.99 +02 49.5 18.3	-0.98 + 6.5	0.6/10.3	39481
1998 QM ₉₂	2000 03 09.9	11 22.02 -01 23.4 18.3	-0.88 + 5.3	1.6/11.7	39535
1997 GL ₆	2000 03 09.9	11 22.10 +01 59.2 17.6	-0.96 + 7.6	0.8/10.6	39527
1991 SS ₁	2000 03 09.9	11 22.17 +11 31.4 20.9	-1.05 + 5.1	2.5/07.8	37628
1997 HZ ₁₀	2000 03 09.9	11 22.25 +07 18.3 19.2	-1.01 + 5.5	1.1/09.0	39528
2000 ET ₂₁	2000 03 10.0	11 22.28 +16 25.5 17.5	-1.44 - 4.9	5.0/07.8	39488
1998 VW ₆	2000 03 10.0	11 22.29 -14 00.3 18.0	-0.83 + 5.8	5.5/16.2	35724
(13354)	2000 03 10.0	11 22.30 -11 51.1 16.3	-0.79 + 8.1	5.6/15.8	37583
2000 AD ₉₈	2000 03 10.0	11 22.43 +13 54.8 17.0	-0.77 + 4.9	3.2/06.8	39574
2000 AC ₁₃₇	2000 03 10.0	11 22.46 +08 02.9 17.0	-0.81 + 3.5	1.3/08.8	39577
1997 KH ₄	2000 03 10.0	11 22.47 +15 47.6 16.0	-0.94 + 7.6	5.1/06.1	39528
2000 CQ ₉₂	2000 03 10.0	11 22.53 +05 22.7 17.3	-0.81 + 3.2	0.4/09.7	39429
1983 RQ ₃	2000 03 10.0	11 22.67 +01 16.5 17.7	-0.97 + 4.8	0.9/10.9	39512
1998 SU ₁₄₀	2000 03 10.1	11 22.64 -00 48.6 18.9	-0.93 + 7.2	1.7/11.7	39542
1998 SG ₁₅	2000 03 10.1	11 22.68 +01 34.8 17.2	-0.94 + 5.2	1.0/11.0	39232
1998 RG ₆₁	2000 03 10.1	11 22.72 +03 19.6 17.7	-1.04 + 4.9	0.2/10.3	39222
2000 DP ₁₀₅	2000 03 10.1	11 22.78 +12 52.9 18.3	-0.96 + 7.2	3.7/07.2	39479
(13087)	2000 03 10.1	11 22.94 +02 47.0 16.8	-0.79 + 5.5	0.4/10.6	37510
1998 QJ ₅₀	2000 03 10.2	11 23.00 +06 28.5 18.5	-1.08 + 4.3	1.0/09.5	39207
(13600)	2000 03 10.2	11 23.01 +07 11.4 17.2	-0.96 + 6.6	1.3/09.2	38343
1150 T-1	2000 03 10.2	11 23.02 -00 31.5 17.2	-0.89 + 5.1	1.8/11.6	39499
2000 AH ₁₃₇	2000 03 10.2	11 23.03 +10 45.0 16.8	-0.97 + 7.9	2.3/08.0	39578
2000 CW ₅₆	2000 03 10.2	11 23.04 +15 41.8 17.9	-0.70 + 5.6	2.7/06.1	39401
1998 RQ ₇₂	2000 03 10.2	11 23.04 +06 43.5 19.8	-0.97 + 5.4	0.9/09.4	39537
(14101)	2000 03 10.2	11 23.04 -12 28.1 16.7	-0.79 + 7.5	6.1/16.0	39080
1997 GG ₇	2000 03 10.2	11 23.07 +02 32.5 18.7	-0.92 + 7.3	0.5/10.7	39527
(13809)	2000 03 10.2	11 23.33 +06 50.9 16.7	-0.84 + 3.0	0.9/09.4	38402
1998 SF ₁₂₁	2000 03 10.2	11 23.38 -03 00.7 16.4	-0.98 + 4.3	3.0/12.4	39541
2000 AB ₉₈	2000 03 10.2	11 23.42 +22 37.9 15.2	-0.80 + 8.8	6.9/03.3	39574
1994 XV ₄	2000 03 10.3	11 23.36 -16 11.6 17.7	-0.90 + 4.0	6.7/16.9	38449
1997 RY ₂	2000 03 10.3	11 23.48 +01 12.4 18.5	-0.80 + 5.9	0.8/11.2	39529
2000 DX ₇₁	2000 03 10.3	11 23.57 +04 53.4 17.9	-0.71 + 4.4	0.2/10.0	39464
(14281)	2000 03 10.3	11 23.57 +06 44.0 17.7	-0.79 + 5.7	0.8/09.4	39131
(14038)	2000 03 10.3	11 23.60 -04 09.0 17.2	-0.71 + 7.0	2.3/13.2	39061
3320 T-3	2000 03 10.3	11 23.70 +07 19.4 18.5	-0.88 + 5.6	1.1/09.3	39649
(10152)	2000 03 10.3	11 23.78 +03 00.3 16.8	-1.01 + 4.0	0.3/10.7	33894
2000 DT ₇₀	2000 03 10.4	11 23.73 +04 19.0 18.6	-1.00 + 7.9	0.2/10.3	39462
2000 AE ₉₈	2000 03 10.4	11 23.85 +14 59.3 17.4	-0.92 + 5.5	4.5/06.9	39574
2000 DS ₇₈	2000 03 10.4	11 23.87 +04 39.4 18.0	-0.73 + 5.6	0.2/10.2	39469
2000 DY ₇₀	2000 03 10.4	11 23.88 +01 29.9 17.7	-0.88 + 5.9	0.9/11.0	39462

1981 ED ₁₁	2000 03 10.4	11 23.94 -02 46.1 18.7	-1.04 + 2.9	2.6/12.3	39511	2000 DG ₁₀₆	2000 03 11.1	11 26.61 +14 34.7 18.2	-0.95 + 6.6	3.7/07.6	39479
1998 SE ₁₃	2000 03 10.4	11 24.09 +21 00.6 17.3	-1.12 + 0.5	6.5/05.8	35716	2000 DD ₇₁	2000 03 11.1	11 26.63 +00 25.0 17.0	-1.03 + 3.5	1.4/12.1	39462
1998 QP ₃₈	2000 03 10.4	11 24.09 +02 43.1 17.2	-0.85 + 8.7	8.9/31.0	39533	1998 QR ₂₁	2000 03 11.1	11 26.74 -00 48.9 17.8	-1.11 + 4.0	1.8/12.4	39202
1988 UV	2000 03 10.4	11 24.13 -05 21.1 17.6	-0.93 + 8.8	3.6/13.6	39514	3222 T-2	2000 03 11.2	11 26.80 +07 22.9 19.0	-0.99 + 5.3	1.3/10.1	39648
1998 RB ₆₉	2000 03 10.4	11 24.16 +04 51.2 18.4	-1.00 + 5.5	0.4/10.2	39225	(9778)	2000 03 11.2	11 26.83 +02 36.5 18.3	-0.91 + 6.4	0.3/11.5	38749
(13171)	2000 03 10.4	11 24.18 -05 45.8 17.1	-0.98 + 4.1	3.9/13.4	37532	2000 AO ₂₃₃	2000 03 11.2	11 26.91 +03 34.2 16.8	-1.10 - 1.7	0.0/11.3	39583
1993 TS ₇	2000 03 10.5	11 24.11 +04 24.1 20.4	-0.86 + 4.1	0.2/10.3	39158	2000 CS ₆₃	2000 03 11.2	11 26.92 -06 52.9 16.4	-1.00 + 1.4	3.7/14.1	39405
1989 TC ₄	2000 03 10.5	11 24.13 +05 49.5 19.1	-0.83 + 5.9	0.6/09.9	39514	1997 NE ₃	2000 03 11.2	11 27.02 -08 29.1 15.6	-0.96 + 2.6	5.5/14.8	39529
2000 AR ₂₃₇	2000 03 10.5	11 24.29 -03 04.3 16.7	-1.03 + 1.8	2.4/12.4	39583	1998 UV ₄₁	2000 03 11.2	11 27.05 +07 50.7 18.4	-0.92 + 6.1	1.4/09.9	35723
(13812)	2000 03 10.5	11 24.50 -12 44.4 16.4	-0.81 + 3.4	5.1/15.8	38403	(13542)	2000 03 11.2	11 27.11 +16 32.0 16.4	-1.03 + 4.0	5.1/07.4	38327
(13970)	2000 03 10.5	11 24.51 +06 45.4 17.5	-0.96 + 8.0	1.0/09.6	39043	1998 QC	2000 03 11.2	11 27.12 -03 05.4 16.5	-1.06 + 4.4	2.9/13.2	39532
1997 MT ₃	2000 03 10.6	11 24.50 +07 45.3 18.8	-0.90 + 6.8	1.4/09.3	39528	1998 UE ₁₅	2000 03 11.2	11 27.13 +14 56.8 18.6	-1.00 + 8.4	3.9/07.5	39544
1993 XQ	2000 03 10.6	11 24.52 +02 18.6 17.2	-0.78 + 5.2	0.4/11.1	39521	2000 DA ₇	2000 03 11.3	11 27.14 +03 19.3 16.0	-0.93 + 5.4	0.1/11.4	39440
2000 AU ₁₄₄	2000 03 10.6	11 24.63 +11 31.4 15.9	-0.74 +11.7	2.9/07.7	39579	1998 ST ₇	2000 03 11.3	11 27.15 +04 36.2 17.1	-0.96 + 4.7	0.5/11.0	39231
2000 CQ ₆₃	2000 03 10.6	11 24.64 -02 12.2 17.0	-0.89 + 4.1	2.1/12.5	39405	1998 WP ₁₂	2000 03 11.3	11 27.20 +00 13.5 17.8	-0.89 + 5.2	1.1/12.4	39280
(9729)	2000 03 10.6	11 24.78 -02 06.3 17.7	-0.97 + 2.6	1.8/12.3	33194	1994 PD ₈	2000 03 11.3	11 27.27 +00 05.6 18.4	-0.99 + 4.4	1.2/12.4	39521
1998 YW ₁₁	2000 03 10.6	11 24.86 -05 15.3 17.5	-0.80 + 2.8	2.7/13.5	39549	1998 VR ₁₂	2000 03 11.3	11 27.35 +06 52.8 18.7	-0.85 + 5.9	1.1/10.3	39274
(9755)	2000 03 10.7	11 24.85 -00 27.7 16.8	-0.86 + 7.6	1.4/12.1	33200	1999 CM ₁₃₈	2000 03 11.3	11 27.46 +08 17.5 18.9	-0.85 + 5.4	1.7/09.9	39550
6793 P-L	2000 03 10.7	11 24.87 +09 53.2 17.9	-1.04 + 5.5	2.4/08.8	39647	1997 SN ₁	2000 03 11.4	11 27.78 -02 25.1 17.5	-1.00 + 1.6	2.0/13.1	39529
1998 XS ₇₃	2000 03 10.7	11 24.91 -04 21.3 17.1	-0.67 + 2.9	2.1/13.4	39548	2000 DJ ₁₀₆	2000 03 11.4	11 27.81 +13 27.5 17.9	-0.90 + 6.0	3.4/08.2	39479
2000 AK ₂₃₃	2000 03 10.7	11 24.99 +14 30.9 17.2	-0.82 + 7.6	3.2/07.0	39583	1998 QC ₅₁	2000 03 11.5	11 27.81 +05 04.0 17.6	-0.96 + 8.1	0.6/11.0	39534
2000 AD ₂₄₀	2000 03 10.7	11 25.06 -00 55.4 16.6	-0.96 + 2.6	1.8/12.1	39583	1998 VJ ₈	2000 03 11.5	11 27.83 +04 36.8 18.4	-0.84 + 6.1	0.4/11.1	39545
1998 WS ₉	2000 03 10.7	11 25.13 +15 57.0 16.7	-1.00 + 5.6	4.5/06.9	39547	(10193)	2000 03 11.5	11 27.88 +03 34.7 18.6	-0.77 + 5.0	0.0/11.5	33904
1998 UP	2000 03 10.7	11 25.15 -03 20.2 20.2	-0.93 + 6.8	2.3/13.1	39265	1992 UJ ₂	2000 03 11.5	11 28.07 -07 55.8 17.2	-0.74 + 5.7	3.1/15.4	39518
1995 SS ₅₃	2000 03 10.7	11 25.18 +08 18.2 18.3	-1.06 + 5.1	1.8/09.4	39523	2000 DH ₁₀₆	2000 03 11.5	11 28.13 +13 21.2 17.8	-0.78 + 4.6	3.2/08.3	39479
1998 SC ₁₃₀	2000 03 10.7	11 25.20 +06 26.5 18.9	-1.01 + 5.1	0.9/10.0	39541	1998 SX ₂₈	2000 03 11.5	11 28.18 +06 36.1 18.5	-0.93 + 6.2	1.3/10.6	39236
1996 EP ₁	2000 03 10.7	11 25.23 +01 56.1 17.7	-0.84 + 6.7	0.5/11.4	39525	(9955)	2000 03 11.6	11 28.27 +02 09.4 17.9	-1.03 + 4.7	0.4/12.0	38016
2000 CY ₈₀	2000 03 10.8	11 25.21 +02 14.7 17.3	-0.98 + 8.7	11.2/20.0	39414	1998 YN ₄	2000 03 11.6	11 28.34 -15 28.9 18.0	-0.96 + 2.8	6.0/17.4	35729
1998 TY ₃₂	2000 03 10.8	11 25.26 +16 28.4 17.5	-0.94 + 2.8	4.5/07.0	39264	1998 ST ₁₄₆	2000 03 11.6	11 28.36 +07 18.6 17.5	-1.02 + 6.2	1.4/10.4	39542
1995 YG ₃	2000 03 10.8	11 25.26 +01 52.8 18.2	-1.00 + 5.1	0.7/11.4	39524	1998 XT ₁₇	2000 03 11.6	11 28.37 -01 00.1 18.7	-0.70 + 5.4	1.1/13.1	39287
1998 QH ₄₀	2000 03 10.8	11 25.36 -01 22.7 18.2	-0.95 + 6.2	1.8/12.5	39533	5131 T-3	2000 03 11.6	11 28.38 +16 06.6 18.4	-0.98 + 7.2	4.5/07.4	39509
2000 AH ₉₈	2000 03 10.8	11 25.40 +11 20.2 17.0	-1.02 + 3.2	3.0/08.6	39574	2000 CQ ₃₄	2000 03 11.6	11 28.41 +06 00.4 18.0	-0.75 + 4.7	0.8/10.8	39591
1998 QM ₃₉	2000 03 10.8	11 25.46 +09 22.1 18.8	-0.98 + 5.7	2.0/09.1	32704	(10044)	2000 03 11.6	11 28.41 -12 16.1 18.6	-0.94 + 2.7	4.2/16.3	35414
(14097)	2000 03 10.8	11 25.54 -02 21.9 18.1	-0.84 + 4.6	1.9/12.8	39078	3168 T-3	2000 03 11.6	11 28.42 +08 09.4 20.3	-1.00 + 5.1	1.6/10.2	36124
1998 QT ₁₃	2000 03 10.9	11 25.72 +05 04.3 18.8	-0.97 + 7.0	0.5/10.5	39532	1994 RP ₁₁	2000 03 11.6	11 28.43 -06 10.0 19.1	-0.92 + 6.0	3.2/14.7	35067
1997 QF ₂	2000 03 10.9	11 25.82 +09 19.6 18.1	-0.84 + 2.5	1.5/09.3	39529	2000 DP ₇₁	2000 03 11.6	11 28.44 +02 48.3 17.6	-0.73 + 5.1	0.2/11.9	39463
(13540)	2000 03 10.9	11 25.84 +06 26.3 17.4	-0.98 + 5.6	1.0/10.1	38326	2000 DC ₇₃	2000 03 11.6	11 28.48 +04 15.5 18.6	-0.91 + 8.1	0.3/11.4	39464
1998 YV ₃	2000 03 10.9	11 25.86 +05 34.1 19.2	-0.71 + 5.0	0.5/10.3	35729	1999 AC ₆	2000 03 11.6	11 28.53 +27 46.3 18.5	-0.90 + 5.5	6.5/03.3	39549
1991 RR ₁₀	2000 03 10.9	11 26.02 +06 51.6 18.1	-1.05 + 3.8	1.2/10.1	39516	1998 XP ₆	2000 03 11.6	11 28.53 +12 12.1 18.1	-0.89 + 5.3	3.2/08.8	39286
1998 RP ₇₈	2000 03 10.9	11 26.02 +08 01.3 17.9	-0.91 + 8.8	1.6/09.5	39538	1999 BC ₃	2000 03 11.6	11 28.53 +02 21.4 18.3	-0.66 + 5.2	0.3/12.0	39296
2000 BC	2000 03 11.0	11 25.97 +10 46.4 17.1	-0.82 + 7.8	2.7/08.5	39584	5092 T-3	2000 03 11.6	11 28.57 +11 17.0 17.3	-0.71 + 9.0	2.6/08.8	39508
1997 RA ₁	2000 03 11.0	11 26.00 +04 52.8 17.8	-0.83 + 2.8	0.4/10.6	39529	2000 BD	2000 03 11.6	11 28.57 +11 17.0 17.4	-0.71 + 9.0	2.6/08.8	38887
(14032)	2000 03 11.0	11 26.04 -05 44.3 17.7	-0.85 + 6.6	2.8/14.2	39060	1998 SU ₂₁	2000 03 11.7	11 28.55 +01 49.7 16.9	-0.93 + 8.0	0.7/12.2	39538
1996 DQ ₂	2000 03 11.0	11 26.05 +12 27.1 16.9	-0.89 + 6.4	3.2/08.1	39525	(13621)	2000 03 11.7	11 28.66 +07 00.4 16.9	-0.87 + 2.4	1.1/10.7	38349
(13497)	2000 03 11.0	11 26.07 +21 40.0 15.0	-1.71 -11.2	9.1/09.0	38315	(14169)	2000 03 11.7	11 28.77 +12 57.9 18.0	-0.85 + 4.7	2.8/08.7	39100
(13811)	2000 03 11.0	11 26.18 -09 48.2 17.2	-0.74 + 5.4	3.6/15.6	38403	1998 SB ₅₄	2000 03 11.7	11 28.89 -00 46.7 18.7	-0.96 + 6.9	1.5/13.1	39539
1997 JU ₇	2000 03 11.0	11 26.33 -08 48.1 17.3	-0.86 +10.6	4.3/15.6	39528	(14173)	2000 03 11.7	11 28.89 +12 34.9 17.3	-0.97 + 5.3	3.3/08.9	39101
1992 EZ ₁₀	2000 03 11.1	11 26.36 +04 10.0 17.8	-0.62 + 5.0	0.1/10.9	39150	(14016)	2000 03 11.7	11 28.92 -10 12.3 17.3	-0.79 + 3.9	4.2/16.2	39055
1997 GX ₂₀	2000 03 11.1	11 26.38 -00 31.8 18.3	-1.00 + 7.5	1.6/12.4	39528	2000 DM ₁₀₆	2000 03 11.7	11 28.92 +14 16.7 18.3	-0.94 + 8.2	4.6/08.1	39479
1997 PN ₃	2000 03 11.1	11 26.42 +05 51.5 18.5	-0.82 + 4.6	0.7/10.4	39529	2000 DP ₇₂	2000 03 11.8	11 28.98 +05 20.8 18.4	-0.89 + 5.7	0.8/11.2	39464
1993 FX ₂₅	2000 03 11.1	11 26.49 +01 19.2 17.6	-1.02 + 4.5	0.9/11.8	39519	1998 QX ₅₇	2000 03 11.8	11 29.01 +02 44.6 17.2	-0.91 + 7.7	0.2/12.0	39534

2000 MAR. 20

M.P.C. 39681

(9748) 2000 03 11.8 11 29.02 -02 07.4 16.7 -0.88 + 8.8 2.1/13.7 33199
 2000 DY₁₄ 2000 03 11.8 11 29.03 +07 29.9 17.2 -0.97 + 7.9 1.5/10.5 39443
 1998 UY₁₈ 2000 03 11.8 11 29.04 -02 26.3 18.5 -0.89 + 5.7 2.1/13.7 39544
 2000 DH₇₁ 2000 03 11.8 11 29.18 +00 11.8 17.7 -1.04 + 4.4 1.2/12.8 39463
 (13882) 2000 03 11.8 11 29.18 +05 36.6 17.2 -0.89 + 9.0 1.0/11.1 38423
 3005 P-L 2000 03 11.8 11 29.19 -11 19.7 17.0 -0.80 + 3.7 4.4/16.5 39647
 2000 DW₁₄ 2000 03 11.9 11 29.26 +08 25.1 18.7 -0.87 + 7.7 1.8/10.2 39443
 1997 JN₁₅ 2000 03 11.9 11 29.42 +06 39.8 18.7 -0.95 + 6.4 1.1/10.9 39528
 2000 DV₁₄ 2000 03 11.9 11 29.45 +07 42.1 17.5 -0.76 + 4.8 1.4/10.5 39443
 1998 QP₆ 2000 03 11.9 11 29.50 +06 54.8 18.2 -0.92 + 4.9 1.2/10.8 39532
 2000 DU₇₈ 2000 03 11.9 11 29.52 +04 48.6 17.3 -1.04 + 3.9 0.6/11.5 39469
 (14271) 2000 03 11.9 11 29.62 +06 37.5 17.4 -0.78 + 5.5 1.0/10.9 39128
 1995 DW₈ 2000 03 11.9 11 29.68 +05 28.9 17.7 -0.78 + 5.8 0.7/11.3 39165
 1998 VF₇ 2000 03 12.0 11 29.63 -13 00.4 18.3 -0.84 + 7.4 4.9/17.8 34308
 2000 DU₇₁ 2000 03 12.0 11 29.64 +03 01.5 17.8 -0.92 + 5.2 0.1/12.1 39463
 1994 WT 2000 03 12.0 11 29.65 +11 35.1 18.8 -0.91 + 5.0 2.5/09.4 39523
 2000 DO₇₂ 2000 03 12.0 11 29.71 +04 17.9 18.4 -0.79 + 2.8 0.3/11.7 39464
 1996 NK₅ 2000 03 12.0 11 29.73 +03 08.7 16.9 -0.75 + 5.1 0.0/12.1 39172
 2000 DL₇₈ 2000 03 12.0 11 29.74 +00 33.2 16.6 -0.88 + 6.1 1.2/12.9 39469
 (14195) 2000 03 12.0 11 29.81 -03 35.0 16.8 -0.69 + 2.7 1.8/14.2 39107
 (14167) 2000 03 12.0 11 29.85 +07 24.6 17.2 -0.77 + 5.0 1.3/10.7 39099
 1998 SF₂₇ 2000 03 12.0 11 29.91 +03 46.7 17.4 -0.93 + 6.7 0.2/11.9 39235
 1993 TH₄ 2000 03 12.0 11 30.00 +03 07.5 17.8 -0.85 + 4.4 0.0/12.1 39520
 (10061) 2000 03 12.0 11 30.01 -09 11.0 18.1 -0.90 + 2.9 3.6/15.8 33872
 1998 SB₁₄₆ 2000 03 12.1 11 30.02 +06 33.6 16.9 -1.01 + 4.2 1.5/11.1 39256
 1996 GG₁₄ 2000 03 12.1 11 30.02 +07 39.2 20.5 -0.90 + 5.5 1.3/10.7 38454
 1998 SZ₇₉ 2000 03 12.1 11 30.05 +00 45.6 17.7 -0.97 + 5.3 1.0/12.9 39540
 1996 BP₁ 2000 03 12.1 11 30.09 +09 21.7 18.0 -0.98 + 4.3 2.5/10.3 39169
 2000 DN₇₈ 2000 03 12.1 11 30.19 -00 18.8 18.3 -0.92 + 3.5 1.2/13.2 39469
 1993 TS₃₁ 2000 03 12.1 11 30.21 +05 28.0 19.1 -0.80 + 6.3 0.7/11.4 35689
 (10100) 2000 03 12.1 11 30.23 +06 06.9 17.6 -0.97 + 5.6 1.1/11.3 38016
 (13377) 2000 03 12.1 11 30.30 +09 19.2 17.1 -0.76 + 5.5 1.9/10.1 37589
 1238 T-1 2000 03 12.2 11 30.56 +02 38.7 18.2 -0.81 + 4.7 0.2/12.4 39647
 2000 DF₇₁ 2000 03 12.2 11 30.63 +00 40.6 18.1 -0.87 + 5.9 0.9/13.1 39463
 1998 SH₆₄ 2000 03 12.2 11 30.74 +13 03.5 18.6 -0.91 + 5.0 3.2/09.2 39244
 2000 EQ₄₉ 2000 03 12.3 11 30.76 -10 33.5 16.4 -1.03 + 6.0 5.4/16.7 39492
 2000 DZ₁₄ 2000 03 12.3 11 30.76 +05 25.7 18.0 -0.88 + 7.7 1.0/11.6 39443
 1998 QH₉₉ 2000 03 12.3 11 30.92 +07 44.4 19.1 -0.98 + 5.4 1.6/10.9 33090
 2000 DT₇₂ 2000 03 12.3 11 30.94 +04 16.1 17.9 -0.82 + 2.9 0.3/12.0 39464
 2000 AZ₂₃₉ 2000 03 12.3 11 31.09 +04 11.1 16.8 -0.99 + 3.8 0.4/12.1 39583
 1998 WY₁₈ 2000 03 12.3 11 31.12 -00 23.0 18.3 -0.85 + 5.5 1.2/13.5 39282
 1993 FY₅ 2000 03 12.3 11 31.16 +08 17.0 17.8 -1.02 + 3.9 2.2/10.9 39519
 (9854) 2000 03 12.4 11 31.08 +07 45.8 17.2 -0.84 + 7.2 1.6/10.8 33458
 1998 SF₁₀ 2000 03 12.4 11 31.14 +09 24.4 19.6 -0.92 + 4.4 2.0/10.5 39538
 2000 DU₇₃ 2000 03 12.4 11 31.16 +02 39.2 18.4 -1.06 + 3.4 0.2/12.5 39465
 1998 XS₄ 2000 03 12.4 11 31.30 -16 01.6 17.2 -0.96 + 2.4 6.6/18.0 39286
 2000 AE₂₄₀ 2000 03 12.4 11 31.39 -02 18.0 16.8 -1.03 + 2.9 2.4/14.0 39360
 2000 DL₇₄ 2000 03 12.5 11 31.54 -00 02.9 18.1 -1.03 + 4.9 1.1/13.4 39465
 1996 AZ₁₀ 2000 03 12.5 11 31.55 +06 05.6 18.6 -0.89 + 8.3 1.2/11.5 39169
 1998 VN₃₀ 2000 03 12.5 11 31.62 -07 16.1 18.5 -0.94 + 5.7 3.4/15.8 39546
 1998 YX₂₁ 2000 03 12.5 11 31.65 -14 28.2 19.5 -0.78 + 2.8 4.3/18.1 35730

1992 ET₃₂ 2000 03 12.5 11 31.69 -00 31.9 18.0 -0.64 + 4.2 1.0/13.8 39518
 (13810) 2000 03 12.5 11 31.73 +28 19.6 16.9 -0.88 + 2.9 6.9/03.8 38403
 1996 VS₁ 2000 03 12.5 11 31.98 +50 53.2 16.1 -1.80 - 7.1 23.0/27.9 39526
 1998 SC₁₄₀ 2000 03 12.6 11 31.91 -12 35.7 17.8 -0.81 + 8.9 5.2/18.4 39256
 2000 DY₇₃ 2000 03 12.6 11 32.01 +01 31.5 17.5 -0.80 + 5.2 0.5/13.1 39465
 2000 CO₇₁ 2000 03 12.6 11 32.04 +04 13.5 17.0 -0.78 +11.2 0.5/12.2 39409
 1993 FX₁₁ 2000 03 12.6 11 32.07 +11 17.1 18.2 -1.03 + 4.3 3.4/10.2 39519
 1998 SR₁₄ 2000 03 12.6 11 32.08 +11 37.1 18.4 -0.97 + 4.9 3.0/10.0 39538
 2000 DK₇₄ 2000 03 12.6 11 32.12 -00 00.5 18.0 -0.94 + 5.5 1.3/13.6 39465
 1994 PP₁₇ 2000 03 12.6 11 32.13 +01 27.5 19.3 -0.92 + 5.9 0.5/13.2 39521
 2000 EP₁₀ 2000 03 12.6 11 32.15 +03 57.2 18.0 -0.80 + 5.9 0.3/12.4 39483
 2000 DX₇₃ 2000 03 12.6 11 32.25 +02 10.1 16.9 -0.76 + 4.9 0.3/13.0 39465
 2000 AT₁₃₇ 2000 03 12.6 11 32.28 -02 42.5 16.4 -1.06 - 0.3 2.3/14.1 39578
 1991 RU₁₆ 2000 03 12.7 11 32.32 +10 29.8 18.8 -1.05 + 4.6 2.7/10.5 39516
 2000 CT₉₂ 2000 03 12.7 11 32.47 +05 14.8 17.3 -0.83 + 4.7 0.7/12.0 39429
 1978 VH₁₀ 2000 03 12.7 11 32.48 +08 02.9 18.8 -0.79 + 5.1 1.5/11.1 39511
 1998 SR₆₂ 2000 03 12.7 11 32.49 +05 47.9 18.9 -0.96 + 5.7 0.9/11.9 39540
 (13764) 2000 03 12.7 11 32.57 +10 30.2 17.2 -1.00 + 6.0 3.0/10.4 38390
 1998 OH₁₀ 2000 03 12.8 11 32.58 +06 37.8 17.5 -0.95 + 8.7 1.4/11.6 39198
 6110 P-L 2000 03 12.8 11 32.60 +02 28.9 19.3 -1.04 + 4.5 0.2/13.0 39647
 2233 T-2 2000 03 12.8 11 32.81 +04 48.1 18.5 -0.78 + 5.7 0.5/12.2 39502
 2000 DM₇₄ 2000 03 12.8 11 32.82 -00 08.3 17.7 -0.96 + 4.7 1.3/13.8 39465
 1996 AA₆ 2000 03 12.8 11 32.82 +04 06.7 19.9 -0.99 + 5.5 0.4/12.5 32673
 1998 QE₂₉ 2000 03 12.8 11 32.85 -13 56.3 18.0 -0.89 + 3.7 4.9/18.2 39202
 (13714) 2000 03 12.8 11 32.92 -05 34.6 16.8 -0.97 + 6.9 3.5/16.0 38375
 2000 AJ₁₃₇ 2000 03 12.8 11 32.99 -00 55.0 16.4 -1.09 - 2.2 1.8/13.8 39578
 2000 CS₈₉ 2000 03 12.8 11 33.01 +11 58.6 17.6 -0.99 + 7.7 4.0/09.9 39599
 1996 RR₅ 2000 03 12.9 11 33.07 -28 19.5 19.1 -0.75 + 3.5 6.6/23.9 33696
 1996 AL₁₉ 2000 03 12.9 11 33.14 -01 51.4 18.2 -0.86 + 8.4 1.8/14.6 38768
 1972 TE 2000 03 12.9 11 33.17 -01 56.6 18.2 -0.82 + 6.0 1.4/14.6 39510
 1996 JE 2000 03 12.9 11 33.18 +29 42.7 17.9 -1.00 + 2.4 9.5/04.0 39526
 1998 YE₁₀ 2000 03 12.9 11 33.29 +29 14.1 17.3 -0.89 + 5.7 7.3/03.2 39549
 (14149) 2000 03 12.9 11 33.33 -03 57.6 16.8 -1.03 + 3.7 2.7/15.0 39094
 1998 UB₁₇ 2000 03 12.9 11 33.34 +39 10.4 18.4 -1.10 + 6.0 10.7/28.0 39544
 2000 DW₁₀₆ 2000 03 12.9 11 33.36 +13 09.6 17.3 -0.85 + 2.7 2.9/09.9 39480
 1993 TO₁₅ 2000 03 13.0 11 33.34 +01 28.8 18.2 -0.81 + 5.9 0.4/13.5 39520
 2000 DX₇₄ 2000 03 13.0 11 33.58 -00 52.9 17.7 -0.93 + 4.2 1.3/14.2 39466
 1998 RA₅₇ 2000 03 13.0 11 33.62 +01 03.6 17.8 -0.98 + 6.8 0.7/13.6 39536
 (14285) 2000 03 13.1 11 33.76 +01 45.8 17.6 -0.92 + 6.9 0.4/13.5 39132
 (9996) 2000 03 13.1 11 33.85 -03 54.8 17.8 -0.77 + 6.3 1.8/15.4 33670
 2000 DU₇₄ 2000 03 13.1 11 33.85 -00 45.2 18.0 -0.84 + 5.9 1.1/14.3 39466
 1994 AN₁₅ 2000 03 13.1 11 33.90 -06 17.6 18.4 -0.79 + 3.7 2.4/16.1 39521
 2000 AO₁₃₇ 2000 03 13.1 11 33.91 +05 22.2 16.6 -1.10 + 0.6 1.0/12.5 39578
 2000 DY₇₄ 2000 03 13.1 11 33.96 -01 05.7 16.7 -0.91 + 6.0 1.6/14.4 39466
 (9791) 2000 03 13.2 11 34.09 +16 46.9 16.8 -0.95 + 7.7 5.2/08.4 33209
 1998 RM₃ 2000 03 13.2 11 34.10 -00 06.9 16.9 -1.35 - 1.3 1.1/13.9 39215
 1996 BL₃ 2000 03 13.2 11 34.10 +05 42.5 16.9 -0.82 + 8.7 1.2/12.2 39169
 (13693) 2000 03 13.2 11 34.15 +00 14.8 17.3 -0.89 + 6.0 0.9/14.0 38369
 1998 WW₃₀ 2000 03 13.2 11 34.16 +09 31.7 20.7 -0.81 + 6.8 1.9/11.0 34311
 (9787) 2000 03 13.2 11 34.18 +05 22.8 17.0 -0.83 + 5.2 0.9/12.4 33208
 1998 UH₈ 2000 03 13.2 11 34.19 +17 32.0 19.4 -1.02 + 4.2 4.6/08.7 34594

1998 RU ₆₉	2000 03 13.2	11 34.28 +04 09.9 17.1	-0.90 + 8.0	0.6/12.8	39225
(12987)	2000 03 13.2	11 34.30 -07 00.0 16.6	-0.97 + 3.9	3.7/16.2	37483
1998 TH ₉	2000 03 13.2	11 34.36 +01 08.4 18.9	-0.93 + 6.5	0.6/13.8	39543
(13054)	2000 03 13.2	11 34.41 -05 13.9 16.3	-1.01 + 3.6	3.2/15.6	37501
1996 GV ₂	2000 03 13.2	11 34.46 +24 55.9 17.8	-0.88 + 5.8	6.6/05.4	39526
1993 QN	2000 03 13.3	11 34.44 -35 17.8 18.9	-1.14 - 0.5	9.9/24.7	34010
1034 T-1	2000 03 13.3	11 34.52 -01 03.6 17.0	-0.94 + 8.6	1.6/14.6	39647
(13255)	2000 03 13.3	11 34.67 +11 34.5 15.9	-0.90 + 8.6	3.7/10.4	37555
(13019)	2000 03 13.3	11 34.71 -15 00.0 17.1	-0.97 + 2.2	5.8/18.5	37492
2000 EH ₁₇	2000 03 13.3	11 34.75 -00 04.0 18.4	-0.84 + 8.1	1.1/14.3	39485
2000 CB ₇₇	2000 03 13.3	11 34.78 +02 16.0 16.4	-0.93 + 4.4	0.2/13.5	39596
2000 DX ₇₈	2000 03 13.3	11 34.80 +00 22.7 18.2	-0.91 + 6.1	0.8/14.1	39469
2208 P-L	2000 03 13.4	11 34.85 -03 30.5 18.7	-0.88 + 7.1	2.2/16.0	38906
2107 P-L	2000 03 13.4	11 34.88 -06 31.1 17.8	-0.96 + 6.6	3.9/16.0	39494
1993 FT ₅₆	2000 03 13.4	11 35.03 +09 48.6 17.2	-0.91 + 8.2	2.9/11.0	39519
2000 CG ₇₇	2000 03 13.4	11 35.13 +02 56.4 17.1	-0.84 + 4.6	0.1/13.4	39412
1998 XX ₄₆	2000 03 13.4	11 35.14 -18 08.0 16.3	-0.95 + 2.8	7.2/19.7	39548
2000 DX ₁₇	2000 03 13.4	11 35.15 -12 53.0 16.8	-0.93 0.0	4.5/17.8	39445
2000 DV ₇₄	2000 03 13.4	11 35.18 +00 11.3 16.4	-0.75 +11.5	0.8/14.4	39466
(13802)	2000 03 13.5	11 35.19 +16 32.0 16.6	-1.07 + 5.2	5.4/09.2	38400
1998 SR ₁₄₄	2000 03 13.5	11 35.26 -02 17.3 16.4	-0.85 + 9.8	2.1/15.3	39256
2000 AW ₁₄₄	2000 03 13.5	11 35.53 +03 24.8 16.3	-0.70 + 5.5	0.3/13.3	39349
2000 CB ₈₉	2000 03 13.5	11 35.56 +13 49.9 17.6	-0.85 + 6.6	3.1/09.8	39426
1997 WV ₁₃	2000 03 13.6	11 35.49 +02 41.4 17.0	-0.79 + 3.5	0.0/13.6	39530
1991 RQ ₁₄	2000 03 13.6	11 35.49 +05 18.0 18.9	-0.72 + 4.5	0.7/12.7	39516
2000 DR ₇₄	2000 03 13.6	11 35.72 +00 04.9 17.8	-0.83 + 5.2	0.8/14.5	39466
(13495)	2000 03 13.6	11 35.80 +06 20.2 17.6	-1.00 + 7.1	1.4/12.5	38314
1999 AJ ₂₄	2000 03 13.6	11 35.89 -14 06.2 18.6	-0.80 + 2.7	4.3/18.9	39549
1998 SM ₆₄	2000 03 13.7	11 35.96 -06 10.8 16.9	-0.66 +13.5	2.9/17.3	39540
1996 HJ ₂₀	2000 03 13.7	11 36.21 +05 19.5 18.6	-0.82 + 5.3	0.8/12.9	27720
(13999)	2000 03 13.7	11 36.22 +03 19.7 17.0	-0.99 + 6.3	0.3/13.5	39050
1991 LF ₂	2000 03 13.7	11 36.26 +01 54.1 16.9	-0.78 + 5.6	0.2/14.0	39516
2000 DY ₁₀₆	2000 03 13.8	11 36.24 +13 36.0 17.9	-1.01 + 5.1	3.9/10.4	39480
1985 QP	2000 03 13.8	11 36.29 +02 59.7 18.1	-1.04 + 5.5	0.2/13.7	39513
1991 RY ₂₉	2000 03 13.8	11 36.43 -08 14.9 17.9	-1.00 + 5.6	4.1/17.2	39516
1998 VQ ₃₈	2000 03 13.8	11 36.63 -11 35.3 16.6	-0.84 + 6.5	5.3/18.7	39546
1998 VL ₁₇	2000 03 13.9	11 36.63 +07 00.3 20.3	-0.95 + 5.4	1.5/12.5	34595
1998 VK	2000 03 13.9	11 36.67 -11 57.3 18.2	-1.00 + 3.0	4.8/18.2	39272
2000 DT ₁₀₆	2000 03 13.9	11 36.67 +13 11.6 17.6	-0.67 + 6.4	2.7/10.1	39480
1998 SY ₁₂₂	2000 03 13.9	11 36.74 +06 51.1 18.6	-1.03 + 3.8	1.6/12.7	39541
(14201)	2000 03 13.9	11 36.84 -14 52.6 16.7	-0.84 + 6.4	5.7/19.8	39109
1998 XK ₆₃	2000 03 13.9	11 36.93 -08 47.5 18.5	-1.03 + 4.9	3.9/17.4	39548
2000 AL ₁₃₇	2000 03 13.9	11 37.01 +06 35.1 16.6	-0.81 + 3.5	1.3/12.7	39578
(14187)	2000 03 14.0	11 36.96 +01 11.8 16.8	-0.96 + 7.2	0.5/14.4	39105
2568 P-L	2000 03 14.0	11 37.23 +03 40.9 18.7	-0.84 + 4.4	0.4/13.7	39646
1996 GP ₉	2000 03 14.0	11 37.31 +01 37.4 19.0	-0.83 + 6.5	0.3/14.4	39526
1994 PG ₁₁	2000 03 14.0	11 37.31 +02 33.2 18.7	-0.92 + 6.3	0.0/14.0	39521
1998 SC ₁₀₃	2000 03 14.0	11 37.34 +06 49.4 18.0	-1.01 + 5.0	1.8/12.8	39540
2000 EQ	2000 03 14.0	11 37.34 +06 22.1 18.7	-0.98 + 4.4	1.6/12.9	39482
1998 RX ₇₉	2000 03 14.0	11 37.38 -00 56.8 16.9	-0.98 + 3.3	1.2/15.1	39538
1993 FT ₂₁	2000 03 14.1	11 37.32 +00 49.6 18.5	-0.93 + 7.4	0.7/14.6	36332

(13538)	2000 03 14.1	11 37.38 +14 47.2 16.7	-1.05 + 6.6	4.5/10.1	38326
2000 AX ₂₄₃	2000 03 14.1	11 37.47 +15 41.1 16.6	-0.86 + 6.7	5.0/09.5	39361
2000 EX ₁₆	2000 03 14.1	11 37.48 +00 24.0 17.2	-0.84 + 2.4	0.7/14.7	39484
1998 QB ₉₃	2000 03 14.1	11 37.54 +07 42.2 18.5	-0.87 + 5.9	1.6/12.4	34020
1998 SW ₁₆₁	2000 03 14.2	11 37.76 +07 34.0 20.7	-0.96 + 6.1	1.7/12.6	33300
2000 DD ₇₅	2000 03 14.2	11 37.99 -01 11.4 17.6	-0.87 + 5.1	1.2/15.4	39467
1981 EK ₁	2000 03 14.2	11 38.01 +01 47.6 16.7	-1.06 + 1.7	0.2/14.4	39511
1998 XF ₈₃	2000 03 14.2	11 38.05 +03 24.9 17.8	-0.70 + 7.9	0.3/13.9	39549
(13640)	2000 03 14.2	11 38.07 +21 20.1 16.5	-1.05 + 0.6	7.4/08.9	38353
(9917)	2000 03 14.3	11 38.07 +04 14.5 16.6	-0.89 + 8.2	0.6/13.7	33652
(14177)	2000 03 14.3	11 38.07 -12 34.8 17.1	-0.83 + 5.2	4.7/19.4	39102
1997 GV ₇	2000 03 14.3	11 38.13 +14 40.3 18.8	-1.04 + 4.4	4.3/10.6	39527
1997 JD ₁₂	2000 03 14.3	11 38.17 -05 39.6 18.4	-0.93 + 7.7	2.8/17.0	39528
1998 SY ₇₂	2000 03 14.3	11 38.23 +01 49.0 16.4	-0.88 +10.1	0.2/14.5	39540
1997 LB ₄	2000 03 14.3	11 38.32 +00 48.3 18.9	-0.88 + 5.4	0.5/14.8	39528
(9948)	2000 03 14.3	11 38.40 +02 28.3 18.0	-0.92 + 6.7	0.0/14.3	33659
1998 UB ₇	2000 03 14.4	11 38.46 +15 08.5 18.5	-0.97 + 5.6	4.0/10.3	33761
2000 DB ₇₅	2000 03 14.4	11 38.55 +00 06.1 18.4	-0.79 + 6.7	0.8/15.2	39467
1998 XJ ₆₄	2000 03 14.4	11 38.64 +12 57.9 18.6	-1.01 + 5.9	3.5/11.1	39289
2000 CG ₁₀₃	2000 03 14.4	11 38.70 +07 21.8 17.4	-0.91 + 4.6	1.9/12.9	39435
1998 SY ₁₀₆	2000 03 14.4	11 38.71 +05 51.5 17.5	-1.03 + 3.2	1.4/13.5	39250
1985 SG ₃	2000 03 14.4	11 38.71 -11 32.1 17.6	-0.70 + 5.4	3.3/19.2	39513
2000 EJ ₁₇	2000 03 14.4	11 38.73 -01 20.1 18.2	-0.94 + 5.8	1.5/15.6	39485
1994 VE ₄	2000 03 14.4	11 38.79 -08 30.6 19.0	-0.87 + 6.9	3.7/18.1	35692
(10238)	2000 03 14.4	11 38.83 -02 27.8 18.0	-1.00 + 7.4	1.7/16.0	33915
2000 AG ₁₃₇	2000 03 14.5	11 38.81 +04 41.4 17.1	-1.07 + 5.1	1.1/13.8	39348
1998 RQ ₄₈	2000 03 14.5	11 39.00 +00 22.6 19.8	-0.92 + 5.5	0.6/15.1	39219
(14133)	2000 03 14.5	11 39.05 +00 43.0 16.8	-0.85 +11.3	0.6/15.1	39089
2000 DZ ₇₈	2000 03 14.6	11 39.18 -00 25.0 18.4	-0.92 + 7.8	0.9/15.5	39470
(13886)	2000 03 14.6	11 39.19 +05 06.0 17.9	-0.82 + 4.6	0.9/13.7	38424
(13903)	2000 03 14.6	11 39.20 -01 45.5 17.6	-0.81 + 9.1	1.3/16.0	39024
(14306)	2000 03 14.6	11 39.31 +18 17.5 17.0	-0.96 + 3.3	6.3/09.6	39138
2000 CB ₉₄	2000 03 14.6	11 39.43 +00 26.5 18.1	-1.01 + 2.0	0.6/15.2	39600
1998 RL ₇₂	2000 03 14.6	11 39.54 +05 27.1 18.1	-1.02 + 4.1	1.3/13.7	39226
1998 YS ₈	2000 03 14.7	11 39.56 +08 21.2 18.3	-0.78 +10.0	2.0/12.5	39549
(14017)	2000 03 14.7	11 39.70 -03 52.7 17.0	-0.99 + 9.3	2.5/16.0	39055
1994 RO	2000 03 14.7	11 39.73 +00 28.2 20.4	-0.92 + 6.2	0.6/15.3	39522
1998 ST ₅₃	2000 03 14.7	11 39.76 -02 01.6 18.5	-0.98 + 4.0	1.4/16.0	39539
1988 RA ₁₃	2000 03 14.7	11 39.79 -00 47.3 16.9	-0.97 + 8.7	1.2/15.7	39513
(13352)	2000 03 14.7	11 39.80 +26 10.2 16.3	-1.03 + 1.4	9.4/07.3	37582
1998 WO ₃	2000 03 14.7	11 39.83 -11 33.8 16.7	-0.77 + 4.3	4.0/19.3	39278
1998 SC ₁₂₂	2000 03 14.8	11 39.88 +01 42.0 17.7	-0.95 + 4.4	0.2/14.9	39541
1998 SS ₁₅₆	2000 03 14.8	11 39.88 -01 16.9 18.4	-1.05 + 6.4	1.4/15.9	39542
2000 DB ₁₀₇	2000 03 14.8	11 39.91 +12 37.7 18.1	-0.97 + 2.7	3.7/11.7	39480
2000 DG ₇₅	2000 03 14.8	11 40.02 -00 16.7 17.0	-0.95 + 5.4	1.0/15.6	39467
1504 T-2	2000 03 14.8	11 40.03 +00 37.5 19.8	-0.79 + 5.4	0.5/15.3	39501
(9877)	2000 03 14.8	11 40.04 +11 40.1 17.8	-0.86 + 4.2	2.6/11.8	33463
1993 QA ₁	2000 03 14.8	11 40.09 +14 42.4 18.4	-0.81 + 6.7	3.5/10.5	39520
(14299)	2000 03 14.8	11 40.09 +04 09.2 16.7	-0.80 + 9.4	0.6/14.1	39136
(13791)	2000 03 14.8	11 40.16 -00 43.4 15.9	-0.91 + 5.6	1.3/15.8	38397
1998 VN ₂₉	2000 03 14.8	11 40.16 -14 49.6 18.4	-0.86 + 6.6	5.8/20.7	35724

2000 MAR. 20

M.P.C. 39683

1991 VH₉ 2000 03 14.8 11 40.17 -00 32.5 17.6 -0.95 + 8.4 1.1/15.7 39149
 1979 MY₆ 2000 03 14.8 11 40.18 +02 34.3 19.7 -0.93 + 7.1 0.1/14.7 30779
 1998 UC₂₃ 2000 03 14.8 11 40.21 -06 59.3 17.6 -0.96 + 5.3 3.1/17.7 39544
 (14054) 2000 03 14.8 11 40.27 +10 01.7 18.3 -0.93 + 5.7 3.3/12.4 39065
 2000 AU₁₃₇ 2000 03 14.8 11 40.33 -03 11.6 16.9 -1.04 0.0 2.1/16.3 39348
 (13221) 2000 03 14.9 11 40.30 -06 54.6 17.0 -0.93 + 2.9 3.3/17.6 37545
 2000 DO₁₅ 2000 03 14.9 11 40.33 +10 00.8 18.0 -0.82 + 7.7 3.0/12.2 39444
 1998 TQ₆ 2000 03 14.9 11 40.38 +13 33.7 17.5 -0.93 + 7.1 3.8/11.1 39543
 2000 CC₇₇ 2000 03 14.9 11 40.40 +05 19.6 17.5 -0.70 + 8.1 1.0/13.8 39412
 (13927) 2000 03 14.9 11 40.46 +04 53.6 17.5 -1.06 + 3.4 1.0/14.2 39031
 2039 P-L 2000 03 14.9 11 40.47 -02 39.2 20.2 -0.86 + 6.7 1.4/16.5 34616
 (14295) 2000 03 14.9 11 40.48 -01 07.7 16.9 -0.79 + 9.7 1.0/16.0 39135
 (14197) 2000 03 14.9 11 40.60 +03 09.9 17.9 -0.76 + 4.7 0.3/14.6 39107
 1981 EB₂₃ 2000 03 14.9 11 40.63 +04 22.4 17.9 -0.92 + 5.3 0.7/14.3 39511
 (14011) 2000 03 14.9 11 40.69 +02 30.6 18.2 -0.82 + 5.9 0.1/14.9 39053
 (14083) 2000 03 14.9 11 40.70 +11 11.5 18.2 -1.02 + 4.6 2.9/12.2 39074
 1998 WK₄ 2000 03 15.0 11 40.61 +06 33.7 20.0 -0.83 + 5.2 1.3/13.6 39278
 (14050) 2000 03 15.0 11 40.71 -04 01.5 17.5 -0.98 + 5.9 2.2/16.9 39064
 (13505) 2000 03 15.0 11 40.72 +16 59.2 17.0 -0.76 + 6.0 4.3/09.8 38317
 1993 FT₁₉ 2000 03 15.0 11 40.73 +13 10.5 17.8 -1.00 + 4.8 3.6/11.6 39519
 1998 UB 2000 03 15.0 11 40.78 -31 53.9 19.2 -0.96 + 8.3 11.1/28.9 33571
 1994 UF 2000 03 15.0 11 40.87 -03 24.7 19.2 -0.84 + 8.6 1.6/17.0 39522
 1998 WU₃ 2000 03 15.0 11 40.91 +12 20.7 17.9 -0.95 + 4.8 3.3/11.9 39547
 (14019) 2000 03 15.1 11 41.07 +03 28.0 17.3 -0.97 + 6.8 0.6/14.7 39056
 1997 GZ₁₆ 2000 03 15.1 11 41.23 -04 25.9 18.2 -0.96 + 8.7 2.3/17.3 39527
 2000 DB₇ 2000 03 15.1 11 41.34 +02 26.5 18.6 -0.75 + 4.0 0.1/15.0 39440
 1998 SP₁₂ 2000 03 15.1 11 41.46 -39 00.4 19.0 -1.24 + 0.7 13.6/29.8 35716
 1994 UC₈ 2000 03 15.2 11 41.37 +05 48.0 17.4 -1.10 + 4.0 1.5/14.1 39162
 1998 VW₄ 2000 03 15.2 11 41.46 +01 33.4 18.4 -0.80 + 3.2 0.1/15.4 39273
 (10004) 2000 03 15.2 11 41.48 +21 52.2 18.2 -0.83 + 2.6 4.9/08.7 33859
 1998 RC₅ 2000 03 15.2 11 41.52 +01 11.6 17.4 -0.99 + 3.8 0.3/15.5 39536
 (14174) 2000 03 15.2 11 41.55 -00 31.1 17.4 -0.84 + 4.8 0.9/16.1 39101
 1998 YC₁ 2000 03 15.2 11 41.60 -00 15.9 17.2 -0.71 + 5.9 0.7/16.0 39549
 1996 GN₁₅ 2000 03 15.2 11 41.71 +05 05.7 20.8 -0.86 + 5.2 0.9/14.3 38454
 2000 EE₁₈ 2000 03 15.3 11 41.75 +20 51.8 17.4 -1.03 + 1.0 7.3/09.8 39486
 (13626) 2000 03 15.3 11 41.76 +07 40.6 18.0 -1.08 + 4.9 2.1/13.6 38350
 1997 SH₃ 2000 03 15.3 11 41.79 -00 01.5 18.9 -0.81 + 2.7 0.5/15.9 39183
 1997 RL₇ 2000 03 15.3 11 41.85 +03 29.2 18.1 -1.04 + 2.2 0.5/14.9 39529
 1998 TD₃₃ 2000 03 15.3 11 41.87 +00 13.8 18.8 -0.99 + 7.4 0.6/15.9 39543
 1997 SJ₂₉ 2000 03 15.3 11 41.94 -12 28.7 17.7 -0.83 + 3.7 4.5/20.0 39530
 2000 AQ₂₃₇ 2000 03 15.3 11 41.96 +01 09.0 15.9 -0.89 + 7.1 0.3/15.6 39359
 1998 RF₆₀ 2000 03 15.3 11 42.09 -01 32.4 18.7 -0.92 + 4.9 1.2/16.5 39537
 1998 YV₁₁ 2000 03 15.3 11 42.18 +18 13.9 17.2 -1.10 + 6.9 5.9/09.9 39549
 1997 SR₄ 2000 03 15.4 11 42.11 -05 25.8 21.2 -0.90 + 3.2 2.0/17.6 36802
 2234 P-L 2000 03 15.4 11 42.26 +03 55.6 20.5 -1.06 + 3.9 0.7/14.9 36119
 1997 TB₁₈ 2000 03 15.4 11 42.27 +03 31.6 17.0 -0.87 + 2.7 0.5/15.0 39185
 2000 CE₉₇ 2000 03 15.4 11 42.27 +01 36.8 17.3 -0.97 + 4.3 0.1/15.5 39432
 (9783) 2000 03 15.4 11 42.32 -01 17.4 17.5 -0.85 + 5.3 1.0/16.5 33207
 2650 P-L 2000 03 15.4 11 42.34 +02 22.3 20.1 -0.96 + 6.9 0.2/15.3 39647
 1981 UU₂₉ 2000 03 15.4 11 42.37 -00 10.7 19.1 -0.97 + 6.4 0.7/16.1 39512
 1998 XP₉ 2000 03 15.4 11 42.37 +20 41.8 18.0 -0.84 + 3.6 5.9/09.2 39286

(14138) 2000 03 15.4 11 42.47 +06 36.2 18.3 -0.93 + 6.4 1.6/14.0 39090
 (14158) 2000 03 15.5 11 42.54 -02 20.2 17.3 -0.87 + 8.0 1.5/17.0 39096
 1998 TA₆ 2000 03 15.5 11 42.54 -01 23.7 16.2 -0.73 +11.3 1.2/16.8 39543
 1998 SH₇₂ 2000 03 15.5 11 42.57 +05 49.8 18.8 -0.95 + 5.4 1.3/14.3 34304
 (13532) 2000 03 15.5 11 42.61 +03 28.0 17.7 -1.01 + 5.0 0.6/15.1 38325
 1993 FX₁₆ 2000 03 15.5 11 42.71 +03 38.2 18.5 -0.90 + 8.9 0.6/15.0 39519
 1998 QE₁₀₁ 2000 03 15.5 11 42.74 -06 43.1 19.0 -1.24 - 0.7 2.8/17.6 35713
 1998 VQ₃₁ 2000 03 15.5 11 42.75 -16 40.2 17.6 -0.83 + 6.2 5.6/22.1 39546
 1998 RZ₅₇ 2000 03 15.6 11 42.82 +03 30.2 16.4 -1.07 + 2.7 0.7/15.1 39536
 2000 AT₁₆₂ 2000 03 15.6 11 42.86 +08 45.1 17.4 -0.76 + 8.4 2.4/13.1 39580
 (14305) 2000 03 15.6 11 42.88 +03 20.7 17.6 -0.92 + 5.0 0.5/15.2 39137
 1997 QY 2000 03 15.6 11 42.97 -00 11.1 18.2 -0.81 + 8.0 0.6/16.3 39182
 (11391) 2000 03 15.6 11 43.01 +02 11.6 17.8 -0.97 + 5.4 0.1/15.5 35588
 2000 AR₁₃₇ 2000 03 15.6 11 43.04 +13 05.2 16.6 -1.04 + 5.9 4.5/12.2 39578
 2000 CH₉₇ 2000 03 15.6 11 43.05 +03 45.1 17.6 -0.71 + 9.3 0.6/14.9 39432
 1998 RK₇₁ 2000 03 15.6 11 43.07 +08 55.5 17.3 -1.08 + 3.3 3.1/13.6 39537
 2000 AV₁₃₇ 2000 03 15.6 11 43.16 -04 34.7 16.2 -1.18 - 3.0 2.8/17.1 39578
 1981 EF₃₂ 2000 03 15.7 11 43.19 -12 05.8 19.2 -0.95 + 4.4 5.2/20.0 26921
 2000 DS₁₅ 2000 03 15.7 11 43.20 +12 00.5 17.8 -0.87 + 5.1 3.3/12.4 39444
 2000 AK₁₃₇ 2000 03 15.7 11 43.26 +18 24.6 16.6 -0.74 +11.2 6.0/09.3 39578
 1978 UX₇ 2000 03 15.7 11 43.27 -00 57.9 18.0 -0.90 + 6.2 1.0/16.6 39511
 (13923) 2000 03 15.7 11 43.29 +25 24.7 17.1 -0.97 + 2.8 7.2/08.3 39030
 (13762) 2000 03 15.7 11 43.33 +06 44.1 17.6 -1.06 + 3.9 1.7/14.3 38389
 1998 QP₉₀ 2000 03 15.7 11 43.33 +07 22.4 18.2 -1.14 + 3.4 2.1/14.2 39535
 1995 HH₃ 2000 03 15.7 11 43.35 +08 08.8 20.3 -0.77 + 5.2 1.9/13.6 30875
 1996 GE₂₀ 2000 03 15.7 11 43.37 +09 15.0 17.3 -0.86 + 5.0 2.4/13.3 39526
 (14053) 2000 03 15.7 11 43.60 +10 59.5 19.1 -1.00 + 4.4 3.7/13.0 39065
 1993 SA₁₄ 2000 03 15.7 11 43.62 +05 41.9 16.8 -1.65 - 4.6 1.9/15.1 39158
 2000 CB₉₃ 2000 03 15.8 11 43.56 +00 14.1 16.9 -0.93 + 0.9 0.5/16.2 39429
 1998 UW₁₆ 2000 03 15.8 11 43.57 -08 28.1 18.7 -0.80 +13.6 3.0/19.8 35722
 1998 QP₁₀₅ 2000 03 15.8 11 43.61 +10 26.1 17.2 -0.99 + 5.4 3.6/13.1 39535
 (14110) 2000 03 15.8 11 43.67 +07 34.9 18.0 -1.00 + 5.6 2.2/14.0 39082
 1998 QG₅₆ 2000 03 15.8 11 43.72 +03 20.5 18.1 -1.04 + 1.8 0.5/15.4 39208
 1998 WD₂₀ 2000 03 15.8 11 43.79 +04 11.4 17.2 -0.76 + 4.7 0.7/15.1 39548
 1997 QL 2000 03 15.8 11 43.80 -11 41.7 18.5 -0.88 + 3.8 4.5/20.1 39529
 2000 AP₁₃₇ 2000 03 15.8 11 43.89 +11 05.0 17.3 -0.83 + 5.2 3.0/12.8 39578
 (14186) 2000 03 15.8 11 43.95 +04 39.3 16.8 -0.75 + 4.9 0.9/14.9 39105
 1976 YN₇ 2000 03 15.8 11 43.95 +21 51.0 17.2 -0.85 + 5.6 5.7/08.9 39510
 2000 EQ₁₄ 2000 03 15.8 11 43.99 +02 27.6 17.5 -0.95 + 7.2 10.7/05.0 39484
 1991 RU₂ 2000 03 15.9 11 43.95 -07 23.6 16.8 -0.92 + 6.3 4.0/18.9 39516
 1996 PT₁ 2000 03 15.9 11 43.99 +08 37.0 19.2 -0.72 + 5.6 1.8/13.5 39526
 1998 SV₁₁₇ 2000 03 15.9 11 44.01 -00 12.1 18.2 -0.94 + 5.3 0.7/16.5 39251
 1998 QC₂₅ 2000 03 15.9 11 44.06 +05 39.7 17.5 -0.99 + 8.2 1.6/14.6 33081
 (13579) 2000 03 15.9 11 44.06 +14 12.7 17.3 -0.85 + 7.2 4.2/11.7 38337
 1998 VG₇ 2000 03 15.9 11 44.10 -00 34.7 18.9 -0.91 + 5.0 0.7/16.7 34028
 6184 P-L 2000 03 15.9 11 44.20 -03 19.0 18.9 -0.92 + 8.2 1.8/17.6 36121
 1991 XR 2000 03 15.9 11 44.33 -40 31.0 18.8 -1.20 + 2.1 14.3/01.9 35602
 2027 P-L 2000 03 16.0 11 44.33 -00 46.1 19.0 -0.92 + 5.9 0.8/16.8 39646
 1979 QX₂ 2000 03 16.0 11 44.33 -00 07.6 18.2 -1.00 + 5.1 0.7/16.6 39511
 1997 GD₃₈ 2000 03 16.0 11 44.40 +14 25.5 18.7 -1.03 + 4.8 4.5/12.1 39528
 (13980) 2000 03 16.0 11 44.51 -10 20.9 16.9 -0.81 + 7.7 4.0/20.2 39045

(13610)	2000 03 16.1	11 44.71 -00 42.2 17.0	-0.88 + 7.9	0.8/16.9	38345	1986 QM	2000 03 17.0	11 48.29 -01 48.0 17.6	-0.96 + 5.6	1.1/18.0	39513
1993 FL ₅₄	2000 03 16.1	11 44.85 +15 58.6 16.6	-1.54 - 2.4	6.3/12.9	39519	1997 TR ₁₈	2000 03 17.1	11 48.35 -04 39.6 16.5	-0.72 + 7.6	1.8/19.2	39530
1998 SA ₇₁	2000 03 16.1	11 44.86 -00 37.7 16.7	-0.78 +10.2	0.8/17.0	39245	(13900)	2000 03 17.1	11 48.35 -10 11.6 16.9	-0.78 + 6.9	3.5/21.2	38428
1990 RM ₉	2000 03 16.1	11 44.92 -06 23.9 18.6	-0.90 + 6.1	2.4/18.8	39515	(14307)	2000 03 17.1	11 48.49 +05 00.7 17.3	-0.86 +10.3	1.5/15.8	39138
1989 GH ₃	2000 03 16.1	11 45.05 -08 25.8 16.6	-0.81 + 9.2	4.2/19.8	39514	1998 TF	2000 03 17.1	11 48.51 +06 47.3 16.0	-0.96 + 1.6	2.2/15.6	39543
2000 AR ₂₀₃	2000 03 16.2	11 45.03 -16 15.8 16.4	-0.93 + 2.5	6.6/21.6	39354	(14039)	2000 03 17.1	11 48.54 -16 35.8 16.7	-0.69 + 7.0	5.2/23.7	39061
(13962)	2000 03 16.2	11 45.18 +02 40.8 18.1	-0.70 + 4.9	0.3/15.9	39040	1998 QH ₅₅	2000 03 17.1	11 48.60 -02 02.1 17.5	-1.07 + 3.8	1.3/18.1	39534
2000 AW ₂₄₃	2000 03 16.2	11 45.19 +20 13.6 17.0	-0.76 + 9.0	7.8/09.1	39583	1998 RP ₅₄	2000 03 17.1	11 48.66 -04 41.6 18.7	-0.98 + 6.8	2.1/19.1	39219
(13382)	2000 03 16.2	11 45.24 +00 04.0 17.0	-0.81 + 5.1	0.5/16.8	37591	1996 BC ₁	2000 03 17.2	11 48.71 -02 17.5 18.0	-0.98 + 5.4	1.2/18.3	39525
1998 RG ₃₇	2000 03 16.2	11 45.26 -05 40.9 18.5	-0.92 + 7.1	2.6/18.7	34591	(14059)	2000 03 17.2	11 48.96 -12 19.8 16.8	-1.08 + 1.4	5.8/21.1	39067
(9851)	2000 03 16.2	11 45.36 +11 40.7 17.1	-0.97 + 4.6	3.4/13.2	33457	1989 UM ₄	2000 03 17.3	11 49.37 -12 08.2 16.3	-0.80 + 7.9	4.0/22.1	39144
3511 T-3	2000 03 16.3	11 45.38 -01 10.4 19.9	-0.78 + 5.5	0.9/17.2	34276	(14146)	2000 03 17.4	11 49.42 +00 44.9 17.5	-0.99 + 5.4	0.2/17.5	39093
1991 RX ₄₀	2000 03 16.3	11 45.41 +03 23.8 19.4	-0.95 + 7.1	0.6/15.7	35063	(14034)	2000 03 17.4	11 49.54 +03 46.2 17.9	-0.85 + 4.7	0.8/16.6	39060
1994 TU ₂	2000 03 16.3	11 45.41 -00 30.2 19.2	-0.90 + 6.6	0.6/17.0	39522	1998 RP ₅₀	2000 03 17.4	11 49.64 +02 33.8 20.3	-1.05 + 5.8	0.5/17.0	33271
1978 US ₅	2000 03 16.3	11 45.65 +13 02.1 18.2	-0.97 + 2.4	3.3/12.9	39511	(13608)	2000 03 17.5	11 49.89 +12 28.8 16.7	-1.02 + 4.9	4.2/14.0	38345
1997 GO ₁₃	2000 03 16.3	11 45.71 +00 40.9 18.8	-1.04 + 6.6	0.3/16.6	39527	1998 XR ₇₇	2000 03 17.5	11 49.89 +11 06.5 19.1	-0.87 + 5.3	2.9/14.3	34312
1994 AQ ₅	2000 03 16.3	11 45.75 +02 02.9 18.5	-0.78 + 4.7	0.2/16.2	39160	1998 QO ₃₉	2000 03 17.5	11 50.10 +07 28.5 19.6	-0.96 + 6.6	2.1/15.5	35710
(13727)	2000 03 16.3	11 45.76 +11 44.2 16.3	-1.03 + 4.2	4.3/13.3	38379	(13929)	2000 03 17.5	11 50.20 -00 39.4 17.9	-0.99 + 7.2	0.6/18.1	39032
1991 RQ ₂	2000 03 16.3	11 45.82 -02 35.9 19.9	-0.93 + 7.7	1.4/17.8	34578	1998 UZ ₂₀	2000 03 17.6	11 50.24 +09 11.6 19.3	-1.00 + 4.7	2.8/15.1	39544
2000 DG ₁₀₇	2000 03 16.4	11 45.86 +13 35.2 17.5	-0.83 + 8.4	4.0/12.1	39480	1998 SE ₁₂₄	2000 03 17.6	11 50.30 +00 32.2 18.2	-0.86 + 9.0	0.2/17.8	39252
(13573)	2000 03 16.4	11 45.91 +12 40.0 16.9	-1.00 + 5.8	4.2/12.9	38336	1998 YA ₃	2000 03 17.6	11 50.38 +00 47.7 17.9	-0.81 + 5.8	0.1/17.7	39549
(13486)	2000 03 16.5	11 46.13 -09 04.0 16.7	-0.73 + 6.3	3.1/20.2	38312	(13801)	2000 03 17.6	11 50.49 +18 00.8 17.1	-0.82 + 6.1	6.0/11.7	38400
(13380)	2000 03 16.5	11 46.14 +01 51.6 16.1	-0.95 + 8.4	0.2/16.4	37590	2000 AS ₂₃₇	2000 03 17.7	11 50.49 -08 53.9 15.9	-0.91 + 0.8	3.7/20.5	39583
1997 SM ₃	2000 03 16.5	11 46.36 -13 46.2 16.2	-1.06 - 0.2	5.8/20.5	39529	2000 DY ₁₅	2000 03 17.7	11 50.54 +04 17.7 18.1	-0.75 + 4.5	0.9/16.6	39444
1998 SG ₄₆	2000 03 16.5	11 46.55 +03 00.0 18.4	-0.90 + 4.8	0.5/16.1	34303	1989 SS ₁	2000 03 17.7	11 50.63 +06 32.6 19.7	-0.90 + 5.5	1.7/16.0	39514
1998 QR ₉₃	2000 03 16.6	11 46.47 +22 23.9 17.4	-0.94 + 3.1	6.4/10.0	39535	1998 XR ₅₁	2000 03 17.7	11 50.76 +05 40.7 17.9	-0.81 + 3.0	1.3/16.3	39289
1998 UR ₁₉	2000 03 16.6	11 46.54 +20 17.4 18.9	-1.09 + 2.8	6.2/11.1	39544	(13922)	2000 03 17.7	11 50.83 -02 30.1 17.4	-0.89 + 4.7	1.1/18.9	39029
1990 UC ₁	2000 03 16.6	11 46.61 +05 44.1 17.3	-1.06 + 3.2	1.5/15.4	39515	(13954)	2000 03 17.7	11 50.85 -14 14.7 17.0	-0.80 +10.2	5.5/23.6	39038
1994 PW ₁₅	2000 03 16.6	11 46.64 +02 29.2 20.1	-0.89 + 7.0	0.3/16.3	33072	1998 SO ₂₅	2000 03 17.7	11 50.91 +09 15.9 19.5	-0.97 + 4.8	2.7/15.2	34592
4183 T-3	2000 03 16.6	11 46.65 -01 02.8 19.8	-0.89 +10.0	0.8/17.5	33130	2198 T-1	2000 03 17.7	11 50.92 +05 40.0 17.9	-0.75 + 4.7	1.4/16.2	39647
(10147)	2000 03 16.6	11 46.77 +05 03.5 17.4	-0.76 + 4.5	1.2/15.5	33893	1987 UT ₁	2000 03 17.8	11 50.88 -07 44.8 20.1	-0.98 + 5.2	2.7/20.5	30780
1998 TJ ₃₃	2000 03 16.6	11 46.84 +07 29.0 19.1	-0.96 + 5.7	2.0/14.8	34306	1981 EO ₃₆	2000 03 17.8	11 50.98 -10 26.8 19.9	-1.05 + 2.6	4.6/21.0	30780
1997 SC	2000 03 16.7	11 46.86 -08 40.9 20.3	-0.80 + 4.8	2.7/20.0	31011	1991 AE ₂	2000 03 17.8	11 51.15 +11 18.7 17.2	-0.81 + 9.7	3.4/14.1	39515
1977 ES ₇	2000 03 16.7	11 46.88 +01 38.6 16.5	-0.90 + 0.8	0.1/16.6	39139	(9964)	2000 03 17.8	11 51.19 +00 45.4 16.1	-1.01 + 3.4	0.1/17.9	33663
(13945)	2000 03 16.7	11 46.89 +00 26.8 16.7	-0.80 + 3.7	0.3/17.0	39036	(14022)	2000 03 17.8	11 51.20 +00 57.0 16.9	-1.01 + 4.9	0.0/17.9	39056
(13617)	2000 03 16.7	11 47.27 +02 56.2 16.7	-1.18 - 1.5	0.6/16.4	38348	1997 TF ₁₉	2000 03 17.8	11 51.24 +02 48.5 19.3	-0.72 + 4.4	0.4/17.3	39530
1998 SQ ₁	2000 03 16.8	11 47.20 +12 50.0 17.2	-0.91 + 4.6	4.7/13.2	39229	1981 EU ₂₅	2000 03 17.8	11 51.26 +01 50.9 17.9	-0.90 + 7.9	0.3/17.6	39512
(13808)	2000 03 16.8	11 47.28 -19 45.5 17.3	-0.78 + 2.9	5.5/23.8	38402	2000 CD ₉₃	2000 03 17.9	11 51.22 +10 05.9 17.8	-0.78 + 9.0	3.2/14.6	39430
(9864)	2000 03 16.8	11 47.31 -00 58.4 17.4	-0.74 + 4.8	0.6/17.6	33460	1998 SW ₅₅	2000 03 17.9	11 51.27 +00 10.5 17.5	-1.09 + 3.1	0.3/18.1	39539
1998 VU ₁₄	2000 03 16.8	11 47.60 -07 29.6 19.5	-0.92 + 6.8	3.0/19.8	34931	6605 P-L	2000 03 17.9	11 51.27 +03 39.5 18.9	-0.85 + 6.6	0.9/17.0	39647
1998 TC ₆	2000 03 16.8	11 47.63 +02 50.3 17.7	-0.90 + 7.2	0.6/16.4	39543	(13549)	2000 03 17.9	11 51.32 -00 54.2 17.1	-0.91 + 6.1	0.7/18.5	38329
(14052)	2000 03 16.8	11 47.64 +14 17.4 18.3	-0.96 + 7.1	4.3/12.6	39065	1997 SF	2000 03 18.0	11 51.78 +10 31.3 18.8	-0.75 + 4.7	2.6/14.8	39529
1998 SP ₁₀₉	2000 03 16.9	11 47.57 -08 19.0 18.5	-0.95 + 7.4	3.6/20.1	33758	1998 SK ₅₅	2000 03 18.0	11 51.79 +00 34.6 19.4	-0.91 + 6.8	0.1/18.1	34222
1998 RW ₇₀	2000 03 16.9	11 47.63 +06 56.8 17.8	-0.98 + 7.7	2.0/15.1	39537	1998 XC ₉₂	2000 03 18.0	11 51.82 -14 21.9 17.3	-0.76 + 4.9	4.4/23.3	39549
1997 TO ₂₄	2000 03 16.9	11 47.64 +08 15.6 18.9	-0.78 + 4.2	1.7/14.7	31013	1998 SU ₃₇	2000 03 18.0	11 51.86 -06 19.9 16.7	-0.86 + 8.9	2.9/20.6	39539
2000 AL ₁₆₄	2000 03 16.9	11 47.66 -09 45.3 16.3	-0.88 + 6.6	4.2/20.6	39352	1998 SW ₁₂₂	2000 03 18.0	11 51.91 -00 18.1 19.1	-0.93 + 6.0	0.4/18.4	39541
1998 XC ₅₁	2000 03 16.9	11 47.78 -14 51.9 17.4	-0.81 + 2.6	4.8/22.1	39548	2654 P-L	2000 03 18.0	11 51.91 +02 29.6 19.0	-0.77 + 5.4	0.5/17.5	39647
2000 CM ₉₇	2000 03 16.9	11 47.85 +01 43.9 17.9	-0.72 + 4.6	0.1/16.8	39432	1998 VV ₃₄	2000 03 18.0	11 51.95 -00 23.3 16.8	-1.07 + 4.0	0.5/18.4	39546
2000 CC ₉₄	2000 03 17.0	11 48.10 -00 17.4 17.4	-0.88 + 2.4	0.5/17.5	39430	(10173)	2000 03 18.0	11 51.97 -06 47.9 19.1	-0.71 + 6.5	2.2/20.8	33899
1997 VM ₂	2000 03 17.0	11 48.25 -01 25.3 17.4	-0.69 + 7.5	0.8/18.0	39530	2000 AN ₁₆₄	2000 03 18.0	11 52.04 -17 13.2 16.5	-1.05 + 0.6	6.9/23.2	39352
1998 QV ₅₅	2000 03 17.0	11 48.26 +00 31.5 18.2	-0.94 + 5.0	0.2/17.3	39208	(10278)	2000 03 18.1	11 51.99 +01 03.5 18.2	-1.01 + 7.0	0.1/18.1	34131

2000 MAR. 20

M.P.C. 39685

1998 RE₇₄ 2000 03 18.1 11 52.02 -04 31.1 18.6 -0.99 + 5.3 1.9/19.8 39537
 (10078) 2000 03 18.1 11 52.03 +01 42.0 16.9 -1.06 + 1.7 0.3/17.9 33876
 1991 TQ₁ 2000 03 18.1 11 52.20 +22 20.5 17.0 -1.31 - 0.9 7.5/12.9 39517
 (14124) 2000 03 18.1 11 52.38 +09 13.7 18.0 -1.00 + 2.6 2.7/15.8 39086
 2000 AV₂₀₃ 2000 03 18.2 11 52.58 -19 13.9 17.5 -0.98 + 1.8 7.2/24.2 39355
 2000 AK₁₆₄ 2000 03 18.2 11 52.61 -03 36.1 16.3 -0.74 +11.9 1.6/19.9 39351
 1989 CF₃ 2000 03 18.2 11 52.71 -10 31.9 17.7 -0.90 + 7.0 4.6/22.1 39514
 2000 DL₃ 2000 03 18.3 11 52.69 +01 24.1 16.8 -0.70 + 7.5 0.2/18.1 39438
 1998 QU₉₂ 2000 03 18.3 11 52.92 +11 56.8 17.7 -0.96 + 5.2 3.7/14.8 39535
 1998 WE₇ 2000 03 18.4 11 53.21 +28 26.1 17.1 -1.04 + 2.7 10.5/08.8 39547
 (9932) 2000 03 18.4 11 53.24 +00 48.7 16.7 -1.05 + 1.3 0.0/18.4 33655
 1998 WK 2000 03 18.4 11 53.24 -02 37.4 19.4 -0.85 + 5.8 1.1/19.5 39277
 (9977) 2000 03 18.4 11 53.24 +03 38.5 17.0 -0.77 + 5.6 0.9/17.5 33666
 (13941) 2000 03 18.4 11 53.27 +06 28.4 16.9 -0.89 + 5.4 2.0/16.6 39035
 1996 EC₁ 2000 03 18.4 11 53.32 +01 39.2 17.2 -0.91 + 5.0 0.3/18.2 39170
 1996 AA₁₄ 2000 03 18.4 11 53.36 +02 15.4 19.2 -0.99 + 4.1 0.5/18.0 35694
 1995 CW₁ 2000 03 18.4 11 53.37 -24 22.4 18.7 -0.78 + 8.4 7.0/28.2 30455
 1998 YU₂₇ 2000 03 18.4 11 53.39 -15 44.8 17.8 -0.87 + 4.0 4.5/23.7 39549
 1998 XU₂ 2000 03 18.4 11 53.42 -05 25.2 18.1 -0.93 + 2.8 1.8/20.3 39285
 (9894) 2000 03 18.4 11 53.49 +05 15.0 17.0 -0.98 + 4.9 1.6/17.1 33467
 1994 RK₁₁ 2000 03 18.5 11 53.40 -01 05.4 18.4 -0.92 + 5.8 0.6/19.1 39522
 1998 UO₂₄ 2000 03 18.5 11 53.47 -03 44.4 17.9 -0.80 + 7.4 1.4/20.1 39545
 1998 RB₇₅ 2000 03 18.5 11 53.68 +01 38.7 17.6 -1.07 + 3.6 0.4/18.3 39227
 5143 T-2 2000 03 18.6 11 53.77 -09 23.3 21.3 -1.00 + 4.5 3.4/21.6 26912
 1998 SU₆₅ 2000 03 18.6 11 53.83 +11 09.9 15.9 -0.94 + 5.6 5.0/15.2 39540
 (10753) 2000 03 18.6 11 53.86 -05 17.3 17.6 -0.84 + 5.2 2.0/20.6 34758
 1998 QA₅₂ 2000 03 18.6 11 54.22 -08 22.3 18.8 -1.06 + 5.5 3.4/21.4 33560
 (13026) 2000 03 18.7 11 54.37 -30 07.9 16.5 -1.57 - 5.4 13.6/26.2 37494
 1981 EG₂₂ 2000 03 18.7 11 54.47 -03 02.8 17.4 -1.11 - 1.2 1.7/19.7 39140
 1998 WS₇ 2000 03 18.7 11 54.51 +09 15.5 18.0 -1.01 + 2.1 2.9/16.3 39547
 (11305) 2000 03 18.8 11 54.51 +06 04.3 17.2 -0.98 + 5.6 2.0/17.1 35567
 (13649) 2000 03 18.8 11 54.67 +02 03.2 16.5 -0.76 + 4.5 0.5/18.4 38356
 2000 DC₁₆ 2000 03 18.8 11 54.69 +01 04.5 16.5 -0.97 + 1.5 0.2/18.7 39444
 1998 VK₅ 2000 03 18.9 11 55.17 -00 23.6 18.9 -0.89 + 4.7 0.3/19.3 33763
 1996 FM₂ 2000 03 18.9 11 55.21 +02 04.2 17.0 -0.82 + 7.7 0.6/18.4 39170
 1997 TD₁₉ 2000 03 18.9 11 55.25 +01 02.5 17.6 -0.76 + 5.6 0.2/18.8 33956
 1973 SX₂ 2000 03 19.0 11 55.23 -08 21.8 16.4 -0.79 + 9.6 2.8/22.2 39510
 1998 XF₂₃ 2000 03 19.0 11 55.27 -01 56.3 16.6 -0.90 + 5.4 1.1/19.8 39288
 1978 SH₃ 2000 03 19.0 11 55.37 -03 24.7 17.9 -0.96 + 7.5 1.4/20.3 39511
 4233 T-2 2000 03 19.0 11 55.43 +03 56.9 20.3 -0.85 + 6.6 1.1/17.9 27117
 1996 FJ₅ 2000 03 19.0 11 55.64 +07 50.3 16.3 -1.04 + 1.5 2.4/17.1 39525
 1993 FO₅₀ 2000 03 19.1 11 55.67 -00 43.3 18.2 -0.97 + 5.6 0.5/19.5 32931
 1997 MN₄ 2000 03 19.1 11 55.71 -07 17.3 18.7 -0.93 + 5.6 2.4/21.6 39528
 1997 NR₁₀ 2000 03 19.1 11 55.77 +03 49.7 20.1 -0.91 + 7.9 1.1/18.0 35700
 1998 QP₉₃ 2000 03 19.1 11 55.86 +11 33.5 17.4 -0.91 + 6.6 3.8/15.5 39535
 1998 SH₁₄₅ 2000 03 19.1 11 55.87 +02 56.9 19.6 -0.95 + 5.3 0.8/18.4 35720
 (14238) 2000 03 19.1 11 55.93 -06 23.6 15.1 -0.93 + 2.1 3.1/21.0 39119
 1992 ST₁₃ 2000 03 19.2 11 55.96 +03 31.5 17.5 -0.73 + 6.4 0.9/18.1 39518
 (10032) 2000 03 19.2 11 55.99 -01 32.9 18.7 -0.75 + 3.5 0.5/19.8 33865
 1998 RW₃₂ 2000 03 19.2 11 56.21 +00 37.0 19.0 -1.02 + 6.7 0.1/19.2 39536
 4071 T-2 2000 03 19.3 11 56.38 +06 07.3 18.2 -0.81 + 4.9 1.8/17.4 39503

2000 DC₃ 2000 03 19.3 11 56.56 +15 35.8 17.1 -0.79 + 3.0 4.1/14.4 39438
 (13173) 2000 03 19.3 11 56.57 +06 38.7 16.6 -0.88 + 6.6 2.7/17.3 37532
 1998 XM₃ 2000 03 19.3 11 56.65 +08 13.2 20.0 -0.89 + 4.3 2.1/16.9 35727
 1997 GY 2000 03 19.4 11 56.81 -01 54.9 17.7 -0.92 + 8.1 1.1/20.2 39527
 1998 SE₁₄₆ 2000 03 19.4 11 56.82 -04 40.6 17.2 -0.79 + 7.8 1.7/21.2 39257
 1997 US₁₀ 2000 03 19.4 11 57.08 -12 13.7 17.5 -0.76 + 6.9 3.9/23.9 39530
 (13919) 2000 03 19.5 11 57.09 -08 18.8 16.5 -0.99 + 5.5 3.1/22.2 39028
 1981 EY₂₂ 2000 03 19.5 11 57.20 +00 36.9 17.7 -0.97 + 8.6 0.1/19.4 39140
 2000 ER₅₆ 2000 03 19.5 11 57.20 +03 09.6 16.8 -0.86 + 7.1 1.2/18.6 39493
 1995 VR₁ 2000 03 19.5 11 57.23 +08 39.3 18.2 -1.01 + 7.1 3.0/16.9 39524
 1998 XS₃ 2000 03 19.6 11 57.45 +04 17.7 18.5 -0.78 + 4.3 1.2/18.3 39285
 1998 UE₂₁ 2000 03 19.6 11 57.50 -00 04.2 18.3 -0.96 + 6.3 0.1/19.7 35722
 1974 PC 2000 03 19.6 11 57.53 +22 22.8 19.2 -0.93 +10.1 6.6/11.3 39510
 1998 SU₂₆ 2000 03 19.6 11 57.54 -21 53.6 18.1 -0.87 + 1.8 6.3/26.7 33757
 1998 UN₁₆ 2000 03 19.6 11 57.59 +21 42.0 17.3 -0.91 + 1.4 7.1/13.1 35722
 2000 EP₅₆ 2000 03 19.6 11 57.83 +02 54.5 17.0 -0.74 + 5.4 0.8/18.8 39492
 2000 CL₉₄ 2000 03 19.7 11 57.80 +03 33.4 16.7 -0.97 + 8.5 1.3/18.6 39431
 2000 AT₂₃₇ 2000 03 19.7 11 57.89 +03 11.9 16.9 -0.69 + 8.4 0.9/18.6 39583
 2000 EQ₅₆ 2000 03 19.7 11 57.97 +03 17.8 18.1 -0.74 + 5.1 0.8/18.7 39492
 1998 XT₆₂ 2000 03 19.7 11 58.13 -14 18.6 16.6 -0.95 + 0.1 4.7/23.8 39548
 (10117) 2000 03 19.7 11 58.17 -02 15.6 18.1 -0.71 + 7.3 0.7/20.7 33885
 (9796) 2000 03 19.8 11 58.30 +13 43.6 16.5 -1.07 + 0.9 4.9/16.1 33210
 1998 QJ₄ 2000 03 19.8 11 58.44 +05 44.8 18.1 -0.99 + 5.5 2.0/18.1 39532
 2000 CF₉₄ 2000 03 19.8 11 58.45 -01 16.2 17.1 -0.87 + 2.4 0.5/20.3 39431
 1998 WK₃ 2000 03 19.8 11 58.46 -01 04.5 18.6 -0.83 + 5.4 0.4/20.3 39547
 1982 UU₈ 2000 03 19.8 11 58.48 -11 41.8 18.4 -0.89 + 6.2 3.6/23.8 33739
 1998 UP₂₄ 2000 03 19.8 11 58.56 +03 07.2 18.9 -0.90 + 6.7 1.0/18.9 39271
 3479 T-3 2000 03 19.9 11 58.66 -00 56.8 20.0 -0.84 + 6.5 0.3/20.3 36125
 1998 WA₂₀ 2000 03 19.9 11 58.76 +16 55.2 17.0 -0.76 + 5.6 5.1/14.0 39282
 1998 SH₁₁₇ 2000 03 19.9 11 58.89 -06 47.8 19.3 -0.86 + 6.7 2.1/22.3 35719
 1998 SR₂₁ 2000 03 19.9 11 58.93 -06 10.9 17.5 -0.87 + 8.4 2.4/22.2 39233
 (10169) 2000 03 20.0 11 59.05 +05 21.7 16.3 -0.71 + 9.0 1.8/18.1 33898
 1998 UT₂₂ 2000 03 20.0 11 59.13 +22 50.7 19.7 -0.96 + 3.7 7.2/12.7 35722
 3256 T-3 2000 03 20.0 11 59.15 +01 45.1 17.3 -0.76 + 5.5 0.5/19.5 39507
 1994 VP₁ 2000 03 20.0 11 59.21 -10 58.0 19.3 -0.87 + 6.2 3.6/23.8 33246
 2000 EB₃₄ 2000 03 20.0 11 59.25 +14 19.4 17.5 -0.95 + 6.1 5.2/15.4 39490
 1998 UO₄₀ 2000 03 20.0 11 59.28 -03 13.2 16.8 -1.03 + 3.0 1.4/21.0 39272
 (14298) 2000 03 20.1 11 59.28 -00 14.4 17.4 -0.95 + 4.1 0.1/20.2 39135
 1996 AQ₇ 2000 03 20.1 11 59.32 +01 05.6 18.2 -0.95 + 4.6 0.4/19.8 39168
 1991 RJ₄₁ 2000 03 20.1 11 59.37 +03 23.4 18.0 -1.06 + 3.7 1.2/19.2 39516
 1997 KJ₂ 2000 03 20.1 11 59.45 +09 53.3 18.9 -0.94 + 6.1 3.3/17.0 35700
 (13113) 2000 03 20.1 11 59.48 -00 40.4 17.5 -0.78 + 8.1 0.2/20.4 37517
 1994 VH₂ 2000 03 20.1 11 59.60 +23 30.0 17.4 -1.06 + 0.9 8.5/13.2 39522
 1998 ST₁₆₃ 2000 03 20.1 11 59.64 +08 29.0 20.8 -0.92 + 4.2 2.5/17.6 35720
 2000 AP₁₆₄ 2000 03 20.2 11 59.60 -15 47.5 15.4 -0.98 + 1.4 6.0/24.8 39580
 1998 VQ₁₃ 2000 03 20.2 11 59.61 -02 21.2 18.8 -0.88 + 5.3 0.8/21.0 39545
 (14302) 2000 03 20.2 11 59.66 -08 53.2 17.4 -1.03 + 4.3 3.2/22.8 39137
 1988 XW₄ 2000 03 20.2 11 59.81 -00 54.7 17.6 -0.78 + 5.6 0.3/20.6 39142
 2000 AL₉₈ 2000 03 20.2 11 59.96 +15 57.5 16.6 -0.89 + 7.0 6.3/14.8 39574
 1998 TO₅ 2000 03 20.3 11 59.97 -09 21.8 17.7 -0.81 + 8.6 3.0/23.7 39261
 1998 WD₄ 2000 03 20.3 12 00.24 +00 57.3 18.8 -0.91 + 6.7 0.3/20.0 39278

(9814)	2000 03 20.3	12 00.25 -04 52.7 19.2	-0.94 + 7.0	1.6/21.9	33214	1993 TS ₁₅	2000 03 21.3	12 03.75 +01 18.1 19.4	-0.80 + 5.8	0.5/20.8	30900
1998 SD ₄₆	2000 03 20.4	12 00.37 +00 06.1 17.9	-0.94 + 5.2	0.1/20.4	39238	(13670)	2000 03 21.3	12 03.88 +07 22.6 16.7	-0.97 + 5.8	3.5/18.9	38363
2000 AF ₁₃₇	2000 03 20.4	12 00.57 +16 13.7 15.9	-0.65 +13.5	6.6/13.6	39577	(14287)	2000 03 21.3	12 03.98 +01 36.0 16.5	-0.90 + 7.6	0.8/20.7	39133
1998 SB ₁₃₄	2000 03 20.4	12 00.62 -02 23.6 17.8	-0.90 + 8.8	0.9/21.3	39254	(9832)	2000 03 21.3	12 04.00 -12 15.6 18.8	-0.92 + 5.8	3.9/25.2	33453
1998 RP ₄₆	2000 03 20.4	12 00.71 -04 12.7 19.9	-0.94 + 6.9	1.4/21.8	34021	3178 T-3	2000 03 21.4	12 04.08 +00 31.3 19.0	-0.77 + 4.9	0.3/21.1	39649
1981 EL ₉	2000 03 20.5	12 00.72 -10 03.7 19.2	-0.79 + 1.9	2.5/23.6	26916	2000 DE ₃	2000 03 21.4	12 04.13 +12 58.6 16.3	-1.04 + 1.6	6.3/17.5	39602
1998 WC ₈	2000 03 20.5	12 00.75 +12 56.1 17.9	-0.83 + 5.7	3.7/16.2	39547	6608 P-L	2000 03 21.4	12 04.34 +01 42.3 19.5	-0.96 + 4.2	0.7/20.8	39647
1998 TH ₁₆	2000 03 20.5	12 00.77 +09 21.9 17.4	-0.96 + 6.3	3.5/17.5	39543	1998 SQ ₁₀₉	2000 03 21.5	12 04.41 -09 25.0 18.1	-0.89 + 6.6	3.0/24.5	34023
1998 UE ₄	2000 03 20.5	12 00.79 +12 27.5 18.4	-0.91 + 7.4	3.9/16.2	39544	(13915)	2000 03 21.5	12 04.42 +16 49.6 16.4	-0.88 + 4.5	5.7/15.6	39027
2000 EM ₆₂	2000 03 20.5	12 00.81 +02 07.5 17.7	-0.81 + 4.5	0.7/19.8	39493	2000 EF ₃₈	2000 03 21.5	12 04.49 -03 07.5 18.3	-0.94 + 5.5	1.0/22.4	39492
1994 WT ₃	2000 03 20.5	12 00.84 -09 03.1 19.5	-0.87 + 6.4	2.6/23.5	36071	1998 QL ₆	2000 03 21.5	12 04.58 -01 40.0 19.1	-0.84 + 6.6	0.4/21.9	35709
1998 SS ₁₃₂	2000 03 20.5	12 00.87 -01 41.1 17.5	-1.03 + 3.0	0.6/21.0	39542	3175 T-3	2000 03 21.5	12 04.62 +00 55.7 18.5	-0.79 + 4.5	0.4/21.1	39649
2000 AM ₁₈₅	2000 03 20.5	12 00.91 -13 36.4 16.8	-0.79 + 3.9	4.5/24.9	39580	1997 SQ ₉	2000 03 21.5	12 04.70 -02 19.4 18.6	-0.88 + 1.5	0.6/22.1	39529
1998 RA ₄₇	2000 03 20.5	12 00.95 -07 00.2 18.1	-0.89 +10.0	2.9/23.0	39536	1998 SZ ₂₁	2000 03 21.5	12 04.77 +00 49.7 17.7	-0.98 + 5.2	0.5/21.2	39538
1998 SV ₂₂	2000 03 20.5	12 00.96 -04 26.6 17.9	-0.88 + 8.1	1.5/22.0	39538	1998 RX ₆₄	2000 03 21.6	12 04.71 -01 04.3 18.1	-0.92 + 7.1	0.2/21.8	39537
2000 EP ₃₆	2000 03 20.6	12 01.06 +02 08.3 16.4	-0.76 + 4.6	0.7/19.9	39490	1997 RR ₉	2000 03 21.6	12 04.92 +01 57.2 18.5	-0.78 + 6.8	0.7/20.8	39183
1998 SK ₅₀	2000 03 20.6	12 01.25 +05 12.5 19.0	-0.92 + 4.9	1.7/19.0	34023	(14105)	2000 03 21.6	12 04.97 -07 05.8 17.3	-0.72 + 6.7	1.8/24.0	39081
2000 BY ₃	2000 03 20.6	12 01.34 +24 05.7 17.0	-0.96 + 2.4	9.9/12.7	39584	2000 BQ ₁₄	2000 03 21.6	12 05.02 +31 07.8 16.3	-0.87 + 0.7	12.0/10.9	39585
1992 RE ₂	2000 03 20.6	12 01.38 -00 34.7 17.6	-0.79 + 4.8	0.1/20.8	39518	1998 QD ₄₈	2000 03 21.6	12 05.09 -05 20.8 18.8	-0.96 + 7.4	1.7/23.3	39534
1985 QD ₆	2000 03 20.6	12 01.47 +06 36.5 19.5	-0.84 + 6.1	1.9/18.4	39513	2127 T-2	2000 03 21.6	12 05.10 -02 39.4 18.0	-0.90 + 5.1	0.8/22.4	39648
(10069)	2000 03 20.7	12 01.47 -14 04.3 16.5	-0.77 + 5.0	4.1/25.4	38016	1991 UP ₃	2000 03 21.7	12 05.33 +05 04.3 18.9	-0.96 + 6.0	2.0/20.0	32744
(13593)	2000 03 20.7	12 01.48 +14 55.6 16.8	-1.01 + 7.1	5.8/15.6	38341	1991 FQ ₂	2000 03 21.7	12 05.44 -00 38.9 17.2	-0.90 + 3.4	0.0/21.8	39515
2000 EF ₃₇	2000 03 20.7	12 01.50 -00 53.3 17.2	-0.84 +11.0	11.6/10.0	39491	1998 QN ₉₃	2000 03 21.7	12 05.45 -08 50.3 17.2	-0.79 + 9.3	2.5/24.8	39535
1979 MF ₃	2000 03 20.7	12 01.59 -01 15.3 19.2	-0.83 + 6.2	8.1/01.0	30778	1998 QQ ₉₃	2000 03 21.7	12 05.48 +18 18.3 17.5	-0.96 + 3.0	6.0/15.9	34021
(13487)	2000 03 20.7	12 01.64 +19 03.0 16.6	-1.03 + 1.3	6.5/15.2	38312	1998 WQ ₁	2000 03 21.8	12 05.54 -01 03.8 18.0	-0.74 + 5.2	0.1/22.0	39546
1997 SB ₄	2000 03 20.7	12 01.71 +00 22.1 21.1	-0.82 + 5.6	0.2/20.6	35701	(13937)	2000 03 21.8	12 05.62 +28 21.3 18.3	-0.87 + 9.9	8.0/10.0	39034
1998 SA ₁₄₈	2000 03 20.7	12 01.73 +00 40.7 18.4	-0.85 + 7.1	0.3/20.5	39542	3152 T-3	2000 03 21.8	12 05.64 +02 55.2 17.3	-0.80 + 4.7	1.1/20.7	39649
1984 SM ₅	2000 03 20.7	12 01.81 +04 47.5 16.1	-0.93 + 9.3	1.9/19.1	39512	3229 T-3	2000 03 21.8	12 05.73 +02 26.8 19.9	-0.88 + 5.2	0.9/20.9	34618
1998 WH ₄	2000 03 20.8	12 02.03 +06 53.4 16.9	-0.86 + 5.0	2.4/18.6	39547	1998 XN ₅₇	2000 03 21.8	12 05.85 +02 03.0 18.4	-0.82 + 5.9	0.8/21.0	39548
1991 RU ₇	2000 03 20.8	12 02.04 +00 11.0 18.9	-0.92 + 8.6	9.2/10.0	39516	2000 ET ₃₆	2000 03 21.9	12 05.80 +02 02.0 16.7	-0.87 + 8.0	1.2/21.0	39491
1998 US ₂₀	2000 03 20.8	12 02.11 -00 40.3 17.6	-0.89 + 6.6	9.4/10.0	39270	1998 WZ ₁₃	2000 03 21.9	12 05.89 -10 14.3 18.4	-0.92 + 6.4	3.3/25.1	35726
2000 EQ ₃₆	2000 03 20.8	12 02.23 +02 02.4 17.3	-0.82 + 9.5	0.8/20.1	39491	(14198)	2000 03 21.9	12 05.94 -02 26.7 16.9	-0.87 + 3.8	0.5/22.5	39108
1991 RQ ₇	2000 03 20.9	12 02.16 -13 05.4 17.6	-0.83 + 3.5	3.6/24.9	39516	1998 UE ₂₄	2000 03 21.9	12 06.02 +13 00.1 18.1	-0.98 + 5.2	5.0/17.6	39545
1998 WG ₂	2000 03 20.9	12 02.21 +01 30.9 18.1	-0.73 + 5.4	0.6/20.3	39277	2271 T-3	2000 03 21.9	12 06.06 -02 20.1 17.7	-0.77 + 5.1	0.5/22.5	39505
1993 QM ₄	2000 03 20.9	12 02.44 +00 21.1 17.5	-0.87 + 4.9	0.2/20.8	39520	1998 WV ₁₀	2000 03 21.9	12 06.07 -02 40.6 17.3	-0.92 + 6.5	0.8/22.6	39280
(10046)	2000 03 20.9	12 02.59 +15 04.2 16.5	-0.99 + 7.7	5.9/15.6	33869	1994 RN ₁₂	2000 03 21.9	12 06.11 +02 49.2 17.2	-0.94 + 8.0	1.2/20.8	39522
1998 VQ ₂₅	2000 03 21.0	12 02.72 +07 18.0 16.7	-0.99 + 5.0	3.2/18.7	39546	2000 DO ₁₁	2000 03 21.9	12 06.14 -00 17.2 18.7	-0.98 + 6.2	0.2/21.9	39441
1998 SV ₁₀₅	2000 03 21.0	12 02.88 +03 57.9 16.7	-0.91 + 6.1	1.7/19.7	39540	1994 PC ₃₀	2000 03 21.9	12 06.18 -04 47.5 20.0	-0.89 + 7.5	1.4/23.4	33243
1998 RM ₆₅	2000 03 21.0	12 02.96 -00 31.0 19.5	-0.87 + 6.2	0.1/21.2	35715	1981 EP ₉	2000 03 21.9	12 06.22 -07 43.1 18.7	-0.89 + 6.8	2.4/24.3	39511
1991 FW ₃	2000 03 21.1	12 02.90 +00 53.0 17.0	-0.78 + 7.1	0.4/20.7	39515	2000 CP ₉₄	2000 03 21.9	12 06.24 -02 19.2 17.1	-1.11 - 0.6	0.7/22.4	39431
1995 YL ₃	2000 03 21.1	12 02.98 +07 04.5 18.0	-0.93 + 7.2	2.7/18.7	39524	1996 QT ₁	2000 03 22.0	12 06.28 +03 41.1 17.9	-0.69 + 6.7	1.2/20.5	39526
2000 DD ₃	2000 03 21.1	12 03.04 +12 09.7 17.2	-0.74 + 5.6	3.6/16.8	39438	1998 SV ₁₄₇	2000 03 22.0	12 06.32 +11 11.2 17.5	-1.04 + 0.4	4.5/18.9	39257
1998 SJ ₄	2000 03 21.1	12 03.05 +01 08.0 18.9	-0.96 + 5.6	0.5/20.7	39230	2078 T-2	2000 03 22.0	12 06.39 -01 16.4 18.3	-0.91 + 7.6	0.2/22.2	39648
1998 RZ ₅₄	2000 03 21.1	12 03.06 -07 50.8 18.0	-1.05 + 5.6	2.9/23.4	39536	1996 HE ₂₅	2000 03 22.0	12 06.43 -01 02.9 17.5	-0.82 + 7.1	0.1/22.2	39171
1990 OY ₃	2000 03 21.1	12 03.09 -06 43.1 17.3	-0.99 + 4.3	2.2/23.1	39515	1997 LL ₂	2000 03 22.1	12 06.64 -05 15.7 18.4	-0.92 + 7.9	1.6/23.6	39528
1998 RJ ₃	2000 03 21.1	12 03.12 -10 41.7 18.9	-1.57 - 3.8	5.0/23.1	32989	1996 GK ₁₇	2000 03 22.1	12 06.66 -01 22.9 17.0	-0.81 + 6.9	0.2/22.4	39526
1990 UC ₂	2000 03 21.2	12 03.30 +15 03.6 17.9	-0.93 + 5.2	4.9/16.2	39515	1998 SN ₁₃	2000 03 22.1	12 06.75 +07 54.3 18.1	-0.97 + 6.8	3.3/19.4	39232
1998 RR ₇₄	2000 03 21.2	12 03.33 -03 04.7 18.5	-1.05 + 3.7	1.0/22.0	39227	1998 AX ₈	2000 03 22.1	12 06.79 -03 44.7 19.8	-0.71 + 4.6	0.7/23.2	34215
1997 TB ₂₆	2000 03 21.3	12 03.66 +02 43.8 18.6	-0.70 + 5.7	0.8/20.2	39530	1998 XE ₁₈	2000 03 22.1	12 06.89 +11 37.1 17.8	-0.96 + 4.5	4.9/18.3	39287
1981 EV ₃	2000 03 21.3	12 03.72 -09 45.8 18.9	-0.91 + 6.2	3.3/24.4	34573	1994 VA ₂	2000 03 22.2	12 07.00 +21 55.8 17.8	-0.97 + 3.5	7.3/15.0	39522
1998 XG ₄₈	2000 03 21.3	12 03.74 +16 27.6 17.4	-0.81 + 3.7	4.6/15.7	39548	1978 SD ₃	2000 03 22.2	12 07.08 -03 08.8 17.1	-1.09 + 4.8	0.9/22.9	39511

2000 MAR. 20

M.P.C. 39687

(12814)	2000 03 22.2	12 07.14 -03 17.5 17.5	-0.90 + 8.5	0.9/23.1	37067	1998 XX ₅₂	2000 03 23.1	12 10.43 +04 05.5 17.4	-0.78 + 5.1	1.5/21.4	39289
2541 P-L	2000 03 22.2	12 07.20 +00 01.1 18.7	-0.91 + 5.7	0.3/22.0	39646	1998 XR ₉₄	2000 03 23.1	12 10.52 -12 35.4 17.7	-0.71 + 5.7	3.1/27.2	39290
(14023)	2000 03 22.3	12 07.30 -11 47.6 16.8	-1.00 + 4.1	4.6/25.6	39057	1997 UT ₂₂	2000 03 23.2	12 10.53 -03 54.6 18.4	-0.72 + 3.7	0.6/24.1	39530
1989 SK ₁₀	2000 03 22.3	12 07.41 -01 47.4 19.1	-0.85 + 5.5	0.3/22.7	39514	1997 MV ₁	2000 03 23.2	12 10.76 -03 40.1 21.7	-0.96 + 8.6	0.9/24.1	30788
1998 UW ₅	2000 03 22.3	12 07.53 +07 02.4 18.6	-0.86 + 5.8	3.2/19.8	39544	1998 UN ₁₈	2000 03 23.2	12 10.76 +28 17.3 17.7	-0.72 + 7.8	8.0/11.4	39269
1992 WR ₅	2000 03 22.3	12 07.57 -14 52.9 17.6	-0.74 + 4.7	3.7/27.2	39518	1993 RD ₂	2000 03 23.2	12 10.92 +02 08.5 16.7	-0.77 +10.2	1.0/22.1	39520
1998 RQ ₂	2000 03 22.3	12 07.58 +02 39.1 17.5	-1.12 + 3.6	1.5/21.4	39536	1979 MO ₇	2000 03 23.3	12 10.97 -07 47.6 19.5	-0.70 + 5.3	1.7/25.6	21561
1995 FU ₂	2000 03 22.4	12 07.77 +03 55.2 20.2	-0.78 + 5.5	1.4/20.8	25442	(14203)	2000 03 23.3	12 11.09 -14 04.6 17.3	-0.82 + 3.1	3.8/27.4	39109
(13692)	2000 03 22.4	12 07.77 +02 17.9 16.8	-0.79 +10.6	1.2/21.3	38369	1994 VL ₇	2000 03 23.3	12 11.12 -02 37.9 17.8	-0.92 + 6.2	0.4/23.8	39522
(13492)	2000 03 22.4	12 07.83 +10 38.7 17.1	-0.98 + 5.0	4.3/18.9	38314	(10410)	2000 03 23.4	12 11.32 +05 54.3 16.7	-0.78 + 3.5	2.0/21.1	38750
1998 SH ₇₃	2000 03 22.4	12 07.83 +03 07.4 18.8	-0.93 + 6.0	1.3/21.2	34304	(13389)	2000 03 23.4	12 11.49 -03 15.4 16.9	-0.76 + 4.5	0.6/24.1	37592
1985 RL ₄	2000 03 22.4	12 07.84 +02 37.2 17.7	-1.05 + 5.6	1.3/21.4	39513	2000 AO ₁₆₄	2000 03 23.4	12 11.58 -11 02.1 16.4	-0.95 + 5.8	4.1/26.6	39352
2000 EU ₁₉	2000 03 22.4	12 07.84 +12 15.5 18.2	-0.87 + 3.7	3.9/18.3	39487	(9763)	2000 03 23.4	12 11.59 -02 07.9 16.2	-0.94 + 7.9	0.3/23.8	33202
6520 P-L	2000 03 22.4	12 08.02 +01 01.3 18.3	-0.93 + 8.2	0.7/21.9	39647	1998 SL ₃₅	2000 03 23.4	12 11.60 +01 31.6 18.5	-0.94 + 8.2	1.0/22.5	39236
(14206)	2000 03 22.5	12 07.99 +10 00.4 18.0	-0.69 + 5.1	2.6/18.7	39110	(14196)	2000 03 23.4	12 11.64 +11 01.8 16.5	-0.98 + 7.9	4.6/19.3	39107
1994 PO ₃₇	2000 03 22.5	12 08.05 -01 46.7 20.3	-0.92 + 6.5	0.3/22.8	29138	1998 RZ ₆₀	2000 03 23.4	12 11.64 -05 52.8 19.8	-0.92 + 7.6	1.6/25.0	35715
1998 XA ₃	2000 03 22.5	12 08.15 +04 53.5 18.5	-0.86 + 6.1	1.7/20.6	39285	1988 RY ₁	2000 03 23.4	12 11.66 +02 44.6 19.4	-0.97 + 7.3	1.4/22.2	39513
1998 TL ₂	2000 03 22.6	12 08.49 -00 45.9 18.5	-1.01 + 5.0	0.1/22.6	39260	6059 P-L	2000 03 23.4	12 11.69 -05 00.7 17.7	-0.79 + 6.1	1.2/24.8	39647
1997 LO ₁₇	2000 03 22.6	12 08.49 +01 29.1 17.1	-0.91 + 8.3	0.9/21.8	35700	2000 EY ₄₁	2000 03 23.5	12 11.75 -01 19.1 18.7	-0.73 + 4.5	0.0/23.5	39492
1995 WU ₇	2000 03 22.6	12 08.50 +06 19.6 17.5	-0.99 + 5.3	3.0/20.4	39524	(10241)	2000 03 23.5	12 11.80 -00 01.3 18.3	-0.73 + 5.1	0.3/23.1	33916
2000 CM ₉₄	2000 03 22.6	12 08.68 +05 14.1 16.1	-0.74 +11.4	2.4/20.3	39600	1998 SZ ₂₅	2000 03 23.5	12 11.87 +02 59.7 16.4	-0.85 + 9.6	1.8/22.0	39234
1998 TO ₃₀	2000 03 22.6	12 08.74 -03 36.9 18.3	-0.84 + 6.8	0.9/23.6	39263	(13918)	2000 03 23.5	12 11.91 -15 43.4 16.5	-0.97 + 3.0	4.8/27.8	39028
1998 UK ₇	2000 03 22.6	12 08.79 +19 52.9 17.4	-1.04 + 1.3	7.2/16.6	39266	1999 VY ₁₅₃	2000 03 23.5	12 11.95 +14 55.3 16.0	-0.84 + 3.9	6.3/18.2	39324
1991 RN ₁₃	2000 03 22.6	12 08.80 -08 45.0 18.1	-1.03 + 6.1	2.9/25.1	39516	1993 FF ₅₀	2000 03 23.5	12 11.95 -02 53.7 17.8	-1.01 + 5.6	0.6/24.1	39156
1998 SM ₄₁	2000 03 22.7	12 08.74 -02 02.5 16.8	-1.10 + 1.1	0.5/23.0	39237	1999 AM ₆	2000 03 23.5	12 12.00 -08 09.4 16.4	-1.00 + 4.2	2.6/25.6	39549
1998 UC ₃₁	2000 03 22.7	12 08.80 +00 10.6 17.6	-0.92 + 3.0	0.4/22.4	39271	(9968)	2000 03 23.5	12 12.04 -11 59.3 16.2	-0.79 + 9.4	3.6/27.5	33663
1987 WF ₁	2000 03 22.8	12 09.11 -27 19.6 18.2	-0.93 + 8.0	7.6/01.5	33740	1998 QE ₁₀₀	2000 03 23.5	12 12.04 +04 09.6 17.0	-0.96 + 5.5	2.0/21.9	39212
1994 WH ₁	2000 03 22.8	12 09.19 -22 43.9 16.0	-0.85 + 6.2	8.5/30.6	38764	1997 GC ₈	2000 03 23.5	12 12.07 +07 17.3 18.3	-1.07 + 3.8	3.1/21.1	39527
1132 T-1	2000 03 22.8	12 09.26 -03 12.7 16.6	-0.87 + 6.3	1.0/23.6	39499	1997 TZ ₁₀	2000 03 23.6	12 12.13 -00 23.3 19.1	-0.77 + 8.6	0.4/23.3	39185
2000 CK ₉₃	2000 03 22.8	12 09.26 +09 59.6 17.1	-0.77 + 8.0	3.8/18.9	39600	1991 VG ₁	2000 03 23.6	12 12.17 +03 46.4 17.5	-1.04 + 4.3	1.9/22.2	39149
1998 RF ₈₀	2000 03 22.8	12 09.33 +08 03.5 19.4	-0.97 + 4.8	3.1/20.1	34022	1997 LA ₅	2000 03 23.6	12 12.36 +22 31.3 19.5	-0.87 + 6.2	7.2/15.0	39528
2000 AA ₁₃₈	2000 03 22.8	12 09.35 +12 10.8 16.5	-0.76 + 7.5	5.0/18.0	39578	1993 OJ ₈	2000 03 23.6	12 12.38 -03 13.8 16.7	-0.92 + 6.4	0.7/24.3	39157
1998 XV ₄₉	2000 03 22.8	12 09.38 +10 36.8 16.5	-0.87 + 1.9	3.7/19.3	39548	1997 WP ₂₈	2000 03 23.7	12 12.47 -15 09.6 18.6	-0.78 + 4.5	3.8/28.4	39530
1985 UO ₃	2000 03 22.8	12 09.38 +21 59.9 16.8	-1.15 - 0.7	7.8/16.6	39513	1998 WN ₁	2000 03 23.7	12 12.55 -05 53.7 17.6	-0.94 + 7.5	1.6/25.2	39546
2000 DD ₇	2000 03 22.8	12 09.48 +14 54.1 16.4	-1.01 + 4.2	6.5/17.9	39441	1998 TV ₁₂	2000 03 23.7	12 12.64 -03 30.9 17.4	-0.86 + 6.8	0.9/24.5	39262
2000 DU ₁₁	2000 03 22.8	12 09.48 +00 08.4 18.2	-0.92 + 8.0	0.5/22.5	39442	(13950)	2000 03 23.7	12 12.71 -10 35.1 16.4	-0.93 + 6.7	3.5/26.8	39037
1998 SE ₁₄₄	2000 03 22.8	12 09.50 +05 12.2 16.9	-0.94 + 2.8	2.1/21.1	39542	(10109)	2000 03 23.8	12 12.82 +22 06.8 16.8	-0.87 + 5.9	7.2/15.2	33883
6595 P-L	2000 03 22.9	12 09.51 -00 26.3 17.3	-0.92 + 6.7	0.2/22.7	39498	1998 VO ₃₁	2000 03 23.8	12 12.98 -31 50.4 18.0	-0.90 + 1.5	8.2/03.1	34028
(14202)	2000 03 22.9	12 09.66 -10 55.7 17.9	-0.87 + 4.9	2.9/26.1	39109	2000 EZ ₃₈	2000 03 23.8	12 13.12 -02 35.8 17.9	-0.94 + 6.9	0.5/24.3	39492
1985 CP ₂	2000 03 22.9	12 09.68 -04 07.0 17.9	-0.95 + 5.8	1.2/23.9	39512	(13981)	2000 03 23.9	12 13.08 +10 54.8 17.3	-0.81 + 5.5	3.8/19.7	39046
1998 XM ₇₇	2000 03 23.0	12 09.92 +01 38.6 17.7	-0.83 + 7.0	0.9/22.1	39290	1994 VY ₂	2000 03 24.0	12 13.44 -10 40.3 18.2	-0.92 + 6.6	3.1/27.1	39522
1997 SN ₂₅	2000 03 23.0	12 09.94 -02 13.1 17.4	-0.78 + 4.9	0.3/23.4	39185	(10008)	2000 03 24.0	12 13.44 +00 34.0 17.2	-0.84 + 5.1	0.7/23.3	38016
1998 SW ₃₂	2000 03 23.0	12 10.07 -00 39.6 17.6	-0.98 + 4.0	0.2/22.9	39539	1994 PJ ₄	2000 03 24.0	12 13.45 -03 02.0 19.7	-0.93 + 6.4	0.6/24.5	35690
1998 QS ₉₁	2000 03 23.0	12 10.08 -00 15.9 18.4	-1.02 + 3.9	0.3/22.8	39535	1998 WZ ₃₀	2000 03 24.0	12 13.46 -09 08.2 17.5	-0.98 + 3.7	2.4/26.3	39548
(10215)	2000 03 23.0	12 10.17 -00 11.4 19.5	-0.75 + 4.8	0.2/22.8	33910	1998 WK ₁₈	2000 03 24.0	12 13.53 -04 50.0 18.0	-1.03 + 5.5	1.2/25.0	39282
1998 TF ₁₈	2000 03 23.0	12 10.22 -03 51.2 18.0	-0.86 + 7.1	0.9/24.0	34306	(14284)	2000 03 24.0	12 13.57 +01 29.7 17.2	-1.03 + 4.5	1.1/23.2	39132
1998 QK ₅₅	2000 03 23.0	12 10.23 -02 11.2 19.5	-0.91 + 7.5	0.4/23.5	33348	1998 RL ₈₀	2000 03 24.0	12 13.59 +05 19.8 16.9	-1.04 + 5.0	2.9/22.0	39538
9097 P-L	2000 03 23.1	12 10.18 -01 58.4 16.5	-0.98 + 1.7	0.4/23.3	39647	1998 QA ₄₄	2000 03 24.0	12 13.59 -00 44.1 18.2	-1.08 + 4.2	0.3/23.8	39205
(13960)	2000 03 23.1	12 10.22 +00 28.8 17.0	-0.94 + 2.1	0.6/22.7	39040	1985 VB ₁	2000 03 24.0	12 13.59 +24 17.4 19.5	-0.72 + 7.3	6.1/13.7	27305
1996 GH ₂₀	2000 03 23.1	12 10.33 +02 54.8 19.1	-0.84 + 5.3	1.3/21.8	33694	1997 AV ₁₈	2000 03 24.0	12 13.74 +40 30.5 18.2	-1.16 + 8.0	16.3/06.0	39174
1994 WJ ₁₂	2000 03 23.1	12 10.41 -15 42.6 17.7	-0.90 + 5.4	4.4/28.0	39523	2000 EW ₃₆	2000 03 24.0	12 13.83 +02 01.1 16.8	-0.92 + 7.0	1.6/22.9	39491

1988 MH	2000 03 24.0	12 13.87 -22 16.5 16.7	-0.95 + 3.4	6.5/30.6	39513	1998 UX ₂₂	2000 03 25.0	12 17.24 +02 49.1 18.9	-0.89 + 5.1	1.6/23.6	39544
1998 SF ₃₇	2000 03 24.1	12 13.84 -06 10.2 18.1	-0.89 + 7.5	1.6/25.7	34592	(9976)	2000 03 25.0	12 17.30 +10 17.7 17.9	-0.85 + 4.4	3.4/21.1	33665
(9836)	2000 03 24.1	12 13.91 -03 33.8 18.3	-0.84 + 5.7	0.6/24.8	33454	1991 RL ₁₃	2000 03 25.0	12 17.37 -06 01.4 18.5	-1.02 + 6.0	1.5/26.0	35683
(10048)	2000 03 24.1	12 14.03 -08 51.6 17.0	-0.88 + 1.4	2.1/26.3	38749	1998 UO ₁₈	2000 03 25.0	12 17.49 -02 03.2 19.2	-0.94 + 5.4	0.1/25.1	39544
1998 YK ₁₀	2000 03 24.1	12 14.06 -19 50.5 18.6	-0.91 + 3.8	5.5/30.0	39293	1995 CO ₆	2000 03 25.0	12 17.49 -00 01.2 18.4	-0.80 + 6.3	0.6/24.5	39164
1998 QC ₅₆	2000 03 24.1	12 14.19 -03 59.3 18.6	-1.21 - 0.5	0.8/24.8	39208	1998 UF ₁₉	2000 03 25.1	12 17.45 -00 05.9 19.0	-0.88 + 6.6	0.6/24.5	39544
1996 CQ	2000 03 24.1	12 14.23 +04 24.7 16.5	-0.99 + 3.7	2.4/22.4	39525	(10406)	2000 03 25.1	12 17.50 -11 10.3 18.7	-0.70 + 4.6	2.2/28.3	34161
1998 SJ ₆₃	2000 03 24.2	12 14.26 -06 47.8 19.1	-0.92 + 5.5	1.6/26.0	35718	1992 SS ₁₇	2000 03 25.1	12 17.53 -01 58.9 18.0	-0.77 + 5.5	0.0/25.1	39152
(14185)	2000 03 24.2	12 14.30 +01 38.1 17.5	-0.92 + 4.0	1.0/23.3	39104	1990 VH ₃	2000 03 25.1	12 17.76 -07 59.5 18.3	-0.91 + 6.1	2.1/27.2	39515
1998 WD ₁₂	2000 03 24.2	12 14.34 -00 07.1 16.3	-0.85 + 7.4	0.6/23.8	39547	2000 CC ₅₈	2000 03 25.1	12 17.83 +11 50.9 16.2	-0.74 + 9.8	5.1/19.9	39594
6070 P-L	2000 03 24.2	12 14.55 -03 45.4 18.2	-0.83 + 4.8	0.7/25.0	39647	1998 QV ₄₅	2000 03 25.1	12 17.84 -02 39.4 17.8	-0.84 + 8.7	8.7/15.0	39205
(10204)	2000 03 24.2	12 14.56 +05 41.1 17.6	-0.77 + 6.8	2.3/21.8	38016	2000 DQ ₁₂	2000 03 25.2	12 17.81 -00 16.8 19.1	-0.82 + 6.0	0.5/24.7	39442
(14012)	2000 03 24.2	12 14.60 +19 57.6 17.2	-0.81 + 4.8	6.1/16.8	39054	(12812)	2000 03 25.2	12 17.85 -00 56.3 17.2	-0.96 + 5.0	0.4/24.9	37067
(13814)	2000 03 24.3	12 14.58 +15 05.6 17.2	-0.77 + 4.7	4.6/18.5	38404	1998 RR ₇₇	2000 03 25.2	12 17.95 +04 49.6 15.8	-0.81 + 7.4	3.3/22.9	39538
1993 FG ₁	2000 03 24.3	12 14.58 -01 16.7 15.6	-0.69 +23.0	0.1/24.2	39153	1994 AF ₃	2000 03 25.2	12 18.07 -20 06.5 17.3	-0.82 + 4.2	5.2/31.5	39521
1998 VX ₃₀	2000 03 24.3	12 14.60 -22 12.0 18.5	-0.89 + 6.6	6.7/31.7	34931	1998 WJ ₁₈	2000 03 25.2	12 18.15 -10 27.2 16.6	-1.01 + 5.1	3.5/27.9	39548
(9837)	2000 03 24.3	12 14.75 +07 34.1 16.2	-0.82 + 6.2	3.1/21.2	33454	6274 P-L	2000 03 25.3	12 18.17 -04 43.6 17.0	-0.82 + 7.6	1.1/26.0	39647
2000 CR ₉₄	2000 03 24.3	12 14.77 -02 33.4 16.8	-1.10 + 0.1	0.4/24.6	39600	(13709)	2000 03 25.3	12 18.19 +05 57.5 16.9	-0.96 + 7.6	3.0/22.7	38374
7082 P-L	2000 03 24.3	12 14.78 -09 41.8 17.2	-0.94 +19.8	3.2/27.6	39647	1994 XR ₄	2000 03 25.3	12 18.28 +34 07.0 17.8	-0.94 + 4.1	10.3/11.6	39523
1997 PR	2000 03 24.3	12 14.78 -13 04.5 17.9	-1.06 + 2.9	4.4/27.6	39529	(13628)	2000 03 25.3	12 18.39 +11 05.2 16.0	-1.01 + 3.5	5.8/21.5	38350
2000 EF ₄	2000 03 24.3	12 14.86 +31 48.6 17.6	-1.62 - 4.6	15.0/16.8	39482	(9915)	2000 03 25.3	12 18.43 +01 34.3 17.5	-0.77 + 4.5	1.0/24.2	33651
1990 UJ ₄	2000 03 24.3	12 14.87 +17 14.5 16.3	-1.02 + 3.4	7.3/18.3	39515	1998 VZ ₃₇	2000 03 25.3	12 18.50 +19 13.7 17.1	-1.02 + 0.5	8.5/19.2	39546
1994 PS ₂₇	2000 03 24.3	12 14.93 +02 08.0 18.8	-0.95 + 5.6	1.4/23.2	39522	1997 LQ ₂	2000 03 25.3	12 18.59 -33 34.1 20.1	-1.03 + 6.3	10.0/05.5	33949
1991 SK ₂	2000 03 24.3	12 14.94 -10 43.2 18.0	-0.82 + 3.0	2.6/27.2	39517	1994 TU ₃	2000 03 25.3	12 18.59 -17 05.6 17.6	-0.88 +10.6	4.5/30.9	33748
2000 ED ₆	2000 03 24.4	12 15.10 -00 17.1 16.7	-0.87 + 5.8	0.6/24.0	39482	1997 QS ₂	2000 03 25.4	12 18.59 +07 35.3 18.4	-0.77 + 4.1	2.8/22.3	39529
1998 WO ₅	2000 03 24.4	12 15.12 -07 55.1 17.2	-0.98 + 3.9	2.4/26.3	39547	1998 QP ₉₈	2000 03 25.4	12 18.85 -12 21.9 18.6	-0.93 + 6.4	3.3/28.9	39535
1997 SD ₄	2000 03 24.4	12 15.30 -04 17.4 19.2	-0.70 + 5.4	0.7/25.4	39529	(14074)	2000 03 25.4	12 18.88 +09 21.0 17.8	-0.72 + 6.5	3.3/21.4	39071
1998 RP ₆₁	2000 03 24.4	12 15.30 -05 10.4 18.4	-0.94 + 3.8	1.1/26.0	39222	1997 QZ	2000 03 25.4	12 18.96 -00 29.0 18.4	-0.90 + 7.8	0.5/25.0	39182
2000 EY ₂₃	2000 03 24.5	12 15.38 -01 47.7 17.9	-0.79 + 7.6	0.1/24.6	39488	1978 VT ₉	2000 03 25.5	12 19.00 +03 13.8 18.9	-1.01 + 5.7	1.8/23.9	39511
1995 WO ₇	2000 03 24.5	12 15.51 -08 27.3 18.3	-0.98 + 6.8	2.6/26.7	39524	1991 VJ ₄	2000 03 25.5	12 19.05 +06 00.0 16.3	-1.04 + 4.4	3.0/23.1	39517
1991 GM ₈	2000 03 24.5	12 15.69 -06 27.8 17.9	-0.82 + 5.3	1.6/26.2	39516	1992 ER ₁₈	2000 03 25.5	12 19.12 -04 48.5 16.8	-1.06 + 0.3	1.2/26.3	39518
3149 T-3	2000 03 24.6	12 15.80 -01 02.0 18.0	-0.94 + 7.2	0.3/24.4	39649	1993 FG ₈	2000 03 25.5	12 19.24 +03 12.8 18.0	-0.88 + 9.9	1.7/23.7	39519
1994 PZ ₂₂	2000 03 24.7	12 16.06 -01 55.4 18.7	-0.93 + 6.2	0.1/24.8	39521	5739 T-3	2000 03 25.5	12 19.26 +13 50.3 16.8	-0.89 + 4.3	6.3/20.4	39509
1996 ER ₂	2000 03 24.7	12 16.13 -06 34.1 17.9	-0.90 + 6.2	1.8/26.3	39525	1979 MB ₃	2000 03 25.5	12 19.26 +21 11.7 16.5	-0.82 + 7.9	8.4/16.4	39139
2591 P-L	2000 03 24.7	12 16.41 -01 10.9 18.5	-0.78 + 6.5	0.2/24.6	39646	1998 VK ₆	2000 03 25.5	12 19.28 -08 15.0 18.8	-0.87 + 4.6	2.0/27.6	34028
(9865)	2000 03 24.7	12 16.44 -07 00.5 17.4	-1.00 + 7.3	2.0/26.0	33461	1998 SJ ₆₄	2000 03 25.5	12 19.35 +05 43.6 16.2	-0.99 + 4.4	3.4/23.2	34303
1998 ST ₁₁₈	2000 03 24.8	12 16.51 +01 08.6 17.2	-0.99 + 4.6	1.3/23.9	39251	1998 TR ₅	2000 03 25.6	12 19.28 +03 12.8 17.1	-1.01 + 3.9	2.0/24.0	39261
1998 UO ₂₀	2000 03 24.8	12 16.59 -15 53.4 17.3	-0.79 + 9.0	5.1/30.1	34026	1998 XO ₇₇	2000 03 25.6	12 19.40 +19 35.0 17.9	-0.87 + 5.0	6.6/18.2	39548
1999 AO ₂	2000 03 24.8	12 16.61 -07 40.2 17.8	-0.79 + 3.2	1.5/26.7	35730	1995 MC	2000 03 25.6	12 19.41 -31 25.1 17.4	-0.93 + 1.4	7.9/03.6	34293
2000 DJ ₇	2000 03 24.8	12 16.64 +13 49.4 16.7	-1.01 + 0.3	7.8/20.6	39603	1985 PO	2000 03 25.6	12 19.46 +01 27.6 17.7	-0.85 + 6.4	1.1/24.5	39513
1998 SP ₅₄	2000 03 24.8	12 16.75 -02 22.5 17.8	-0.87 + 7.7	0.2/25.1	39539	(9916)	2000 03 25.6	12 19.48 -03 42.0 17.2	-0.79 + 5.0	0.5/26.2	33652
2000 AJ ₁₃₃	2000 03 24.9	12 16.73 +32 20.2 17.0	-0.99 - 1.3	14.9/13.5	39577	2000 EU ₃₇	2000 03 25.6	12 19.51 +02 08.6 17.7	-0.72 + 6.2	1.3/24.2	39491
2000 DH ₁₂	2000 03 24.9	12 16.75 +00 26.1 18.0	-0.70 + 7.2	0.6/24.1	39442	(14107)	2000 03 25.6	12 19.60 -01 12.5 18.5	-0.72 + 4.7	0.2/25.4	39081
1993 OS ₁₂	2000 03 24.9	12 16.78 +02 42.2 17.1	-0.90 + 7.3	1.8/23.4	39520	1998 ST ₁₄₀	2000 03 25.6	12 19.61 -04 23.2 19.5	-0.95 + 5.7	0.8/26.4	35720
2000 DL ₇	2000 03 24.9	12 16.81 +15 58.5 16.7	-0.95 + 0.1	6.1/19.8	39441	1998 VY ₃₃	2000 03 25.7	12 19.70 -04 36.7 18.0	-0.85 + 5.5	0.7/26.5	39546
1998 SR ₂₇	2000 03 24.9	12 16.92 -38 24.4 20.3	-1.09 + 4.8	11.0/08.0	39235	1998 SQ ₄₂	2000 03 25.7	12 19.70 -04 12.0 18.5	-0.99 + 4.4	0.8/26.3	39539
1998 UA ₂₀	2000 03 24.9	12 16.96 +00 14.7 20.3	-0.93 + 5.7	0.7/24.3	35722	3071 T-2	2000 03 25.7	12 19.87 +04 19.7 17.0	-0.93 + 4.4	2.3/23.7	39648
1997 SA ₂₀	2000 03 24.9	12 17.09 -02 38.1 21.2	-0.88 + 4.8	0.2/25.2	38461	(9963)	2000 03 25.7	12 19.98 +30 32.9 18.3	-0.96 + 6.6	9.4/13.3	33662
1997 RF ₄	2000 03 24.9	12 17.16 +03 20.9 19.4	-0.86 + 3.6	1.5/23.4	31010	4195 T-1	2000 03 25.7	12 20.02 +03 11.6 17.4	-0.80 + 5.2	1.7/24.0	39648
1995 XP ₁	2000 03 25.0	12 17.14 +03 13.7 17.2	-0.93 + 6.6	2.1/23.4	39524	1998 XU ₃	2000 03 25.8	12 20.09 +00 32.8 18.6	-0.93 + 5.7	0.9/25.0	39285
1998 SE ₁₁₇	2000 03 25.0	12 17.16 -12 18.7 15.7	-0.82 + 8.7	4.5/28.8	39541	1998 SR ₃₃	2000 03 25.8	12 20.20 -09 01.7 19.2	-1.00 + 3.0	2.1/27.9	35717

2000 MAR. 20

M.P.C. 39689

1998 SM₁₃₇ 2000 03 25.8 12 20.22 +08 51.9 16.8 -0.95 + 5.5 4.5/22.3 34024
 1987 BS₁ 2000 03 25.8 12 20.39 -22 51.8 17.1 -0.97 + 3.7 7.1/01.6 38752
 1998 UF₁₅ 2000 03 25.8 12 20.41 -11 37.4 18.0 -0.94 + 5.3 3.2/28.9 39267
 1986 QY₃ 2000 03 25.9 12 20.52 +03 20.7 19.2 -0.91 + 6.5 1.8/24.1 30651
 (13371) 2000 03 25.9 12 20.53 -14 26.2 16.3 -0.96 + 5.0 5.3/29.8 37588
 1993 GA₁ 2000 03 25.9 12 20.57 -01 45.0 17.5 -1.04 + 3.7 9.3/06.0 39519
 (9883) 2000 03 25.9 12 20.65 -09 20.5 18.2 -1.02 + 3.9 2.5/28.0 33465
 (14106) 2000 03 25.9 12 20.68 -04 52.9 18.4 -0.82 + 5.3 0.9/26.8 39081
 2052 T-2 2000 03 25.9 12 20.69 -03 54.7 17.7 -0.81 + 5.0 0.5/26.5 39501
 4100 P-L 2000 03 25.9 12 20.74 -08 36.7 16.9 -1.10 - 0.8 2.6/27.6 39647
 (13482) 2000 03 26.0 12 20.83 +09 20.8 17.0 -0.76 + 5.2 3.2/22.0 38311
 2164 P-L 2000 03 26.0 12 20.86 -05 51.0 18.1 -0.93 + 5.7 1.2/27.2 39646
 1998 QD₅₅ 2000 03 26.0 12 20.89 -03 14.4 18.4 -0.91 + 8.4 0.4/26.4 39534
 (13589) 2000 03 26.0 12 20.90 +24 58.5 16.8 -0.77 + 4.9 9.1/15.8 38340
 1998 QX₅₄ 2000 03 26.0 12 20.95 -03 49.0 17.6 -0.89 + 9.9 0.6/26.6 39534
 1992 UZ₃ 2000 03 26.0 12 21.05 -01 55.8 18.2 -0.75 + 4.4 0.1/26.0 39518
 1998 SA₂₂ 2000 03 26.1 12 21.21 -01 21.5 17.1 -1.08 + 2.4 0.4/25.9 39233
 1998 SH₇₁ 2000 03 26.1 12 21.29 +00 59.2 18.3 -0.91 + 6.7 1.1/25.1 39245
 1993 FQ₂₆ 2000 03 26.1 12 21.42 -05 42.9 17.2 -0.97 + 5.1 1.5/27.2 39155
 1998 WO₉ 2000 03 26.1 12 21.43 +06 07.9 18.0 -0.99 + 5.2 3.2/23.5 39547
 1990 RE₂ 2000 03 26.1 12 21.45 -03 15.7 17.9 -0.88 + 6.8 0.3/26.5 39515
 1998 VX₁₈ 2000 03 26.1 12 21.46 -09 46.2 17.5 -1.00 + 6.9 3.0/28.6 39546
 1993 TH₂₈ 2000 03 26.1 12 21.47 -02 31.9 18.5 -0.76 + 7.4 0.1/26.3 39159
 1995 FL₂₁ 2000 03 26.1 12 21.48 +05 29.3 19.5 -0.85 + 2.8 2.3/23.8 30983
 1994 PE₂₉ 2000 03 26.1 12 21.50 +00 14.9 20.2 -0.93 + 5.9 0.8/25.4 39522
 1998 SV₁₁₀ 2000 03 26.1 12 21.54 -03 08.8 17.2 -1.07 + 2.6 0.3/26.4 39250
 1981 EL₃₆ 2000 03 26.2 12 21.49 -07 04.3 18.7 -0.94 + 5.6 1.9/27.7 22697
 1994 TM₁₆ 2000 03 26.2 12 21.54 +00 02.6 19.7 -0.92 + 5.5 0.8/25.5 39162
 2000 EP₈₇ 2000 03 26.2 12 21.65 +03 33.5 17.2 -0.94 + 5.0 2.4/24.4 39494
 1996 LJ₁ 2000 03 26.2 12 21.79 -15 05.2 17.9 -0.76 + 9.0 4.2/31.0 39526
 1998 YM₁₂ 2000 03 26.2 12 21.82 +00 47.7 18.6 -0.78 + 4.5 0.9/25.3 39293
 1998 YH₂₀ 2000 03 26.3 12 21.91 -05 20.5 20.6 -0.64 + 3.7 0.7/27.3 33727
 1984 SL 2000 03 26.3 12 22.21 +04 20.6 17.3 -0.77 + 6.7 1.8/24.1 39512
 1994 TH₁₆ 2000 03 26.3 12 22.25 -16 31.8 18.8 -0.90 + 7.8 4.4/31.3 33689
 (14030) 2000 03 26.4 12 22.24 +10 32.4 17.2 -1.06 + 1.0 4.7/22.9 39059
 1998 SN₁₆₂ 2000 03 26.4 12 22.25 -11 08.8 18.2 -0.82 + 7.2 3.1/29.5 35720
 1998 SY₆₀ 2000 03 26.4 12 22.29 +02 31.4 17.6 -0.95 + 7.9 2.0/24.8 39540
 1998 QS₉₈ 2000 03 26.4 12 22.29 +02 39.7 17.3 -1.04 + 5.8 1.9/24.9 39535
 1992 SR₂₅ 2000 03 26.4 12 22.29 -05 35.1 17.9 -0.84 + 2.8 0.9/27.4 39518
 1991 AS₁ 2000 03 26.4 12 22.37 -46 58.4 18.2 -1.43 - 1.6 13.6/11.2 34007
 1998 QN₁₀₀ 2000 03 26.4 12 22.60 -02 37.4 18.3 -1.05 + 4.6 0.1/26.5 39212
 1989 WU₁ 2000 03 26.5 12 22.68 -12 19.1 18.0 -0.84 + 6.9 2.8/29.9 31784
 1993 FO₃₁ 2000 03 26.5 12 22.89 -00 20.9 18.8 -0.99 + 5.0 0.8/25.9 39519
 1995 FU₁₂ 2000 03 26.5 12 22.90 -02 10.0 19.1 -0.77 + 4.5 0.1/26.5 31728
 1987 SD₁₃ 2000 03 26.6 12 23.07 +00 22.1 18.3 -0.95 + 5.8 1.0/25.7 39513
 1998 VF₃₆ 2000 03 26.6 12 23.15 -05 17.5 20.0 -0.93 + 6.0 0.9/27.5 35725
 1996 SJ₃ 2000 03 26.6 12 23.17 -04 07.3 17.7 -0.78 + 5.0 0.5/27.2 39526
 (14014) 2000 03 26.6 12 23.29 -00 56.7 17.0 -0.70 + 7.6 0.5/26.1 39054
 (10029) 2000 03 26.6 12 23.31 -04 58.0 18.4 -0.88 + 4.8 0.7/27.5 33865
 1998 VE₃₇ 2000 03 26.6 12 23.33 -01 42.2 17.3 -0.94 + 2.5 0.3/26.5 39546
 2000 DM₃ 2000 03 26.7 12 23.34 +07 06.6 18.1 -0.99 + 6.8 3.9/23.6 39438

1999 BV₂₇ 2000 03 26.7 12 23.49 +15 54.3 17.7 -0.81 + 3.3 5.7/20.8 39298
 1998 VU₅ 2000 03 26.7 12 23.50 -07 26.3 17.3 -0.92 + 4.6 1.9/28.3 39274
 1994 PG₂₄ 2000 03 26.7 12 23.59 -00 10.6 17.7 -0.92 + 6.5 0.9/26.0 39521
 (10049) 2000 03 26.7 12 23.64 -09 58.3 18.1 -0.74 + 4.4 1.9/29.2 33869
 1998 VH₁₈ 2000 03 26.7 12 23.65 -11 50.0 18.3 -1.03 + 6.5 3.4/29.7 38529
 1997 MQ₂ 2000 03 26.7 12 23.71 -01 47.0 20.1 -0.91 + 6.4 0.3/26.5 39181
 2000 DM₉₂ 2000 03 26.8 12 23.75 -00 15.0 17.1 -0.88 + 6.3 1.1/26.1 39472
 2000 EP₂₅ 2000 03 26.8 12 23.86 -02 18.1 18.5 -0.97 + 5.1 0.1/26.8 39488
 1997 RM₉ 2000 03 26.9 12 24.10 -06 34.4 18.6 -0.94 + 2.2 1.2/28.1 39529
 1998 QR₅₈ 2000 03 26.9 12 24.42 -05 07.8 18.0 -1.05 + 4.1 1.0/27.7 39534
 1981 EE₃₈ 2000 03 27.0 12 24.42 -05 25.4 18.8 -0.82 + 4.9 0.9/27.9 39512
 1978 SD₈ 2000 03 27.0 12 24.51 -00 46.6 17.7 -1.03 + 5.2 0.7/26.5 39139
 1997 RH 2000 03 27.0 12 24.54 -04 30.3 18.2 -0.85 + 5.1 0.6/27.6 39183
 1993 TK₃₃ 2000 03 27.0 12 24.58 +04 52.1 18.5 -0.84 + 4.7 2.3/24.6 39520
 1998 TG₃₀ 2000 03 27.1 12 24.72 -01 31.7 19.3 -0.97 + 5.7 0.4/26.7 39543
 1998 SK₃₆ 2000 03 27.1 12 24.88 +07 04.7 20.6 -0.88 + 5.2 2.9/24.0 35717
 1997 LP₁ 2000 03 27.1 12 24.93 +05 52.5 18.5 -0.92 + 9.2 3.4/24.2 39180
 3072 T-2 2000 03 27.1 12 24.93 +02 25.9 17.1 -0.81 + 5.0 1.6/25.5 39648
 1998 MJ₄₁ 2000 03 27.2 12 25.13 +43 00.3 17.4 -1.25 + 2.9 18.7/11.0 39197
 (11393) 2000 03 27.2 12 25.28 +01 29.8 17.0 -0.77 + 4.6 1.3/25.9 35588
 1991 TH₁ 2000 03 27.2 12 25.42 +07 12.7 18.7 -1.22 + 0.3 3.4/24.8 39517
 1995 WB₂₂ 2000 03 27.2 12 25.43 +07 55.6 18.0 -0.96 + 5.8 4.7/23.9 39524
 1997 TM₂₇ 2000 03 27.2 12 25.46 -02 26.5 17.4 -0.89 + 5.0 0.1/27.2 39186
 1997 JB₈ 2000 03 27.3 12 25.50 -07 21.0 19.0 -0.98 + 8.1 1.7/28.8 33498
 1998 TN₂ 2000 03 27.3 12 25.62 -01 13.8 17.7 -1.03 + 2.6 0.6/26.9 39260
 1990 QM₇ 2000 03 27.3 12 25.63 -03 37.1 17.2 -1.03 + 3.3 0.3/27.6 39515
 1994 PG₈ 2000 03 27.3 12 25.65 +00 59.3 21.6 -0.90 + 6.4 1.2/26.1 33688
 1989 UN₇ 2000 03 27.3 12 25.67 -00 00.7 18.8 -0.85 + 5.3 0.9/26.5 39145
 1997 AQ₆ 2000 03 27.3 12 25.71 +47 32.4 16.3 -1.71 - 6.1 23.8/11.0 39527
 1998 WK₆ 2000 03 27.3 12 25.75 -03 02.7 18.1 -0.83 + 6.0 0.1/27.5 39547
 1997 TX₂₃ 2000 03 27.3 12 25.84 -03 32.9 20.0 -0.73 + 4.8 0.2/27.6 35702
 (13904) 2000 03 27.4 12 25.85 +04 09.4 17.5 -0.93 + 3.4 2.2/25.3 39024
 1996 PY₈ 2000 03 27.4 12 25.87 -07 57.9 17.7 -0.80 + 3.5 1.6/29.0 39172
 1998 XR₃ 2000 03 27.4 12 25.91 -07 09.5 17.9 -0.84 + 5.1 1.4/28.8 39548
 1990 SM₁₄ 2000 03 27.4 12 26.13 +02 05.7 17.1 -0.91 + 7.0 1.6/25.8 39515
 2000 DG₂ 2000 03 27.5 12 26.18 +01 51.6 19.0 -0.72 +10.4 1.6/25.7 39437
 2000 DN₃ 2000 03 27.5 12 26.20 +05 14.0 17.2 -0.94 + 2.0 2.9/25.2 39438
 1998 SG₁₀₇ 2000 03 27.5 12 26.39 -04 29.8 19.2 -0.94 + 5.9 0.6/28.1 35634
 1998 TD₅ 2000 03 27.5 12 26.42 +04 28.9 18.4 -0.92 + 5.3 2.5/25.2 39543
 1998 SH₂₂ 2000 03 27.5 12 26.45 -06 17.8 18.7 -1.06 + 4.3 1.3/28.6 39538
 1998 QX₁₀₆ 2000 03 27.6 12 26.56 +02 06.7 18.7 -1.05 + 3.8 1.8/26.2 39535
 1998 WK₂ 2000 03 27.6 12 26.57 -04 31.6 18.8 -0.87 + 6.2 0.5/28.1 39546
 1997 WQ₁₁ 2000 03 27.6 12 26.79 -01 04.8 16.8 -0.76 + 4.5 0.6/27.1 39530
 1989 SU 2000 03 27.6 12 26.81 -09 33.5 17.5 -0.91 + 5.2 2.1/29.7 39514
 1998 WQ₉ 2000 03 27.7 12 26.91 -06 45.5 19.9 -0.85 + 6.8 1.2/29.0 35726
 1997 WQ₁₅ 2000 03 27.7 12 26.94 -05 56.5 19.8 -0.69 + 5.2 0.7/28.7 34019
 1993 FY₂₇ 2000 03 27.7 12 27.11 -06 15.9 17.6 -0.98 + 5.9 1.2/28.8 39519
 1992 SC₂₁ 2000 03 27.8 12 27.29 +01 34.7 19.2 -0.78 + 5.1 1.3/26.3 34186
 1998 TN₁₀ 2000 03 27.8 12 27.69 +02 43.9 17.2 -1.04 + 3.4 2.6/26.2 39262
 (14045) 2000 03 27.9 12 27.63 -18 10.2 16.9 -0.97 + 6.2 6.0/02.0 39063
 1998 SK₄₈ 2000 03 27.9 12 27.68 -03 20.3 18.5 -0.92 + 4.7 0.1/28.0 39238

(13936)	2000 03 27.9	12 27.75 +31 43.9 16.8	-0.84 + 2.2	9.3/15.0	39033	1996 NG	2000 03 28.9	12 31.59 +05 48.7 18.9	-0.71 + 4.8	2.3/25.8	39526
1998 TF ₃₃	2000 03 27.9	12 27.77 -03 37.2 16.7	-0.87 + 9.4	0.2/28.1	39264	1992 BW ₃	2000 03 28.9	12 31.65 +04 45.8 19.3	-1.01 + 4.9	2.8/26.5	39517
1998 UY ₂₂	2000 03 27.9	12 27.85 +00 23.1 19.4	-1.00 + 5.3	1.1/26.9	39544	2000 AJ ₂₄₆	2000 03 28.9	12 31.67 -02 33.3 15.6	-1.11 - 0.4	0.3/28.8	39361
1991 VY ₂	2000 03 27.9	12 27.88 -14 53.9 17.5	-0.98 + 6.0	4.4/31.7	39517	1994 WN ₃	2000 03 29.0	12 31.73 +05 24.2 17.8	-0.85 + 6.4	2.7/26.1	39523
(10025)	2000 03 27.9	12 27.93 -04 38.5 16.7	-0.79 + 4.8	0.5/28.5	33864	2214 P-L	2000 03 29.0	12 31.75 -07 35.2 20.2	-0.88 + 5.0	1.4/30.3	38732
1998 SA ₇₃	2000 03 28.0	12 28.18 +02 34.9 18.1	-1.03 + 4.2	2.0/26.4	39540	1994 UW ₁	2000 03 29.0	12 31.81 -10 03.1 19.7	-0.84 +15.9	2.1/31.7	25084
1994 QJ	2000 03 28.0	12 28.38 +29 18.2 19.0	-0.93 + 7.7	9.6/15.4	25084	2237 T-2	2000 03 29.0	12 31.82 -04 53.9 18.6	-0.85 + 6.8	0.5/29.5	23988
1998 RA ₅₈	2000 03 28.0	12 28.45 -00 35.5 19.0	-0.94 + 6.9	0.9/27.3	39536	1998 XZ ₈₁	2000 03 29.0	12 31.82 -02 26.8 17.2	-0.70 + 8.3	0.3/28.7	39290
1999 AC ₃	2000 03 28.1	12 28.52 +15 09.1 18.8	-0.81 + 7.1	5.2/21.5	39549	1998 WL ₉	2000 03 29.0	12 31.86 -09 43.9 18.5	-0.78 + 4.1	2.0/31.1	39547
1997 RB ₉	2000 03 28.1	12 28.56 -07 37.4 18.1	-0.90 + 4.4	1.4/29.5	39529	1998 XN ₂₁	2000 03 29.0	12 31.90 +00 22.2 18.5	-0.71 + 4.7	0.9/27.8	39548
(9978)	2000 03 28.1	12 28.62 -17 48.1 17.5	-0.80 + 4.2	4.2/02.0	39510	2660 P-L	2000 03 29.0	12 32.00 -02 45.4 18.8	-0.75 + 5.6	0.2/28.8	31160
(13911)	2000 03 28.1	12 28.65 -02 12.9 16.2	-0.89 + 6.8	0.4/27.9	39026	1990 SK ₈	2000 03 29.0	12 32.02 +03 26.2 20.0	-0.89 + 6.0	2.2/26.9	23859
1981 ED ₁₅	2000 03 28.1	12 28.70 -08 31.5 18.2	-0.93 + 5.6	1.9/29.9	39511	1992 VL	2000 03 29.1	12 32.01 +09 22.8 18.6	-0.72 + 4.8	3.0/24.7	39518
(14043)	2000 03 28.2	12 28.92 +07 06.5 17.5	-1.05 + 4.9	4.1/25.2	39063	1997 TX ₁₈	2000 03 29.1	12 32.02 +01 01.2 18.6	-0.79 + 5.6	1.4/27.6	39530
1998 VN ₂₄	2000 03 28.2	12 29.14 +18 35.7 17.6	-0.95 + 2.3	7.2/21.6	34309	1998 SQ ₁₃₅	2000 03 29.1	12 32.15 +03 18.4 18.4	-1.05 + 4.8	2.6/27.1	35719
(9740)	2000 03 28.3	12 29.34 +03 17.5 17.2	-0.99 + 4.4	2.3/26.4	33197	4800 P-L	2000 03 29.1	12 32.15 -01 08.6 19.1	-0.93 + 6.9	0.8/28.4	39647
1998 YL ₃	2000 03 28.3	12 29.37 -03 03.5 18.4	-0.72 + 4.4	0.0/28.3	39291	2343 T-3	2000 03 29.1	12 32.23 -04 21.0 19.9	-0.78 + 4.7	0.2/29.4	30776
1998 SK ₁₂₈	2000 03 28.3	12 29.43 +00 10.4 18.9	-0.92 + 6.8	1.2/27.3	33759	1991 XF	2000 03 29.1	12 32.28 +07 09.3 17.6	-1.00 + 4.2	4.2/26.0	39150
1996 GA ₁₈	2000 03 28.3	12 29.44 -07 12.4 16.8	-0.77 + 9.1	1.6/29.8	39526	1998 WT ₃	2000 03 29.1	12 32.29 +10 10.5 18.2	-0.98 + 3.9	4.4/25.0	35725
1993 UZ ₆	2000 03 28.4	12 29.46 +04 38.3 17.9	-0.80 + 6.2	2.7/25.8	35689	1998 QD ₁₀₄	2000 03 29.2	12 32.41 +08 09.1 16.8	-0.85 + 7.5	4.5/25.2	39535
6647 P-L	2000 03 28.4	12 29.57 -00 51.9 17.9	-0.94 + 5.2	0.7/27.7	39647	1996 HN ₂₁	2000 03 29.2	12 32.47 +11 19.5 18.7	-0.91 + 2.6	4.5/24.7	39526
(13953)	2000 03 28.4	12 29.57 +15 08.6 17.2	-0.94 + 3.8	6.7/22.7	39038	1984 SL ₄	2000 03 29.2	12 32.58 -07 50.0 18.4	-1.08 + 4.7	1.7/30.5	38432
1991 PU ₂	2000 03 28.4	12 29.59 -20 40.8 18.8	-0.81 + 2.7	4.2/03.1	34287	3530 T-3	2000 03 29.3	12 32.79 -05 01.0 18.3	-0.78 + 5.0	0.4/29.8	39507
1997 PS	2000 03 28.4	12 29.62 -18 20.5 19.5	-0.89 + 3.8	4.3/02.2	35700	(10052)	2000 03 29.3	12 32.82 -04 28.6 17.7	-0.79 + 4.7	0.3/29.6	38749
(10376)	2000 03 28.4	12 29.84 +13 17.8 18.3	-0.91 + 3.4	4.7/23.2	34154	(14062)	2000 03 29.4	12 33.13 -01 07.1 16.8	-0.93 + 4.2	1.1/28.7	39068
2000 CS ₆₆	2000 03 28.4	12 29.90 -04 35.4 17.0	-1.09 + 2.3	0.6/28.9	39408	6631 P-L	2000 03 29.4	12 33.16 +01 52.7 19.0	-0.93 + 7.6	1.9/27.6	33384
1978 VS ₈	2000 03 28.5	12 29.92 -03 02.6 17.4	-0.86 + 6.4	0.1/28.5	39511	(9923)	2000 03 29.4	12 33.17 -03 07.1 17.7	-0.86 + 3.9	0.2/29.3	33653
1993 TL ₁₇	2000 03 28.5	12 29.98 -01 51.7 16.7	-0.69 +10.7	0.5/28.0	39520	2688 P-L	2000 03 29.4	12 33.17 -01 17.6 19.2	-0.75 + 5.1	0.7/28.7	39647
1998 XY ₁₆	2000 03 28.5	12 30.03 -00 13.8 17.8	-0.71 + 5.9	0.8/27.5	39548	1998 SP ₁₅₆	2000 03 29.4	12 33.20 -06 49.6 18.6	-0.96 + 6.2	1.2/30.5	39258
1989 SY ₁₃	2000 03 28.5	12 30.09 -24 43.7 17.1	-0.95 + 2.9	8.1/04.5	38754	1980 PC ₃	2000 03 29.4	12 33.20 +18 21.5 18.0	-0.92 + 3.3	6.2/22.2	39511
(14073)	2000 03 28.5	12 30.25 +01 01.5 16.5	-0.78 + 8.7	1.8/27.1	39071	1981 EQ ₄₇	2000 03 29.4	12 33.23 -01 05.0 18.5	-0.91 + 6.1	0.9/28.6	39512
3039 P-L	2000 03 28.6	12 30.20 -12 10.7 18.9	-0.79 + 5.7	2.4/31.6	33784	1991 PQ ₈	2000 03 29.4	12 33.45 -00 43.7 18.3	-0.76 + 5.1	0.8/28.5	39516
1998 XB ₅	2000 03 28.6	12 30.23 -02 07.6 18.0	-0.93 + 8.5	0.4/28.2	39548	1993 RV ₇	2000 03 29.5	12 33.46 -05 40.5 17.3	-0.93 + 3.7	0.7/30.1	39520
(9999)	2000 03 28.6	12 30.28 +01 40.8 17.1	-0.81 + 4.9	1.5/27.0	33670	1981 RR ₃	2000 03 29.5	12 33.50 -00 26.1 17.4	-0.94 + 8.1	1.1/28.5	39512
2000 CS ₉₄	2000 03 28.6	12 30.43 +03 03.5 17.2	-0.77 + 8.3	1.9/26.4	39431	(13947)	2000 03 29.5	12 33.68 +05 04.4 17.4	-0.93 + 4.7	2.9/26.9	39036
1002 T-2	2000 03 28.6	12 30.61 -03 19.8 18.4	-0.97 + 5.6	0.0/28.7	24236	1998 YH ₄	2000 03 29.5	12 33.84 +11 21.7 17.2	-0.96 + 8.0	6.0/24.3	39549
1998 SU ₃	2000 03 28.6	12 30.62 -02 14.9 19.4	-0.96 + 5.4	0.4/28.4	34592	2000 CN ₉₃	2000 03 29.6	12 33.85 +06 16.7 16.6	-0.94 + 6.8	4.2/26.3	39430
1978 PC ₃	2000 03 28.7	12 30.62 -10 42.3 17.9	-0.97 + 4.2	2.5/30.9	39511	1998 XY ₉₁	2000 03 29.6	12 33.93 -26 24.3 18.5	-0.77 + 5.7	6.3/07.0	35728
2137 P-L	2000 03 28.7	12 30.71 -08 17.6 21.2	-0.91 + 8.7	1.9/30.4	39494	1993 RK	2000 03 29.6	12 34.11 -12 49.3 18.3	-0.95 + 3.0	2.6/01.4	39520
1998 TO ₁₆	2000 03 28.7	12 30.75 -09 34.5 19.6	-0.94 + 7.7	2.2/30.8	35721	(10082)	2000 03 29.6	12 34.22 -05 59.7 18.2	-0.98 + 4.7	0.8/30.4	33877
1987 DN ₆	2000 03 28.8	12 30.91 -07 39.7 17.7	-0.89 + 5.5	1.6/30.2	39513	2000 CW ₁₀₂	2000 03 29.7	12 34.22 -01 32.3 16.9	-0.85 + 7.2	0.9/29.0	39434
1998 SX ₅₆	2000 03 28.8	12 31.08 -01 52.6 18.9	-0.97 + 5.2	0.5/28.4	39241	1989 AD ₇	2000 03 29.7	12 34.29 +08 36.3 17.4	-0.72 + 6.3	3.4/25.4	39514
2175 T-1	2000 03 28.8	12 31.15 -01 14.1 17.0	-0.86 + 8.9	0.8/28.1	39647	(13543)	2000 03 29.7	12 34.30 +12 39.9 16.1	-0.82 + 7.0	7.0/23.9	38327
(10573)	2000 03 28.8	12 31.18 +03 13.6 17.7	-0.81 +11.8	2.3/26.4	34455	1994 VJ	2000 03 29.7	12 34.31 -05 44.1 18.6	-0.91 + 5.6	0.7/30.4	39522
(14194)	2000 03 28.8	12 31.19 -15 38.9 15.7	-0.87 + 3.2	4.6/01.6	39107	1968 OB	2000 03 29.7	12 34.49 -25 07.5 18.3	-0.76 + 3.9	5.1/06.2	34171
1998 WR ₁₂	2000 03 28.8	12 31.30 -12 57.9 19.7	-0.96 + 6.7	3.4/01.0	34030	1987 UR	2000 03 29.8	12 34.66 -01 21.8 18.2	-0.78 + 3.8	0.6/29.1	39513
1997 TM ₁	2000 03 28.8	12 31.36 -03 14.0 18.3	-0.93 + 6.4	0.1/28.8	39185	1993 SG ₁	2000 03 29.8	12 34.79 +01 20.1 18.3	-0.79 + 8.2	1.4/28.1	39520
1998 RJ ₄	2000 03 28.9	12 31.33 +01 15.1 18.1	-0.89 +22.3	1.9/27.0	39536	1998 SO ₂₇	2000 03 29.8	12 34.90 +26 17.1 18.7	-1.21 + 0.5	9.8/21.2	33757
2000 DG ₁	2000 03 28.9	12 31.41 +01 41.7 18.0	-0.84 + 5.3	1.6/27.3	39436	1998 SG ₇₄	2000 03 29.9	12 35.02 +03 10.6 18.3	-0.97 + 4.7	2.6/27.8	39540
1998 UE ₂₃	2000 03 28.9	12 31.59 -06 29.5 17.8	-1.07 + 4.8	1.1/29.9	39270	1990 QE ₅	2000 03 29.9	12 35.12 -05 51.4 17.3	-1.03 + 3.5	0.8/30.5	39515
(11332)	2000 03 28.9	12 31.59 -04 13.4 17.4	-0.84 + 6.7	0.3/29.2	39510	1998 SH ₁₂₄	2000 03 29.9	12 35.24 -00 06.3 18.2	-1.01 + 4.0	1.3/28.9	35719

2000 MAR. 20

M.P.C. 39691

2000 EH ₃₄	2000 03 29.9	12 35.28 +17 47.3 16.5	-1.01 + 0.9	7.6/23.9	39490
1991 PO ₁₂	2000 03 29.9	12 35.30 +02 29.0 17.2	-0.95 + 7.6	2.3/27.9	39516
1999 YH ₇	2000 03 30.0	12 35.29 +14 23.7 16.5	-0.96 + 3.8	7.8/24.3	39566
1991 GA ₁₀	2000 03 30.0	12 35.31 +23 32.8 16.8	-0.81 + 6.3	9.6/19.2	33931
6511 P-L	2000 03 30.0	12 35.41 -03 33.4 20.9	-0.91 + 5.7	0.1/29.9	27116
1998 ST ₁₃₁	2000 03 30.0	12 35.42 -14 46.4 15.6	-0.98 + 4.6	5.3/02.4	39541
1998 SA ₂₅	2000 03 30.0	12 35.47 +04 50.3 16.6	-0.91 + 7.8	3.4/27.1	39539
1998 VG ₆	2000 03 30.0	12 35.49 -04 00.1 18.9	-0.98 + 4.2	0.1/30.1	35724
1998 SE ₁₀₂	2000 03 30.0	12 35.49 -02 24.1 17.5	-1.05 + 4.2	0.6/29.6	39249
(9850)	2000 03 30.0	12 35.54 -12 42.4 17.6	-0.93 + 6.9	3.2/02.0	33457
1998 QV ₉₁	2000 03 30.0	12 35.61 -02 53.6 18.5	-0.92 + 6.6	0.3/29.8	39535
1990 VK ₄	2000 03 30.1	12 35.67 +03 04.1 18.8	-0.86 + 6.5	2.2/27.8	33743
1998 XR ₉	2000 03 30.1	12 35.75 -11 09.5 15.9	-0.85 + 7.7	3.0/01.6	38798
(13924)	2000 03 30.1	12 35.89 +07 03.7 17.1	-0.87 + 7.5	3.7/26.4	39030
1998 VC ₄₄	2000 03 30.1	12 35.90 -02 12.1 17.8	-0.86 + 7.0	0.5/29.6	39546
1997 RF	2000 03 30.1	12 35.95 +07 13.9 17.4	-0.66 +11.0	3.2/25.8	39529
(13898)	2000 03 30.1	12 36.09 +05 36.8 16.6	-0.93 + 6.4	4.0/27.1	38427
1998 XO ₁₁	2000 03 30.2	12 36.06 -04 52.4 17.3	-0.82 + 4.7	0.3/30.5	39287
(13925)	2000 03 30.2	12 36.19 +09 05.8 17.1	-0.72 + 6.9	3.8/25.5	39030
4310 T-3	2000 03 30.2	12 36.27 +05 57.2 16.7	-1.00 + 4.3	4.3/27.2	39649
1998 SK ₁₅₁	2000 03 30.2	12 36.34 -01 41.1 17.8	-0.98 + 4.6	0.9/29.6	39258
(10245)	2000 03 30.3	12 36.37 -05 43.2 16.2	-0.74 + 8.9	0.6/31.0	33917
1998 XR ₄	2000 03 30.3	12 36.43 -11 42.7 17.6	-0.87 + 4.4	2.5/01.8	39286
(13933)	2000 03 30.3	12 36.71 +04 25.9 16.9	-0.88 + 3.6	2.6/27.8	39033
1996 HW ₈	2000 03 30.4	12 36.89 -08 10.7 17.3	-0.81 + 7.6	1.3/31.9	28863
1998 ST ₅₂	2000 03 30.4	12 36.89 -09 09.1 17.2	-0.84 + 7.0	2.1/01.2	39239
(13614)	2000 03 30.4	12 37.11 +15 30.3 16.2	-1.04 - 0.4	8.1/25.3	38347
1997 VV	2000 03 30.4	12 37.16 -18 27.7 16.7	-0.71 + 6.0	3.9/04.6	33558
1991 RX ₂₁	2000 03 30.5	12 37.13 +06 43.6 17.6	-0.67 + 7.1	2.8/26.6	39516
1998 TF ₆	2000 03 30.5	12 37.46 +00 34.5 18.7	-0.93 + 5.3	1.6/29.1	34305
1994 AN ₉	2000 03 30.5	12 37.51 +32 55.5 17.4	-0.79 + 4.5	10.2/15.8	39521
1989 US ₁	2000 03 30.6	12 37.75 +04 57.2 18.0	-0.92 + 2.8	2.6/28.0	39514
1997 SK ₂₅	2000 03 30.6	12 37.87 +00 26.1 18.0	-0.71 + 7.0	1.3/29.1	39530
1995 EP ₁	2000 03 30.7	12 38.00 -12 11.8 15.8	-0.97 + 0.6	3.0/01.9	39523
1991 RT ₃	2000 03 30.7	12 38.19 -08 57.0 17.8	-0.94 + 7.6	1.7/01.4	39516
1995 AE ₄	2000 03 30.8	12 38.22 +05 01.7 19.0	-0.86 + 5.2	2.7/27.9	39523
1997 WC ₃₄	2000 03 30.8	12 38.46 -01 19.4 18.3	-0.69 + 4.7	0.7/29.9	39530
(10211)	2000 03 30.8	12 38.52 -02 45.7 16.2	-0.90 + 7.2	0.6/30.4	33909
1993 TL ₃₂	2000 03 30.8	12 38.54 +00 05.6 18.4	-0.83 + 5.5	1.3/29.5	39520
1997 SN ₁₁	2000 03 30.9	12 38.67 -03 53.8 20.5	-0.74 + 4.7	6.5/11.0	33505
(11350)	2000 03 30.9	12 38.82 -02 28.9 17.5	-0.76 + 5.5	0.5/30.4	35578
1993 TO ₃₆	2000 03 30.9	12 38.92 -27 38.7 17.9	-1.04 + 1.9	7.0/06.9	35689
1996 GK	2000 03 31.0	12 39.21 -04 14.9 18.4	-0.87 + 6.4	0.0/31.1	39171
1992 GV ₃	2000 03 31.0	12 39.29 +03 22.9 16.7	-1.00 + 1.9	2.9/29.0	39518
1984 QU	2000 03 31.1	12 39.30 -07 03.8 18.9	-1.01 + 4.8	0.9/32.0	34003
1999 CY ₈₂	2000 03 31.1	12 39.36 -07 19.9 18.3	-0.79 + 3.1	0.8/01.1	39550
1997 RJ ₁₀	2000 03 31.1	12 39.58 -03 02.6 17.1	-0.77 + 5.5	0.4/30.8	39529
1998 TQ ₃	2000 03 31.2	12 39.65 +06 25.4 17.9	-1.06 + 2.3	3.6/28.2	39260
6061 P-L	2000 03 31.2	12 39.67 -05 25.3 18.4	-0.98 + 5.3	0.4/31.6	39497
1995 WA ₈	2000 03 31.2	12 39.77 -06 03.1 18.1	-1.07 + 4.4	0.7/31.7	39524
1975 SM ₁	2000 03 31.2	12 39.80 -01 30.3 20.0	-0.89 + 6.4	0.9/30.3	34001

1992 VQ	2000 03 31.2	12 39.81 -01 58.7 17.9	-0.73 + 4.8	0.6/30.5	39518
(14188)	2000 03 31.2	12 39.86 -18 13.8 17.4	-0.84 + 3.5	4.5/04.7	39105
(9746)	2000 03 31.3	12 40.03 +01 22.3 17.5	-1.00 + 6.5	2.0/29.5	33198
1988 RZ ₂	2000 03 31.3	12 40.08 -04 01.1 17.1	-0.95 + 3.7	0.1/31.2	39513
1993 FS ₁₃	2000 03 31.3	12 40.09 +03 21.3 16.4	-1.03 + 4.6	2.9/29.0	39519
1999 AZ ₇	2000 03 31.3	12 40.11 -34 43.3 17.0	-1.02 - 0.4	8.7/09.4	35080
1998 QG ₁₀₀	2000 03 31.3	12 40.12 +04 11.5 19.9	-0.92 + 7.8	3.0/28.5	32987
1998 WX ₁₀	2000 03 31.3	12 40.15 -02 03.3 19.1	-0.91 + 6.2	0.7/30.6	35726
1996 BA	2000 03 31.3	12 40.27 -13 13.1 18.0	-1.04 + 4.6	3.2/03.0	33750
1998 SN ₆₇	2000 03 31.3	12 40.30 +11 35.2 17.5	-1.07 - 0.5	6.1/27.3	39540
4258 T-2	2000 03 31.4	12 40.41 +00 27.6 18.0	-0.87 + 6.1	1.8/29.8	39648
1994 TQ ₁₆	2000 03 31.4	12 40.43 +00 38.5 18.3	-1.02 + 3.9	1.8/29.9	39522
4316 T-3	2000 03 31.4	12 40.44 +03 14.8 17.8	-0.92 + 4.2	2.7/29.1	33537
1991 XC	2000 03 31.4	12 40.46 -13 08.3 16.6	-1.39 - 1.8	3.6/02.4	39517
1996 BX ₄	2000 03 31.4	12 40.47 +03 39.9 18.1	-0.95 + 5.6	2.8/28.9	39169
1998 QK ₆₃	2000 03 31.4	12 40.59 -07 33.6 18.8	-0.99 + 8.6	1.2/01.5	35631
1184 T-2	2000 03 31.4	12 40.60 -01 35.5 17.8	-0.84 + 7.1	1.0/30.5	39501
1998 YK ₁	2000 03 31.4	12 40.61 +00 50.4 17.8	-0.78 + 5.4	1.6/29.7	39549
1998 VH ₂₉	2000 03 31.4	12 40.62 +16 51.2 17.9	-0.93 + 2.7	6.9/24.9	34309
(10492)	2000 03 31.4	12 40.62 +06 24.8 17.1	-0.71 + 6.7	3.1/27.6	39510
1998 SD ₁₂₃	2000 03 31.4	12 40.75 -04 02.7 17.6	-1.04 + 4.5	0.1/31.4	39541
1989 GB	2000 03 31.5	12 40.75 +10 15.8 16.4	-1.13 - 0.1	6.1/27.7	39514
(13565)	2000 03 31.5	12 40.78 +15 33.0 17.3	-0.82 + 2.3	5.7/25.2	38333
1981 EJ ₃₆	2000 03 31.6	12 41.13 -04 52.9 19.4	-0.93 + 5.3	0.1/31.7	35678
1994 CF ₂	2000 03 31.6	12 41.42 -01 02.2 16.9	-0.74 + 5.0	1.1/30.5	39521
2000 EK ₄₁	2000 03 31.6	12 41.42 -02 52.8 17.8	-0.93 + 2.0	0.5/31.2	39492
1979 MZ ₈	2000 03 31.7	12 41.48 -17 28.6 19.5	-0.83 + 5.2	3.5/05.0	34173
1997 RE ₃	2000 03 31.7	12 41.51 -10 58.4 18.1	-0.77 + 4.2	1.8/02.8	34016
(14283)	2000 03 31.7	12 41.53 -04 39.9 17.2	-0.82 + 7.8	0.1/31.8	39131
(13944)	2000 03 31.7	12 41.56 +05 13.5 17.0	-0.93 + 5.4	3.3/28.6	39035
(11759)	2000 03 31.7	12 41.76 -05 24.1 18.6	-0.93 + 5.7	0.3/01.0	35900
(11621)	2000 03 31.7	12 41.77 -15 46.4 18.5	-0.79 + 2.6	2.9/04.3	35863
1997 QW ₃	2000 03 31.7	12 41.83 -02 41.0 20.9	-0.71 + 4.6	0.4/31.2	38774
1998 BX ₁₃	2000 03 31.8	12 41.97 +03 02.2 16.9	-0.82 + 5.8	2.4/29.3	39530
1993 FC ₇	2000 03 31.8	12 41.99 +00 04.1 18.9	-1.02 + 4.4	1.6/30.5	33484
1993 RS	2000 03 31.8	12 41.99 -25 10.6 16.1	-1.82 - 6.7	10.1/04.1	39520
1997 SM ₁	2000 03 31.8	12 42.02 -07 38.8 15.4	-0.72 +11.6	1.1/02.0	39529
1991 VQ ₁	2000 03 31.8	12 42.03 +06 39.0 17.3	-0.99 + 5.0	3.7/28.4	39517
(13567)	2000 03 31.8	12 42.04 +12 30.1 17.0	-0.75 + 4.5	4.6/26.0	38334
1998 SK ₁₀₇	2000 03 31.8	12 42.05 -04 45.0 19.5	-0.93 + 7.7	0.1/31.9	35719
1992 CG ₃	2000 03 31.8	12 42.12 -01 42.2 16.8	-0.87 + 8.3	1.0/30.9	39517
1998 WQ ₃	2000 03 31.8	12 42.17 -25 53.2 16.4	-0.91 + 5.3	7.9/08.0	35725
1998 VV ₆	2000 03 31.8	12 42.25 -03 37.3 18.4	-0.95 + 6.3	0.3/31.6	35724
1999 BY ₂₅	2000 03 31.8	12 42.28 -21 40.9 17.4	-0.88 + 1.5	4.8/06.0	39550
1995 YM ₁	2000 03 31.8	12 42.29 -16 48.4 17.9	-0.98 + 6.5	4.8/05.0	30784
1997 SL ₁₀	2000 03 31.9	12 42.23 -03 52.5 18.1	-0.86 + 6.8	0.2/31.7	39184
1995 FP ₁₄	2000 03 31.9	12 42.28 +01 07.2 19.0	-0.78 + 4.7	1.6/30.1	34012
(10036)	2000 03 31.9	12 42.30 -10 27.3 17.7	-0.93 + 5.2	1.9/02.8	33866
2076 P-L	2000 03 31.9	12 42.40 -08 36.2 18.3	-0.93 + 7.9	1.3/02.3	33784
1998 TD ₃₂	2000 03 31.9	12 42.53 -09 52.3 17.0	-0.99 + 4.1	2.2/02.5	39543
1990 QK ₉	2000 03 31.9	12 42.54 +05 46.0 18.9	-0.89 + 8.1	3.9/28.4	31378

1998 WH ₅	2000 04 01.0	12 42.59 +05 31.1 17.7	-0.65 +12.2	3.1/28.0	39547
1998 XB ₅₁	2000 04 01.0	12 42.61 -17 39.6 17.5	-0.83 + 3.4	4.1/05.2	39548
1137 T-1	2000 04 01.0	12 42.63 -10 23.4 17.4	-1.04 + 6.1	2.2/02.8	39647
(11289)	2000 04 01.0	12 42.69 -00 06.2 18.0	-0.76 + 4.7	1.3/30.6	39510
1998 YJ ₁₀	2000 04 01.0	12 42.78 -23 08.1 19.5	-0.89 + 4.3	5.3/07.1	35729
1998 SE ₁₁₁	2000 04 01.0	12 43.01 -06 03.4 18.5	-0.94 + 6.6	0.5/01.6	39541
1994 CQ ₁₃	2000 04 01.1	12 42.96 +01 04.7 17.4	-0.75 + 3.8	1.5/30.3	39521
1996 BL ₂	2000 04 01.1	12 42.99 -08 48.1 18.3	-0.95 + 7.1	1.4/02.5	39525
1992 OE	2000 04 01.1	12 43.09 -38 57.7 18.7	-1.22 - 1.4	10.2/10.4	34009
1988 NU	2000 04 01.1	12 43.22 -09 15.3 18.5	-0.85 + 6.3	1.4/02.7	30894
1992 WK ₁	2000 04 01.1	12 43.29 +21 12.2 17.6	-0.79 + 2.5	6.4/23.6	39518
(14199)	2000 04 01.1	12 43.37 +16 55.0 17.4	-0.94 + 4.6	6.7/25.1	39108
1937 UD	2000 04 01.2	12 43.34 +01 19.7 18.6	-1.09 + 4.5	2.0/30.5	39510
1997 SS ₄	2000 04 01.2	12 43.40 -08 53.8 18.3	-0.81 + 5.7	1.3/02.6	34874
1998 WM ₉	2000 04 01.2	12 43.60 +05 56.5 18.5	-0.95 + 3.3	3.6/29.1	35726
(14291)	2000 04 01.2	12 43.66 -12 14.1 17.2	-1.11 + 2.0	2.8/03.3	39134
1993 TV ₁₂	2000 04 01.3	12 43.75 +04 20.2 17.1	-0.91 + 2.6	3.0/29.7	39520
1998 VC ₂₃	2000 04 01.3	12 43.82 -07 09.8 21.3	-0.84 + 5.7	0.7/02.1	34309
1981 EX ₃₁	2000 04 01.3	12 44.02 -02 32.0 17.6	-0.77 + 6.3	0.6/31.6	39512
1991 RR ₁	2000 04 01.3	12 44.06 -13 23.9 16.8	-0.73 + 6.2	2.4/04.4	39516
1992 WZ ₁	2000 04 01.3	12 44.09 +02 45.4 17.7	-0.81 + 2.8	2.1/30.1	39518
1996 HO ₁₄	2000 04 01.4	12 44.09 -01 00.0 17.8	-0.90 + 4.5	1.4/31.3	39171
1998 RC ₇₂	2000 04 01.4	12 44.10 -02 55.5 19.0	-1.03 + 6.1	0.7/31.9	33352
1981 EW ₁₃	2000 04 01.4	12 44.11 -08 06.0 17.7	-0.91 + 5.9	1.4/02.5	33332
1997 TM ₁₈	2000 04 01.4	12 44.21 +00 50.7 16.5	-1.03 + 1.7	2.1/30.9	39530
1986 RF ₃	2000 04 01.4	12 44.30 -04 04.3 17.8	-0.92 + 6.7	0.2/01.2	39513
1984 WJ ₁	2000 04 01.5	12 44.53 +02 50.2 16.8	-1.04 + 3.2	2.6/30.4	39512
1994 PE ₃₅	2000 04 01.6	12 44.89 -03 04.0 18.3	-0.91 + 6.9	0.6/01.1	39522
1990 RS ₆	2000 04 01.6	12 45.20 -09 54.4 16.9	-1.02 + 2.6	2.1/03.1	39515
(14048)	2000 04 01.7	12 45.19 -02 32.6 16.5	-0.96 + 5.9	1.0/32.0	39064
1986 WC ₁	2000 04 01.7	12 45.37 -02 03.2 19.0	-0.72 + 4.2	0.7/31.8	20500
1997 SR ₁₀	2000 04 01.7	12 45.47 -08 07.3 17.1	-1.07 + 0.8	1.2/02.6	39184
(13990)	2000 04 01.8	12 45.55 -12 44.1 17.5	-1.10 + 3.4	3.3/04.1	39048
1998 SL ₄₃	2000 04 01.8	12 45.57 -06 23.1 20.3	-0.95 + 6.5	0.5/02.3	39237
1998 SN ₄₈	2000 04 01.8	12 45.74 -05 13.1 17.9	-0.90 + 5.0	0.1/02.0	39539
1994 PU ₃₂	2000 04 01.8	12 45.76 -07 22.8 17.2	-0.91 + 8.1	1.0/02.7	39522
1997 SL	2000 04 01.8	12 45.80 -06 09.1 20.3	-0.77 + 5.2	0.3/02.3	31011
1998 WC ₂₀	2000 04 01.8	12 45.81 -16 20.1 18.2	-0.83 + 6.0	3.5/05.7	35727
1988 CV ₄	2000 04 01.8	12 45.81 -00 27.3 17.9	-0.66 + 8.2	1.1/31.2	39513
1993 OP ₃	2000 04 01.9	12 46.02 -11 09.4 17.4	-0.93 + 4.8	2.2/03.9	39520
(10223)	2000 04 01.9	12 46.12 -02 53.3 16.4	-0.77 + 4.3	0.7/01.3	38750
1998 VW ₃₀	2000 04 02.0	12 46.34 -05 37.7 18.2	-1.00 + 5.6	0.2/02.2	39275
1998 VA ₁₅	2000 04 02.0	12 46.34 -07 29.1 17.9	-0.87 + 6.0	0.9/02.8	39545
3370 T-2	2000 04 02.0	12 46.56 -03 09.6 18.6	-0.92 + 4.4	0.6/01.5	34272
1989 CY ₂	2000 04 02.0	12 46.62 -09 19.0 18.4	-0.93 + 8.0	1.6/03.5	33067
1998 YD ₁₀	2000 04 02.1	12 46.71 +00 12.1 17.9	-0.79 + 4.8	1.6/31.4	39549
1995 YV	2000 04 02.1	12 46.72 +06 29.5 18.2	-0.97 + 5.7	4.4/29.5	39524
1993 QU ₄	2000 04 02.1	12 46.77 +04 54.1 17.5	-0.81 + 8.9	3.3/29.6	39520
1993 FV ₇	2000 04 02.1	12 46.88 +00 33.6 16.8	-1.06 + 3.4	2.2/31.6	39519
1982 VB ₄	2000 04 02.2	12 46.96 +00 18.8 16.8	-0.92 + 4.1	2.2/31.6	39512
1994 TJ ₂	2000 04 02.2	12 47.06 -00 38.3 18.1	-0.91 + 7.4	1.5/31.8	39522

1997 TW ₉	2000 04 02.2	12 47.07 -00 40.4 19.2	-0.74 + 4.5	1.2/31.8	35702
1981 EP ₄₁	2000 04 02.2	12 47.17 -06 20.5 19.2	-0.95 + 5.1	0.4/02.6	39512
(9944)	2000 04 02.2	12 47.19 -00 01.0 17.0	-0.80 + 5.3	1.6/31.6	33658
1998 SH ₂₇	2000 04 02.2	12 47.39 +04 57.5 19.9	-0.92 + 5.5	3.3/30.1	35717
1996 BQ ₁	2000 04 02.3	12 47.43 +00 00.6 19.0	-1.00 + 4.8	1.9/31.8	39525
1997 KO ₂	2000 04 02.3	12 47.55 +06 33.1 18.1	-0.98 + 5.3	4.3/29.7	39528
1999 AP ₉	2000 04 02.3	12 47.63 -05 02.8 16.8	-0.77 + 5.4	0.0/02.4	39295
1997 UE ₂₅	2000 04 02.3	12 47.68 -00 05.4 18.3	-0.72 + 4.6	1.3/31.7	39530
1998 RP ₇₁	2000 04 02.4	12 47.67 -03 16.7 18.0	-1.07 + 4.6	0.7/01.9	39537
6309 P-L	2000 04 02.4	12 47.69 -05 00.9 18.2	-0.83 + 8.3	0.0/02.4	39647
1981 EJ ₄₀	2000 04 02.4	12 47.70 -35 28.5 19.4	-1.15 0.0	7.6/11.3	34003
1997 UW ₁₈	2000 04 02.4	12 47.93 +06 14.8 17.2	-0.73 + 3.0	3.1/29.8	39530
(10131)	2000 04 02.4	12 47.99 -07 29.3 18.9	-0.94 + 6.8	0.8/03.2	33888
(13914)	2000 04 02.5	12 48.33 +16 27.5 17.6	-0.89 + 5.2	6.3/26.0	39027
1997 UW ₁₄	2000 04 02.6	12 48.41 +01 03.5 18.4	-0.75 + 3.6	1.7/31.6	39530
(10217)	2000 04 02.6	12 48.42 -11 21.9 17.0	-0.95 + 2.7	1.8/04.4	33910
1993 TY ₃₄	2000 04 02.6	12 48.55 -02 30.3 18.9	-0.92 + 4.5	0.9/01.8	27557
1992 RF ₅	2000 04 02.6	12 48.59 -04 04.4 17.4	-0.79 + 5.7	0.4/02.3	39518
1107 T-3	2000 04 02.6	12 48.62 -20 07.4 17.2	-0.79 + 6.7	4.5/07.8	39648
1998 UA ₁₅	2000 04 02.6	12 48.78 +02 29.0 17.4	-0.99 + 3.5	3.1/31.4	39267
1998 SC ₅₅	2000 04 02.6	12 48.83 +00 02.1 18.1	-0.89 + 8.9	1.8/31.9	39539
(13529)	2000 04 02.7	12 48.94 -13 04.1 15.9	-1.03 + 4.8	3.4/05.1	38324
1997 OG ₂	2000 04 02.8	12 49.22 -04 59.2 19.4	-0.94 + 6.8	0.1/02.7	30788
1995 BY ₂	2000 04 02.8	12 49.25 +15 57.2 17.1	-0.83 + 5.3	6.4/26.6	39523
(9938)	2000 04 02.8	12 49.28 +01 50.9 16.4	-1.06 + 6.4	2.9/31.6	33657
3050 P-L	2000 04 02.9	12 49.52 -16 55.4 18.9	-0.80 + 3.6	3.2/06.6	34564
1979 OG ₈	2000 04 02.9	12 49.61 +24 30.1 20.9	-0.90 + 6.2	8.2/23.0	23856
1998 VY ₃₄	2000 04 02.9	12 49.67 +05 51.9 18.5	-0.94 + 6.0	3.7/30.4	39276
1998 WQ ₁₃	2000 04 02.9	12 49.89 -05 05.0 18.9	-0.97 + 5.0	0.1/02.9	35726
(9990)	2000 04 02.9	12 49.93 -03 56.3 17.3	-0.79 + 5.6	0.4/02.5	33668
2000 CM ₅₉	2000 04 03.0	12 49.86 -03 40.8 16.5	-1.08 + 2.8	0.7/02.5	39402
1998 UQ ₇	2000 04 03.0	12 49.90 +07 46.9 18.1	-1.04 + 0.6	4.9/30.5	39266
1998 XH ₅	2000 04 03.0	12 49.94 +13 58.8 17.2	-0.73 + 4.7	5.6/27.3	34311
1998 YP ₁₂	2000 04 03.0	12 49.95 -08 07.5 17.2	-0.77 + 4.6	0.8/03.9	39549
2000 DH ₁₆	2000 04 03.0	12 50.05 -06 10.0 16.1	-1.06 + 3.0	0.4/03.3	39445
(9957)	2000 04 03.0	12 50.20 -10 55.0 16.8	-0.93 + 8.4	2.0/04.9	33661
1981 QW ₂	2000 04 03.0	12 50.22 -02 05.0 17.4	-1.06 + 5.1	1.3/02.1	39512
1998 UB ₂₃	2000 04 03.0	12 50.24 -01 10.9 18.4	-0.99 + 4.7	1.5/01.8	39544
1997 SW ₉	2000 04 03.1	12 50.34 -16 49.9 17.7	-0.74 + 6.9	3.5/07.2	39529
(14091)	2000 04 03.1	12 50.35 +15 58.6 18.4	-0.89 + 4.1	6.4/27.1	39077
1993 FQ ₄₈	2000 04 03.1	12 50.42 -07 04.6 17.2	-1.05 + 3.7	0.7/03.6	39156
(9723)	2000 04 03.1	12 50.54 -14 08.9 16.8	-1.08 + 5.0	3.5/05.7	33193
2000 EV ₂₆	2000 04 03.2	12 50.75 +01 58.2 16.3	-0.88 +24.0	3.1/31.1	39488
(14007)	2000 04 03.2	12 50.78 -01 10.8 15.7	-0.79 + 7.2	1.8/01.8	39052
1998 TO ₃₄	2000 04 03.2	12 50.78 -02 23.4 18.1	-0.85 + 7.5	1.1/02.2	39265
1998 VY ₂₅	2000 04 03.2	12 50.86 -02 45.5 17.9	-0.99 + 4.5	1.1/02.5	34028
1998 VB ₁₃	2000 04 03.2	12 50.92 -04 11.3 18.8	-0.96 + 6.4	0.4/02.9	39545
1997 UC ₁₅	2000 04 03.2	12 50.93 -03 57.8 19.0	-0.71 + 4.6	0.4/02.8	34298
(11261)	2000 04 03.2	12 50.96 -02 18.5 17.7	-0.78 + 5.3	0.9/02.2	35557
1997 MW ₆	2000 04 03.3	12 51.08 -06 08.7 19.7	-0.86 + 8.6	0.2/03.6	34015
1997 WB ₃₃	2000 04 03.3	12 51.11 -07 58.2 18.6	-0.67 + 4.7	0.6/04.2	39530

2000 MAR. 20

M.P.C. 39693

1979 MM ₆	2000 04 03.3	12 51.13	-09 56.9	18.3	-0.73	+	5.7	1.5/04.8	39511	(14204)	2000 04 04.4	12 55.19	+10 48.2	17.0	-0.75	+	5.7	4.9/29.6	39109
1981 EG ₂₁	2000 04 03.3	12 51.21	-00 44.8	18.6	-0.66	+	5.2	1.2/01.7	39511	(10381)	2000 04 04.4	12 55.21	-16 17.3	18.0	-0.89	+	3.6	3.0/07.6	34155
(9774)	2000 04 03.3	12 51.22	-06 04.0	17.6	-0.89	+	5.4	0.2/03.5	33205	1990 RA ₈	2000 04 04.4	12 55.26	-06 29.3	19.4	-0.95	+	5.1	0.2/04.6	33544
1979 MM ₁	2000 04 03.3	12 51.23	+16 03.8	18.3	-0.70	+	5.5	5.5/26.5	39511	1992 UP ₆	2000 04 04.4	12 55.27	-13 13.6	17.2	-0.72	+	6.9	1.9/07.0	39518
1997 RN ₁	2000 04 03.4	12 51.35	-09 53.9	20.2	-0.90	+	5.3	1.3/04.8	30680	1991 RE ₂	2000 04 04.4	12 55.34	-13 40.0	17.5	-0.98	+	6.6	2.8/06.9	39516
1997 LF	2000 04 03.4	12 51.40	+00 39.3	20.6	-0.95	+	8.6	2.2/01.4	32967	1998 XY ₁₄	2000 04 04.4	12 55.36	+26 19.9	17.1	-1.01	+	1.2	12.5/24.4	34032
1997 UA ₇	2000 04 03.4	12 51.41	+02 30.6	18.9	-0.74	+	3.7	1.8/31.8	33958	1981 EP ₃₁	2000 04 04.4	12 55.39	-05 23.7	19.1	-0.99	+	4.6	0.2/04.3	26921
(9954)	2000 04 03.4	12 51.47	-08 18.1	17.7	-0.90	+	2.9	0.9/04.3	33660	1998 SA ₁₂₉	2000 04 04.5	12 55.35	-01 47.3	19.1	-0.79	+	9.4	1.3/03.0	35719
1998 RK ₄₉	2000 04 03.4	12 51.59	-01 36.6	17.4	-0.94	+	8.1	1.5/02.2	39536	1998 QR ₉₁	2000 04 04.5	12 55.47	-04 54.0	18.5	-1.01	+	6.3	0.4/04.2	38485
1997 QB	2000 04 03.5	12 51.78	-13 33.0	19.3	-0.86	+	5.7	2.6/06.1	33501	1990 TN ₃	2000 04 04.5	12 55.73	-00 13.7	16.6	-1.55	-	3.2	2.6/03.5	39515
1998 XZ ₄₉	2000 04 03.5	12 51.80	+09 50.1	18.4	-0.86	+	2.9	4.5/29.8	39289	1993 TV ₂₇	2000 04 04.6	12 55.72	-01 40.4	17.8	-0.84	+	5.1	1.4/03.2	33486
(10053)	2000 04 03.5	12 51.98	-03 17.3	16.3	-0.93	+	8.3	0.9/02.8	33870	1985 QF ₁	2000 04 04.6	12 55.72	-27 19.8	17.0	-0.97	+	4.6	7.3/11.7	35679
1999 CM ₁₃₆	2000 04 03.5	12 52.02	-16 35.3	18.2	-0.78	+	3.6	3.3/07.1	39550	1998 UU ₆	2000 04 04.6	12 55.74	+12 36.1	18.3	-0.94	+	3.1	5.5/29.9	39265
2000 EY	2000 04 03.5	12 52.03	-06 18.6	17.7	-1.01	+	5.1	0.3/03.8	39482	1997 RZ	2000 04 04.6	12 55.74	-13 13.5	17.7	-0.85	+	4.6	2.4/06.9	35701
(13390)	2000 04 03.5	12 52.06	+08 56.3	17.4	-0.81	+	7.6	4.4/29.5	37592	1093 T-2	2000 04 04.6	12 55.86	-08 57.3	18.6	-1.05	+	3.6	1.1/05.5	33384
1998 SW ₇₄	2000 04 03.6	12 52.09	+02 59.0	17.1	-1.02	+	3.3	3.3/01.2	38063	1996 HM ₁₁	2000 04 04.6	12 55.96	-05 36.4	17.6	-0.83	+	6.7	0.1/04.5	39526
(10252)	2000 04 03.6	12 52.21	-04 20.3	16.7	-0.82	+	4.5	0.4/03.2	39510	(14190)	2000 04 04.6	12 56.01	+01 25.9	17.2	-0.78	+	4.5	2.3/02.3	39106
1998 SJ ₁₆₂	2000 04 03.6	12 52.45	-07 20.9	20.3	-0.91	+	7.0	0.5/04.2	35720	(10451)	2000 04 04.6	12 56.07	-08 21.2	16.6	-0.96	+	1.9	0.8/05.3	38750
1996 KC ₁	2000 04 03.7	12 52.53	+11 20.1	18.4	-0.75	+	9.0	6.1/28.3	39172	1998 VT ₃₀	2000 04 04.7	12 56.23	-13 50.5	17.9	-1.03	+	6.3	2.8/07.2	39546
1998 SU ₁₅₄	2000 04 03.7	12 52.58	-13 49.0	18.1	-0.92	+	6.1	2.9/06.4	33046	1996 AK ₁₀	2000 04 04.7	12 56.28	-08 44.3	18.5	-0.97	+	6.5	1.0/05.6	33342
1991 RF ₆	2000 04 03.7	12 52.61	-00 36.8	18.2	-0.97	+	6.3	1.7/02.2	39516	1997 NA	2000 04 04.7	12 56.28	-10 15.3	18.9	-0.96	+	7.9	1.5/06.1	33556
1993 TJ ₃₉	2000 04 03.7	12 52.65	+07 04.9	17.6	-0.84	+	4.2	4.4/30.7	39520	1994 WR ₃	2000 04 04.7	12 56.33	+17 11.0	16.6	-0.94	+	2.6	7.5/28.6	39523
1997 NR ₂	2000 04 03.7	12 52.68	-04 03.7	18.6	-0.84	+	5.7	0.5/03.2	39529	1997 VN ₁	2000 04 04.7	12 56.37	-05 09.7	17.9	-0.70	+	4.6	0.2/04.5	39530
1998 WG ₃	2000 04 03.7	12 52.72	-10 40.9	17.5	-0.83	+	5.4	1.7/05.4	39547	1997 UC ₁₁	2000 04 04.8	12 56.45	-14 14.6	15.9	-1.54	-	6.8	3.8/06.0	39530
1996 HY	2000 04 03.7	12 52.81	+13 20.7	16.9	-0.97	+	0.8	7.7/29.3	39526	1992 EH ₂₄	2000 04 04.8	12 56.47	+05 02.1	19.6	-0.89	+	6.4	3.6/01.2	30757
(9925)	2000 04 03.8	12 52.78	-09 23.1	18.0	-0.83	+	4.4	1.1/05.0	33654	1991 TO	2000 04 04.8	12 56.49	+02 42.1	18.4	-0.96	+	6.6	3.2/02.0	33744
1998 SS ₂₅	2000 04 03.8	12 52.84	+02 57.8	19.2	-1.00	+	4.5	3.1/01.3	39234	1998 WY ₁₉	2000 04 04.8	12 56.58	+17 09.8	18.5	-0.84	+	4.9	7.6/28.0	39282
1996 HY ₁	2000 04 03.8	12 52.96	-10 44.3	18.5	-0.97	+	2.5	1.6/05.3	39526	1998 VX ₃₄	2000 04 04.8	12 56.63	-11 45.7	19.1	-0.81	+	7.1	1.7/06.8	35725
1991 UO ₂	2000 04 03.8	12 52.99	+02 21.5	17.5	-0.95	+	6.1	2.7/01.3	39517	1998 SR ₁₃₂	2000 04 04.9	12 56.91	-11 55.4	17.6	-0.98	+	5.9	2.4/06.7	38793
(14058)	2000 04 03.9	12 53.28	+00 26.0	17.2	-0.93	+	7.3	2.5/01.9	39067	1139 T-2	2000 04 04.9	12 57.14	-03 53.7	17.5	-0.78	+	7.7	0.8/04.2	39648
1994 TT ₁₆	2000 04 03.9	12 53.53	-04 10.8	19.6	-0.96	+	5.2	0.5/03.5	36071	(14051)	2000 04 04.9	12 57.24	+06 51.9	16.2	-0.93	+	6.1	5.7/31.7	39065
1991 VM ₁₂	2000 04 04.0	12 53.51	-03 48.8	18.3	-0.72	+	4.4	0.5/03.4	39517	2110 T-3	2000 04 05.0	12 57.39	-12 56.7	16.8	-1.05	+	0.7	2.9/06.8	39648
1995 LC	2000 04 04.0	12 53.82	+43 29.0	19.1	-1.52	-	4.9	22.6/17.1	25963	1998 YL ₈	2000 04 05.0	12 57.51	+12 58.3	17.7	-0.88	+	4.6	5.5/29.8	39549
1992 OK	2000 04 04.0	12 53.87	-14 32.6	19.6	-0.81	+	5.5	2.3/07.0	34009	1994 VU	2000 04 05.0	12 57.54	+10 05.7	18.4	-0.99	+	2.1	5.5/31.4	39522
(13958)	2000 04 04.1	12 54.08	-04 27.8	16.0	-0.75	+	8.9	0.5/03.7	39039	1997 QA ₂	2000 04 05.1	12 57.59	-12 36.6	18.0	-0.83	+	5.4	2.2/07.2	34873
3098 T-3	2000 04 04.1	12 54.26	-04 01.8	20.2	-0.84	+	6.7	0.6/03.6	27565	1998 UX ₁₅	2000 04 05.1	12 57.61	-03 39.0	18.4	-0.92	+	4.8	0.9/04.4	39544
1997 UX ₂₀	2000 04 04.1	12 54.29	-03 44.1	18.3	-0.71	+	4.2	0.5/03.5	39530	1998 UH ₄₀	2000 04 05.1	12 57.65	-08 52.8	19.5	-0.93	+	4.5	0.9/06.0	34930
1998 QR ₅₁	2000 04 04.2	12 54.31	-34 58.3	17.3	-1.44	-	1.0	11.1/12.5	38783	1994 UW	2000 04 05.1	12 57.77	-06 39.1	18.1	-0.99	+	3.9	0.2/05.3	39522
2000 DK ₁₆	2000 04 04.2	12 54.32	-06 42.9	16.8	-0.89	+	3.6	0.3/04.5	39445	1997 SF ₁₁	2000 04 05.1	12 57.85	-12 42.0	18.0	-0.70	+	7.9	1.9/07.5	39529
1996 CL ₁	2000 04 04.2	12 54.46	+17 54.8	17.0	-0.72	+	9.4	10.2/25.5	39525	1999 CB ₁₇	2000 04 05.1	12 57.96	+16 15.3	17.8	-0.84	+	5.4	6.6/28.3	35732
(14166)	2000 04 04.2	12 54.61	+10 03.2	16.6	-0.75	+	8.8	5.8/29.4	39099	(10257)	2000 04 05.2	12 58.06	-00 12.3	17.8	-0.66	+	4.7	1.5/03.2	33920
1998 SE ₁₂₈	2000 04 04.2	12 54.70	-01 11.8	19.3	-0.93	+	6.2	1.6/02.8	34024	1998 UM ₂₉	2000 04 05.2	12 58.31	+11 55.3	18.1	-0.95	+	2.3	6.1/31.0	35723
1998 SS ₁₆₁	2000 04 04.3	12 54.73	-02 35.8	18.4	-0.92	+	6.3	1.1/03.3	39542	1992 SJ	2000 04 05.3	12 58.32	-09 39.3	17.3	-0.94	+	3.1	1.1/06.3	39518
1998 SU ₂₄	2000 04 04.3	12 54.76	+02 30.6	17.0	-1.00	+	4.6	3.4/01.9	39539	4528 P-L	2000 04 05.3	12 58.40	-06 12.3	18.7	-0.90	+	6.3	0.0/05.3	29668
2059 T-1	2000 04 04.3	12 54.84	-17 24.8	16.3	-1.27	-	0.7	4.0/07.0	39499	1997 SG ₂₁	2000 04 05.3	12 58.52	-09 47.9	17.7	-0.71	+	6.6	1.0/06.6	39530
2000 EC ₂₀	2000 04 04.3	12 54.88	-05 36.5	17.2	-0.90	+	7.2	0.1/04.3	39487	1282 T-2	2000 04 05.4	12 58.65	-07 47.2	17.5	-0.80	+	5.1	0.5/05.9	39648
(9970)	2000 04 04.3	12 55.06	-17 24.8	16.1	-0.92	+	3.3	4.0/07.8	33664	(9848)	2000 04 05.4	12 59.01	-07 56.5	17.3	-0.93	+	5.9	0.5/06.0	33457
1998 SG ₁	2000 04 04.4	12 55.04	-04 41.9	18.7	-0.88	+	6.4	0.4/04.0	35716	1990 QP ₁₀	2000 04 05.4	12 59.06	-08 05.8	17.1	-0.77	+	3.1	0.5/06.1	39515
2000 DG ₁₆	2000 04 04.4	12 55.11	-02 14.9	17.3	-0.76	+	8.7	1.3/03.1	39444	1999 BQ ₂₈	2000 04 05.5	12 59.06	-06 31.1	19.8	-0.72	+	4.3	0.1/05.6	34233
1998 SL ₅₀	2000 04 04.4	12 55.12	-05 36.6	19.5	-1.00	+	3.7	0.1/04.3	33356	1999 BD ₄	2000 04 05.5	12 59.17	-07 10.1	16.1	-0.80	+	3.8	0.3/05.8	39296
1999 AR ₉	2000 04 04.4	12 55.13	-33 33.2	18.3	-0.97	+	0.3	6.9/12.7	34600	1990 QR ₅	2000 04 05.5	12 59.35	-02 29.9	17.6	-0.74	+	4.9	1.1/04.3	39515

2030 T-2	2000 04 05.5	12 59.35 -06 51.3 19.8	-0.90 + 4.7	0.2/05.7	17977	1997 QE ₅	2000 04 06.7	13 03.42 +03 26.2 21.0	-0.76 + 5.4	2.6/03.3	35701
1998 WT ₂₀	2000 04 05.5	12 59.41 -08 01.7 15.5	-0.88 + 9.0	0.8/06.2	39548	1982 VL ₄	2000 04 06.7	13 03.43 +09 45.6 18.6	-0.82 + 2.6	4.5/01.6	39512
1999 AQ	2000 04 05.6	12 59.39 +10 47.0 18.9	-0.74 + 5.3	4.8/30.7	39293	1998 WH ₇	2000 04 06.7	13 03.50 -15 28.3 19.2	-0.94 + 6.9	3.1/09.5	34030
1994 QN	2000 04 05.6	12 59.66 +26 41.0 18.6	-1.10 + 1.5	9.9/26.2	39522	6774 P-L	2000 04 06.7	13 03.55 -08 40.1 18.8	-1.08 + 0.6	0.7/07.2	36121
1998 SR ₁₄₆	2000 04 05.6	12 59.82 -06 16.0 18.7	-1.05 + 4.3	0.0/05.7	35720	1998 WY ₆	2000 04 06.7	13 03.62 -13 31.0 17.4	-1.01 + 3.2	2.7/08.7	39547
(10039)	2000 04 05.7	12 59.74 -13 02.2 17.3	-0.80 + 5.8	1.9/07.9	33867	1993 TW ₈	2000 04 06.7	13 03.66 -06 26.8 18.0	-0.93 + 2.5	0.1/06.7	39520
1998 RT ₇₂	2000 04 05.7	12 59.74 -06 49.2 18.5	-0.98 + 5.2	0.2/05.8	33565	1998 SW ₁₄₅	2000 04 06.7	13 03.75 -03 09.5 16.4	-0.90 + 5.6	1.6/05.6	39542
(14162)	2000 04 05.7	12 59.80 +08 49.4 17.5	-1.01 + 2.7	4.9/01.4	39097	1981 DJ ₃	2000 04 06.7	13 03.82 -18 15.7 19.4	-0.86 + 5.2	3.7/10.5	26914
1998 UW ₇	2000 04 05.7	12 59.82 -00 30.9 17.5	-0.82 + 8.3	2.1/03.7	39544	1990 VV ₁	2000 04 06.8	13 03.85 -11 21.1 17.7	-0.85 + 7.8	1.4/08.4	34286
1994 XD ₅	2000 04 05.7	13 00.10 +02 30.8 18.5	-0.87 + 5.1	2.9/03.0	33691	(14063)	2000 04 06.9	13 04.34 -02 33.6 15.6	-0.89 + 5.3	1.9/05.6	39068
(10641)	2000 04 05.7	13 00.10 -05 47.4 17.8	-0.75 + 4.3	0.2/05.6	34473	1998 QK ₉₃	2000 04 06.9	13 04.58 -05 14.9 16.8	-1.03 + 1.0	0.6/06.6	34020
1985 QG ₅	2000 04 05.8	13 00.19 -04 28.9 17.6	-0.73 + 4.3	0.5/05.2	39513	1981 EY ₁₀	2000 04 07.0	13 04.89 -08 02.5 18.3	-0.90 + 6.7	0.4/07.5	39511
4817 P-L	2000 04 05.8	13 00.21 -03 27.9 19.0	-0.86 + 8.4	1.0/04.8	15904	1998 XA ₄	2000 04 07.0	13 04.90 +00 41.0 17.8	-0.98 + 3.7	2.5/04.9	33767
1997 PN ₅	2000 04 05.8	13 00.27 -25 39.4 18.3	-0.92 + 4.3	5.6/12.0	35701	1999 BS ₉	2000 04 07.1	13 04.97 -17 39.8 17.1	-0.95 + 2.7	3.3/10.2	39297
1998 UA ₄	2000 04 05.8	13 00.45 +11 58.2 18.0	-0.77 + 4.8	5.0/30.6	39543	(13575)	2000 04 07.1	13 05.20 +00 39.3 16.3	-1.02 + 1.2	3.6/05.2	38336
(11353)	2000 04 05.8	13 00.49 -07 33.5 17.6	-0.78 + 5.0	0.3/06.2	35579	1994 ED ₆	2000 04 07.1	13 05.22 +02 41.4 17.9	-0.73 + 5.3	2.9/03.9	35690
1998 RF ₇₉	2000 04 05.9	13 00.48 +00 09.1 17.7	-1.06 + 3.9	2.6/04.0	34022	1997 YO ₁₄	2000 04 07.2	13 05.27 -13 19.4 17.5	-0.90 + 4.7	2.0/09.2	39530
1998 TJ ₁₃	2000 04 05.9	13 00.62 -03 54.0 18.3	-1.03 + 5.1	1.0/05.2	35721	1998 QC ₉₂	2000 04 07.2	13 05.39 -05 57.9 17.7	-0.95 + 6.7	0.3/06.9	39535
1981 EJ ₃₁	2000 04 05.9	13 00.70 -01 40.5 18.7	-0.82 + 8.3	2.0/04.3	26921	(10356)	2000 04 07.2	13 05.41 -08 36.4 17.8	-0.83 + 5.8	0.5/07.8	34149
1997 SE ₄	2000 04 05.9	13 00.75 -07 02.7 18.2	-0.80 + 4.4	0.2/06.1	34017	1998 TK ₅	2000 04 07.2	13 05.47 +02 18.9 17.0	-0.99 + 3.2	3.6/04.6	39543
(11619)	2000 04 05.9	13 00.81 +05 17.3 16.4	-0.87 + 6.6	4.3/02.0	39510	1999 CV ₁₃₆	2000 04 07.2	13 05.50 -12 35.7 19.5	-0.86 + 4.8	1.7/09.0	35734
1997 PJ ₄	2000 04 06.0	13 00.93 -27 06.0 16.8	-0.92 + 4.9	6.5/13.0	38774	1981 EX ₁₄	2000 04 07.3	13 05.77 -09 12.5 18.8	-0.76 + 8.2	0.8/08.1	30779
1984 WL	2000 04 06.0	13 01.11 -41 20.3 18.7	-1.10 +10.0	11.8/21.1	27305	1981 EQ ₄₁	2000 04 07.3	13 05.80 -12 08.3 20.2	-0.85 + 4.0	1.6/08.9	26922
3130 T-2	2000 04 06.0	13 01.14 -01 20.0 17.3	-0.87 + 2.8	1.8/04.5	33535	1998 YV ₁₆	2000 04 07.3	13 05.90 -05 36.2 18.1	-0.72 + 4.7	0.4/06.9	39293
(11274)	2000 04 06.1	13 01.35 -06 50.3 19.7	-0.60 + 3.4	0.1/06.2	35560	(10355)	2000 04 07.3	13 05.95 -07 52.3 16.2	-1.08 + 2.0	0.4/07.6	34149
1998 QY ₉₁	2000 04 06.1	13 01.37 -03 12.8 18.6	-0.98 + 5.1	1.1/05.1	36085	1998 SM ₁₄₅	2000 04 07.3	13 05.96 -02 27.4 15.7	-1.05 + 1.5	2.1/06.2	39542
1998 SA ₁₀₉	2000 04 06.1	13 01.41 -12 54.8 16.8	-1.01 + 5.2	2.6/08.1	39540	1997 VF ₁	2000 04 07.3	13 06.03 -13 22.0 18.7	-0.85 + 2.4	1.6/09.3	34018
1998 WH ₈	2000 04 06.2	13 01.80 -00 50.1 18.1	-0.91 + 4.6	1.9/04.5	33765	1998 UW ₃₄	2000 04 07.4	13 06.00 -10 26.3 19.3	-0.92 + 7.2	1.2/08.5	34307
1998 QL ₉₂	2000 04 06.2	13 01.85 -05 30.0 17.3	-0.92 + 6.4	0.4/05.9	39535	1975 SE ₂	2000 04 07.4	13 06.08 -02 17.9 18.4	-0.97 + 3.8	1.6/06.1	33738
1989 SE	2000 04 06.2	13 01.85 -08 30.9 18.9	-0.93 + 3.8	0.6/06.8	34005	2000 AA ₁₆₈	2000 04 07.4	13 06.21 +09 47.4 15.9	-0.87 + 8.0	7.1/01.5	39352
1998 QW ₉₂	2000 04 06.2	13 01.86 -02 17.6 18.1	-0.94 + 5.1	1.4/05.0	34302	1998 SY ₃₁	2000 04 07.4	13 06.23 -05 32.7 18.6	-0.94 + 7.8	0.5/07.0	35717
1998 TR ₃₄	2000 04 06.2	13 01.91 +01 43.2 17.7	-0.91 + 4.1	3.0/03.8	39543	(10228)	2000 04 07.4	13 06.37 -19 54.5 17.3	-0.80 + 3.7	3.5/11.6	33913
1999 AL ₂	2000 04 06.2	13 01.94 -16 54.4 17.2	-0.83 + 3.1	2.9/09.5	39549	(10005)	2000 04 07.5	13 06.39 -06 42.6 17.4	-1.00 + 4.9	0.1/07.4	33859
1993 TV ₁₅	2000 04 06.3	13 02.06 -05 27.7 19.6	-0.91 + 4.5	0.4/06.0	35688	1999 AC ₁₀	2000 04 07.5	13 06.47 -21 06.1 16.8	-0.81 + 4.6	4.2/12.1	39549
(9927)	2000 04 06.3	13 02.08 -13 39.8 17.0	-1.01 + 7.7	2.6/08.6	33654	1981 EQ ₄₃	2000 04 07.5	13 06.63 -06 43.1 18.9	-0.87 + 6.3	0.2/07.5	24406
(10023)	2000 04 06.3	13 02.21 -03 34.4 17.8	-0.90 + 5.8	1.0/05.4	33863	(13813)	2000 04 07.6	13 06.84 +11 13.5 17.3	-0.77 + 3.9	5.3/01.6	38403
1998 VV ₂₈	2000 04 06.3	13 02.34 -16 18.9 17.9	-0.97 + 5.6	3.4/09.4	39546	(11005)	2000 04 07.6	13 06.95 -20 13.8 18.2	-0.90 + 4.4	3.9/11.8	35212
1997 VG ₈	2000 04 06.3	13 02.35 +02 50.8 18.3	-0.81 + 3.4	2.8/03.5	39530	2038 P-L	2000 04 07.6	13 06.98 -12 28.0 17.1	-0.91 + 8.7	2.2/09.5	39646
1994 PU ₁	2000 04 06.3	13 02.36 -00 17.6 17.7	-0.92 + 7.5	2.1/04.3	39521	(14155)	2000 04 07.6	13 07.01 -10 09.0 17.0	-0.95 + 7.4	1.2/08.6	39096
1997 PJ ₂	2000 04 06.4	13 02.29 +00 44.4 19.9	-0.87 + 5.9	2.3/04.0	33752	(10080)	2000 04 07.6	13 07.04 +05 53.2 16.8	-0.70 + 7.7	3.7/02.9	33877
5137 T-2	2000 04 06.4	13 02.59 -13 45.1 16.7	-0.75 +12.4	2.7/09.2	39648	1994 CX ₁₀	2000 04 07.6	13 07.09 -02 51.2 17.6	-0.75 + 4.7	1.4/06.3	39521
2075 T-3	2000 04 06.4	13 02.68 -09 36.5 18.9	-0.88 + 5.2	0.9/07.4	34274	1996 HU ₂₅	2000 04 07.7	13 07.20 -02 42.8 17.7	-0.83 + 5.5	1.4/06.3	33495
1999 BM ₁	2000 04 06.4	13 02.69 -08 46.6 18.9	-0.94 + 5.2	0.7/07.1	35731	1991 PP ₁₃	2000 04 07.7	13 07.23 -20 24.6 17.7	-0.83 + 2.9	3.6/11.8	39516
1993 VT	2000 04 06.4	13 02.70 +08 36.1 18.8	-0.92 + 3.4	4.7/01.8	39521	1989 CR ₁	2000 04 07.7	13 07.27 -23 33.8 16.6	-0.85 + 7.0	7.6/13.5	35680
1998 WM ₁₅	2000 04 06.4	13 02.71 +05 48.7 18.2	-0.92 + 4.5	4.4/02.7	35726	1979 ON ₁	2000 04 07.8	13 07.49 +00 54.9 19.7	-0.72 + 5.2	2.2/05.1	34822
1981 EA ₂₁	2000 04 06.5	13 02.70 -07 55.6 17.9	-0.82 + 4.9	0.4/06.9	26919	(13031)	2000 04 07.8	13 07.60 -01 54.3 16.1	-0.80 + 7.0	2.1/06.1	37495
1991 VJ ₂	2000 04 06.5	13 02.76 -07 38.6 17.6	-0.96 + 7.6	0.3/06.8	39517	(9914)	2000 04 07.8	13 07.62 -02 01.4 18.3	-0.85 + 4.8	1.5/06.2	33651
1998 SO ₂	2000 04 06.5	13 02.77 +14 01.2 19.0	-0.94 + 2.7	6.5/31.3	39230	1998 SX ₁₂₃	2000 04 07.8	13 07.72 -05 31.2 18.6	-0.98 + 5.0	0.6/07.4	35719
(10141)	2000 04 06.5	13 02.82 +03 02.6 16.6	-1.01 + 1.9	3.3/03.8	33891	1998 SV ₅₇	2000 04 07.8	13 07.73 -02 21.3 17.3	-0.97 + 5.5	2.0/06.4	39539
1998 VO ₂₂	2000 04 06.5	13 02.88 -06 42.2 19.1	-1.05 + 5.1	0.0/06.5	34931	1998 TG ₃₂	2000 04 07.8	13 07.77 -10 27.4 17.5	-1.03 + 5.6	1.3/08.8	39543
1988 XX ₂	2000 04 06.5	13 02.99 -03 13.8 17.7	-1.00 + 5.5	1.3/05.5	39514	1998 UH ₃₁	2000 04 07.8	13 07.78 +10 29.8 16.3	-0.95 + 2.1	5.7/02.8	39545

2000 MAR. 20

M.P.C. 39695

(9855)	2000 04 07.8	13 07.81 +06 25.1 17.2	-0.82 + 6.8	4.4/03.2	33458	1989 SZ ₂	2000 04 08.9	13 11.55 -02 07.1 18.8	-0.80 + 7.8	1.6/07.1	39514
(9887)	2000 04 07.8	13 07.85 -01 21.2 17.8	-0.84 + 5.8	1.9/06.0	33466	1994 WP ₃	2000 04 08.9	13 11.64 +07 01.4 18.6	-0.94 + 5.1	4.6/04.3	39523
1996 TR ₁₄	2000 04 07.9	13 07.84 -05 00.2 17.0	-0.82 + 3.0	0.7/07.3	39526	1998 SA ₂	2000 04 08.9	13 11.75 +01 30.2 20.4	-0.92 + 4.6	3.1/06.3	35716
1999 AS	2000 04 07.9	13 07.85 -02 27.8 17.4	-0.89 + 4.3	1.5/06.5	39549	1997 MY ₈	2000 04 09.0	13 11.85 -11 04.2 20.3	-0.85 + 5.5	1.0/10.1	35700
1997 SA ₃	2000 04 07.9	13 07.90 -07 35.7 17.9	-0.81 + 6.2	0.1/08.1	34297	1993 UX ₂	2000 04 09.0	13 11.93 +15 00.5 19.4	-0.83 + 4.1	6.6/01.6	33687
1992 EB ₂₆	2000 04 07.9	13 07.90 -16 04.1 18.1	-1.07 + 2.4	3.5/10.4	39518	1999 AJ ₂₀	2000 04 09.0	13 12.03 -08 58.1 19.4	-0.62 + 3.5	0.3/09.5	35730
1998 QJ ₉₂	2000 04 07.9	13 07.94 -02 44.1 18.9	-0.97 + 5.3	1.5/06.6	34020	1998 UF	2000 04 09.0	13 12.04 -51 43.7 18.4	-1.91 - 6.5	21.3/18.8	36085
1998 YL ₁₆	2000 04 08.0	13 08.26 +01 04.7 18.5	-0.72 + 4.8	2.2/05.3	35729	1998 TK ₁₆	2000 04 09.0	13 12.08 +02 15.0 17.3	-0.88 + 7.4	3.7/05.8	39543
1994 VL	2000 04 08.0	13 08.28 -06 27.0 18.7	-0.96 + 3.9	0.3/07.8	35692	1993 FS ₂₈	2000 04 09.1	13 12.27 -12 02.7 17.0	-0.96 + 6.9	1.8/10.5	34580
1994 PV ₁₉	2000 04 08.0	13 08.33 -09 26.6 17.7	-0.96 + 5.8	0.8/08.7	39521	1993 FR ₂₃	2000 04 09.1	13 12.52 -11 30.4 17.7	-1.03 + 4.1	1.3/10.3	39519
(10020)	2000 04 08.0	13 08.41 -14 57.4 16.8	-0.78 + 4.1	2.4/10.5	33862	1998 VZ ₅	2000 04 09.1	13 12.57 +03 44.7 18.4	-1.01 + 4.6	4.2/05.8	39545
1998 VH ₃₁	2000 04 08.0	13 08.45 -05 02.1 18.2	-0.95 + 5.4	0.7/07.4	39546	1997 YQ ₁₉	2000 04 09.1	13 12.61 -02 31.1 17.9	-0.67 + 7.5	1.3/07.4	39530
1998 SG ₇₃	2000 04 08.1	13 08.69 -02 27.6 18.3	-0.86 + 6.7	1.7/06.6	39540	1998 RW ₇₉	2000 04 09.1	13 12.62 -05 03.0 18.0	-0.88 + 8.1	1.0/08.3	39538
1998 WD ₉	2000 04 08.1	13 08.92 -09 28.7 18.3	-0.90 + 8.8	0.8/08.9	35726	1990 OK	2000 04 09.2	13 12.75 -16 25.5 17.8	-0.96 + 6.9	3.0/12.0	35681
1989 WD ₃	2000 04 08.2	13 08.89 -13 11.0 17.1	-0.83 + 6.5	2.0/10.1	39514	1997 PM ₂	2000 04 09.2	13 12.95 -14 50.0 18.4	-0.83 + 4.5	2.1/11.5	39529
1995 XL	2000 04 08.2	13 08.91 -11 56.5 18.9	-1.00 + 7.1	1.8/09.7	32946	1998 RD ₆₂	2000 04 09.3	13 13.16 -12 04.8 17.0	-1.06 + 4.8	1.7/10.6	39537
1998 WC ₁	2000 04 08.2	13 08.97 +27 19.2 18.6	-0.98 + 4.4	10.4/27.0	34029	(13643)	2000 04 09.3	13 13.28 +08 58.8 16.1	-1.02 - 0.1	6.6/05.1	38354
(10158)	2000 04 08.2	13 09.03 -01 36.9 17.3	-0.94 + 4.5	1.8/06.5	33895	1998 XL ₅₀	2000 04 09.3	13 13.32 -02 50.0 18.1	-0.84 + 4.5	1.6/07.9	39548
1985 RQ	2000 04 08.2	13 09.12 -07 23.3 19.2	-0.94 + 4.1	0.0/08.3	34004	4264 T-1	2000 04 09.3	13 13.32 -05 09.4 17.8	-0.92 + 2.4	0.9/08.7	39648
1981 EQ ₄₆	2000 04 08.2	13 09.19 -03 50.3 18.8	-0.78 + 5.7	1.0/07.1	26923	1999 CF ₃₅	2000 04 09.3	13 13.34 -12 54.9 18.8	-0.79 + 2.8	1.3/10.9	34242
1997 MZ	2000 04 08.2	13 09.33 -29 54.4 18.9	-0.97 + 5.4	7.4/16.0	33698	1998 WM ₅	2000 04 09.4	13 13.51 -02 48.9 16.7	-1.01 + 3.3	2.2/08.1	39279
1981 EE ₃₂	2000 04 08.3	13 09.34 -13 24.1 18.7	-0.87 + 8.0	2.4/10.4	26921	1998 SM ₃₄	2000 04 09.4	13 13.53 -09 27.3 17.9	-1.10 + 2.6	0.6/10.0	39539
(14076)	2000 04 08.3	13 09.56 -18 32.5 16.5	-0.85 + 2.7	3.7/11.7	39072	1991 PX ₁₀	2000 04 09.4	13 13.54 -04 09.4 18.2	-0.94 + 9.1	1.3/08.2	30781
4302 T-1	2000 04 08.3	13 09.56 -01 30.2 17.3	-0.92 + 3.3	2.3/06.7	39648	1995 YX ₁	2000 04 09.4	13 13.62 -09 10.2 16.5	-0.93 + 7.0	0.6/10.0	39524
1998 XM ₄₀	2000 04 08.3	13 09.62 -28 44.0 19.1	-0.83 + 5.1	6.4/15.9	35343	1978 YM	2000 04 09.4	13 13.64 -12 37.8 17.1	-1.09 + 3.3	1.8/10.8	39511
1998 VL ₃₅	2000 04 08.3	13 09.67 -23 41.5 18.2	-0.89 + 5.7	4.9/13.8	34596	1999 AA ₂₁	2000 04 09.4	13 13.74 -39 50.3 17.7	-1.30 - 0.4	10.2/18.1	35731
1998 XW ₆₂	2000 04 08.3	13 09.70 -02 40.3 17.6	-0.94 + 0.5	1.4/07.2	39548	1990 TX ₁₁	2000 04 09.5	13 13.75 -10 47.2 18.6	-0.92 + 5.6	1.0/10.4	35682
(10185)	2000 04 08.4	13 09.66 -01 39.9 16.5	-0.94 + 4.2	2.2/06.7	33902	1990 QK ₄	2000 04 09.5	13 13.75 -04 51.8 18.8	-0.92 + 6.2	1.0/08.6	28885
1997 TS ₂₂	2000 04 08.4	13 09.74 -08 35.1 18.3	-0.80 + 4.4	0.4/08.8	39530	(10079)	2000 04 09.5	13 13.83 +02 50.3 19.2	-0.82 + 5.4	3.0/06.1	33877
1981 UC ₂₆	2000 04 08.4	13 09.77 -03 47.5 18.4	-0.73 + 5.1	1.0/07.2	38752	1989 SJ ₁	2000 04 09.5	13 13.85 -02 46.6 19.5	-0.90 + 4.9	1.6/08.0	30289
1998 VC ₆	2000 04 08.4	13 09.98 -09 24.5 19.9	-0.94 + 5.9	0.7/09.1	35724	1990 QN ₂	2000 04 09.5	13 13.90 -15 12.0 17.4	-1.05 + 3.2	2.8/11.6	39515
1997 WZ ₄₂	2000 04 08.4	13 09.99 -04 24.6 18.8	-0.70 + 4.3	0.7/07.5	35703	1998 XT ₃	2000 04 09.5	13 13.96 -18 45.4 18.6	-0.88 + 6.2	3.8/13.1	35638
1980 PT ₁	2000 04 08.4	13 09.99 -21 05.6 17.2	-0.82 + 3.6	4.3/12.8	39511	1993 TL ₃₈	2000 04 09.5	13 13.96 +00 23.7 18.4	-0.84 + 4.0	2.5/07.1	39520
1998 VD ₁₆	2000 04 08.4	13 09.99 +01 47.4 19.4	-0.99 + 4.2	3.2/05.8	34028	1997 SA ₂	2000 04 09.6	13 14.29 -07 35.4 18.4	-0.78 + 4.0	0.1/09.6	34017
1990 UR	2000 04 08.4	13 10.07 -09 35.8 17.9	-0.93 + 5.2	0.7/09.2	33743	1990 TH ₇	2000 04 09.7	13 14.42 -08 14.6 18.6	-0.73 + 4.2	6.3/21.0	35061
1997 TC ₉	2000 04 08.5	13 10.18 -10 32.4 19.8	-0.81 + 7.0	0.9/09.6	30882	(14191)	2000 04 09.7	13 14.61 -17 33.9 15.7	-0.90 + 7.2	4.3/12.9	39106
1998 XC ₉₆	2000 04 08.5	13 10.19 -13 03.9 17.2	-0.77 + 4.0	1.7/10.3	36086	(10142)	2000 04 09.7	13 14.61 +06 56.9 17.1	-0.84 + 3.4	4.0/05.2	33891
1992 RA ₂	2000 04 08.5	13 10.21 -23 47.8 18.8	-0.92 + 2.2	4.6/13.4	30757	1993 QS ₄	2000 04 09.8	13 14.95 -20 31.0 19.0	-0.99 + 2.4	3.8/13.4	35688
9519 P-L	2000 04 08.5	13 10.33 -05 54.5 18.3	-0.87 + 3.7	0.5/08.1	39647	1978 VY ₅	2000 04 09.9	13 15.21 -04 35.6 17.5	-1.01 + 5.4	1.3/08.9	39511
1981 EF ₃₃	2000 04 08.5	13 10.38 -10 06.4 19.3	-0.78 + 9.9	1.2/09.5	26921	1986 PU ₁	2000 04 09.9	13 15.24 -07 30.5 18.6	-0.95 + 5.1	8.3/21.0	30288
1985 VA ₁	2000 04 08.6	13 10.47 +21 29.0 17.2	-0.81 + 2.3	8.3/29.6	39513	1976 SD ₅	2000 04 09.9	13 15.44 -11 09.2 17.9	-0.72 + 6.6	0.9/11.1	35676
1997 NZ ₃	2000 04 08.6	13 10.78 -28 26.1 19.8	-0.91 + 3.6	5.7/15.4	35700	1995 AK ₁	2000 04 10.0	13 15.51 +06 01.2 17.9	-0.89 + 3.8	4.2/05.8	39523
2287 T-1	2000 04 08.7	13 10.78 -01 18.5 17.3	-0.90 + 7.6	2.2/06.7	39648	1983 RV ₃	2000 04 10.0	13 15.64 -04 23.8 17.4	-0.81 + 6.6	1.1/08.8	39512
1981 EK ₂₉	2000 04 08.7	13 10.84 -10 26.8 19.2	-0.78 + 6.7	1.0/09.7	26920	1977 DQ ₃	2000 04 10.0	13 15.68 -05 46.7 18.2	-0.75 + 4.1	0.6/09.3	39510
1998 YO ₃	2000 04 08.7	13 11.11 +05 40.4 18.3	-0.97 + 5.2	4.7/04.7	39549	2626 P-L	2000 04 10.0	13 15.87 -05 40.4 17.6	-0.77 + 5.2	0.8/09.3	39647
1991 RB ₇	2000 04 08.8	13 11.19 -09 31.8 18.3	-1.04 + 4.6	0.7/09.4	39516	(9770)	2000 04 10.1	13 15.95 -00 14.8 16.5	-0.85 + 6.8	3.7/07.6	39510
1979 MK ₆	2000 04 08.8	13 11.35 -04 58.7 18.4	-0.82 + 5.7	0.8/08.0	18804	1997 WN ₃₈	2000 04 10.1	13 16.08 -05 25.9 19.1	-0.71 + 4.0	0.7/09.3	35703
1995 BB ₁₄	2000 04 08.8	13 11.43 -19 29.4 18.3	-0.92 + 4.4	3.7/12.5	34292	(10402)	2000 04 10.1	13 16.18 -08 50.7 19.4	-0.73 + 4.0	0.2/10.4	34160
1997 PF ₄	2000 04 08.8	13 11.51 -17 19.3 18.2	-0.92 + 4.6	3.1/11.9	34016	1991 TK ₁	2000 04 10.1	13 16.26 -38 47.0 18.3	-1.45 + 0.2	11.2/19.3	33546
1998 TE	2000 04 08.9	13 11.45 -13 11.9 17.9	-0.95 + 7.9	2.1/10.7	39259	1997 XY ₁₀	2000 04 10.2	13 16.54 -02 34.3 18.2	-0.74 + 3.6	1.4/08.5	35703
(9889)	2000 04 08.9	13 11.53 -09 06.7 16.3	-0.81 + 4.8	0.5/09.4	33466	1993 TZ ₂₄	2000 04 10.2	13 16.59 -02 20.2 19.7	-0.90 + 2.8	1.8/08.6	33686

1999 CS ₁₉	2000 04 10.2	13 16.59 -22 44.1 17.4	-0.85 + 3.2	4.4/14.8	39550	1999 AD ₁₀	2000 04 11.6	13 21.58 -10 57.5 19.5	-0.63 + 4.6	0.6/12.4	35730
1998 XF ₇₇	2000 04 10.3	13 16.69 +08 53.5 19.2	-0.78 + 6.4	5.0/04.5	39548	1997 UB ₇	2000 04 11.7	13 21.86 +04 01.9 17.7	-0.88 + 2.3	3.4/08.1	35702
1990 QG ₁	2000 04 10.3	13 16.72 -15 19.8 17.2	-1.04 + 3.5	2.7/12.3	39515	1998 YO ₇	2000 04 11.7	13 21.92 +08 01.8 19.6	-0.86 + 3.6	4.9/06.7	35729
1996 HQ ₂₂	2000 04 10.3	13 16.90 -09 54.9 19.1	-0.83 + 6.1	0.5/10.9	34014	2128 T-1	2000 04 11.7	13 21.94 -05 51.2 18.1	-0.94 + 6.3	1.0/10.9	34268
1998 VP ₃₅	2000 04 10.3	13 17.04 +04 56.6 18.0	-0.89 + 2.8	4.3/06.6	33764	1998 UZ ₇	2000 04 11.7	13 21.98 -09 37.9 19.3	-0.82 + 8.7	0.3/12.1	34306
1995 FK ₄	2000 04 10.4	13 17.00 +01 30.3 17.8	-0.78 + 6.6	2.9/07.2	39523	1990 WE ₉	2000 04 11.8	13 22.15 -05 24.4 18.4	-0.91 + 6.1	1.1/10.8	33545
1998 SL ₁₃₇	2000 04 10.4	13 17.08 -01 12.6 19.5	-0.95 + 3.5	2.3/08.5	35720	1998 SJ ₁₁₀	2000 04 11.8	13 22.57 -12 09.2 18.8	-0.96 + 6.5	1.2/13.0	33758
(13607)	2000 04 10.4	13 17.20 -08 00.9 16.1	-1.05 + 2.1	0.1/10.4	38345	1979 MS ₂	2000 04 11.9	13 22.58 -09 51.3 18.4	-0.90 + 6.9	0.5/12.3	30778
(11298)	2000 04 10.4	13 17.21 -03 46.6 18.1	-0.81 + 4.3	1.4/09.1	35565	1998 WU ₁	2000 04 11.9	13 22.69 +10 22.5 18.0	-1.00 + 3.2	7.2/06.2	39546
1998 YT ₃	2000 04 10.4	13 17.27 -04 58.6 16.8	-0.78 + 5.3	1.0/09.4	39549	(10045)	2000 04 11.9	13 22.69 -07 16.7 16.6	-0.75 + 5.1	0.5/11.5	39510
1998 VQ ₅	2000 04 10.4	13 17.31 -09 07.8 18.6	-0.96 + 3.8	0.3/10.8	35723	1991 VG ₃	2000 04 11.9	13 22.77 -20 17.5 17.9	-0.93 +14.1	3.9/16.3	33546
1998 WE ₉	2000 04 10.5	13 17.44 +09 06.2 17.5	-0.77 + 4.0	4.9/04.9	34310	1998 RO ₇₄	2000 04 12.0	13 22.86 -15 00.0 18.6	-1.05 + 5.3	2.6/13.8	33274
1976 UZ ₇	2000 04 10.5	13 17.68 -09 59.9 17.9	-0.72 + 7.0	0.5/11.2	39510	1998 UM ₂₃	2000 04 12.0	13 22.87 -13 09.6 17.1	-0.90 + 7.7	1.6/13.4	39270
1997 TK ₁	2000 04 10.5	13 17.70 -13 50.3 17.4	-0.91 + 4.2	2.0/12.3	39530	1998 XZ ₄₃	2000 04 12.0	13 23.01 +08 44.3 17.2	-0.88 + 1.7	5.7/07.0	39548
1994 TE	2000 04 10.7	13 18.28 -04 52.6 18.0	-0.91 + 6.8	1.3/09.7	39522	1999 CE ₁₃₃	2000 04 12.1	13 23.26 -09 23.1 19.5	-0.73 + 4.3	0.2/12.3	34606
1994 CF ₁₆	2000 04 10.7	13 18.30 +04 39.1 17.9	-0.73 + 4.6	3.9/06.5	24112	1998 SM ₂₇	2000 04 12.1	13 23.50 -27 14.1 18.5	-1.07 +17.2	7.8/19.3	35717
1987 QM	2000 04 10.8	13 18.50 -29 29.5 18.0	-1.01 + 1.6	6.1/16.7	34283	2573 P-L	2000 04 12.1	13 23.51 -08 22.2 18.5	-0.95 + 4.1	0.1/12.0	30887
1998 XG ₆₁	2000 04 10.9	13 18.87 -32 45.5 17.7	-0.95 + 3.7	7.5/18.8	39289	5160 T-3	2000 04 12.1	13 23.66 +07 11.2 18.9	-0.76 + 8.6	5.3/06.3	36055
1998 YS ₅	2000 04 10.9	13 19.01 +09 26.3 17.5	-0.76 + 4.3	5.0/05.1	39291	1999 AJ ₄	2000 04 12.2	13 23.65 -09 25.7 18.9	-0.92 + 5.9	0.2/12.4	35730
1970 OF	2000 04 10.9	13 19.21 -16 56.5 18.2	-0.89 + 4.1	2.4/13.6	34001	1998 VQ ₆	2000 04 12.2	13 23.76 -15 13.0 19.2	-1.00 + 5.0	2.2/14.1	35724
1996 EN ₁₂	2000 04 11.0	13 19.39 -19 16.2 19.6	-0.99 + 5.4	3.9/14.4	33694	2391 T-3	2000 04 12.2	13 23.94 -09 51.5 17.6	-0.80 + 4.3	0.3/12.6	34275
1997 QP	2000 04 11.0	13 19.55 -29 31.4 16.3	-1.08 + 0.7	8.2/16.9	38774	1987 SL ₅	2000 04 12.2	13 24.05 -11 48.7 17.8	-0.94 + 7.2	1.1/13.2	39513
1992 OE ₃	2000 04 11.0	13 19.59 -12 53.8 18.8	-0.89 + 4.6	1.4/12.5	33682	1998 YH ₁	2000 04 12.3	13 24.04 +05 34.7 17.7	-0.82 + 2.4	4.3/08.0	39290
1993 UW ₈	2000 04 11.1	13 19.59 +00 28.2 17.7	-0.92 + 4.7	3.3/08.4	27558	1997 TM ₂₀	2000 04 12.3	13 24.04 -05 16.9 19.6	-0.91 + 0.5	1.1/11.4	31013
1993 FZ ₄₀	2000 04 11.1	13 19.93 -06 00.7 17.4	-1.01 + 4.7	0.9/10.5	39519	1997 UX	2000 04 12.3	13 24.08 -05 49.1 19.1	-1.02 + 2.7	1.0/11.5	31146
1981 DV ₂	2000 04 11.2	13 19.92 -02 57.4 18.5	-0.87 +13.4	1.8/09.2	33540	1978 RV	2000 04 12.3	13 24.09 -11 57.2 18.0	-0.94 + 2.9	1.0/13.2	33921
(11316)	2000 04 11.2	13 19.97 -03 56.4 18.3	-0.93 + 5.1	1.4/09.9	35569	1998 UP ₁₅	2000 04 12.3	13 24.15 -03 26.4 16.8	-0.92 + 4.5	2.2/10.7	39544
1998 SC ₁₃₄	2000 04 11.2	13 19.97 -07 17.5 18.8	-0.94 + 6.4	0.4/10.9	33569	1999 BQ ₁₅	2000 04 12.3	13 24.32 -26 27.0 17.6	-0.95 + 0.4	4.5/17.2	35081
1997 JN	2000 04 11.2	13 20.09 -00 54.5 18.4	-0.99 + 6.1	2.9/09.0	32965	2000 AG ₁₆₈	2000 04 12.3	13 24.42 +00 35.7 18.3	-1.01 + 2.4	3.9/09.8	39580
1996 AT	2000 04 11.2	13 20.22 -01 36.3 16.2	-0.96 + 6.6	2.9/09.1	38768	1998 SO ₁₃₄	2000 04 12.4	13 24.67 -05 47.4 18.2	-0.93 + 8.0	1.2/11.5	36085
(10120)	2000 04 11.2	13 20.23 +06 35.1 17.8	-0.75 + 3.3	4.2/06.5	39510	1999 BT ₁₂	2000 04 12.4	13 24.67 -12 34.4 18.4	-0.72 + 4.9	0.9/13.7	35731
1998 WN ₇	2000 04 11.3	13 20.28 +06 12.2 18.4	-0.91 + 2.4	5.1/07.1	39279	1992 ER ₁₁	2000 04 12.4	13 24.69 -00 52.7 15.8	-0.82 + 7.2	3.5/09.8	38758
(13977)	2000 04 11.3	13 20.32 -05 14.1 16.2	-0.83 +11.0	1.1/10.2	39044	1997 UG ₅	2000 04 12.5	13 24.79 -04 33.1 19.2	-0.82 + 1.4	1.1/11.3	34298
1998 SP ₃₇	2000 04 11.3	13 20.48 -10 27.6 17.5	-0.94 + 7.4	0.8/12.0	39539	1990 RF ₁	2000 04 12.5	13 24.92 -09 27.7 17.0	-0.77 + 4.8	0.2/12.7	36065
1998 YJ ₆	2000 04 11.3	13 20.63 -13 12.0 19.0	-0.71 +10.8	1.3/13.1	33772	2154 P-L	2000 04 12.5	13 24.93 -08 52.7 18.1	-0.75 + 9.1	0.0/12.5	39646
1990 OH ₄	2000 04 11.4	13 20.85 -04 45.4 17.1	-0.72 + 6.6	1.2/10.2	39515	2151 T-3	2000 04 12.5	13 25.05 -17 18.3 16.5	-1.14 + 0.9	3.6/14.6	39649
1991 SA ₁	2000 04 11.4	13 20.86 +10 25.8 18.6	-0.71 + 6.0	5.0/04.7	34287	4215 T-2	2000 04 12.5	13 25.13 -06 00.0 19.2	-0.89 + 4.8	1.0/11.7	36124
(11062)	2000 04 11.4	13 20.96 +08 56.6 16.9	-0.77 + 4.3	5.2/05.7	35227	1994 XH	2000 04 12.6	13 25.10 -12 06.8 19.0	-0.93 + 5.1	1.0/13.6	33748
(11564)	2000 04 11.4	13 21.02 -06 11.5 17.4	-0.94 + 7.7	0.8/10.7	35849	1999 CR ₁₀₉	2000 04 12.6	13 25.18 -18 29.8 18.7	-0.64 + 3.9	2.2/15.8	36086
1998 WZ ₂₀	2000 04 11.5	13 21.22 -12 28.1 18.9	-1.00 + 5.9	1.4/12.7	35727	1994 WJ ₁	2000 04 12.6	13 25.21 +10 01.8 18.8	-1.00 + 1.0	6.6/07.7	33341
1998 YN ₅	2000 04 11.5	13 21.26 +14 02.8 18.6	-0.84 + 4.6	6.5/04.0	34035	2216 T-2	2000 04 12.6	13 25.29 -08 45.8 17.8	-0.77 + 4.3	0.1/12.6	39648
4905 P-L	2000 04 11.5	13 21.34 -10 30.9 18.5	-0.97 + 4.8	0.8/12.1	36121	1998 SL ₁₃₃	2000 04 12.6	13 25.48 -10 45.8 19.3	-0.95 + 6.2	0.6/13.2	33759
1996 AW ₄	2000 04 11.5	13 21.35 -02 42.0 16.4	-0.90 + 3.7	2.8/09.9	38768	1998 WH ₃	2000 04 12.7	13 25.63 -27 09.4 18.8	-0.92 + 5.9	5.8/18.8	33765
1997 VQ	2000 04 11.5	13 21.35 -09 55.4 17.6	-0.71 + 6.4	0.4/12.0	39530	1998 ST ₂₆	2000 04 12.7	13 25.84 -25 35.8 18.7	-0.83 + 3.9	4.8/18.1	34022
(9876)	2000 04 11.5	13 21.36 -04 52.0 18.1	-0.94 + 6.9	1.3/10.4	33463	1995 BZ	2000 04 12.8	13 25.99 +10 19.1 16.2	-0.79 + 4.7	7.7/06.3	39523
(9973)	2000 04 11.5	13 21.38 -11 01.2 18.1	-0.89 + 5.2	0.8/12.3	33665	1991 QG	2000 04 12.8	13 26.13 -08 27.1 19.5	-0.71 + 5.3	0.1/12.7	30896
(9835)	2000 04 11.5	13 21.40 -07 06.3 17.8	-0.88 + 3.1	0.4/11.2	33454	2000 CY ₁₀₁	2000 04 12.8	13 26.13 -05 51.1 16.5	-0.71 + 6.8	1.0/11.8	39433
1981 EC ₂₆	2000 04 11.5	13 21.41 -09 00.1 18.3	-0.91 + 4.5	0.2/11.7	39512	1996 EU ₃	2000 04 12.9	13 26.18 -15 19.5 17.3	-1.05 + 2.8	2.4/14.6	39525
1997 TA ₂₆	2000 04 11.6	13 21.47 -07 21.9 18.4	-0.92 + 0.2	0.4/11.3	39530	1998 TG ₅	2000 04 12.9	13 26.28 -00 56.9 18.1	-0.96 + 3.1	2.9/10.7	33760
4592 P-L	2000 04 11.6	13 21.52 -02 53.9 18.1	-0.81 + 6.2	1.8/09.8	39647	1998 SS ₂₆	2000 04 12.9	13 26.35 -11 58.6 17.4	-1.08 + 1.0	1.0/13.7	39539
1998 QO ₉₂	2000 04 11.6	13 21.56 -05 28.5 17.4	-0.95 + 6.4	1.1/10.7	39535	1998 WO ₈	2000 04 12.9	13 26.44 -04 39.3 20.9	-0.92 + 4.9	1.4/11.6	34030

2000 MAR. 20

M.P.C. 39697

1992 TV 2000 04 12.9 13 26.48 -08 48.3 17.5 -0.79 + 5.2 0.1/12.9 39518
 (10377) 2000 04 12.9 13 26.54 -06 57.2 19.4 -0.70 + 4.4 0.5/12.3 34154
 1999 CD₁ 2000 04 12.9 13 26.58 -28 37.4 17.6 -1.06 + 4.8 6.9/19.1 38543
 1314 T-2 2000 04 13.0 13 26.54 -10 18.9 17.3 -0.94 + 4.4 0.5/13.4 30914
 (10114) 2000 04 13.0 13 26.63 -10 36.3 16.9 -0.81 + 4.8 0.5/13.5 33885
 1999 CH₃₈ 2000 04 13.1 13 27.14 -04 04.6 18.6 -0.72 + 4.6 1.3/11.5 34542
 1951 QD 2000 04 13.1 13 27.14 +03 54.2 19.1 -0.80 + 5.0 3.8/09.0 33671
 6773 P-L 2000 04 13.1 13 27.25 -03 53.4 19.3 -0.94 + 5.0 1.9/11.6 33784
 1991 PT₁₁ 2000 04 13.2 13 27.32 -07 07.3 18.7 -0.70 + 4.8 0.5/12.6 34007
 1999 AL₂₁ 2000 04 13.2 13 27.39 -04 50.9 18.4 -0.91 + 6.1 1.4/11.9 39549
 1995 BM₁ 2000 04 13.2 13 27.56 -01 16.8 18.8 -0.85 + 5.3 2.3/10.8 39523
 1997 QB₄ 2000 04 13.2 13 27.68 -23 36.5 18.5 -1.09 + 0.9 4.9/17.0 34016
 1998 VA 2000 04 13.3 13 27.76 +01 40.6 16.9 -1.07 - 0.2 3.8/10.7 39545
 1991 RK₂₃ 2000 04 13.3 13 27.78 -03 21.1 16.9 -1.02 + 5.5 2.4/11.6 39516
 (14165) 2000 04 13.3 13 27.78 -13 15.3 16.3 -0.81 +10.6 1.5/15.0 39098
 1998 QO₆ 2000 04 13.3 13 27.88 -09 00.7 19.1 -0.96 + 3.7 0.1/13.3 39200
 1995 HR₂ 2000 04 13.3 13 27.94 +00 58.3 18.0 -0.87 + 1.7 3.3/10.6 39523
 1987 SP₁ 2000 04 13.3 13 28.02 -14 13.6 17.6 -1.05 + 4.1 1.8/14.8 39513
 1994 PM₂₈ 2000 04 13.4 13 28.23 -09 40.9 17.7 -1.05 + 3.4 0.2/13.6 33340
 1998 XS₂₀ 2000 04 13.4 13 28.33 -38 26.0 16.3 -0.99 + 2.2 11.7/22.4 39288
 (9878) 2000 04 13.4 13 28.33 +09 06.9 18.4 -0.69 + 7.6 5.8/06.8 33464
 1998 YN₃ 2000 04 13.5 13 28.38 -01 15.2 17.5 -0.92 + 4.0 2.7/11.1 39291
 1993 HC₁ 2000 04 13.5 13 28.39 -14 36.8 16.0 -1.84 -14.5 2.8/13.9 39520
 4105 P-L 2000 04 13.5 13 28.54 -12 01.8 19.5 -0.88 + 6.3 0.9/14.4 36120
 1991 PK 2000 04 13.5 13 28.59 -05 43.1 19.0 -0.99 + 6.6 1.3/12.5 33545
 1987 SF 2000 04 13.5 13 28.77 -02 21.4 18.9 -0.93 + 6.1 2.2/11.4 34004
 (13582) 2000 04 13.6 13 28.77 -01 50.5 16.3 -1.08 - 0.5 3.0/11.8 38338
 1994 UU₁ 2000 04 13.6 13 28.77 -07 02.9 17.4 -1.08 + 4.0 0.9/13.0 39522
 (10062) 2000 04 13.6 13 29.00 -12 01.2 18.0 -0.88 + 5.0 0.9/14.5 33872
 1989 OC 2000 04 13.6 13 29.04 -26 34.3 16.5 -1.05 + 1.3 8.4/18.1 30781
 1994 VQ₁ 2000 04 13.6 13 29.06 -14 28.3 18.8 -0.90 + 6.3 1.7/15.3 34011
 1998 VZ₁₃ 2000 04 13.7 13 29.18 -16 55.7 17.1 -0.99 + 7.1 2.9/16.1 39545
 1998 VO₂₆ 2000 04 13.7 13 29.29 -11 28.7 19.9 -0.98 + 5.0 0.7/14.4 35724
 1991 RW₁₈ 2000 04 13.7 13 29.34 -15 59.8 18.1 -0.76 + 4.7 1.8/15.8 34837
 (9761) 2000 04 13.8 13 29.61 -14 06.2 17.6 -1.03 + 4.9 1.7/15.2 39510
 1998 YP₅ 2000 04 13.8 13 29.92 -07 06.4 18.8 -0.75 + 4.7 0.7/13.2 39291
 1985 RB₃ 2000 04 13.9 13 29.88 -11 28.5 19.1 -0.89 + 4.1 0.6/14.5 34004
 1998 SO₅₀ 2000 04 13.9 13 30.04 -11 48.8 16.8 -1.02 + 2.4 1.1/14.6 38790
 (13972) 2000 04 13.9 13 30.20 -02 15.9 16.8 -0.98 + 4.8 2.7/11.9 39043
 1998 YK₁₇ 2000 04 13.9 13 30.31 -29 01.0 19.2 -0.97 + 4.3 6.0/20.0 34037
 1986 XR₅ 2000 04 14.0 13 30.39 -08 38.6 18.1 -0.74 + 3.7 0.2/13.8 34283
 1998 VZ₂₉ 2000 04 14.0 13 30.58 -08 23.1 18.3 -1.02 + 4.5 0.4/13.8 35724
 (9766) 2000 04 14.1 13 30.64 -08 21.0 17.0 -0.93 + 4.9 0.4/13.8 33203
 1999 DC 2000 04 14.1 13 30.91 -08 24.1 17.5 -0.59 + 4.4 0.2/13.8 39550
 1996 ER₁₂ 2000 04 14.1 13 30.97 -15 52.8 18.9 -0.98 + 6.4 2.2/16.1 33750
 2112 T-2 2000 04 14.2 13 31.14 -09 20.3 19.3 -0.72 + 4.2 0.0/14.2 34338
 1981 EX₂₆ 2000 04 14.2 13 31.22 -08 59.1 16.3 -0.90 + 7.4 0.2/14.1 38751
 1998 YL₂₇ 2000 04 14.2 13 31.23 -09 24.3 17.0 -0.82 + 5.6 0.0/14.2 35442
 1998 SQ₁₃₃ 2000 04 14.2 13 31.24 -10 44.1 18.2 -0.99 + 4.7 0.4/14.6 35719
 (10118) 2000 04 14.2 13 31.25 -20 50.4 17.1 -0.85 + 5.5 3.6/17.8 33886
 1991 SJ 2000 04 14.2 13 31.28 +00 40.5 16.3 -0.89 + 7.3 4.8/10.9 39148

3813 T-3 2000 04 14.2 13 31.35 -09 31.9 20.3 -0.91 + 4.8 0.0/14.3 34061
 1991 SM₂ 2000 04 14.2 13 31.35 -11 37.6 16.8 -1.09 + 2.7 0.8/14.8 39517
 1989 SA 2000 04 14.3 13 31.79 +09 16.9 17.8 -0.91 + 2.9 5.7/08.8 39514
 1998 XS₃₀ 2000 04 14.4 13 31.70 -25 40.8 17.3 -0.83 + 8.7 6.2/20.2 35728
 1991 RJ₂₉ 2000 04 14.4 13 31.86 -27 44.4 18.4 -0.78 + 3.7 4.4/20.2 38025
 1998 YF₁₂ 2000 04 14.4 13 31.87 +07 34.9 17.1 -0.79 + 3.5 5.2/09.0 39549
 1997 QE₂ 2000 04 14.4 13 31.94 -08 45.4 18.1 -0.85 + 3.6 0.3/14.2 39529
 1989 UW₃ 2000 04 14.4 13 32.05 -19 05.3 17.8 -0.86 + 7.6 2.9/17.6 34284
 1997 WJ₁ 2000 04 14.5 13 32.17 -12 28.7 18.0 -0.85 + 2.3 0.8/15.3 31150
 1994 AD₁₁ 2000 04 14.5 13 32.22 -26 39.0 17.7 -0.90 + 3.0 4.6/19.6 35689
 (9844) 2000 04 14.5 13 32.29 +03 21.5 18.3 -0.90 + 2.4 3.9/10.9 33456
 1998 XZ₃₂ 2000 04 14.5 13 32.39 -15 55.3 16.7 -0.94 + 1.8 2.1/16.3 39288
 2629 P-L 2000 04 14.5 13 32.47 -10 14.3 19.0 -0.78 + 4.0 0.2/14.8 34059
 1998 RD₇₇ 2000 04 14.6 13 32.45 +00 14.2 17.0 -0.95 + 6.4 4.3/11.6 39538
 1998 XY₈ 2000 04 14.6 13 32.49 -26 34.2 18.1 -1.01 + 6.0 5.6/20.0 34311
 1980 BA 2000 04 14.6 13 32.67 +02 11.3 17.8 -0.92 + 4.8 4.2/11.1 39511
 1993 FZ₄₉ 2000 04 14.6 13 32.72 -12 55.6 17.0 -1.01 + 4.2 1.5/15.6 30471
 4089 T-2 2000 04 14.6 13 32.73 -04 19.3 20.8 -0.86 + 5.4 1.6/13.0 36123
 (9782) 2000 04 14.6 13 32.73 +01 19.4 15.9 -0.97 + 0.6 4.8/11.8 33207
 1992 KF 2000 04 14.6 13 32.85 +10 54.4 16.5 -1.03 - 0.4 8.4/09.2 39518
 1998 UX₄ 2000 04 14.6 13 32.87 -04 09.1 20.1 -0.89 + 3.6 1.9/13.1 33761
 1981 EW₃₆ 2000 04 14.7 13 32.91 -18 22.8 19.3 -0.85 + 4.8 2.8/17.4 35678
 1997 UA₂₁ 2000 04 14.7 13 33.05 -11 05.1 17.3 -0.82 + 8.8 0.5/15.0 39530
 (9919) 2000 04 14.7 13 33.11 -10 04.6 18.9 -0.93 + 5.9 8.2/26.0 33652
 (12848) 2000 04 14.7 13 33.20 +02 47.2 17.7 -0.78 + 8.9 4.1/10.4 38750
 5148 T-2 2000 04 14.7 13 33.22 -20 29.8 18.0 -1.05 + 4.7 3.8/17.8 33785
 (10006) 2000 04 14.7 13 33.27 -02 20.9 17.3 -0.94 + 2.3 2.5/12.8 33859
 (10236) 2000 04 14.8 13 33.41 -07 54.9 16.7 -1.02 + 4.3 0.7/14.3 33915
 1994 YN 2000 04 14.8 13 33.45 +11 11.4 19.1 -0.88 + 3.9 6.1/08.4 33749
 1997 LR 2000 04 14.9 13 33.78 +03 25.4 20.1 -1.04 + 7.1 5.0/10.8 30088
 (9904) 2000 04 14.9 13 33.84 +00 17.1 18.7 -0.79 + 6.0 3.0/11.7 33469
 1993 TD₂₅ 2000 04 14.9 13 33.93 -05 56.0 18.1 -0.93 + 4.4 1.4/13.9 36070
 3347 T-2 2000 04 14.9 13 33.94 -04 20.7 16.4 -0.96 + 4.7 2.3/13.4 32537
 (10098) 2000 04 14.9 13 33.94 -04 31.1 17.3 -0.84 + 2.2 1.6/13.5 33881
 1992 GD₃ 2000 04 15.0 13 33.96 -11 19.4 17.1 -0.84 + 8.3 0.5/15.5 39518
 1998 VM₃₀ 2000 04 15.0 13 33.97 -09 46.8 18.1 -1.00 + 4.6 0.0/15.0 35724
 (11147) 2000 04 15.1 13 34.43 +01 05.1 17.7 -0.73 + 3.9 2.9/11.7 35249
 1979 MU₂ 2000 04 15.1 13 34.52 -03 47.7 19.6 -0.73 + 5.5 1.8/13.2 34002
 1998 SR₄ 2000 04 15.1 13 34.57 -11 18.2 18.3 -0.94 + 8.4 0.6/15.6 33353
 1999 CZ₁₀₅ 2000 04 15.2 13 34.71 -17 11.3 17.8 -0.91 + 4.7 2.4/17.4 34256
 1992 WG 2000 04 15.2 13 34.87 -00 10.1 18.2 -0.82 + 2.2 2.7/12.5 39518
 1997 WK₂ 2000 04 15.2 13 34.87 -00 50.4 17.3 -0.78 + 3.3 2.6/12.5 39530
 (13952) 2000 04 15.3 13 35.14 -01 04.5 17.0 -0.92 + 5.8 3.4/12.6 39038
 1998 SA₂₆ 2000 04 15.3 13 35.16 -04 25.3 17.8 -1.04 + 3.4 2.2/13.9 39235
 (13508) 2000 04 15.3 13 35.27 -09 27.9 15.5 -1.07 + 1.4 0.2/15.2 38318
 (9924) 2000 04 15.3 13 35.31 -13 32.9 18.2 -0.84 + 4.2 1.1/16.4 33653
 (10064) 2000 04 15.3 13 35.41 -08 16.7 16.2 -0.92 + 2.6 0.5/14.9 33873
 1992 OV₅ 2000 04 15.4 13 35.65 +04 11.4 18.9 -0.79 + 6.2 4.0/10.7 34185
 1998 UP₃₉ 2000 04 15.4 13 35.68 -13 23.9 17.8 -0.85 + 8.9 1.1/16.6 39545
 1998 VD₄₄ 2000 04 15.5 13 36.19 -00 27.2 17.9 -0.97 + 3.5 3.4/12.9 39546
 (9895) 2000 04 15.6 13 36.23 -11 20.4 16.8 -1.05 + 4.1 0.5/16.0 33467

1998 TX ₁₂	2000 04 15.6	13 36.28	-10 26.9	16.1	-0.85	+	6.5	0.2/15.8	38794	1996 HX ₁₂	2000 04 16.9	13 41.07	-09 37.4	16.8	-0.85	+	8.0	0.3/16.6	27561
(10343)	2000 04 15.6	13 36.39	-07 22.3	18.7	-0.73	+	4.6	0.7/14.8	34146	1998 XZ ₉₆	2000 04 16.9	13 41.10	+10 40.9	18.2	-0.78	+	4.1	6.1/10.1	38067
1993 FA ₂₈	2000 04 15.6	13 36.50	-16 04.9	17.8	-1.05	+	4.2	2.3/17.4	33548	1996 UC ₃	2000 04 16.9	13 41.23	-16 17.4	19.5	-0.59	+	3.2	1.1/18.8	32055
(10189)	2000 04 15.7	13 36.67	+01 18.3	17.4	-0.81	+	5.9	3.6/12.1	33903	4319 P-L	2000 04 16.9	13 41.23	-15 12.7	17.6	-1.02	+	6.9	2.1/18.4	19875
1990 QO ₅	2000 04 15.7	13 36.69	-07 35.6	17.6	-0.97	+	5.1	1.0/15.0	39515	2272 T-3	2000 04 16.9	13 41.38	-14 10.9	18.1	-1.05	+	4.0	1.4/18.0	33590
1998 XC ₇₃	2000 04 15.7	13 36.83	-29 11.3	17.0	-0.97	+	1.8	6.2/21.3	33719	1998 VG ₃₇	2000 04 17.0	13 41.48	-16 56.1	20.1	-0.90	+	5.9	1.9/19.0	34538
1981 EN ₁₆	2000 04 15.7	13 36.86	-24 04.9	18.7	-1.01	+	2.2	6.4/19.7	30468	1998 WN ₆	2000 04 17.0	13 41.58	-03 10.1	16.9	-0.71	+	7.3	2.4/14.6	39547
1981 WJ ₉	2000 04 15.7	13 36.91	-08 00.3	18.3	-0.85	+	6.7	0.7/15.1	39512	1987 DK ₆	2000 04 17.1	13 42.01	-15 36.9	15.6	-1.01	+	4.0	2.5/18.5	38753
1981 EX ₂₀	2000 04 15.8	13 37.24	-01 42.7	18.0	-0.77	+	7.1	2.9/13.1	26918	1978 VU ₈	2000 04 17.1	13 42.10	-07 11.9	19.4	-0.92	+	4.7	1.1/16.2	35677
1994 PM ₂₅	2000 04 15.8	13 37.32	-05 25.9	18.6	-0.95	+	5.9	1.7/14.5	34011	1993 FX ₁₇	2000 04 17.1	13 42.13	+00 24.6	17.0	-0.96	+	5.6	4.4/13.9	39519
1991 VF ₁	2000 04 15.8	13 37.33	-12 24.1	17.7	-1.04	+	4.4	0.9/16.5	39517	1996 FY ₂	2000 04 17.2	13 42.14	-17 40.4	16.7	-0.92	+	4.5	3.1/19.3	35695
1995 FY ₂	2000 04 15.9	13 37.66	-14 42.2	18.2	-0.93	+	2.4	1.5/17.2	39523	(10263)	2000 04 17.2	13 42.26	-11 10.0	15.9	-0.79	+	9.8	0.2/17.4	34127
2230 P-L	2000 04 15.9	13 37.68	-08 41.8	20.2	-0.82	+	8.5	0.5/15.5	36866	1998 XG ₅	2000 04 17.2	13 42.29	-20 30.1	18.7	-0.85	+	7.2	3.1/20.5	34032
1997 UH ₂₂	2000 04 16.0	13 37.82	-05 27.7	18.6	-0.77	+	5.7	1.4/14.5	31115	1998 VW	2000 04 17.2	13 42.30	+01 19.0	18.6	-0.97	+	1.8	3.8/14.2	35723
1992 DX ₈	2000 04 16.0	13 37.98	-05 50.1	17.9	-0.94	+	4.4	1.6/14.8	39517	1999 BW ₂₅	2000 04 17.2	13 42.38	-00 05.1	17.8	-0.79	+	6.6	3.1/13.8	39298
4105 T-1	2000 04 16.1	13 38.19	-08 26.4	17.4	-0.75	+	4.6	0.5/15.6	39648	1992 EJ ₂₄	2000 04 17.2	13 42.49	+04 27.3	18.6	-0.89	+	5.7	4.7/12.6	33745
1996 TT ₃₈	2000 04 16.1	13 38.33	-06 24.9	16.8	-0.75	+	4.1	1.3/15.0	38770	(10616)	2000 04 17.3	13 42.57	-06 50.1	18.3	-0.87	+	5.9	1.4/16.2	34467
1997 SE ₁₅	2000 04 16.2	13 38.69	-14 07.1	19.2	-0.74	+	4.9	1.1/17.5	35701	2673 P-L	2000 04 17.3	13 42.62	-07 51.5	19.1	-0.83	+	4.6	0.9/16.5	33735
1994 VZ	2000 04 16.3	13 38.91	-12 59.0	17.6	-0.94	+	7.7	1.0/17.2	33551	(9911)	2000 04 17.3	13 42.69	-10 11.7	15.8	-1.02	+	1.4	0.2/17.2	33471
1998 XH ₁₁	2000 04 16.3	13 38.91	+07 36.6	17.5	-0.93	+	1.4	6.2/11.5	34032	1998 UG	2000 04 17.3	13 42.74	-46 43.0	18.2	-1.35	+	3.1	11.9/29.4	34306
1998 UF ₁₁	2000 04 16.4	13 39.49	-06 10.5	20.1	-0.83	+	4.0	1.2/15.3	34306	1998 UC ₁₅	2000 04 17.4	13 42.84	+00 35.9	18.3	-0.87	+	6.0	4.3/13.9	39267
1971 UK ₁	2000 04 16.4	13 39.55	-10 14.6	18.5	-0.89	+	8.0	0.0/16.5	39510	1996 HP	2000 04 17.4	13 42.88	+01 47.3	16.9	-1.05	-	1.0	5.0/14.6	39526
1994 CN	2000 04 16.5	13 39.55	-04 37.0	17.4	-0.84	+	2.2	1.7/14.9	39521	1999 AH ₂₁	2000 04 17.4	13 42.90	-13 08.8	17.0	-0.81	+	5.6	0.9/18.2	39296
1999 CF ₄	2000 04 16.5	13 39.72	+05 44.0	18.2	-0.80	+	7.4	5.4/11.1	39550	1997 PM ₄	2000 04 17.4	13 42.93	-21 00.5	19.4	-0.93	+	4.4	3.2/20.4	33951
1999 AD ₇	2000 04 16.5	13 39.76	-13 54.6	18.6	-0.74	+	4.8	1.0/17.7	34315	1989 LT	2000 04 17.4	13 43.08	-12 14.7	16.1	-0.94	+	4.1	0.7/17.9	38754
1998 UY ₂₀	2000 04 16.5	13 39.90	-09 57.8	18.8	-0.96	+	4.8	0.1/16.5	35722	1993 RH ₂	2000 04 17.4	13 43.08	-21 17.1	18.2	-1.07	+	1.3	3.5/20.0	39520
1998 WU ₂₀	2000 04 16.6	13 39.91	-12 59.3	15.9	-0.89	+	10.2	1.1/17.5	38798	1993 RP ₃	2000 04 17.4	13 43.13	-25 38.1	17.9	-0.90	+	6.3	4.4/22.3	39520
(10144)	2000 04 16.6	13 40.13	-10 56.0	16.9	-0.79	+	4.7	0.2/16.8	33892	1998 XK ₃	2000 04 17.5	13 43.22	-34 42.5	19.3	-0.96	+	5.7	6.7/25.5	35727
(10002)	2000 04 16.6	13 40.19	-07 25.4	18.4	-0.73	+	3.8	0.8/15.8	33858	1999 AA ₂	2000 04 17.5	13 43.23	-16 08.5	17.6	-0.89	+	5.8	1.9/19.2	34037
1992 WB ₉	2000 04 16.7	13 40.29	-12 16.9	17.8	-0.78	+	4.0	0.5/17.3	39518	1975 LY	2000 04 17.5	13 43.39	-36 10.3	17.2	-1.04	+	3.0	9.4/25.4	33738
1999 AX ₇	2000 04 16.7	13 40.44	-17 28.8	16.2	-0.85	+	2.0	2.2/18.7	34937	(9983)	2000 04 17.5	13 43.63	-05 29.2	17.4	-0.90	+	2.7	1.7/16.2	33667
1997 TY ₂₄	2000 04 16.7	13 40.49	-07 54.3	19.7	-0.88	+	5.7	0.8/16.0	33754	1997 WE ₃₆	2000 04 17.6	13 43.63	-07 21.4	18.5	-0.74	+	3.1	0.9/16.6	34213
1993 FK ₁₅	2000 04 16.7	13 40.55	-00 20.0	17.5	-0.93	+	5.0	4.5/13.8	39154	(10421)	2000 04 17.6	13 43.77	-10 44.7	17.7	-0.95	+	5.9	0.0/17.6	34165
(14037)	2000 04 16.7	13 40.62	-11 03.8	16.4	-0.75	+	8.3	0.2/17.0	39061	1236 T-1	2000 04 17.6	13 43.85	-16 37.1	17.9	-1.13	+	3.7	2.5/19.2	33056
1976 UN ₂	2000 04 16.7	13 40.68	-13 10.4	17.7	-1.05	+	6.4	1.1/17.6	39510	(10509)	2000 04 17.6	13 43.96	-09 08.8	17.7	-0.74	+	5.3	0.4/17.2	34439
1997 RL ₃	2000 04 16.8	13 40.64	-20 39.4	18.1	-0.99	+	3.1	3.5/19.6	34203	1988 VR ₂	2000 04 17.7	13 43.93	+08 17.0	18.0	-0.86	+	2.3	5.8/12.4	38753
1999 CJ ₇₈	2000 04 16.8	13 40.69	-07 12.8	18.3	-0.68	+	5.2	0.8/15.8	39550	1992 EA ₆	2000 04 17.7	13 44.09	+01 20.8	17.5	-0.91	+	5.4	4.3/14.1	39517
1998 QF ₉₂	2000 04 16.8	13 40.71	-14 35.5	16.9	-1.75	-	8.2	2.1/17.3	39211	1990 VH ₅	2000 04 17.7	13 44.13	+02 45.8	19.4	-0.91	+	4.4	4.5/13.8	33930
(10065)	2000 04 16.8	13 40.75	-16 10.7	16.0	-0.79	+	7.0	2.0/18.7	33873	1998 YG ₇	2000 04 17.7	13 44.22	-26 06.0	17.3	-0.87	+	2.8	4.9/22.3	39549
1998 WD ₈	2000 04 16.8	13 40.82	-03 05.5	17.3	-0.87	+	3.3	2.5/14.7	39547	1994 TF ₁₅	2000 04 17.7	13 44.34	-15 23.3	16.7	-1.08	+	5.2	1.9/19.1	39522
1998 YD ₄	2000 04 16.8	13 40.82	-10 06.7	16.4	-0.77	+	5.3	0.1/16.7	39291	(9988)	2000 04 17.8	13 44.36	-11 27.1	16.6	-0.82	+	4.0	0.2/18.0	33668
1998 XE ₈₀	2000 04 16.8	13 40.84	-07 52.4	18.8	-0.80	+	8.1	0.8/16.0	35728	(14200)	2000 04 17.8	13 44.38	-02 33.5	16.6	-0.87	+	6.8	3.0/15.2	39108
1992 BC ₁	2000 04 16.8	13 40.86	+22 02.4	18.5	-0.92	+	5.3	9.7/06.0	38757	6075 P-L	2000 04 17.8	13 44.39	-07 58.3	19.7	-0.94	+	7.7	1.0/16.9	35402
1998 UR ₃₁	2000 04 16.8	13 40.86	+00 57.0	15.4	-1.06	+	0.2	5.7/14.0	38796	1997 WC ₄₅	2000 04 17.8	13 44.59	-16 53.6	17.8	-0.76	+	6.3	1.8/19.8	35703
1997 NM ₁₀	2000 04 16.8	13 40.87	-29 40.7	19.1	-1.08	+	5.3	7.4/22.5	33499	1998 SN ₅₀	2000 04 17.8	13 44.62	-12 45.7	17.6	-0.95	+	6.0	0.8/18.4	39539
1985 UQ ₄	2000 04 16.8	13 40.89	-06 31.6	18.2	-0.70	+	4.1	1.0/15.6	39513	1997 SX	2000 04 17.8	13 44.72	-05 16.9	17.5	-0.82	+	2.2	1.6/16.3	35701
1978 UV ₇	2000 04 16.8	13 40.92	-09 31.9	17.6	-0.79	+	6.1	0.3/16.6	39511	1999 CU ₁₇	2000 04 17.9	13 44.70	-12 33.5	17.6	-0.80	+	4.5	0.5/18.4	35082
1998 XY ₂₁	2000 04 16.8	13 40.95	-07 49.9	18.7	-0.83	+	4.8	0.9/16.1	35728	6519 P-L	2000 04 17.9	13 44.72	-10 42.4	17.3	-0.83	+	3.5	0.0/17.9	38191
(10099)	2000 04 16.8	13 41.00	-06 28.6	18.4	-0.71	+	3.9	1.0/15.7	33881	(14136)	2000 04 17.9	13 44.96	-16 52.9	16.7	-1.02	+	5.9	2.4/20.0	39090
1997 SZ ₂	2000 04 16.8	13 41.01	-12 13.3	18.1	-0.77	+	4.2	0.5/17.4	39529	2082 P-L	2000 04 18.0	13 45.06	-15 52.2	18.2	-1.00	+	6.6	2.0/19.5	32502
1988 VE ₃	2000 04 16.9	13 41.01	-02 03.2	20.0	-0.91	+	1.9	2.3/14.6	34828	1998 SE ₁₂₆	2000 04 18.0	13 45.07	-03 40.3	17.5	-0.97	+	3.3	2.7/16.1	34024